

Overall Report by AAA team:
Name of the Department: **Physics and Astronomical Science**
Academic Audit Report on UG/PG Programme
2016-21

I Curriculum aspect:

Strength:

- UG/PG Curriculum is designed in such a way to not only acquaint the students with the latest theoretical and experimental skills by imparting highly advanced courses but, also, give them a chance to develop and identify the interdisciplinary nature of the subject.
- Along with conventional and fundamental courses, the student has an opportunity to learn highly advanced special courses during the second year of the programme.
- Designed in a way to encourage the student to undergo a rigorous training during the finalization of the M. Sc. dissertation which is based on the recent research problems giving them an opportunity to get familiar with the frontline research areas. Students who wish to pursue higher studies in the subject are, thus, well equipped to choose their branch of study in future.
- Students will get hands-on experience through well equipped labs making them ready to go on to work in applied fields. In addition, it will develop, in the students, logical thinking and critical attitude which may help them in the related field(s).
- Diversified basket of specialization courses offered by subject experts of the respective fields.
- Other than the subject specific quality outcomes, the curriculum, in general, caters to inculcating a good sense of responsibility of preserving our environment through active participation in courses like Swachh Bharat and Environmental studies.
- The UG curriculum, also, provides an opportunity to learn Indian languages such as Sanskrit.

Weakness:

- Lack of sufficient laboratory space for UG/PG and Research labs.
- Participation of students in extracurricular activities at PG and RD level.
- Strengthening national and international research collaborations.

Specific Areas for Improvement:

- Incorporate the subject extension activities at UG and PG level such as workshops, seminars at regular intervals.
- To improve the experimental and theoretical research facilities.
- Curriculum may be improved for hands-on training to students in handling the sophisticated instruments.
- High-end research equipments for identification / characterization of materials are required.
- Regular orientation sessions may be conducted for the outgoing students at PG level to make them aware about various prospects in the respective field.

- Encourage faculty groups to seek improvement in their respective research areas and build successful collaborations, thus, opening new windows for students progression.

Recommendations:

- Encourage the students to take courses from various online resources such as NPTEL UGC PG Pathshala and to frame guidelines for the same at the university level.
- Curriculum may be continuously revised considering the developing need of the society in general and student in particular.
- Setting up of sophisticated Instrumentation facility at the University level.
- Effective implementation of blended mode of teaching to facilitate enrichment of overall teaching learning process.

II Syllabus :

Strength:

- The syllabus covered under the programme is at par with the model curriculum prescribed by the UGC.
- The course structure is a blend of conventional courses important for building a perspective about the subject plus specialization courses aimed at giving student a flavor of recent trends in thrust areas identified by the department.
- Overall the pedagogic and examination processes are progressive.
- It covers the entire range of topics in physics suitable at UG and PG level.

Weakness:

- The UG and PG contents are to be in continuity and redundant or overlapping contents should be removed.
- Syllabus needs to be revised regularly for which feedback from the students and BOS/SB/CDC expert opinion should be called for.

Specific Areas for Improvement:

- Introduction of more research and application oriented courses in the overall syllabi of the programme.
- Separate UG and PG Departmental library which should be enriched in accordance with the syllabi offered by the department.

Recommendations:

- Introduction of more research oriented contents in syllabus with direct application to society.
- Individual physics faculty should improve their courses, using objective evidence to judge success.

- Department should create a culture of continuous improvement in the course syllabi wherein educational innovation is encouraged.

III. Teaching Methodologies

Strength:

- The rigorous approach in doing physics (whether teaching or research) by the department is directly absorbed during the interaction sessions (both classroom and laboratories) by the students.
- The students are given training through various modes such as classroom lectures (both traditional and ICT), lab demonstrations, simulation activities, problem solving, assignments, seminars, colloquium series, research projects, community projects, workshops and discussion sessions.
- Online teaching and resources are, also, made available.
- Guest lectures and seminars.
- Group discussions and collaborative responsibilities are promoted.
- The UG curriculum promotes the societal responsibilities through community based project.

Weakness:

- Departmental laboratory facility should be developed.
- Inadequate interaction time with teachers, researchers and resources (labs, library, internet) which is of utmost importance.
- Need to take special attention to weak students.
- Need to encourage Blended modes of learning and students are not provided with option of sufficient number of online courses.

Specific Areas for Improvement:

- Research laboratories for material science and nanotechnology has to be urgently put in place to utilize the expertise available, with 8 faculty members being experts in these fields of research.
- Installation of High performance computing systems and enhancement of existing Computational facilities with appropriate UPS backup and additional units, need to be put in place for advancing research and student projects.
- Curriculum should be revised regularly for which feedback mechanism should be designed by the department.

Recommendations:

- The department should design a policy for creating e-content and publish it in e-repositories.

IV. Learning Methodologies & Learning Environment

Strength:

- Learning by doing through activities developed through physics education research strategies.
- Provision of links to e-resources.
- Student centric and participative learning
- Problem based learning

Weakness:

- Unable to provide online content through proper learning management tools.
- Both UG and PG laboratories needs to be upgraded through introduction of new experiments.

Specific Areas for Improvement:

- Creating online learning platform from open sources such as Moodle on the university server.
- Advanced Learners and Slow learners can be identified and special coaching to be given for slow learners.

Recommendations:

- Students should be encouraged to obtain online certification through Massive Open Online courses (MOOC)
- Coaching classes for NET and competitive examinations can be arranged by the department.

V. Evaluation

Strength:

- Very clearly charted out evaluation system has been setup for laboratories, simulation and programming labs, projects and dissertations.
- A good amount of weightage is given to problems in the examination papers.
- Both internal and external components of evaluation are in place for effective assessment of the learning outcomes.
- Higher weightage to external examination scores in end-semester
- Ensuring plagiarism checks for student projects as well as research thesis

Weakness:

- The external examiners for laboratories and project viva-voce are typically from local colleges and nearby universities.
- Students are evaluated twice for the syllabus covered before the mid-term i.e. in mid-term and end-term.

Specific Areas for Improvement:

- Internal assessment could be further enhanced if learning management systems are incorporated
- End semester examination for 125 marks in 3 hours is very stressful for students. It should be 100 marks and the weightage can still remain 60%.

Recommendations:

Additional weightage can be given to students who have completed MOOC and other certification courses (identified by the department) offered by various online platforms such as NPTEL, e-PG Pathshala etc..

(Kindly Tick whatever you feel relevant and right, based on your interactions with staff and students)

Kindly provide specific reasons for the instances of the lowest score on the scale:

Academics:

Statement	Excellent	Good	Satisfactory	Poor
Core Courses				
The Courses taught are useful for various skill development	√			
The Courses taught are useful for employment	√			
The Courses taught are useful to go for higher studies	√			
Inter Departments Courses				
The Courses taught are useful for various skill development		√		
The Courses taught are useful for employment	√			
The Courses taught are useful to go for higher studies	√			
Life Skills Programme & Internship				
Statement	Excellent	Good	Satisfactory	Poor
Useful for various Skill development		√		
Useful for employment	√			

Text Books and Reference Books

Prescribed Text book/Reference Book for the Courses	Standard-Covering all units of prescribed syllabus	Standard-But not covering all units of prescribed syllabus	Not updated edition	Substandard
	√			

Learning Environment

Statement	Excellent	Good	Satisfactory	Poor
The University has facilities to help learning-Library, Digital Library, E-Journal	√			
Lab Facilities		√		
Classrooms Facilities		√		
Campus maintenance		√		
ICT Provisions		√		
Provision for Collaboration with other Departments/Institutions		√		
Research Orientations & Project Work	√			
Extension Activities		√		

Teaching

Statement	Strongly Agree	Agree	Disagree	Strongly Disagree
The course teacher complete the portions completely	√			
Most of the teachers encourage the students participation in the class	√			
Most of the teachers take extra efforts to make all the students understands the subjects	√			
Teacher's knowledge, expertise, teaching and communication ability	√			
Staff are knowledgeable and proficient in using the online teaching methodologies	√			

Evaluation

Statement	Strongly Agree	Agree	Disagree	Strongly Disagree
Evaluation primarily tests: Mid Term Exam	√			
Evaluation primarily tests: Analytical Skills	√			
Evaluation primarily tests: Quiz/Creativity/originality	√			
Evaluation primarily tests: Communication	√			
An objective system of evaluation in place	√			

Question Papers

Internal Papers	High Standard	Moderate Standard	Low Standard	Expected and already discussed in the class	From the text book only	Out of portion
√	√					

CIA (Tick if agreed)

Continuous Internal Assessment performed	Continuous evaluation	Assignment	Quiz	Regular Evaluation in Class
√	√	√	√	√

List out five major areas of concern which need immediate attention:

- The course structure needs to be fixed for at least three years and course revision should be made based on the feedback received from the stakeholders.
- The course basket of elective courses should be expanded to include courses based on research expertise available in the department.
- The students should be encouraged to take MOOCs or course from the online platforms such as NPTEL and e-PG pathshala etc..
- There should be optimum balance in theoretical and practical components in the overall course distribution.
- Strengthening institutional linkage and scientific exchange programs building national and international research collaborations.

Suggest some of the new subjects/courses which may be considered for inclusion in the proposed restructured curriculum:

- Value added courses should be introduced such as PG diploma in Nuclear Radiation and Safety aspects.

Your overall opinion/comments on the restructured curriculum, teaching learning and evaluation methodologies followed in the department.

The overall opinion on the curriculum, teaching-learning and evaluation is good.

The restructured curriculum in accordance with the NEP 2020 provides an opportunity for the overall development of the students with virtues:

- Holistic Multidisciplinary Education with multiple entry/exit options
- Emphasis on promoting multilingualism and Indian languages
- curriculum envisages flexibility of Subjects
- Fostering a strong research culture
- Community engagement and social responsibility

Signature of the chair person and members of the Academic Audit team:



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IQAC/

Date:

INFORMATION FOR ACADEMIC AUDIT OF THE DEPARTMENT

(Please provide information for Academic Sessions from 2016-2021)

1. Name of the Department: Physics and Astronomical Science
2. Year of establishment: - 2011
3. Courses offered:

Undergraduate	Post Graduate
B.Sc. (Hon's) Physics since 2015	M.Sc. Physics since 2011

4. Courses introduced during last year: - (New)

Undergraduate	Post Graduate	Add-on/Value Added	Link
Courses introduced during (2015-16) for Academic Year (2016-17)			
PAS 101 Mathematical Physics-I (Credit4)	PAS401A Classical Mechanics (Credit 4)	SKT 201 Sanskrit Samhashnam (Credit 2) (UG)	
PAS 101L Mathematical Physics-I Lab (Credit 2)	PAS403A classical electrodynamics (Credit 4)	HIL-469 Prayojanmoolak Hindi (Credit 2) (UG)	
PAS 102 Mechanics (Credit4)	PAS404A Quantum Mechanics (Credit 4)	EEL-111 Functional and communication Skill in English (Credit 2) (UG)	Link
PAS 102L Mechanics Lab (Credit 2)	PAS413 General Physics lab (Credit 2)	EEL-446 Human Values in Literature (Credit 2) (UG)	
PAS 103 Electricity and Magnetism (Credit 4)	PAS406A Statistical Mechanics (Credit 4)	PAS417A History and Philosophy (Credit 2) (PG)	



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PAS 103L Electricity and Magnetism Lab (Credit 2)	PAS407A Advanced quantum Mechanics (Credit 4)	PAS 427A Scientific Writing and Presentation (Credit 2) (PG)
PAS 104 Waves and oscillations (Credit 4)	PAS408A Condensed matter Physics (Credit 4)	PAS 428B Elements of Scientific Programming (Credit 2) (PG)
PAS 104L Wave and oscillations Lab (Credit 2)	PAS409A Nuclear and particle physics (Credit 4)	
PAS 201 Mathematical Physics-II (Credit 4)	PAS411A Atomic molecular & laser Physics (Credit 4)	
PAS 201L Mathematical Physics Lab-II (Credit 2)	PAS 423 Modern Physics Lab (Credit 2)	
PAS 202 Thermal Physics (Credit 4)	PAS428A Computational Physics (Credit 4)	
PAS 202L Thermal Physics Lab(Credit 2)		
PAS 203 Digital Systems and applications (Credit 4)		
PAS 203L Digital Systems and applications Lab (Credit 2)		
PAS 204 Optics (Credit 4)		
PAS 204L Optics Lab (Credit 2)		
PAS 205 Elements of Modern Physics (Credit 4)		
PAS 205L Elements of Modern Physics Lab (Credit 2)		
PAS 206 Analog Systems and applications (Credit 4)		



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PAS 206 L Analog Systems and applications Lab (Credit 2)			
PAS 301 Quantum mechanics (Credit 4)			
PAS 301 L Quantum mechanics Lab (Credit 2)			
PAS 302 Solid State Physics (Credit 4)			
PAS 302 L Solid State Physics Lab (Credit 2)			
PAS 303 Electromagnetic Theory (Credit 4)			
PAS 303 L Electromagnetic Theory Lab (Credit 2)			
PAS 304 Statistical Physics (Credit 4)			
PAS 304L Statistical Physics Lab (Credit 2)			
Courses introduced during(2016-17) for Academic Year (2017-18)			
PAS 350 Innovative Project	PAS 426A Quantum Field Theory	PAS 351 Community Project (Credit 8) (UG)	
PAS 351 Community Connect Project	PAS 406 Statistical Mechanics	SKT201 Sanskrit Smabhashna (Credit 2) (UG)	
PAS 352 Project	PAS 524 Advanced Statistical Mechanics	EEL-111 Functional and communication Skill in English (Credit 2) (UG)	Link
PAS 353 Summer school Project Tutorials		PAS124 Nuclear Radiation and Safety (Credit 2) (UG)	
		ENV121 Basic of Environmental Studies(Credit 2) (UG)	



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Courses introduced during(2017-18) for Academic Year (2018-19)			
EEL 111 Functional and Communication Skill in English		Science of Yoga (PAS556)	Link
SKT 202 Sanskrit Bhashanaipunyama		Scientific writing & Presentation (PAS427A)	
		History & Philosophy of Science (PAS417A)	
Courses introduced during(2018-19) for Academic Year (2019-20)			
Numerical Methods		EEL-111 Functional and communication Skill in English (Credit 2) (UG)	Link
The Joy Of Computing Using Python		SKT Sanskrit Smabhashna (Credit 2) (UG)	
Programming, Data Structures And Algorithms Using Python		PAS124 Nuclear Radiation and Safety (Credit 2) (UG)	
Technical English For Engineers		ENV121 Basic of Environmental Studies(Credit 2) (UG)	
English Language For Competitive Exams			
Ecology And Environment			
Ordinary And Partial Differential Equations And Applications			
Digital Circuits			
Introduction To Basic Spoken Sanskrit			
Solid State Physics			



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	Theory Of Groups For Physics Applications		
	Programming, Data Structures And Algorithms Using Python		
	Computational Chemistry And Classical Molecular Dynamics		
	Remote Sensing And Digital Image Processing Of Satellite Data		
	Digital Image Processing		
Courses introduced during(2019-20) for Academic Year (2020-21)			
MTH 103 Theory of Equations and Analytical Geometry (Credit 4)	PAS 436 Internet of Things (Credit 2)		
MTH 103 T Theory of Equations and Analytical Geometry Tutorial (Credit 2)	PAS 437 Micro-Controller (Credit 2)		
PAS 318 A Nuclear and Particle Physics (Credit 2)	PAS 557 Advanced Internet of Things (Credit 2)		
	PAS 558 Machine Learning (Credit 2)		
	PAS 508 A Laser Fundamentals and Applications (Credit 2)		
	PAS 419 A Solar Photovoltaic: Principles and Technologies and Materials (Credit 2)		
	PAS581 Astronomy and Astrophysics (4 credit)		
	PAS581L Astronomy and Astrophysics lab (2 credit)		
	PAS427 Scientific Writing and Presentations		
			Link



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5. Does the Department have Academic flexibility? If yes since when? – Yes, Since the start of the department in 2011.[Link](#)
6. Interdisciplinary programs offered and departments involved: –

Name of the Course/Paper	Interdisciplinary paper shared with department	Link
B Sc Honors Physics:		Link
Chemistry (CCS101)	Chemistry & Chemical Science	page
Chemistry (CCS101L)	Chemistry & Chemical Science	9 and
Chemistry (CCS102)	Chemistry & Chemical Science	10
Chemistry (CCS102L)	Chemistry & Chemical Science	
Theory of equations and analytic geometry (MTH 103)	Srinivasa Ramanujan Department of Mathematics	
Theory of equations and analytic geometry Tutorial (MTH 103T)	Srinivasa Ramanujan Department of Mathematics	
English Communication Skill (EEL 111)	Department of English	
Sanskrit Sambhashana (SKT201)	Department of Sanskrit, Pali & Prakrit	
Environmental Science (ENV121)	Department of Environmental Sciences	
M.Sc. Physics:		Link
Human Making/Skill Development Course :		page
History & Philosophy of Science (PAS417A)		11
Science of Yoga (PAS556)		
Scientific writing & Presentation (PAS427A)		

7. Courses conducted in collaboration with other Universities and Institutions: – Online Certification (Digital Circuits NPTEL_NOC18_ee33 July- December 2018). [Link](#)



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8. Details of programmes discontinued, if any, with reasons: – None

9. Examination System: Annual/ Semester/Choice Based Credit System/ Credit and Grading system/ any other system, specify: Semester, Choice Based Credit System. [Link](#)

10. Participation of the department in the curriculum development for courses offered by the Departments/University.

Name of the faculty	Course/Curriculum	Link
Prof. O. S. K. S Sastri	All Courses of UG, PG, and RD	Link 1
Prof. Bhag Chand Chauhan	All Courses of UG, PG, and RD	Link 2 ,
Prof. Hum Chand	All Courses of UG, PG, and RD	Link 3 ,
Dr. Ayan Chatterjee	All Courses of UG, PG, and RD	Link 4
Dr. Dalip Singh Verma	All Courses of UG, PG, and RD	
Dr. Surender Verma	All Courses of UG, PG, and RD	
Dr. Jagdish Kumar	All Courses of UG, PG, and RD	
Dr. Rajesh Kumar Singh	All Courses of UG, PG, and RD	
Dr. Surender Pratap	All Courses of UG, PG, and RD	
Dr. Gouri Shankar Sahoo	All Courses of UG, PG, and RD	
Dr. NoorJahan	All Courses of UG, PG, and RD	

11. Has the department periodically updated the syllabus or introduced any syllabus other than the one used by university for PG courses at the onset? – Yes, [Link](#)



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12. Number of teaching posts sanctioned, filled and vacant.

Designation	Sanctioned	Filled			Filled under CAS
		P	A	G	
Professor	2	3	-	-	2
Associate Professor	4	2	-	-	2
Assistant Professor	8	5 (P)+1 (UGC-FRP)	-	-	-
Total	14	11	-	-	-

P=Permanent, A=Adhoc, G=Guest

13. Faculty profile with name, qualification, designation, experience, nature of appointment (confirmed/ probation/Adhoc/Guest) Appointed on Sanctioned Post:

Name	Gender	Designation	Qualifications	Teaching/Research Experience	Nature of appointment
Prof. O. S. K. S Sastri	Male	Professor	Ph.D.	26.9 Years	confirmed
Prof. Bhag Chand Chauhan	Male	Professor	Ph.D.	25 Years	confirmed
Prof. Hum Chand	Male	Professor	Ph.D.	13 Years	confirmed
Dr. Ayan Chatterjee	Male	Assistant Professor	Ph.D.	12 Years	confirmed
Dr. Surender Verma	Male	Assistant Professor	Ph.D.	12 years	confirmed
Dr. Dalip Singh Verma	Male	Assistant Professor	Ph.D.	13 years	confirmed
Dr. Jagdish Kumar	Male	Assistant Professor	Ph.D.	9 Years	confirmed
Dr. Rajesh Kumar Singh	Male	UGC-Assistant Professor	Ph.D.	8 Years	confirmed
Dr. Surender Pratap	Male	Assistant Professor	Ph.D.	3.6 years	confirmed
Dr. Gouri Shankar Sahoo	Male	Assistant Professor	Ph.D.	1 year	confirmed
Dr. NoorJahan	Female	Assistant Professor	Ph.D.	1 year	confirmed



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14. Highest Qualification of the teaching staff:

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent							
Ph.D.	3	0	2	0	5	1	11
M.Phil							
PG							
Any Other							
Contract/Resource: NA							
Ph.D.							
M.Phil							
PG							
Any Other							
Guest/Visiting: NA							
Ph.D.	02	-	-	-	-	-	02 Link-1 , Link-2
M.Phil							
PG							



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15. Diversity of Faculty:

Number of Actual Strength (2019-20) = 11

Teaching faculty	Number	%
From the Same University	Nil	-
From Other Universities within the State	03	27
From Other States Universities	08	73
From Outside the Country	Nil	-

16. Number of faculty who have awarded M.Phil., Ph.D., D.Sc. / D.Lit.: 11

17. List of Visiting Fellows/Teachers, Adjunct and Emeritus Professors).

Name	Designation	Institution	Link
Prof. H.S. Mani (2017)	Director, Allahabad	Director, HRI Allahabad	Link
Prof. SD Sharma (2019)	Professor	HNB Garhwal University Srinagar, poudi Uttarakhand	Link



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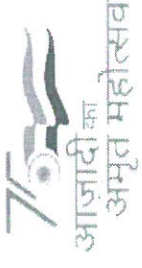
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18. Percentage of classes taken in each semester by faculty (programme- wise information): Link (% classes taken proof with concerned Faculty)

Spring Semester				Monsoon Semester			
Sem	Course Code	Teacher	% classes taken	Sem	Course Code	Teacher	% classes taken
B. Sc. II	PAS 124	Dr. Dalip Singh Verma	> 90%	B. Sc. I	PAS102	Dr. Surender Verma	> 90%
	CCS 102L	Dr. R. Tiwari	> 90%		CCS 102L	Dr. R. Tiwari	> 90%
	PAS 104T	Dr. S. Pandey	> 90%		CCS101 L	Dr. R. Tiwari	> 90%
	CCS102T	Dr. R. Tiwari	> 90%		PAS 101	Dr. Jagdish Kumar	> 90%
	PAS103T	Dr. S. Pandey	> 90%		PAS 102L (Tut.)	Prof. O. S. K. S. Sastri	> 90%
	PAS103L	Dr. S. Pandey, Dr. Diwakar, Dr. Sagun Mankotia	> 90%		PAS 102L	Dr. Sagun Mankotia	> 90%
	SKT-201	HoD Concerned Department	> 90%		CCS101L(Tut)	Dr. R. Tiwari	> 90%
	PAS 104L	Dr. S. Pandey, Dr. Diwakar, Dr. Sagun Mankotia	> 90%		PAS101L	Dr. Jagdish Kumar, Dr. R. K. Singh	> 90%
	ENV 121	HoD Concerned Department	> 90%		EEL 110	HoD Concerned Department	> 90%



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	CCS102L(Tut)	Dr. S. Chatterjee	> 90%					
	PAS103L(Tut)	Dr. J. Kumar, Dr. A. Chatterjee	> 90%					
	Mentoring	All Faculty	> 90%					
M. Sc. II	PAS415	Dr. Surender Verma, Ayan Chatterjee, Dr. Dalip Singh Verma	> 90%	B. Sc. III	PAS 203	Dr. Dalip Singh Verma	> 90%	
	PAS415(Tut)	Dr. Surender Verma, Dr. Dalip Singh Verma	> 90%		PAS 203L	Dr. Dalip Singh Verma	> 90%	
	PAS405A	Dr. Dalip Singh Verma	> 90%		MTH 101 (Tut)	Dr. Sagun Mankotia	> 90%	
	PAS507	Dr. Diwakar	> 90%		MTH 101	Prof. O. S. K. S. Sastri	> 90%	
	PAS406	Dr. Sagun Mankotia	> 90%		PAS 204	Dr. P. Rai	> 90%	
	PAS 417A	Dr. B.C. Chauhan	> 90%		PAS201	Dr. Rajesh Kumar Singh	> 90%	
	PAS407A	Dr. B.C. Chauhan	> 90%		PAS204 (Tut.)	Dr. B.C. Chauhan + Dr. P. Rai	> 90%	
	PAS 427A	Dr. Sagun Mankotia	> 90%		PAS 201L	Prof. O. S. K. S. Sastri, Dr. Rajesh Kumar Singh	> 90%	
	Mentoring	All Faculty	> 90%					



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M. Sc. IV		M. Sc. I	
PASS52	Dr. Jagdish Kumar	PAS413	Dr. Surender Verma, Dr. B.C. Chauhan, Dr. Ayan Chatterjee
PASS48	All Faculty	PAS401A	Dr. Surender Verma
PASS16A/PAS 506A	Ayan Chatterjee, Dr. P. Rai	PAS403A	Dr. Ayan Chatterjee
PASS21	Dr. OSKS Sastri, Dr. P. Rai	PAS 402	Dr. OSKS Sastri
ENV 431	HoD Concerned Department	PAS 404A	Dr. B.C. Chauhan
PAS546A	Dr. Surender Verma	PAS413	Dr. Surender Verma, BCC, Dr. Ayan Chatterjee
		PAS 417A	Dr. B.C. Chauhan
		PAS427A	Dr. OSKS Sastri
		CBB 406 Lab	Ayan Chatterjee, Dr. Surender Verma
Ph. D. I		M. Sc. III	
PAS601	Dr. Jagdish Kumar	PAS426A	Ayan Chatterjee
PAS606	Ayan Chatterjee	PAS 409A	Dr. Dalip Singh Verma
PAS605	Dr. Dalip Singh Verma	PAS 411A	Dr. P. Rai
PAS604	Dr. Surender Verma	PAS408A	Dr. Jagdish Kumar
PAS 607	Dr. Jagdish Kumar		



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Spring Semester		Monsoon Semester					
Sem	Course Code	Teacher	% classes taken	Sem	Course Code	Teacher	% classes taken
B. Sc. II	PAS 611	Dr. OSKS Sastri	> 90%	B. Sc. I	PAS 423 (Tut.)	Dr. Dalip Singh Verma, Prof. O. S. K. S. Sastri, Dr. Jagdish Kumar	> 90%
	PAS 610	Dr. OSKS Sastri	> 90%		PAS102	Dr. Surender Verma	> 90%
			PAS102L		Dr. Surender Verma +Dr. Jyoti Bhardwaj	> 90%	
			PAS101		Ayan Chatterjee	> 90%	
			PAS101L		Ayan Chatterjee +Dr. Sonu Kumar	> 90%	
			CCS101		Dr. Shubhankar Chatterjee	> 90%	
			CCS101L		Dr. Shubhankar Chatterjee	> 90%	
			ENV121		HoD Concerned Department	> 90%	

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PAS103L	Dr. P. Rai	> 90%	EEL110	HoD Concerned Department	> 90%		
	CCS102L tut.	Dilbag Singh Rana				> 90%	
B. Sc. IV	PAS301	Dr. Surender Verma	> 90%	B. Sc. III	PAS201	Dr. Rajesh Kumar Singh	> 90%
	PAS301L	Dr. Surender Verma	> 90%		PAS203	Dr. Jagdish Kumar	> 90%
	PAS202	Ayan Chatterjee	> 90%		PAS204	Dr. Padmanabh Rai	> 90%
	PAS202L	Ayan Chatterjee	> 90%		PAS201L	Dr. Rajesh Kumar Singh+ Dr. Jyoti Bhardwaj	> 90%
	PAS351	Dr. B.C. Chauhan + Dr. Rajesh Kumar Singh + Dr. P. Rai	> 90%		PAS203L	Dr. Jagdish Kumar + Dr. Manjula Sharma	> 90%
PAS206	Dr. Rajesh Kumar Singh	> 90%	PAS204L	Dr. Padmanabh Rai + Dr. Shagun Mankotia	> 90%		
PAS 206L	Dr. Rajesh Kumar Singh	> 90%	PAS351	Dr. B.C. Chauhan + Dr. Sonu Kumar	> 90%		
M. Sc. II	PAS406A	Dr. Surender Verma	> 90%	B. Sc. V	SKT201	HoD Concerned Department	> 90%
	PAS407A	Ayan Chatterjee	> 90%		PAS302	Dr. Jagdish Kumar	> 90%
	PAS405	Dr. Dalip Singh Verma	> 90%		PAS303	Dr. Shagun Mankotia	> 90%
					PAS316	Dr. Manjula Sharma	> 90%



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Mentoring	(All faculty)	> 90%				
PAS415	Dr. Dalip Singh Verma	> 90%		PAS302L	Dr. Jagdish Kumar + Dr. Rajesh Kumar Singh	> 90%
PAS 414	Dr. B.C. Chauhan + Prof. O. S. K. S. Sastri + Dr. Jyoti Bhardwaj	> 90%		PAS305	Dr. Dalip Singh Verma	> 90%
PAS427A	Dr. Jyoti Bhardwaj	> 90%		PAS305L	Dr. Dalip Singh Verma + Dr. Sonu Kumar	> 90%
PAS417A	Dr. B.C. Chauhan	> 90%				
PAS507	Dr. Shagun Mankotia	> 90%				
PAS533/PAS5 48	All Faculty	> 90%	M. Sc. I	PAS401A	Dr. Surender Verma	> 90%
PAS 427	Prof. O. S. K. S. Sastri	> 90%		PAS413 Tut.	Dr. Surender Verma + Ayan Chatterjee	> 90%
PAS 524	HoD Concerned Department	> 90%		PAS403A	Ayan Chatterjee	> 90%
PAS552	Dr. Jagdish Kumar	> 90%		PAS402	Dr. Sonu Kumar	> 90%
PAS 428A	Prof. O. S. K. S. Sastri	> 90%		PAS404A	Dr. Jyoti Bhardwaj	> 90%



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Spring Semester				Monsoon Semester						
Sem	Course Code	Teacher	%classes taken	Sem	Course Code	Teacher	% classes taken			
B. Sc. II	PAS103L	Dr. P. Rai + Dr. Rajnish Dhiman	> 90%	2018	M. Sc. III	PAS417A	Prof. B.C. Chauhan	> 90%		
						PAS556	Prof. O. S. K. S. Sastri	> 90%		
PAS408	Dr. Manjula Sharma	> 90%								
PAS423	Dr. Dalip Singh Verma + Dr. Shagun Mankotia	> 90%								
PAS411A	Dr. Sonu Kumar	> 90%								
PAS409A	Dr. Dalip Singh Verma	> 90%								
PAS426	Prof. B.C. Chauhan	> 90%								
CS1411	Prof. O. S. K. S. Sastri + Dr. Jyoti Bhardwaj	> 90%								
B. Sc. I	PAS102	Dr. Surender Verma	> 90%			2018	M. Sc. III	PAS417A	Prof. B.C. Chauhan	> 90%
								PAS556	Prof. O. S. K. S. Sastri	> 90%
PAS408	Dr. Manjula Sharma	> 90%								
PAS423	Dr. Dalip Singh Verma + Dr. Shagun Mankotia	> 90%								
PAS411A	Dr. Sonu Kumar	> 90%								
PAS409A	Dr. Dalip Singh Verma	> 90%								
PAS426	Prof. B.C. Chauhan	> 90%								
CS1411	Prof. O. S. K. S. Sastri + Dr. Jyoti Bhardwaj	> 90%								



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PAS104	Dr. Jagdish Kumar	> 90%		PAS102L	Dr. Surender Verma + Dr. Dalip Singh Verma	> 90%
CCS102L	Dr. Ankit Tiwari + RB	> 90%		PAS101	Ayan Chatterjee	> 90%
PAS103	Dr. Manjula Sharma	> 90%		PAS101L	Ayan Chatterjee+Dr. Jagdish Kumar	> 90%
PAS124	Dr. Shagun Mankotia	> 90%		CCS 101	Dr. Shubhankar Chatterjee	> 90%
CCS102	HoD Concerned Department	> 90%		CCS 101L	Dr. Shubhankar Chatterjee	> 90%
PAS104L	Dr. Jagdish Kumar+Dr. Manjula Sharma	> 90%		EEL 110	HoD Concerned Department	> 90%
CCS102L (tut)	Dr. Shubhankar Chatterjee	> 90%		ENV121	HoD Concerned Department	> 90%
SKT201	HoD Concerned Department	> 90%				
PAS301	Dr. Surender Verma	> 90%	B. Sc. III	MTH-1	HoD Concerned Department	> 90%
PAS301L	Dr. Surender Verma	> 90%		MTH-1 (tut.)	HoD Concerned Department	> 90%
PAS 206	Dr. Rajesh Kumar Singh	> 90%		NOC18_ee33	Dr. Jagdish Kumar	> 90%
PAS 351	Prof. B.C. Chauhan +Dr. Shubhankar Chatterjee	> 90%		PAS 201	Dr. Rajesh Kumar Singh	> 90%



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B. Sc. VI	PAS202L (Tut)	Ayan Chatterjee +Dr. Shagun Mankotia	> 90%	B. Sc. V	PAS 202	Dr. Rajnesh Dhiman	> 90%
	PAS202	Ayan Chatterjee	> 90%		PAS 201L	Dr. Rajesh Kumar Singh+Dr. Shagun Mankotia	> 90%
	PAS 206L	Dr. Rajesh Kumar Singh+Dr. Rajnesh Dhiman	> 90%		PAS 202L	Dr. Rajnesh Dhiman+ Dr. Shagun Mankotia	> 90%
	SKT202	HoD Concerned Department	> 90%		PAS 203L	Dr. Jagdish Kumar+Dr. Rajesh Kumar Singh	> 90%
B. Sc. VI	PAS318	Dr. Dalip Singh Verma	> 90%	PAS 351A (community Project)	Prof. B. C. Chauhan	> 90%	
	PAS319	Dr. Rajnesh Dhiman	> 90%	PAS 205	Dr. Dalip Singh Verma	> 90%	
	PAS320	Dr. P. Rai	> 90%	PAS212	Dr. Vandana Sharda	> 90%	
	PAS318L	Dr. Dalip Singh Verma + Dr. Shagun Mankotia	> 90%	PAS212L	Prof. O. S. K. S. Sastri + Dr. Jyoti Bhardwaj + Dr. Vandana Sharda	> 90%	
				PAS316L	Dr. Manjula Sharma+Dr. Rajani Devi	> 90%	



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PAS304	Dr. Vandana Sharda	> 90%		PAS 302L	Dr. Madhurika Mahajan+Dr. Manjula Sharma	> 90%
PAS 304L	Dr. Vandana Sharda	> 90%		PAS 302	Dr. Manjula Sharma	> 90%
PAS 352	Prof. O. S. K. S. Sastri+Dr. Jyoti Bhardwaj+Dr. Vandana Sharda	> 90%		PAS 316	Dr. Rajani Devi	> 90%
				PAS 205L	Dr. Dalip Singh Verma+Dr. Rajneesh Dhiman	> 90%
PAS406A	Dr. Surender Verma	> 90%	M. Sc. I	PAS401A	Dr. Surender Verma	> 90%
PAS407A	Ayan Chatterjee	> 90%		PAS413	Dr. Surender Verma, Ayan Chatterjee	> 90%
PAS528	Dr. Shagun Mankotia	> 90%		PAS 403A	Dr. Madhurika Mahajan	> 90%
PAS415	Dr. Rajesh Kumar Singh + Dr. Manjula Sharma	> 90%		PAS 404A	Ayan Chatterjee	> 90%
PAS405	Dr. Dalip Singh Verma	> 90%		PAS 402	Dr. Shagun Mankotia	> 90%
PAS 417	Prof. B.C. Chauhan	> 90%		PAS 403A	Dr. Madhurika Mahajan	> 90%
PAS414	Prof. O. S. K. S. Sastri + Dr. Jyoti Bhardwaj	> 90%		PAS 417A	Prof. B.C. Chauhan	> 90%
M. Sc. II						



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Spring Semester				Monsoon Semester			
Sem	Course Code	Teacher	%classes taken	Sem	Course Code	Teacher	% classes taken
M. Sc. IV	SD	Prof. O. S. K. S. Sastri	> 90%	M. Sc. III			
	PASS548	All faculty	> 90%		PAS 426A	Prof. B.C. Chauhan	> 90%
	PAS428A	Dr. Jyoti Bhardwaj	> 90%		PAS 408A	Dr. Jagdish Kumar	> 90%
	PASS552	Dr. Jagdish Kumar	> 90%		PAS 409A	Prof. O. S. K. S. Sastri	> 90%
	PASS527	Dr. Dalip Singh Verma	> 90%		CSI 411	Prof. O. S. K. S. Sastri + Dr. Vandana Sharda	> 90%
	PASS516	Dr. P. Rai	> 90%		PAS 411A	Dr. Dalip Singh Verma	> 90%
	PAS427	Dr. Jagdish Kumar	> 90%		PAS 423	Prof. O. S. K. S. Sastri + Dr. Vandana Sharda	> 90%
BSC II	PAS103L	Dr. Shagun Mankotia+Dr. Madhurika Mahajan	> 90%	B.Sc I	PAS 101	Dr. Ayan Chatterjee	> 90%
	PAS103	Dr. Madhurika Mahajan	> 90%		PAS 101L	Dr. Ayan Chatterjee & Dr. Jagdish Kumar	> 90%
	PAS104	Dr. Jagdish Kumar	> 90%		PAS 102	Dr. Surender Verma	> 90%

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B.Sc IV	CCS102	HoD Concerned Department	> 90%	B.Sc III	PAS 102L	Dr. Surender Verma	> 90%
	SKT201	HoD Concerned Department	> 90%		CCS 101	Dr. Subhanker Chatterjee	> 90%
	PAS124	Dr. Shagun Mankotia	> 90%		CCS 101L	Dr. Subhanker Chatterjee	> 90%
	CCS102L	HoD Concerned Department	> 90%		Eng/MIL-1	Prof. Roshan Lal Sharma	> 90%
	PAS104L	Dr. Jagdish Kumar+ Dr. Chandan	> 90%		HM-1	Dr. Anurag Linda	> 90%
	MTH102Tut	HoD Concerned Department	> 90%		PAS 201	Dr. Rajesh Kumar Singh	> 90%
	PAS212	Dr. Ayan Chatterjee	> 90%		PAS 201L	Dr. Rajesh Kumar Singh	> 90%
	PAS205	Dr. Surender Verma	> 90%		PAS 202	Dr. Vandana Sharda	> 90%
	PAS212L	Ayan Chatterjee +Dr. Madhurika Mahajan	> 90%		PAS 202L	Dr. Vandana Sharda+ Dr. Rajnish Dhiman	> 90%
	MTH102	HoD Concerned Department	> 90%		PAS 203	Dr. Shagun Mankotia	> 90%
PAS206	Dr. Rajesh Kumar Singh	> 90%	PAS 203L	Dr. Dalip Singh Verma+ Dr. Shagun Mankotia	> 90%		



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	PAS205L	Dr. Surender Verma+ Dr. Rajni Devi	> 90%		MTH 101	HoD Concerned Department	> 90%
	PAS206L	Dr. Rajesh Kumar Singh + Dr. Shagun Mankotia	> 90%		MTH 101 T	HoD Concerned Department	> 90%
B.Sc VI	PAS409	Dr. Dalip Singh Verma	> 90%	B.Sc V	PAS 355	Dr. Jyoti Bhardwaj	> 90%
	PAS320L	Dr. Jagdish Kumar	> 90%		PAS 355 L	Dr. Vandana Sharda+ Dr. Jyoti Bhardwaj	> 90%
	PAS320	Dr. Rajnish Dhiman	> 90%		PAS 302	Dr. Jagdish Kumar	> 90%
	PAS303	Dr. Chandan + Dr. Priya	> 90%		PAS 302L	Dr. Jagdish Kumar & Dr. Rajesh Kumar Singh	> 90%
	PAS319	Dr. Rajni Devi	> 90%		PAS 318	Dr. Dalip Singh Verma	> 90%
	PAS303L	Dr. Chandan + Dr. Priya	> 90%		PAS 318L	Dr. Dalip Singh Verma	> 90%
	PAS304	Dr. Vandana Sharda+ Prof. O. S. K. S. Sastri	> 90%		PAS 319	Dr. Rajnish Dhiman	> 90%
	PAS319L	Dr. Rajni Devi +Dr. Vandana Sharda	> 90%		PAS 319 L	Dr. Rajnish Dhiman + Dr. Chandan Gupta	> 90%
	PAS404A	Dr. Ayan Chatterjee	> 90%		PAS 401A	Dr. Surender Verma	> 90%
	PAS406A	Dr. Surender Verma	> 90%		PAS 403A	Dr. Chandan Gupta	> 90%
M.Sc II				M.Sc I			



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PAS415	Dr. Dalip Singh Verma & Dr. Rajesh Kumar Singh	> 90%		PAS 404A	Dr. Ayan Chatterjee	> 90%
PAS528	Dr. Shagun Mankotia	> 90%		PAS 413	Dr. Surender Verma & Dr. Ayan Chatterjee	> 90%
PAS417	Prof. B.C. Chauhan	> 90%		PAS 402	HoD Concerned Department	> 90%
PAS405	Dr. Dalip Singh Verma	> 90%		PAS 417A	Prof. B.C. Chauhan	> 90%
PAS556	Prof. O. S. K. S. Sastri	> 90%	M.Sc III	PAS 408A	Dr. Jagdish Kumar	> 90%
				PAS 409A	Prof. O. S. K. S. Sastri	> 90%
PAS549	Prof. B.C. Chauhan	> 90%		PAS 411A	Dr. Dalip Singh Verma	> 90%
PAS527	Dr. Dalip Singh Verma	> 90%		PAS 426A	Prof. B.C. Chauhan	> 90%
PAS428	Dr. Jagdish Kumar	> 90%		PAS 423	Dr. Dalip Singh Verma	> 90%
PAS516	Dr. Rajnish Dhiman	> 90%		CSI 411	Prof. O. S. K. S. Sastri + Dr. Jyoti Bhardwaj	> 90%
PAS548	All Faculty	> 90%				
PAS428	Dr. Jagdish Kumar	> 90%				



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PAS427L	Dr. Chandan Gupta + Dr. Priya	> 90%				
2020						

Spring Semester				Monsoon Semester			
Sem	Course Code	Teacher	% classes taken	Sem	Course Code	Teacher	% classes taken
M.sc 4th Sem	PAS 428 A	Prof. O. S. K. S. Sastri	100% Online	RD Course Work	PAS 610A	Prof. O. S. K. S. Sastri	100
	PAS 427	Prof. O. S. K. S. Sastri	100% Online		PAS 611	Prof. O. S. K. S. Sastri	100
	PAS 527	Dr. Dalip Singh Verma	70% Online; 30% Offline		PAS 608	Prof. B.C. Chauhan	100% (Online)
	PAS 549	Prof. B.C. Chauhan	70% Online; 30% Offline		PAS 408A	Dr. Jagdish Kumar	83
	PAS 548 / 520	All Faculty	100% Online		PAS 409A	Prof. O. S. K. S. Sastri	100
	PAS 539A	Prof. Hum Chand	60% Online 36% Offline		PAS 411A	Dr. Dalip Singh Verma	100
					PAS 426A	Prof. B.C. Chauhan	100



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M.sc 2nd Sem	PAS 406 A	Dr. Surender Verma	93		PAS 545	Prof. B.C. Chauhan	100% (Online)
	PAS 407 A	Dr. Ayan Chatterjee	97		PAS 423	Dr. Dalip Singh Verma + Dr. Rajesh Kumar Singh	100
	PAS 414	Prof. O. S. K. S. Sastri	100		PAS 581	Prof. Hum Chand	100
	PAS 415	Dr. Rajesh Kumar Singh	70% Online; 30 % Offline	M.sc Ist Sem	PAS 581 L	Prof. Hum Chand	100
	PAS 528	Dr. Dalip Singh Verma	70% Online; 30 % Offline		PAS 401A	Dr. Surender Verma	92
	PAS 405	Dr. Dalip Singh Verma	70% Online; 30 % Offline		PAS 403A	HoD Concerned Department	
	PAS 428 B	Prof. Hum Chand	35 % Offline 60 % Online		PAS 404A	Dr. Ayan Chatterjee	98
	PAS 417A	Prof. B.C. Chauhan	80% Online; 20 % Offline		PAS 413	Dr. Surender Verma & Dr. Ayan Chatterjee	100
					PAS 402	Dr. Gourishankar Sahoo	100



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B.Sc VI Semester	B.Sc V Semester	B.Sc V Semester		B.Sc VI Semester	
		Course	Faculty	Score	Faculty
	PAS 427A	Prof. B.C. Chauhan	100% (Online)		
	PAS 417A	Prof. B.C. Chauhan	100		
	PAS 556	Prof. B.C. Chauhan	100% (Online)		
	PAS 355	Dr. Gourishankar Sahoo	100	PAS 303	Dr. Noorjahan
	PAS 355 L	Dr. Gourishankar Sahoo + Dr. Surender Pratap	100	PAS 303 L	Dr. Noorjahan+Dr. Gourishankar Sahoo
	PAS 302	Dr. Jagdish Kumar	88	PAS 304	Dr. Jagdish Kumar
	PAS 302L	Dr. Surender Pratap + Dr. Gourishankar Sahoo	100	AS 304 L	Dr. Gourishankar Sahoo+Dr. Shagun
	PAS 318	Dr. Dalip Singh Verma	100	PAS 316	Dr. Surender Pratap
	PAS 318L	Dr. Dalip Singh Verma	100	PAS 316 L	Dr. Surender Pratap
	PAS 319	Prof. Hum Chand	100	PAS 356	Dr. Noorjahan
	PAS 319L	Prof. Hum Chand	100	PAS 212	Dr. Ayan Chatterjee
	PAS 356	Dr. Noorjahan	98	PAS 212 L	Dr. Ayan Chatterjee
	PAS 356 lab	Dr. Noorjahan +RP	98	PAS 205	Dr. Surender Verma



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B.Sc II Semester	PAS 205 L	Dr. Surender Verma + RP 5	97	B.Sc III Semester	PAS 201	Dr. Rajesh Kumar Singh	100
	PAS 206	Dr. Rajesh Kumar Singh	100		PAS 201L	Dr. Rajesh Kumar Singh	100
	PAS 206 L	Dr. Rajesh Kumar Singh + Dr. Gourishankar Sahoo	100		PAS 202	Dr. Noorjahan	100
	MTH 103	Dr. Gourishankar Sahoo	100		PAS 202L	Dr. Noor. Jahan + Dr. Gourishankar Sahoo	100
	MTH 103 T Tutorial	Dr. Gourishankar Sahoo	100		PAS 203	Dr. Jagdish Kumar	100
	PAS 103	Dr. Surender Pratap	92		PAS 203L	Dr. Jagdish Kumar	100
	PAS 103 L	Dr. Noorjahan+RP 1	100		MTH 101	HoD Concerned Department	100
	PAS 104	Dr. Jagdish Kumar	92		MTH 101 T	HoD Concerned Department	100
	PAS 104 L	Dr. Jagdish Kumar+ Dr. Surender Pratap	100		PAS 101	Dr. Ayan Chatterjee	96
	CCS 102	HoD Concerned Department	100		PAS 101L	Dr. Ayan Chatterjee & Dr. Jagdish Kumar	86
CCS 102 L	HoD Concerned Department	100	PAS 102	Dr. Surender Verma	87		
Eng	HoD Concerned Department	100	PAS 102L	Dr. Surender Verma	100		
B.Sc I Semester							



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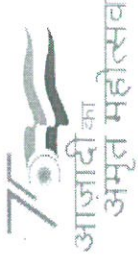
					CCS 101	Dr. Subhanker Chatterjee	100
					CCS 101L	Dr. Subhanker Chatterjee	100
					Eng	Prof. Roshan Lal Sharma	100
					HM	Dr. Amurag Linda	100

2021

Spring Semester							
Sem	Course Code	Teacher	% classes taken				
M.sc 4th Sem	PAS 428 A	Prof. O. S. K. S. Sastri	100% Online				
	PAS 427	Prof. O. S. K. S. Sastri	100% Online				
	PAS 527	Dr. Dalip Singh Verma	70% Online; 30% Offline				
	PAS 549	Prof. B.C. Chauhan	70% Online; 30% Offline				
	PAS 548 / 520	All Faculty	100% Online				



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	PAS 516	Dr. Noorjahan	100					
M.sc 2nd Sem	PAS 406 A	Dr. Surender Verma	93					
	PAS 407 A	Dr. Ayan Chatterjee	97					
	PAS 414	Prof. O. S. K. S. Sastri	100					
	PAS 415	Dr. Rajesh Kumar Singh	100					
	PAS 528	Dr. Gourishankar Sahoo	100					
	PAS 405	Dr. Dalip Singh Verma	70% Online; 30 % Offline					
	PAS 428 B	Prof. Hum Chand	35 % Offline 60 % Online					
	PAS 556	Prof. B.C. Chauhan	100					
	PAS 417A	Prof. B.C. Chauhan	80% Online; 20 % Offline					
	B.Sc VI Semester	PAS 303	Dr Noorjahan	99				
PAS 303 L		Dr Noorjahan+Dr. Gourishankar Sahoo	100					
PAS 304		Dr. Jagdish Kumar	88					



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B.Sc IV Semester	PAS 304 L	Dr. Jagdish Kumar	100				
	PAS 316	Dr. Surender Pratap	94				
	PAS 316 L	Dr. Surender Pratap+ Dr. Gouri Sankar Sahoo	100				
	PAS 319	Prof. Hum Chand	96				
	PAS 319L	Prof Hum Chand	95				
	PAS 212	Dr. Ayan Chatterjee	97				
	PAS 212 L	Dr. Ayan Chatterjee	92				
	PAS 205	Dr. Surender Verma	88				
	PAS 205 L	Dr. Surender Verma	97				
	PAS 206	Dr. Rajesh Kumar Singh	100				
B.Sc II Semester	PAS 206 L	Dr. Rajesh Kumar Singh	100				
	MTH 103	Dr. Gourishankar Sahoo	100				
	MTH 103 T Tutorial	Dr. Gourishankar Sahoo	100				
	PAS 103	Dr. Surender Pratap	92				
	PAS 103 L	Dr Noorjahan + RP 1	97				
	PAS 104	Dr. Jagdish Kumar	92				



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PAS 104 L	Dr. Jagdish Kumar+ Dr. Surender Pratap	100			
CCS 102	HoD Concerned Department	100			
CCS 102 L	HoD Concerned Department	100			
Eng	HoD Concerned Department	100			

19. Programme-wise Student-Teacher Ratio: [Link](#)

S. No.	Name of the Programme / Course	Sanctioned Student Intake	Year	Teacher-Student Ratio (Formula- Students: teachers)	
				Spring Semester	Monsoon Semester
1.	B.Sc. Physics & M.Sc. Physics	30+30+30=90 (UG) 30+30=60 (PG) 90+60=150 (Total)	2016	7:1	
					11:1
2.	B.Sc. Physics & M.Sc. Physics	330+30+30=90 (UG) 30+30=60 (PG) 90+60=150 (Total)	2017	11:1	
					11:1
3.	B.Sc. Physics & M.Sc. Physics	330+30+30=90 (UG) 30+30=60 (PG) 90+60=150 (Total)	2018	10:1	
					11:1



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Sr. No.	Posts	Sanctioned posts	Filled		Total
			Permanent	Contractual	
4.	B.Sc. Physics & M.Sc. Physics	33+33+33=99 (UG) 33+33=66 (PG) 99+66=165 (Total)	2019	Spring Semester	10:1
				Monsoon Semester	12:1
5.	B.Sc. Physics & M.Sc. Physics	33+33+33=99 (UG) 33+33=66 (PG) 99+66=165 (Total)	2020	Spring Semester	13:1
				Monsoon Semester	13:1
6.	B.Sc. Physics & M.Sc. Physics	33+33+33=99 (UG) 33+33=66 (PG) 99+66=165 (Total)	2021	Spring Semester	13:1
				Monsoon Semester	14:1

20. Number of academic support staff (technical) and administrative staff sanctioned, filled and vacant:

Sr. No.	Posts	Sanctioned posts	Filled		Total
			Permanent	Contractual	
1	Laboratory Assistant	1	1	-	01
2	Laboratory Attendant	1	1	-	01
3	Ministerial Staff	-	-	02	02
4.	Others (Technical Assistant)	1	1	-	01



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21. Thrust areas of research as identified by the department: (Please fill your thrust area)

Physics Education Research, Computational Physics, High Energy Physics, Astronomy and Astrophysics, Quantum Gravity, Nanoscience and Nanotechnology, Material science, Theoretical Condensed Matter Physics, Theoretical Nuclear Physics.

22. Information about research grants, projects completed and ongoing during last year:

a) From National funding agencies (like UGC, CSIR, DST, DBT, DST-FIST; CSIR, UGC-SAP/CAS, DAE, DBT, BRNS, ICSSR, AICTE, etc): [Link](#)

Sr. No.	Name of the Principle Investigator (Co-investigator)	Title of the Project	Funding Agency, Duration & date of sanction	Amount (in Lakh)	Status of Project (Submitted/Ongoing)	Remarks if any (Publication / Award/ Patent)
2016-17						
1	Dr. Bhag Chand Chauhan	Phenomenological Studies on the Role of Neutrinos in Astrophysics and Cosmology	UGC (Started from July 2015)	July 2015	Rs. 11,70,000	03 Years
2	Dr. Ayan Chatterjee	Mechanics and Thermodynamics of Black Holes in the theories of gravity and supergravity	UGC-BSR	2014	Rs. 6,00,000	02 years
3	Dr. Surender Verma	Theoretical and Phenomenological Aspects of Lepton Mass Matrices in light of the Neutrino Oscillation Data	UGC-BSR	2014	Rs. 6,00,000	02 Years
4	Dr. Padmnabh Rai	UGC-FRP Start-up Grant	UGC	2015	Rs. 6,00,000	03 Years



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5	Dr. Bhag Chand Chauhan	Phenomenological Studies on the Role of Neutrinos in Astrophysics and Cosmology	UGC (Started from July 2015)	2015	Rs. 11,70,000	03 Years
6	Dr. O. S. K. S. Sastri (Co - Principal Investigator)	Development of Value Added Products from Waste Plastic	State Council for Science, Technology & Environment H.P.	2017	Rs. 7,38,000	02 Years
7	Dr. Padmnabh Rai	UGC-FRP Start-up Grant	UGC	2015	Rs. 6,00,000	03 Years
8	Dr. Rajesh Kumar Singh	Synthesis of Nanomaterials and its Application	UGC, New Delhi	2017	Rs. 6,00,000	03 Years

2018-19

9	Dr. Bhag Chand Chauhan	Phenomenological Studies on the Role of Neutrinos in Astrophysics and Cosmology	UGC	2015	Rs. 11,70,000	03 Years
10	Dr. O.S.K.S. Sastri (Co - Principal Investigator)	Development of Value Added Products from Waste Plastic	State Council for Science, Technology & Environment H.P.	2017	Rs. 7,38,000	02 Years
11	Dr. Rajesh Kumar Singh	Synthesis of Nanomaterials and its Application	UGC, New Delhi	2017	Rs. 6,00,000	03 Years

2019-20

12	Dr. Ayan Chatterjee	Analytical and Numerical Study of Black Holes in Strong Gravity Regime	DAE-BRNS	2019	Rs.27,37,350	03 Years
13	Dr. Ayan Chatterjee	Gravitational Confinement: Trapped Surfaces in Gravitational Collapse	DST- SERB	2019	Rs. 6,60,000	03 Years



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2020-21						
14	Dr. Rajesh Kumar Singh	Synthesis of Nanomaterials and its Application	UGC, New Delhi	2017	Rs. 6,00,000	03 Years
15	Dr. Ayan Chatterjee	Analytical and Numerical Study of Black Holes in Strong Gravity Regime	DAE-BRNS	2019	Rs..27,37,350	03 Years
16	Dr. Ayan Chatterjee	Gravitational Confinement: Trapped Surfaces in Gravitational Collapse	DST- SERB	2019	Rs. 6,60,000	03 Years
17	Dr. Noorjahan	Size and composition dependence of nano-spinel ferrite properties and their applications in ferrofluids and humidity sensing devices	UGC-BSR start-up grant	2021	Rs. 10,00,000	03 Years

Note: Please enclose a copy of Report Summary, Utilization Certificate and relevant documents

b) From International funding agencies: -

Sr. No.	Name of the Principal Investigator (Co-investigator)	Title of the Project	Funding Agency, Duration & date of sanction	Amount (in Lakh)	Status of Project (Submitted/Ongoing)	Remarks if any (Publication/Award/Patent)
	-	-	-	-	-	-

Note: Please enclose a copy of Report Summary, Utilization Certificate and relevant documents



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c) From Corporate Houses/Industries: –

Sr. No.	Name of the Principal Investigator (Co-investigator)	Title of the Project	Funding Agency, Duration & date of sanction	Amount (in Lakh)	Status of Project (Submitted/Ongoing)	Remarks if any (Publication/Award/Patent)

Note: Please enclose a copy of Report Summary, Utilization Certificate and relevant documents

23. Funds received at University level through Corpus fund/Seed Money: –

Sr. No.	Name of the Principle Investigator (Co-investigator)	Title of the Project	Funding Agency, Duration & date of sanction	Amount (in lacs INR)	Status of Project (Submitted/Ongoing)	Remarks if any (Publication/Award/Patent)	Link/Doc
1.	Prof. B. C. Chauhan	UBA	IIT Delhi	3.5	Completed	-	UC Link, Report Link

Note: Please enclose a copy of Report Summary, Utilization Certificate and relevant documents

24. Research facilities available in the department and recognition received, if any? :

Workstations for High End Computing, Scientific Softwares like Mathematica, Maple for academic and research purposes, Nano and Material Science Lab, Astronomy and Astrophysics Lab are available in the department.

25. Special research laboratories sponsored by/created by industry or corporate bodies: None

26. Details of patents filed & granted and income generated: None



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27. Consultancy services provided, name of the teacher/s and income generated: -

S. N.	Year	Name of the teacher	Nature of consultancy	Funds generated (In Rs)	Link
1.	2016-17	Dr. Padmnabh Rai	Growth and Applications of CVD Single Crystal Diamond, Sept 2016-Aug 2017, Trushna Exim, Surat, Budget (INR) : 10 Lakhs	Rs. 10,00,000	Link
2.	2017-18	Dr. Padmnabh Rai	Growth and Applications of CVD Single Crystal Diamond, Sept 2017-Aug 2018, Trushna Exim, Surat, Budget (INR) : 4.5 Lakhs	Rs. 4,50,000	Link

28. Publications: 124 ([Link](#))

Sr. No.	Papers published in UGC listed journals	Papers published in peer reviewed journals (Not in UGC-LIST)	Monographs, Books, Chapters in books		Citations	h-index*	Impact factor range/Average Impact factor*
			With ISBN no.	Without ISBN no.			
1.	124 (Link)	-	32 Link	3 Link	3350	25	4.5 (Range 0-35.34)

* Based on Scopus/ Web of science



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29. #Details of teachers invited as resource persons for Refresher courses, Orientation courses, Seminars, Workshops, Conferences at state, national and international levels. –

Name of Faculty	Resource Person for (Refresher courses, Orientation courses, Seminars, Workshops, Conferences)	Levels (National/ International/ State/University/ College)	Link
Year 2016-2017			
Prof. B.C. Chauhan	Invited lecture Chair: A Workshop on Frontiers in Physics (AWFP-2017) by Department of Physics, HPU Shimla (17th -18th March, 2017).	National	Link
Prof. B.C. Chauhan	Invited DST-Inspire Lecture: 5-day workshop at Laurent Institute Kathog (7th July 2016).	Institutional	Proof with concerned faculty
Year 2017-2018			
Prof. B.C. Chauhan	Invited Lecture: On the Discovery of God Particle; Govt. College of Excellence Sanjauli (1st Dec. 2017).	Institute Level	Proof with concerned faculty
Prof. B.C. Chauhan	Invited Lecture: Indian Contribution to Physics and Mathematics; SCERT, Solan (30th November 2017).	State	Proof with concerned faculty
Prof. B.C. Chauhan	Invited Lecture: Indian Tradition of Science; XXII National Symposium (NSU-2017) at Central University of Himachal Pradesh, Dharamshala (8th - 10th November 2017).	National	Proof with concerned faculty
Prof. B.C. Chauhan	Invited Lecture: 'Neutrino Dark Matter in National Seminar at Sri Sai University, Palampur (23rd Nov. 2017).	National	Proof with concerned faculty
Prof. B.C. Chauhan	Panel Discussion: Religion, Science and World Peace, 4th November 2017.	National	Proof with concerned faculty
Year 2018-2019			



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Prof. B.C. Chauhan	Invited Lecture: Vedic Vigyan, Manu ka Itihas at National Seminar on Srimadbhagvatpurankaleen Itihas, Th. Jagdev Chand Shodh Sansthan, Neri Hamirpur (21st – 22nd July, 2018).	National	Proof with concerned faculty
Prof. B.C. Chauhan	Invited Lecture: A Model for Estimating the Unexplained Matter HSCA Conference, NIT Hamirpur 8th Sept., 2018.	National	Proof with concerned faculty
Prof. B.C. Chauhan	Invited Lecture at the National Seminar on Exploring the Archaeology in Western Himalayas at Th. Jagdev Chand Smriti Shodh Sansthan, Neri, Hamirpur, Himachal Pradesh, India (15th – 16th Feb., 2019).	National	Proof with concerned faculty
Prof. B.C. Chauhan	Invited Lecture, National Science Day Celebration, 28 February 2019.	State	Proof with concerned faculty
Dr. Jagdish Kumar	Two invited lectures titled “Unified theory for understanding materials” and “Materials: The world of electrons” Refresher Course in UGC-HRDC, HPU Shimla (H.P.) dated 2019-03-16	National	Link
Dr. Jagdish Kumar	Invited lecture on “Density functional theory” Short Term Course on Material Characterization, NIT Srinagar (J&K) dated 2019-06-26	National	Link
Dr. Dalip Singh Verma	Resource person in 26th Himachal Pradesh children’s science congress-2018 Chamba, Organized by HIMCOST w.e.f. 9-12th october, 2018.	National	Link
Dr. Dalip Singh Verma	Theory of Compound Nucleus Reactions MCM DAV College Kangra (H.P.), 13th May, 2019.	National	Proof with concerned faculty
Year 2019-2020			
Prof. B.C. Chauhan	Invited Lecture at the 7th HSCA International Conference at Chitkara University, Himachal Pradesh, India (20th – 21st Oct., 2019).	International	Link
Prof. B.C. Chauhan	Invited Lecture at the Distt. Level Sc. Exhibition & Project Competition under Inspire awards ‘Manak’ January 2020.	Disstt.	Proof with concerned faculty
Dr. Hum Chand	Workshop & Guest lecture (28.08.2019)	University level	Link



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Year 2020-2021			
Dr. Hum Chand	ILMT - International Liquid Mirror Telescope Workshop (29.06.2020 -1st July 2020)	International level	Link
Dr. Dalip Singh Verma	Job Prospects & Career Options in Physics Government College Dhaliara, Kangra (H.P.) 3rd October, 2019.	National	Proof with concerned faculty
Dr. Jagdish Kumar	Invited lecture on "Ab-Initio theory of material design Workshop on ab-initio theory of material design organized by Swami Vivekanand Govt. College, Ghumarwin, Bilaspur (H.P.) dated 2019-09-16	State	Proof with concerned faculty
Year 2021-22			
Dr. Hum Chand	Probing the environment and central Engine of AGN (22 April 2021)	National Colloquium	The email proof here , notice here youtube link here
Dr. Surender Pratap	Resource person 18-19, 2020 NIEPA, New Delhi	NIEPA	Proof with concerned faculty
Prof. B.C. Chauhan	Invited Lecture: NEP2020, Shiksha Sanskriti Uthhan Nyas, H.P. (Jan. 2021).	State	Proof with concerned faculty
Prof. B.C. Chauhan	Invited Lecture: Indian Culture of Knowledge Tradition HRDC, HPU Shimla September 2020.	National	Proof with concerned faculty
Dr. Dalip Singh Verma	Fission Partition: A Reflection of Shell Closures, Online International Conference on Theoretical Aspects of Nuclear Physics, 15-20 February, 2021.	International	Proof with concerned faculty
Dr. Dalip Singh Verma	Resource person, (member of the abstract screening Committee and Jury for best presentation during the conference) India International Science Festival, 22-25 December 2020	International	Proof with concerned faculty
Dr. Surender Verma	Resource person, India International Science Festival, 22-25 December 2020	International	Proof with concerned faculty

Year 2021-22



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Dr. Surender Pratap	Invited lecture workshop on 11.12.2021	GDC Budgam Kashmir	Proof with concerned faculty
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30. #Details of teachers participated in Refresher courses, Orientation courses, Seminars, Workshops, Conferences at national and international levels.(participant, presented paper, chaired the session)

S.N.	Name of Faculty	Participation in (Refresher courses, Orientation courses, Seminars, Workshops, Conferences)	Levels (National/ International/ State/University/College)	Link
Year 2016-17				
1	Prof. B. C. Chauhan	A Workshop on Frontiers in Physics (AWFP-2017) by Department of Physics, HPU Shimla 17th -18th March, 2017	National	Link
2	Dr. Dalip Singh Verma	One week Faculty development Programme on "Emerging Trends of ICT in Higher Education 9th-15th June 2016	National	Link
3	Dr. Dalip Singh Verma	Two day workshop on experimental physics 4th -5th April, 2016	National	Link
4	Dr. Dalip Singh Verma	School on Gravitation and Astrophysics Physics, organized jointly by CUHP and IUCAA 29-02-2016 to 12-03-2016	National	Link
5	Dr. Dalip Singh Verma	Workshop on Computerisation Experiments in Physics, organized by CUHP and IUAC 17th to 19th March, 2016	National	Link
6	Dr. Ayan Chatterjee	Meeting of the Indian Association for General Relativity and Gravitation 18th-20th May 2017	National	Link
7	Dr. Jagdish Kumar	SPR-KKR Hands on Course 201642675	National	Link
8	Dr. Rajesh Kumar Singh	OER Material Development Capacity Enhancement Workshop 19th-21st Apr 2017	National	Link
9	Dr. Rajesh Kumar Singh	Acquaintance program of Inter University Accelerator Centre, New Delhi, CUHP, Kangra 10th Apr 2017	National	Link



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Year 2017-18

1	Prof. B. C. Chauhan	National Seminar on Integrated Concerns in Himalayan Region by Govt. PG College, Una 10th March, 2018	National	Link
2	Prof. B. C. Chauhan	National History Writing Workshop by Th. Jagdev Chand Shodh Sansthan, Neri Hamirpur 1st – 3rd Feb., 2018	National	Link
3	Prof. B. C. Chauhan	National Seminar on Recent Trends in Experimental and Theoretical Physics-2017 at Sri Sai University Palampur 23rd – 24th Nov., 2017	National	Link
4	Prof. B. C. Chauhan	XXII National Symposium (NSU-2017) at Central University of Himachal Pradesh, Dharamshala 8th - 10th November 2017	National	Link
5	Prof. B. C. Chauhan	Conference on Science, Religion and World Peace by Bhakti Vedanta Institute, Karnal at Dharamshala 4th Nov., 2017	National	Link
6	Dr. Dalip Singh Verma	XXII National Symposium (NSU-2017) on Advances in Ultrasonics and Material Research, CUHP8th-10th Nov 2017	National	Link
7	Dr. Dalip Singh Verma	Chaired session in XXII National Symposium (NSU-2017) on Advances in Ultrasonics and Material Research, CUHP, 8-10 Nov 2017.	National	Link
8	Dr. Surender Verma	XXII National Symposium (NSU-2017) on Advances in Ultrasonics and Material Research, CUHP 8th-10th Nov 2017	National	Link
9	Dr. Ayan Chatterjee	XXII National Symposium (NSU-2017) on Advances in Ultrasonics and Material Research, CUHP 8th-10th Nov 2017	National	Link
10	Dr. Jagdish Kumar	XXII National Symposium (NSU-2017) on Advances in Ultrasonics and Material Research, CUHP 8th - 10th November 2017	National	Link
11	Dr. Rajesh Kumar Singh	OER Material Development Expert Review Workshop03rd-04th Oct 2017	National	Link
Year 2018-19				
1	Prof. B. C. Chauhan	National Seminar on Exploring the Archaeology in Western Himalayas at Th. Jagdev Chand Smriti Shodh Sansthan, Neri, Hamirpur, Himachal Pradesh, India 15th – 16th Feb., 2019	National	Link
2	Prof. B. C. Chauhan	3rd HP Science Congress by HIMCOSTE at IIT Mandi 22nd -23rd Oct., 2018	National	Link



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3	Prof. B. C. Chauhan	National Seminar on Shrimad Bhagwat Puran Kalin Itihas, Th. Jagdev Chand Shodh Sansthan, Neri Hamirpur 21st – 22nd July, 2018	National	Link
4	Prof. B. C. Chauhan	International Conference on Science: Emerging Scenario & Future Challenges at NIT Hamirpur (SESFC-2018) 8-9 Sept 2018	International	Link
5	Prof. O. S. K. S. Sastri	In-Silico approach for modeling new materials: Methodology and Applications, DoPAS, CUHP 14th-20th Jan 2019	National	Link
6	Prof. O. S. K. S. Sastri	IAPT National Convention at Ranchi, Jharkhand 29th-31st Oct 2018	National	Link
7	Dr. Dalip Singh Verma	In Silico Approach for modeling new material: Methodology and Applications, CUHP 14th-20th Jan 2019.	National	Link
8	Dr. Dalip Singh Verma	100th Refresher Course in Experimental Physics 17 July - 1st August 2018.	National	Link
9	Dr. Dalip Singh Verma	Resource person for scientific project report, 26th state level children science congress-2018. 9-12 oct 2018	National	Link
10	Dr. Surender Verma	In-Silico approach for modeling new materials: Methodology and Applications 14th-20th Jan 2019	National	Link
11	Dr. Ayan Chatterjee	In-Silico approach for modeling new materials: Methodology and Applications 14th-20th Jan 2019	National	Link
12	Dr. Ayan Chatterjee	Refresher Course on Astronomy and Astrophysics, Organized by IUCAA, SWAYAM November 2018- January, 2019.	National	Link
13	Dr. Jagdish Kumar	Delivered an Invited Talk on "Density Functional Theory" in the Short Term Course on Material Characterization Techniques, Department of Physics, NIT Srinagar, J&K 24th-28th June 2019	National	Link
14	Dr. Jagdish Kumar	Delivered invited lectures in Refresher Course on Physics, organized by the UGC Human Resource Development Centre, H.P. University, Shimla 11th-30th Mar 2019	National	Link
15	Dr. Jagdish Kumar	In-Silico approach for modeling new materials: Methodology and Applications, DoPAS, CUHP 14th-20th Jan 2019	National	Link
16	Dr. Rajesh Kumar Singh	In-Silico approach for modeling new materials: Methodology and Applications 14th-20th Jan 2019	National	Link
Year 2019-20				



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1	Prof. B. C. Chauhan	National Seminar on Analytical Aspects of Dynamics by Mathematical Society & Department of Mathematics, CUHP. 22nd - 23rd Nov., 2019	National	Link
2	Prof. B. C. Chauhan	Regional Orientation Workshop for Participating PIs under UBA at NIT Hamirpur 16th Nov., 2019	National	Link
3	Prof. B. C. Chauhan	International Conference at the 7th HSCA International Conference at Chitkara University, Himachal Pradesh, India 20th – 21st Oct., 2019	International	Link
4	Dr. Dalip Singh Verma	National Seminar on Analytical Aspects of Dynamics, CUHP22th-23th Nov, 2019	National	Link
5	Dr. Dalip Singh Verma	Two Day workshop on Indian Mathematics, CUHP 13th-14th Sept 2019	National	Link
6	Dr. Dalip Singh Verma	Webinar on “Particle Detectors and Applications” organized by JC DAV College, Dasuya 44008	National	Link
7	Dr. Dalip Singh Verma	Webinar on “Publishing Ethics: The role of Publishers, Journals, Researchers and Institutions” organized by Springer Nature and Inflight Center 25th June 2020	National	Link
8	Dr. Dalip Singh Verma	One Weeks Faculty Development Programme on “Open Source Tools for Research” (Virtual)08th - 14th June, 2020	National	Link
9	Dr. Dalip Singh Verma	Two Weeks Faculty Development Programme on “Managing Online Classes and Co-creating MOOCs:2.0”18th May - 03 June 2020	National	Link
10	Dr. Dalip Singh Verma	One Weeks Faculty Development Programme on “Open Source Tools for Research”, 08 - 14 June, 2020	National	Link
11	Dr. Surender Verma	Two Day workshop on Indian Mathematics, CUHP13th-14th Sept 2019	National	Link
12	Dr. Surender Verma	Participated in Webinar on Nuclear and Particle Astrophysics, MCM DAV college Kangra43999	National	Link
13	Dr. Surender Verma	Faculty Development Programme (FDP) on e-content Development for Teachers organized by UGC-HRDC, Savitribai Phule Pune University (SPPU), under PMMMNMTT 01st- 05th June 2020.	National	Link
14	Dr. Surender Verma	Faculty Development Programme (FDP) on R Programming organized by IIT Bombay 25th - 29th May 2020.	National	Link



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15	Dr. Surender Verma	Faculty Development Programme (FDP) on Managing Online Classes and Cocreating MOOCs organized by TLC Ramanujan College University of Delhi under PMMNMTT 20th April- 06th March 2020	National	Link
16	Dr. Ayan Chatterjee	Two weeks Refreshers Course in Physics and Electronics at University of Jammu 18 Jan 2020	National	Link
17	Dr. Ayan Chatterjee	Delivered Talk on "Entropy of Black Holes from Horizon Microstates" in Shivalik HEPCATS winter 2019 7th Dec 2019	National	Link
18	Dr. Ayan Chatterjee	Delivered Talk on "Black Hole Entropy" in National Seminar on Analytical Aspects of Dynamics, CUHP 22th-23th Nov 2019	National	Link
19	Dr. Ayan Chatterjee	Two Day workshop on Indian Mathematics, CUHP 13th-14th Sept 2019	National	Link
20	Dr. Jagdish Kumar	One Week Short Term Course on Material Characterization Techniques by Department of Physics, NIT Srinagar 24th - 28th June 2020	National	Link
21	Dr. Jagdish Kumar	Two weeks refresher course on Physics and Electronics by HRDC Jammu, University of Jammu J&K 06th-18th Jan 2020	National	Link
22	Dr. Jagdish Kumar	National Seminar on Analytical Aspects of Dynamics, CUHP 22th-23th Nov 2019	National	Link
23	Dr. Jagdish Kumar	Ab-initio Theory of Material Design, a workshop organized by Physics Department, Swami Vivekanand Government College Ghumarwin 16th Sept 2019	National	Link
24	Dr. Rajesh Kumar Singh	Participated in Science Leadership workshop, Central Univ. of Punjab Bhatinda 22th-28th June 2020.	National	Link
25	Dr. Rajesh Kumar Singh	Five days online FDP on GREEN ENERGY AND RENEWABLE ENERGY FOR PHYSICS AND ELECTRONICS TEACHERS MHRD's Faculty Development Centre (PMMNMTT), UGC-Human Resource Development Centre, Savitribai Phule Pune University, Pune 8th-12th June 2020.	National	Link
26	Dr. Rajesh Kumar Singh	AICTE Recognized Faculty Development Programme on Recent Advances in Material Characterization (One Week) Organized by Mechanical Engineering Department, NITTTR, Chandigarh 23th -28th May 2020	National	Link



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27	Dr. Rajesh Kumar Singh	One Week Online Faculty Development Program (FDP) On Maximal Utilization of ICT Tools for Online Teaching-Learning Process", Organized by Department of Applied Science and Humanities, Rajkiya Engineering College, Ambedkar Nagar in Association with J. C. Bose University of Science & Technology, YMCA, Faridabad, Haryana. 09th-13th May 2020	National	Link
28	Dr. Rajesh Kumar Singh	Two Weeks Faculty Development Programme on "MANAGING ONLINE CLASSES and CO-CREATING MOOCs" TLC, Ramanjian College, New Delhi, under PMMMNMTT, MHRD, 20th April - 06 May 2020.	National	Link
29	Dr. Rajesh Kumar Singh	Two Day workshop on Indian Mathematics, CUHP 13th-14th Sept 2019	National	Link
30	Dr. Surender Pratap	Regional e-Symposium on Physics 2020 conducted by Department of Physics, IIT Jammu 9th - 11th June 2020	National	Link
31	Dr. Surender Pratap	Faculty Development Programme (FDP) on R Programming organized by IIT Bombay 25th - 29th May 2020.	National	Link
32	Dr. Surender Pratap	"Solid State Physics in Quarantine" by the Abdus Salam International Centre for Theoretical Physics (ICTP) 16th Apr - 29th May 2020	National	Link
Year 2020-21				
1	Prof. B. C. Chauhan	National Seminar on Role of Teachers in National Education Policy (NEP); CUHP/NITTY AYOOG/ Bhartiya Shikshan Mandal 22nd - 23rd Feb, 2021	National	Link
2	Prof. B. C. Chauhan	Online International Conference on Theoretical Aspects of Nuclear Physics 15th-20th Feb 2021		Link
3	Prof. B. C. Chauhan	National Seminar on Swatantra Sangram Mei Himachal Pradesh ka Yogdan, Th. Jagdev Chand Shodh Sansthan, Neri Hamirpur 14th - 15th Feb., 2021	National	Link
4	Prof. B. C. Chauhan	Online Orientation Training for Mentors for the Non-Technical Higher Education Institutions/ Universities by NITTR Chandigarh 18th - 28th Jan., 2021	National	Link
5	Prof. B. C. Chauhan	6th India International Science Festival (IISF2020) Online (Young Scientists' Conference) at NPL, New Delhi organized by the Ministry of Science and Technology, Ministry of Earth Sciences and Ministry of Health and Family Welfare, Govt. of India 22nd - 24th Dec., 2020	International	Link



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6	Prof. B. C. Chauhan	Brainstorming Discussions on the Draft Document on Science, Technology & Innovation Policy (STIP) for the State of Himachal Pradesh at Shimla on .26th March, 2021	National	Link
7	Prof. O. S. K. S. Sastri	International Conference on Theoretical Aspects of Nuclear Physics (Virtual) 15th-20th Feb 2021	International	Link
8	Prof. O. S. K. S. Sastri	International e-Conference on New Education Policy NEP- 2020 (Virtual) 12th-13th Sep 2020	International	Link
9	Prof. O. S. K. S. Sastri	National Conference on NEP-2020 (Virtual) 17th-18th Aug 2020	National	Link
10	Prof. Hum Chand	39th Annual Meeting of the Astronomical Society of India (Virtual) Feb 20-23, 2021	National	Link
11	Prof. Hum Chand	Online International Conference on Theoretical Aspects of Nuclear Physics 15th-20th Feb 2021	International	Link
12	Prof. Hum Chand	Online Orientation Training for Mentors for the Non-Technical Higher Education Institutions/ Universities by NITTR Chandigarh 18th – 28th Jan. 2021	National	Link
13	Prof. Hum Chand	ILMT - International Liquid Mirror Telescope Workshop (Virtual) 29th June-01st July 2020	National	Link
14	Dr. Dalip Singh Verma	Role of Teachers in National Education Policy (NEP) (Virtual) 22th-23th Feb, 2021	National	Link
15	Dr. Dalip Singh Verma	Chaired a session of nuclear structure in the online international conference on Theoretical Aspects of Nuclear Physics 15th-20th Feb 2021	International	Link
16	Dr. Dalip Singh Verma	Invited talk in Online International Conference on Theoretical Aspects of Nuclear Physics, February 15-20, 2021. 15th-20th Feb 2021	International	Link
17	Dr. Dalip Singh Verma	International Conference on Theoretical Aspects of Nuclear Physics, 15-20 Feb 2021	International	Link
18	Dr. Dalip Singh Verma	6th India International Science Festival (IISF2020) Online (Young Scientists' Conference) at NPL, New Delhi organized by the Ministry of Science and Technology, Ministry of Earth Sciences and Ministry of Health and Family Welfare, Govt. of India 22th – 24th Dec 2020	International	Link
19	Dr. Dalip Singh Verma	Online Faculty Development Program on "Quest Aboard with Radiation Around" 7th - 11th Dec 2020	National	Link



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20	Dr. Dalip Singh Verma	UGC Sponsored Online Refresher Course on Environmental Studies 3rd - 18th Sept 2020	National	Link
21	Dr. Dalip Singh Verma	PMMNMTT (MRD sponsored) National Workshop on Curriculum Design and Development (Online) 21st- 31st July 2020	National	Link
22	Dr. Surender Verma	ARPIT course coordinated by Guru Jambheshwar University of Science and Technology Hisar, Haryana through SWAYAM 1st Dec 2020 - 31st March 2021	National	Link
23	Dr. Surender Verma	Role of Teachers in National Education Policy (NEP), Organized by CUHP 22th-23th Feb 2021	National	Link
24	Dr. Surender Verma	International Conference on Theoretical Aspects of Nuclear Physics organized by Central University of Himachal Pradesh 15th-20th Feb, 2021	International	Link
25	Dr. Surender Verma	6th India International Science Festival (IISF2020) Online (Young Scientists' Conference) at NPL, New Delhi organized by the Ministry of Science and Technology, Ministry of Earth Sciences and Ministry of Health and Family Welfare, Govt. of India 22nd - 24th Dec 2020.	International	Link
26	Dr. Surender Verma	XXIV DAE-BRNS Symposium on High Energy Physics organized by NISER Jatni Odisha 14th -18 Dec, 2020	National	Link
27	Dr. Surender Verma	Refresher Course- Environmental Studies, organized by UGC-HRDC, Aligarh Muslim University (AMU) 3rd - 18th Sep 2020	National	Link
28	Dr. Surender Verma	Participated in the National Webinar on "Frontiers in Basic Physics and Applications" organized by Barnagar College, Sorbhog, Barpeta Assam 21st-22nd Aug 2020	National	Link
29	Dr. Surender Verma	National workshop on Curriculum design and development 21st-31st July 2020	National	Link
30	Dr. Surender Verma	National Workshop on Technology and Instructional Reforms with reference to online teaching, learning and evaluation organized by CALEM, Panjab University under PMMNMTT 15th -20th July 2020	National	Link
31	Dr. Surender Verma	Strategy for managing personal finance including mutual funds during and after COVID-19, AMFI44022	National	Link
32	Dr. Surender Verma	Webinar on Can Future energy needs be met sustainably? by National Academy of Science, India 10th July 2020	National	Link



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33	Dr. Surender Verma	Webinar "Flow inside the Sun" 09th July 2020	National	Link
34	Dr. Ayan Chatterjee	Delivered Talk on "Supertranslations for a Dynamical Horizon" in Shivalik HEPCATS Meeting - Winter 202030th Jan 2021	National	Link
35	Dr. Ayan Chatterjee	Indian Association of General Relativity and Gravitation - IAGRG meeting titled "Exponential Corrections to Black Hole Entropy".19th – 20th Dec 2020,	National	Link
36	Dr. Ayan Chatterjee	Delivered Talk on "How to find Trapped Surfaces in Gravitational Collapse" in Shivalik HEPCATS Meeting - Summer 202044042	National	Link
37	Dr. Jagdish Kumar	One Week e-Workshop On Materials and their Characterization by Department of Physics, Maharaja Agrasen University 14th-19th June 2021.	National	Link
38	Dr. Jagdish Kumar	6th India International Science Festival (IISF2020) Online (Young Scientists' Conference) at NPL, New Delhi organized by the Ministry of Science and Technology, Ministry of Earth Sciences and Ministry of Health and Family Welfare, Govt. of India 22nd - 24th Dec 2020.		Link
39	Dr. Jagdish Kumar	Co-Creating MOOCS Ramanujan College, University of Delhi (Delhi)20th April - 06th May 2020	National	Link
40	Dr. Rajesh Kumar Singh	National e-Workshop on Instrumentation Techniques in Chemical Sciences, Department of Chemistry, VBS Purvanchal University, Jaunpur, 222003, Uttar Pradesh June 25-29, 2021	National	Link
41	Dr. Rajesh Kumar Singh	6th India International Science Festival (IISF2020) Online (Young Scientists' Conference) at NPL, New Delhi organized by the Ministry of Science and Technology, Ministry of Earth Sciences and Ministry of Health and Family Welfare, Govt. of India 22nd - 24th Dec 2020.	International	Link
42	Dr. Rajesh Kumar Singh	Online One-week National Workshop on "Advanced Physical Tools and Techniques for Materials Characterization" Department of Physics, Mahatma Gandhi Central University, Motihari-845401, Bihar 28th July - 03rd August 2020.	National	Link
43	Dr. Rajesh Kumar Singh	International Webinar on Materials Synthesis and Characterisation(IWMSC-2020) jointly organized by Deptt. Of Physics and Electronics, Dr. RML Avadh Univ. Ayodhya, UP and Deptt. of Natural Sciences, Florida Polytechnic State Univ. Florida USA 11th-13th July 2020.	International	Link



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44	Dr. Surender Pratap	Online conference on 2D Materials for Spin-Orbitronics by the Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste 03rd - 05th May 2021	International	Link
45	Dr. Surender Pratap	National Seminar on Role of Teachers in National Education Policy (NEP); CUHPP/NITI AYOOG/ Bhartiya Shikshan Mandal, 22nd -23rd Feb., 2021	National	Link
46	Dr. Surender Pratap	International (ONLINE) Workshop on "Emerging trends in High Energy and Condensed Matter Physics" in GDC, Budgam, Kashmir, J&K 11th-12th Jan 2021	International	Link
47	Dr. Surender Pratap	6th India International Science Festival (IISF2020) Online ('Young Scientists' Conference) at NPL, New Delhi organized by the Ministry of Science and Technology, Ministry of Earth Sciences and Ministry of Health and Family Welfare, Govt. of India 22nd - 24th Dec 2020.	International	Link
48	Dr. Surender Pratap	AICTE Training And Learning (ATAL) Academy Online FDP on "Research Methodology" at IIT Dharwad 7th - 11th Dec 2020	National	Link
49	Dr. Surender Pratap	AICTE Training And Learning (ATAL) Academy Online FDP on "Research Methodology" at INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, NAGPUR 1st -5th Dec 2020	National	Link
50	Dr. Surender Pratap	ARPT course coordinated by Indian institute of Technology Bombay through SWAYAM 1st Dec 2020 - 31st March 2021.	National	Link
51	Dr. Surender Pratap	Short Term Course On Current Trends In Condensed matter Physics, NIT Jalandhar 25th-29th Sept 2020	National	Link
52	Dr. Surender Pratap	Virtual Workshop on Collating Physics Resources for Teachers in Higher Education organized by National Resource Centre for Education at NIEPA, New Delhi 18th-19th Aug, 2020	National	Link
53	Dr. Surender Pratap	Online Faculty Development Programme organised by School of Computer Science & Engineering on Computational Intelligence Systems and Security (CISS 2020) at Shri Mata Vaishno Devi University Katra, J&K 20th to 24th July 2020	National	Link
54	Dr. Surender Pratap	Participated and completed a 4-week induction programme for faculty in university of higher education TLC Ramanujan college, Delhi University, MHRD PMMMNMTT.04 June-1st July 2020	National	Link



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55	Dr. Noor Jahan	Four week induction /orientation programme for faculty in university /college/institutes of higher education by teaching learning center, Ramanujan college university of delhi 16th April-15th May 2021	National	Link
56	Dr. Noor Jahan	6th India International Science Festival (IISF2020) Online (Young Scientists' Conference) at NPL, New Delhi organized by the Ministry of Science and Technology, Ministry of Earth Sciences and Ministry of Health and Family Welfare, Govt. of India 22nd - 24th Dec., 2020	International	Link
58	Dr. Gourishankar Sahoo	13th International Conference on Plasma Science and Application (ICPSA-2020) 26th - 28th Dec 2020	International	Link
59	Dr. Gourishankar Sahoo	6th India International Science Festival (IISF2020) Online (Young Scientists' Conference) at NPL, New Delhi organized by the Ministry of Science and Technology, Ministry of Earth Sciences and Ministry of Health and Family Welfare, Govt. of India 22nd - 24th Dec., 2020.	International	Link
60	Dr. Gourishankar Sahoo	AICTE Training And Learning (ATAL) Academy Online FDP on "Research Methodology" at IIT Dharwad. 7th - 11th Dec 2020	National	Link
61	Dr. Gourishankar Sahoo	AICTE Training And Learning (ATAL) Academy Online FDP on "Research Methodology" at INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, NAGPUR 1st -5th Dec 2020	National	Link
Year 2021-22				
1	Prof. B. C. Chauhan	IP Awareness/ Training Program under National Intellectual Property Awareness Mission (NIPAM) by Intellectual Property Office, India. 9th Feb. 2022	National	Link
2	Prof. B. C. Chauhan	National Workshop on Vedic Mathematics by Center for Vedic Mathematics and Department of Mathematics, CUHP 8th - 12th Nov. 2021	National	Link
3	Prof. B. C. Chauhan	Him Science Congress Association (HSCA) International e-Conference on Progress - Technology During Pandemic (PSTSP-2021) Himachal Pradesh, India 11-12 Sept 2021	International	Link
4	Dr. Dalip Singh Verma	65th DAE-BRNS Symposium on Nuclear Physics, 2021 1st-5th December 2021	National	Link



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5	Dr. Dalip Singh Verma	Orientation Program on "Nuclear Isomerism: Commemorating the centenary of discovery " in the "65th DAE-BRNS Symposium on Nuclear Physics (SNP2021)30th Nov, 2021	National	Link
6	Dr. Ayan Chatterjee	Delivered Talk on "Trapped surfaces in gravity "in Shivalik HEPCATS July 202131st July 2021	National	Link
7	Dr. Rajesh Kumar Singh	AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "ADVANCES IN NOVEL COMPOSITE MATERIALS: FABRICATION, ANALYSIS AND OPTIMIZATION" 06/09/2021 to 10/09/2021	National	Link
8	Dr. Rajesh Kumar Singh	Online training programme on "Strengthening Rural Community Governance" organized by National Institute of Rural Development and Panchayati Raj, MRD, GOI, Hyderabad-500030, July 05-09, 2021.	National	Link
9	Dr. Surender Pratap	International (ONLINE) Workshop on "Emerging trends in High Energy and Condensed Matter Physics" in GDC, Budgam, Kashmir, J&K 11th-12th Jan 2021.	International	Link
10	Dr. Surender Pratap	AICTE training and learning academy online FDP on "Recent advances and challenges in Nanoelectronics Device (RACND-2021) at IIT Bhagalpur. 13th -17 Dec 2021	National	Link
11	Dr. Surender Pratap	AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "MATLAB: An Effective Tool for Academics and Research" at Laxminarayan Institute of Technology, R.T.M. Nagpur University 5th-09th July 2021.	National	Link
12	Dr. Gourishankar Sahoo	Four-Week Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education" held at Ramanujan College, Delhi 16th April - 15th May, 2021	National	Link



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31. Details of teachers presented paper Seminars, Workshops, Conferences at national and international levels.(participant, presented paper, chaired the session) in an academic year. –

Name of Faculty	Participation in (Refresher courses, Orientation courses, Seminars, Workshops, Conferences)	Levels (National/ International/ State/University /College)	Link
Year 2016-2017			
Dr. Ayan Chatterjee	Meeting of the Indian Association for General Relativity and Gravitation, 18-20 May 2017	National	Link
Prof. B.C. Chauhan	Session Chair: A Workshop on Frontiers in Physics (AWFP-2017) by Department of Physics, HPU Shimla (17th -18th March, 2017).	National	Link
Year 2017-2018			
Prof. B.C. Chauhan	Chairing Sessions: Vedik Vigyan, Manu ka Itihas at National Seminar on Srimad bhagvatpurankaleen Itihas, Th. Jagdev Chand Shodh Sansthan, Neri Hamirpur (21st – 22nd July, 2018).	National	Link
Year 2018-2019			
Dr. Ayan Chatterjee	Delivered Talk on “Entropy of Black Holes from Horizon Microstates” in Shivailik HEPCATS winter 2019, Dec 7, 2019	National	Link
Prof. B.C. Chauhan	Talk: “Role of Neutrinos as Dark Matter.” International Conference on Science: Emerging Scenario & Future Challenges (SESFC-2018), National Institute of Technology (NIT), Hamirpur, HP, INDIA. 8 -9 September 2018	International	Link
Prof. B.C. Chauhan	Talk: Is Geothermal Energy the Main Source to Trigger the Earthquakes? IIT Mandi (23rd Oct., 2018).	National	Link



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Year 2019-2020		
Prof. B.C. Chauhan	Chairing Session at the National Seminar on Exploring the Archaeology in Western Himalayas at Th. Jagdev Chand Smriti Shodh Sanshan, Neri, Hamirpur, Himachal Pradesh, India (15th – 16th Feb., 2019).	International Link
Year 2019-2020		
Dr. O. S. K. S. Sastri	Gated MCA technique for demonstration of coincidence phenomena with a set of indigenously developed gamma spectrometers BP Jithin, OSKS Sastri, International Conference on Recent Issues in Nuclear and Particle Physics, 2019, Viswa-Bharati, Kolkata	International Proof with concerned faculty
Prof. B.C. Chauhan	Chairing Session at the 7th HSCA International Conference at Chitkara University, Himachal Pradesh, India (20th – 21st Oct., 2019).	International Link
Dr. Dalip Singh Verma	Proceedings of the DAE Symp. on Nucl. Phys. 64, 453(2019). www.symppnp.org/proceedings	National Proof with concerned faculty
Dr. Ayan Chatterjee	Delivered Talk on “Black Hole Entropy” in National Seminar on Analytical Aspects of Dynamics, CUHP, 22-23 Nov, 2019	National Link
Dr. Ayan Chatterjee	Delivered Talk on “Entropy of Black Holes from Horizon Microstates” in Shivalik HEPCATS winter 2019, Dec 7, 2019	National Link
Dr. Ayan Chatterjee	Delivered Talk on “How to find Trapped Surfaces in Gravitational Collapse” in Shivalik HEPCATS Meeting - Summer 2020, Dr. Ayan Chatterjee, July 30, 2020	National Link
Year 2020-2021		
Dr. O. S. K. S. Sastri	Compact dual-parameter MCA for $\gamma - \gamma$ Coincidence Measurements Jithin and O. S. K. S. Sastri, DAE-BRNS Symposium, 2020	National Proof with concerned faculty
Dr. O. S. K. S. Sastri	Numerical Simulations of ^{208}Pb Neutron Single Particle States using Fourier Basis Functions in Scilab, Swapna Gora, Aditi Sharma, and O. S. K. S. Sastri, DAE-BRNS Symposium, 2020	National Proof with concerned faculty



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		National	Proof with concerned faculty
Dr. O. S. K. S. Sastri	Background Gamma Radiation Surveying in the Indian Peninsula with a Portable USB Spectrometer, Jithin and O. S. K. S. Sastri, DAE-BRNS Symposium, 2020	National	
Prof. B.C. Chauhan	Session Chair: IISF2020: Young Scientists' Conference December/2020, 6th India International Science Festival (22nd - 25th Dec., 2020).	International	Link
Prof. B.C. Chauhan	Session Chair: The National Seminar on Swatantra Sangram Mei Himachal Pradesh ka Yogdan, Th. Jagdev Chand Shodh Sansthan, Neri Hamirpur (14th Feb. – 15th Feb. 2021).	National	Link
Prof. B.C. Chauhan	Session Chair: Online International Conference on Theoretical Aspects of Nuclear Physics, 15-20 Feb 2021.	International	Link
Dr. Ayan Chatterjee	Delivered a Seminar at IIT Kharagpur, 10.09.2020, on "Trapped Surface: Classical and Quantum Aspects"	National	Proof with concerned faculty
Dr. Ayan Chatterjee	Indian Association of General Relativity and Gravitation - IAGRG meeting, 19th – 20th December 2020, titled "Exponential Corrections to Black Hole Entropy".	National	Proof with concerned faculty
Dr. Ayan Chatterjee	Delivered Talk on "Supertranslations for a Dynamical Horizon" in Shivalik HEPCATS Meeting - Winter 2020, Dr. Ayan Chatterjee, January 30, 2021	National	Link
Dr. Ayan Chatterjee	Delivered Talk on "Trapped surfaces in gravity" in Shivalik HEPCATS July 2021, Dr. Ayan Chatterjee, July 31st, 2021	National	Link
Dr. Surender Verma	Presented paper entitled "Non-zero Reactor angle and Leptogenesis in A4 based Magic Neutrino mass model" during XXIV DAE-BRNS Symposium on High Energy Physics organized by NISER Jatni, Odisha, India from 14-18 Dec., 2020.	National	Link
Dr. Surender Verma	Delivered talk on "A4 flavor model explaining neutrino mass and baryon asymmetry" during online international conference on Theoretical aspects of nuclear physics from 15-20 Feb 2021	International	Link



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Dr. Gourishankar Sahoo	Presented paper/poster entitled, "On the fabrication and characterization of two washer guns to study plasma interactions" at 13th International Conference on Plasma Science and Application(ICPSA-2020) held at Ravenshaw University, Cuttack, Odisha from 26th -23th Dec 2020.	International	Link
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32. Participation of teachers in various academic activities as members of committees at University level, State level, National level, International level bodies. (give details)

Name of Faculty	Nature of Participation (Activity)	Levels (National/ International/ State/University/College)	Link
Prof. O.S.K.S Sastri	1. Vice-President, Indian Association of Physics Teachers-Regional Council-03	National	Proof with concerned faculty
Prof. Bhag Chand Chauhan	1. Member, Task Force, New Education Policy Implementation, Govt. of Himachal Pradesh (Sept.2019)	State	Proof with concerned faculty
	2. Member, State Higher Education Council, Govt. of Himachal Pradesh.	State	Proof with concerned faculty
	3. Member, RUSA Reconsidering Committee of HP Higher Education	State	Proof with concerned faculty
	4. Member, Board of Studies, HPTU Hamirpur (HP).	University	Proof with concerned faculty
	5. Member, Board of Studies, Cluster University Mandi (HP).	University	Proof with concerned faculty
	6. Member, Board of Studies (PG Physics), HP University Shimla (HP).	University	Proof with concerned faculty



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	7. Member, Board of Studies (UG Physics), HP University Shimla (HP).	University	Proof with concerned faculty
	8. Member, Univ. Court, Planning and Development Board, EC/ AC, School Board and BoS and other apex Committees of CUHP.	University	Proof with concerned faculty
	9. Member and Advisor, Syllabus Framing of Vedic Mathematics for Schools, HP School Board of Education (2019-2020)	State	Proof with concerned faculty
	10. Director, Neri Shodh Sansthan, Hamirpur.	National	Proof with concerned faculty
	11. Member, Atal Tinkering Lab Procurement Technical Committee, Kendriya Vidyalaya Dharamshala Cantt. Dharamshala (2018).	National	Proof with concerned faculty
	12. Vice-President, Vigyan Bharati, Himachal (VIGYASA)	National	Proof with concerned faculty
	13. Mentor for Young Faculty Members for UGC System	National	Proof with concerned faculty
	14. Member, Indian Association of Physics Teachers (IAPT)	National	Proof with concerned faculty
	15. Member, Indian Physics Association (IPA)	National	Proof with concerned faculty
	16. Member, Him Science Congress Association (HSCA)	National	Proof with concerned faculty
	17. Observer, IGNOU Exams, CUHP Exams	National	Proof with concerned faculty
	18. Member/Expert, in Selection Committees for Teaching Posts in the Universities	National	Proof with concerned faculty
Prof. Hum Chand	1. Visiting Associate, IUCAA, Pune	National	Link



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Prof. Hum Chand	2.	Co- author of paper awarded as “ India Top cited Paper Award 2020 ”	International American Astronomical Society (IOP Publishing)	Link	
	3.	Members of working group for “Mega Science vision - 2035” Govt of India	National	Link	
	4.	Associate member of “Public Outreach and Education Committee of the Astronomical Society of India (ASI-POEC)”	National	Link	
	5.	Member of International Science Development Team (ISDT) of Thirty Meter telescope- India mega project Thirty-meter Telescope - 2017 onward (attached. web https://www.tmt.org/page/isdt-members#isdt-early-universe)	International	Link	
	6.	Core science group member of “Indian Spectroscopy & Imaging Space Telescope (INSIST)” a multi-wavelength space mission by ISRO - December 2019-present - funded by ISRO	National	Link	
	7.	Life member of Astronomical Society of India	National	Link	
	Dr. Ayan Chatterjee	1.	Visiting Associate, Inter University center for Astronomy and Astrophysics, Pune	National	Link
2.		Member of Council, Indian Association of General Relativity and Gravitation	National	Link	
3.		Life Member, Indian Association of Physics Teachers	National		Proof with concerned faculty
Dr. Gourishankar Sahoo	1.	Member, IQAC, CUHP	University Level		Proof with concerned faculty
	2.	Member, Board of Studies (DPAS)	University Level		Proof with concerned faculty
	3.	Member, School Board (SoPMS)	University Level		Proof with concerned faculty
Dr. Dalip Singh Verma	1.	Member, IQAC, CUHP	University Level		Proof with concerned faculty
	2.	Member, Board of Studies (DPAS)	University Level		Proof with concerned faculty
	3.	Member, School Board (SoPMS)	University Level		Proof with concerned faculty



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Dr. Jagdish Kumar	4. Member Vijnana Bharati (VIBHA)	National	Proof with concerned faculty
	1. Life member of Indian Association of Physics teachers	National	Proof with concerned faculty
	2. Life Member of Vijnana Bharati (VIBHA)	National	Proof with concerned faculty

33. Percentage of participation of full-time teachers in various bodies of the Universities/ Other Colleges, (eg. BoS and Academic Council during the last year)

Data requirement:

- Number of teachers participated = 6
- Name of the body in which full-time teachers participated: BoS, School Board, AC, EC, IQAC, ARC, etc
- Total number of teachers : 11

Formula= $\frac{\text{Number of teachers participated}}{\text{Total Number of teachers}} \times 100 = 54.54\%$

Total Number of teachers

Documents: Enclose scanned copies of the certificate supporting the participation of teachers [Link](#)

34. Details of teachers appointed/nominated on Editorial Boards at university, state, national and international levels. –

Sr. No.	Name of the teacher	Name of Editorial Boards	Level of board	Name of Institution	Link
1	Prof. Hum Chand	E Journal of Astronomy and Astrophysics 1st Jan 2017-31 Dec 2020	Editorial board member (Cosmology section)	Indian Academy of Science/Springer	Link
2	Prof. B. C. Chauhan	Journal of Nuclear Physics, Material Science, Radiation and Application.	National	Chitkara University	Proof with concerned faculty



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3	Prof. B. C. Chauhan	Ithas Diwakar	-	Neri Shodh Sansthan	Proof with concerned faculty
4	Dr. Dalip Singh Verma	Journal of Nuclear Physics, Material Science, Radiation, and Application.	National	Chitkara University	Proof with concerned faculty

35. Awards/Prizes and recognitions received by teachers at University, State, National and International level:

Sr. No.	Name of the teacher	Nature of Award	Level of Award	Money received if any (In Rs)	Link
1.	Prof. O.S.K.S Sastri	Visiting Professor, Inter University Accelerator Centre	National	-	Link
2.	Prof. O. S. K. S. Sastri	Best Teacher Nation Builders Award, Rotary Club of Dharamsala	National	Plaque	Link
3.	Prof. Bhag Chand Chauhan	Visiting Associate, Inter University Center for Astronomy and Astrophysics, Pune (July 2019- June 2022)	National	Entire Visit Expenses	Link
4.	Prof. Bhag Chand Chauhan	Visiting Associate, Inter-University Centre for Astronomy & Astrophysics (IUCAA), Pune (An Autonomous Body of UGC): July 2016 to June 2019.	National	Citation and Memento	Link
5.	Prof. Bhag Chand Chauhan	Ram Narayan Arya Samman, IFFVS, International Seminar, Rohak.	International	Citation and Memento	Link
6.	Prof. Bhag Chand Chauhan	Dr. Shyama Prasad Mukharjee Samman, Yuva Lekhak Manch, Nampur Kangra	State	Citation and Memento	Link
7.	Prof. Hum Chand	Visiting Associate, IUCAA, Pune 2020-2023	National	Entire Visit Expenses	Link



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8.	Prof. Hum Chand	Co- author of paper awarded as " India Top cited Paper Award 2020 " 2020	International (American Astronomical Society (IOP Publishing)	-	Link
9.	Dr. Ayan Chatterjee	Visiting Associate, Inter University center for Astronomy and Astrophysics, Pune 2017 -onward	National	Entire Visit Expenses	Link

36. Awards and Prizes received by students at University, State, National and International level: -

Sr. No.	Name of the Student	Name of the activity	Nature of Award	Level of Award	Money received if any (In Rs)	Link
1	Ashish Sharma	Best Poster Award	Citation	National	-	-
2	Rishu Verma	Best Paper Presentation	Citation and Cash Prize	National	5000	Link



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37. Details of Seminars/ Conferences/Workshops organized by department at University, State, National and International level and the source of funding with details:

Name of Conference/ Seminars / Workshops	Funding agency and funds received		No. of Participants		University/State/ National/ International	Dates	Link
	Internal	External	Internal	External			
School of Gravitation and Astroparticle Physics (Prof. B.C. Chauhan)	CUHP	IUCAA, DS T SERB	25	25 participants and 09 (Speaker)	International	29.02.2016 to 12.03.2016	Link
Workshop (17.03.2016 to 19.03.2016)	CUHP		65	15	University	17.03.2016 to 19.03.2016	Link
Workshop (Prof. Subhash Samanta)	CUHP		42	01 (Speaker)	University	30.03.2016 to 05.04.2016	Link
Workshop (Prof. MS Marwaha)	CUHP	-	50	01 (Speaker)	University	12.05.2016	Link
Seminar (Dr. B. C. Chauhan)	CUHP	-	100	-	University	04.08.2016	Link
XXII National Symposium (NSU-2017)	CUHP	DST and USI			National	November 8-10, 2017	Link
Workshop	CUHP			01	University	26.10.2017 to 28.10.2017	Link
Workshop (Prof. OSKS Sastri)	CUHP	-			University	17.03.2018	Link
Workshop (Prof. OSKS Sastri)	CUHP	-	80	-	University	02.06.2018	Link
Workshop (Prof. OSKS Sastri)	CUHP	-	46	-	University	04.09.2018 to 06.09.2018	Link
In Silico Approach for Modelling New Materials: Methodology & Applications	CUHP	CSIR	25	30	National	14.01.2019 to 20.01.2019	Link
Workshop	CUHP			-	University	04.04.2019 to 06.04.2019	Link



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Online International Conference on "Theoretical Aspect of Nuclear Physics"	CUHP			International	16.02.2021 to 28.02.2021	Link
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38. Student profile programme-wise at UG and PG

UG/PG	Applications Received	No. of students Admitted	Sanctioned Seats	Male	Female	Total
UG (2016-17)	332	28	30	18	10	28
UG (2017-18)	-	29	30	15	14	29
UG (2018-19)	421	29	30	16	13	29
UG (2019-20)	488	34	33	12	22	34
UG (2020-21)	-	32	33	19	13	32
UG (2021-22)	300	34	33	16	18	34
PG (2016-17)	993	30	30	18	12	30
PG (2017-18)	-	31	30	17	14	31
PG (2018-19)	1147	35	30	19	16	35
PG (2019-20)	1007	31	33	13	18	31



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PG (2020-21)	447	33	33	21	12	33
PG (2021-22)	560	36	33	21	15	36

39. Diversity of Students : (Year-wise)

Name of the Programme	Course	Year	Total number	% of students from the same state	% of students from other State	% of students from other countries
UG	B.Sc. (Hon's)Physics	2016	28	100	0	0
PG	M.Sc. Physics	2016	30	83	17	0
UG	B.Sc. (Hon's)Physics	2017	29	100	0	0
PG	M.Sc. Physics	2017	31	100	0	0
UG	B.Sc. (Hon's)Physics	2018	29	100	0	0
PG	M.Sc. Physics	2018	35	89	11	0
UG	B.Sc. (Hon's)Physics	2019	34	94	06	0
PG	M.Sc. Physics	2019	31	96	04	0
UG	B.Sc. (Hon's)Physics	2020	32	100	0	0
PG	M.Sc. Physics	2020	33	100	0	0
UG	B.Sc. (Hon's)Physics	2021	34	92	8	0



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PG	M.Sc. Physics	2021	36	86	14	0
Ph.D.	Ph.D.	2020	06	-	-	0
Ph.D.	Ph.D.	2021	21	-	-	0

40. Year-wise results of students at UG : [[Link](#)] and for PG: [[Link](#)] Overall result from COE at this [link](#) :

UG/PG	Year	Appeared	Passed	Pass %	Grade %			
					O	A	B	C
B.Sc. Physics	2019 (2016-19)	27	23	92	4	74	22	0
B.Sc. Physics	2020(2017-20)	25	25	100	60	40	0	0
B.Sc. Physics	2021(2018-21)	26	26	100	69	31	0	0
MSc Physics	2018 (2016-18)	29	25	86	8	84	8	0
MSc Physics	2019(2017-19)	28	27	96	19	81	0	0
MSc Physics	2020(2018-20)	31	29	94	25	72	3	0
MSc Physics	2021(2019-21)	31	29	94	24	76	0	0



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41. Student progression/ placement record: Number/ percentage of students proceeded for higher studies Number/percentage of students placed: [Link](#)

Year	% proceeded for higher studies		% of students placed
	UG to PG	PG to Ph.D./ M.Phil	
UG (Academic Year 2016-17)	0	-	0
PG (Academic Year 2016-17)	-	0	0
UG (Academic Year 2017-18)	0	-	0
PG (Academic Year 2017-18)	-	6% (2 students)	6%
UG (Academic Year 2018-19)	20% (6 students)	-	20%
PG (Academic Year 2018-19)	-	10% (3 students)	10%
UG (Academic Year 2019-20)	12% (4 students)	-	12%
PG (Academic Year 2019-20)	-	18% (6 students)	18%
UG (Academic Year 2020-21)	27% (9 students)	-	27%
PG (Academic Year 2020-21)	-	6% (2 Students)	6%

42. Number of students awarded M.Phil., Ph.D., Degree (in case of any faculty is Co-supervisor):

Year	M.P hil	Ph. D.	Title of the Research	Parent University	Male		Female		Total
					Male	Female	Male	Female	
2016-2017	-	0	-	CUHP	0	0	0	0	0
2017-2018	-	1	1. Enhancing students' conceptual understanding of solid state physics : Using physics education research strategies	CUHP	0	1	1	1	1
2018-2019	-	0	-	CUHP	0	0	0	0	0



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Year	-	2	1. Phenomenological Aspects of Neutrino Masses, Mixings and Leptonic CP Violation 2. Light Emission and Detection By Carbon Nanotube Field Effect Transistors	CUHP	1	1	2
2019-2020	-	2	1. Investigating neutrino parameters, sterile neutrino, and dark matter 2. Development of new electrolytes for proton conducting electrolyte fuel cells in 100-400°C range 3. Research Based Development of Innovation and indigenous Technology for nuclear physics laboratories	CUHP	0	3	3

43. Number of students cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give Category wise data. [Link 1](#), [Link 2](#)

Year	UPSC/other State PSCs	NET/SET	GATE	Other Exams	Total
2016-2017					
2017-2018		1	1		2
2018-2019		3 (SET)	2	2 (JEST)	7
2019-2020	1 (State)	2 (SET)	2		5
2020-2021		1(NET)	11	1 (JEST)	13

44. Dropout rate in UG and PG (average for the last two batches) : [Link](#)

UG = 3/30 = 10%

PG = 3/33= 9%



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45. Present details of departmental infrastructural & other facilities with regard to

- a) Central Library Books and Journals, etc, relevant to Department: more than 500 books & Dozen of journals
b) Departmental Library (books, journals etc.) : More than 100 books are available
c) Computers and Internet facilities for staff : Every Staff has computers & internet facilities
d) Total number of class rooms : 03
e) Class rooms with ICT facility : 03
f) Students' laboratory : 03
g) Research laboratories : 01
h) Smart class room : 03
i) Any other facility LCDs : WiFi/LAN enabled department

46. List of faculty members doing post-doctoral Research: None

Sr. No.	Name of the Faculty	Institute	Research Topic
1	Prof. O. S. K. Subramanya Sasri	-	-
2	Prof. Bhag Chand Chauhan	-	-
3	Prof. Hum Chand	-	-
4	Dr. Ayan Chatterjee	-	-
5	Dr. Dalip Singh Verma	-	-
6	Dr. Surender Verma	-	-
7	Dr. Jagdish Kumar	-	-
8	Dr. Rajesh Kumar Singh	-	-
9	Dr. Surender Pratap	-	-
10	Dr. Gouri Shankar Sahoo	-	-
11	Dr. NoorJahan	-	-



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47. Number of students getting financial assistance from the university/state/central government / NGOs/ Trusts/ Other sources [Link](#)

Sr. No.	Name of the Student	Source of Funding	Nature of Financial assistance	Level of Financial assistance	Money received (In Rs)
1	Jyoti Bhardwaj	CUHP	RD Fellowship		8000 Per Month
2	Atul Chaudhary	CUHP	RD Fellowship		8000 Per Month
3	Gazal	CUHP	RD Fellowship		8000 Per Month
4	Shankita Bhardawaj	CUHP	RD Fellowship		8000 Per Month
5	Suresh Chand	CUHP	RD Fellowship		8000 Per Month
6	Abhinav Nag	CUHP	RD Fellowship		8000 Per Month
7	Anuja Kumari	CUHP	RD Fellowship		8000 Per Month
8	Govind Singh	CUHP	RD Fellowship		8000 Per Month
9	Kushmakshi	CUHP	RD Fellowship		8000 Per Month
10	Tapender Singh	CUHP	RD Fellowship		8000 Per Month
11	Vandna Sharda	ICSSR	RD Fellowship		16000 Per Month
12	Nitika Devi	CUHP	RD Fellowship		8000 Per Month
13	Shiwani Kalia	CUHP	RD Fellowship		8000 Per Month



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14	Sushma Devi	CUHP	RD Fellowship		8000 Per Month
15	Swapna Devi	CUHP	RD Fellowship		8000 Per Month
16	Labh Singh	CUHP	RD Fellowship		8000 Per Month
17	Shikha Awasthi	CUHP	RD Fellowship		8000 Per Month
18	Lalit Kumar	CUHP	RD Fellowship		8000 Per Month
19	Rahul	CUHP	RD Fellowship		8000 Per Month
20	Ritish Kumar	CUHP	RD Fellowship		8000 Per Month
21	Simran Arora	CUHP	RD Fellowship		8000 Per Month
22	Neha Kaach	CUHP	RD Fellowship		8000 Per Month
23	Rishu Verma	CUHP	RD Fellowship		8000 Per Month
24	Aditi Sharma	CUHP	RD Fellowship		8000 Per Month
25	Himani Thakur	CUHP	RD Fellowship		8000 Per Month
26	Anil Khachi	CUHP	RD Fellowship		8000 Per Month
27	Monal Kashav	DST-INSPIRE	RD Fellowship		35000 Per Month
28	Ankush	UGC	RD Fellowship		35000 Per Month
29	Sandeep	UGC	RD Fellowship		31000 Per Month
30	Sahil Sharma	CUHP	B.Sc. (Hon's) 2016		15200 Per Annum



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31	Sunil Kumar Saini	CUHP	B.Sc. (Hon's)		15200 Per Annum
32	Vipul Rai	CUHP	B.Sc. (Hon's)		15200 Per Annum
33	Vishali	CUHP	B.Sc. (Hon's)		15200 Per Annum
34	Ajay Kumar	CUHP	M.Sc. (Physics)		15200 Per Annum
35	Anil Kumar	CUHP	M.Sc. (Physics)		15200 Per Annum
36	Dinesh Kumar	CUHP	M.Sc. (Physics)		15200 Per Annum
37	Krishan Kumar	CUHP	M.Sc. (Physics)		15200 Per Annum
38	Prince Piyush	CUHP	M.Sc. (Physics)		15200 Per Annum
39	Ravi Thakur	CUHP	M.Sc. (Physics)		15200 Per Annum
40	Shalini Rana	CUHP	M.Sc. (Physics)		15200 Per Annum
41	Shailni Bhaedwaj	CUHP	M.Sc. (Physics)		15200 Per Annum
42	Sunil Kumar	CUHP	M.Sc. (Physics)		15200 Per Annum
43	Yogesh Kumar Maurya	CUHP	M.Sc. (Physics)		15200 Per Annum
44	Babita Choudhary	CUHP	M.Sc. (Physics)		15200 Per Annum



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45	Neha Dhiman	CUHP	M.Sc. (Physics)		15200 Per Annum
46	Ravi Kumar	CUHP	M.Sc. (Physics)		15200 Per Annum
47	Rishav Kumar	CUHP	M.Sc. (Physics)		15200 Per Annum
48	Rubi Samkaria	CUHP	M.Sc. (Physics)		15200 Per Annum
49	Shikha Devi	CUHP	M.Sc. (Physics)		15200 Per Annum
50	Shital Devinder	CUHP	M.Sc. (Physics)		15200 Per Annum
51	Shivani Palia	CUHP	M.Sc. (Physics)		15200 Per Annum
52	Vipul Rai	CUHP	B.Sc. (Hon's) 2017		15200 Per Annum
53	Vishali	CUHP	B.Sc. (Hon's)		15200 Per Annum
54	Sunil Kumar Saini	CUHP	B.Sc. (Hon's)		15200 Per Annum
55	Dinesh Kumar	CUHP	M.Sc. (Physics)		15200 Per Annum
56	Sunil Kumar	CUHP	M.Sc. (Physics)		15200 Per Annum



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57	Yogesh Kumar Marya	CUHP	M.Sc. (Physics)		15200 Per Annum
58	Archana Sharma	CUHP	M.Sc. (Physics)		15200 Per Annum
59	Deeksha Sharma	CUHP	M.Sc. (Physics)		15200 Per Annum
60	Manjeet Singh Koundal	CUHP	M.Sc. (Physics)		15200 Per Annum
61	Sakshi	CUHP	M.Sc. (Physics)		15200 Per Annum
62	Shelly Dogra	CUHP	M.Sc. (Physics)		15200 Per Annum
63	Varsha Sharma	CUHP	M.Sc. (Physics)		15200 Per Annum
70	Shivani Chaudhary	CUHP	M.Sc. (Physics) 2018		15200 Per Annum
71	Priyanath Mudi	CUHP	M.Sc. (Physics)		15200 Per Annum
72	Sakshi	CUHP	M.Sc. (Physics)		15200 Per Annum
73	Shelly Dogra	CUHP	M.Sc. (Physics)		15200 Per Annum
74	Ankita Kumari	CUHP	M.Sc. (Physics)		15200 Per Annum



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75	Bharti Guleria	CUHP	M.Sc. (Physics)		15200 Per Annum
76	Varsha Sharma	CUHP	M.Sc. (Physics)		15200 Per Annum
77	Priyanka Chaudhary	CUHP	M.Sc. (Physics)		15200 Per Annum
78	Ayushi	CUHP	M.Sc. (Physics)		15200 Per Annum
79	Ankit Saxena	CUHP	M.Sc. (Physics)		15200 Per Annum
80	Sanveer Singh	CUHP	M.Sc. (Physics)		15200 Per Annum
81	Monika	CUHP	M.Sc. (Physics)		15200 Per Annum



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48. Curricular Aspects:

a) Does the faculty take initiative in the curriculum development process?

Sr. No.	Name of the Faculty	Type of curriculum development	Link
1	Prof. O. S. K. Subramanya Sastri	Helped in developing the Curriculum of UG, PG and RD classes of Physics Department, CUHP	Link 2 , Link 3 , Link 4
2	Prof. Bhag Chand Chauhan	Helped in developing the Curriculum of UG, PG and RD classes of Physics Department, CUHP time to time; and at the University level various Programmes of CUHP under NEP2020	
3	Prof. Hum Chand	Helped in developing the Curriculum of UG, PG and RD classes of Physics Department, CUHP	
4	Dr. Ayan Chatterjee	Helped in developing UG, PG and RD courses of Physics Department, CUHP	
5	Dr. Dalip Singh Verma	Helped in developing the Curriculum of UG, PG and RD classes of Physics Department, CUHP	
6	Dr. Surender Verma	NEP implementation committee of the department, framed the B Sc (Hon.) Physics course structure in consonance with the UGC CBCS guidelines, Framed the programme specific outcomes for B Sc and M Sc programme, Prepared the programme brochures for B Sc and M Sc as per NEP.	
7	Dr. Jagdish Kumar	Helped in developing the Curriculum of UG, PG and RD classes of Physics Department, CUHP	
8	Dr. Rajesh Kumar Singh	Helped in developing the Curriculum of UG, PG and RD classes of Physics Department, CUHP	
9	Dr. Surender Pratap	Helped in developing the Curriculum of UG, PG and RD classes of Physics Department, CUHP	



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10	Dr. Gouri Shankar Sahoo	Helped in developing the Curriculum of UG, PG and RD classes of Physics Department, CUHP	
11	Dr. Noorlahan	Helped in developing the Curriculum of UG, PG and RD classes of Physics Department, CUHP	

b) Is the curriculum suitable to make students globally competitive in the subject? If yes, substantiate.

Yes: The courses offered in UG and PG programmes of the Department are at par with the courses offered by others in India and abroad. In addition during the second year of the PG programme the department offers highly specialized course Basket. [Link\(Page 10,11,12\)](#)

c) Does the department offer a program with sufficient no. of electives options.

Yes, [Link\(Page 10,11,12\)](#)

d) While framing curriculum, is feed-back taken from stakeholder's viz. Students/Alumni/Parents/Employers considered?

The curriculum is developed by curriculum development committee (CDC) which is further discussed and approved in BOS and School Board before implementation at the academic council level. Informal suggestions/requests from students and alumni are, also, taken into consideration.

e) What is the frequency of curriculum revision? (3/4/5 years or more or less)

3 years

f) Does the curriculum have emerging thrust areas, including interdisciplinary areas? (If yes, elaborate).

Yes. The UG and PG curriculum includes courses relevant to the emerging thrust areas identified by the department such as Computational Physics, High Energy Physics, Astronomy and Astrophysics, Quantum Gravity, Nanoscience and Nanotechnology, Material science, Theoretical Condensed Matter Physics, Theoretical Nuclear Physics etc. In particular,



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during the final semester the PG students are required to undertake a rigorous research based project for completion of their PG degree.

49. Teaching-Learning, Evaluation:

- Number of teachers preparing & following Academic Teaching plan

S. No.	Name of the Faculty	Curriculum plan submitted (Yes/No)
1	Prof. O. S. K. Subramanya Sastri	Yes
2	Prof. Bhag Chand Chauhan	Yes
3	Prof. Hum Chand	Yes
4	Dr. Ayan Chatterjee	Yes
5	Dr. Dalip Singh Verma	Yes
6	Dr. Surender Verma	Yes
7	Dr. Jagdish Kumar	Yes
8	Dr. Rajesh Kumar Singh	Yes
9	Dr. Surender Pratap	Yes
10	Dr. Gouri Shankar Sahoo	Yes
11	Dr. NoorJahan	Yes

- The details of teachers who use the following teaching methods:

Interactive lecture method using blackboard, Group discussions, Problem solving, Seminars.
Use ICT methods to support lectures.

S. No.	Name of the Faculty	Method of teaching



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1	Prof. O. S. K. Subramanya Sastri	Blackboard, Group Activities, Group Discussions, Problem Solving and ICT method
2	Prof. Bhag Chand Chauhan	Blended learning: Blackboard, Assignments, Group Activities, Seminars, PPT, Problem Solving, Quizzes, and Online Mode, Whatsapp, Google Classrooms, ICT methods
3	Prof. Hum Chand	Interactive lecture method using blackboard, Group discussions, Problem solving, Seminars and ICT methods
4	Dr. Ayan Chatterjee	Interactive lecture method using blackboard, Group discussions, Problem solving, Seminars and ICT methods
5	Dr. Dalip Singh Verma	Interactive lecture method using blackboard, Group discussions, Problem solving, Seminars and ICT methods
6	Dr. Surender Verma	Interactive lecture method using blackboard, Group discussions, Problem solving, Online quizzes, Using Whatsapp and Google classroom for subject specific discussions and queries and to supplement the concepts done during the class. Blended learning is exercised, Use of IPEVO and webcam to take live online classes.
7	Dr. Jagdish Kumar	Interactive lecture method using blackboard, Group discussions, Problem solving, Seminars and ICT methods
8	Dr. Rajesh Kumar Singh	Interactive lecture method using blackboard, Group discussions, Problem solving, Seminars and ICT methods
9	Dr. Surender Pratap	Interactive lecture method using whiteboard, Group discussions, Problem solving, Seminars and ICT methods.
10	Dr. Gouri Shankar Sahoo	Interactive lecture method using blackboard, Group discussions, Problem solving, Seminars and ICT methods
11	Dr. NoorJahan	whiteboard, Group discussions, Problem solving, online mode, ICT methods

- Does the Department have Peer review processes? If yes, are the suggestions effectively used to improve the teaching quality? Yes, Student feedback is taken from time to time. [Link](#)



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- Does the department have any mechanism to ensure that the entire syllabus is completed? Enclose relevant documents. Yes, The batch coordinators are designated to take care and monitor the overall progress of the courses of the concerned batch. [Link](#)
- Do you offer Bridge/Remedial courses? If yes, Give details. Yes, [Link](#)
- What is the method for conducting internal evaluation?

Assignments, Quizzes, Seminars, Class Test, Presentations etc.

50. Teacher Performance:

- Whether the performance of the teacher is assessed by the students? If yes, are The feedback reports analyzed and suggestions communicated to teachers?
[Link to Feedback Documents](#)
- Number of teachers getting a) Very Good= 11 b) Good ___ c) Average ___ remarks from students.
- Whether suggestion boxes are kept in the department to get suggestions from students on infrastructural facilities available in the department? No
- Are the suggestions received from students used for improvement of facilities? Yes
- Do teachers submit Self-Appraisal Reports? Are these reports appraised by TIC and forwarded to the Principal Office with comments? Yes, submitted to the Dean Academics
- What is the Departmental average API 642? How many teachers have API > Average API

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- What is the individual faculty wise h index?

S. No.	Name of the Faculty	h index
1	Prof. O.S.K.Subramanya Sastri	7
2	Prof. Bhag Chand Chauhan	11
3	Prof. Hum Chand	17(based NASA ADS)
4	Dr. Ayan Chatterjee	8
5	Dr. Dalip Singh Verma	7 (Scopus)
6	Dr. Surender Verma	9 (Scopus)
7	Dr. Jagdish Kumar	7
8	Dr. Rajesh Kumar Singh	31(Scopus)
9	Dr. Surender Pratap	3
10	Dr. Gourishankar Sahoo	4
11	Dr. NoorJahan	5

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

51. List the distinguished alumni of the department (maximum 10):

S. No.	Name of the Alumina	Current Status/Position
1	Atul pathania	Scientist BARC



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2	Govind Singh	College Cadre (Assistant Professor)
3	Atul Choudhary	College Cadre (Assistant Professor)

52. Give details of student enrichment programmes (special lectures / workshops / seminars) involving external experts.

S. No.	Name of the Programme	Name of external expert	Designation and Institute	Link
1	Workshop (12..05.2016)	Prof. M.S. Marwaha	Principal, Guru Govind Singh College Chandigarh	Link
2	Lecture (20.02.2017 to 28.02.2017)	Prof. H.S. Mani	Director, HRI Allahabad	Link
3	National Science Day (28 Feb 2017)	Prof. H.S. Mani	Director, HRI Allahabad	Link
4	Workshop (17.03.2017 to 18.03.2017)	Dr. Ajith	Scientist SH, Inter University Accelerator Center New Delhi	Link
5	Lecture (23.03.2017)	Dr. Deepak Pant	Dean, School of Earth & Environmental Sciences, CUHP	Link
6	Lecture (29.08.2017)	Dr. Kuldeep Kumar Sharma	NIT, Hamirpur	Link
7	Lecture (22.09.2017)	Sh. Ajay Sharma	Principal, Govt Sr. Sec. School & Member of Fundamental Physics Society, GPO Shimla	Link
8	Workshop (26.10.2017 to 28.10.2017)	Dr. T. Sai Ram	IUAC New Delhi	Link
9	Lecture (27.11.2017)	Dr. Vijay Mohan Kumar Puri	Director, Geological Survey of India (retired)	Link
10	Lecture (21.03.2018, 22.03.2018)	Prof. Amit Ghosh	Senior Professor, Saha Institute of Nuclear Physics, Calcutta	Link



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11	Lecture (21.05.2018 to 22.05.2018)	Dr. Poonam Mehta Dr. Sorin Das	Dr. Poonam Mehta, UGC Assistant Professor Physics Dept. JNU New Delhi Dr. Sorin Das, Associate Professor, Physics Dept. IISER	Link
12	Lecture (07.09.2018)	Prof. Megh Nath Saha Prof. S. Nath Bose		Link
13	Lecture (18.10.2018)	Prof. DR Sharma Prof. Baba Potukuchi	-	Link
14	Lecture Series (10.11.2018 to 15.11.2018)	Prof. M. Tarnekar	Professor	Link
15	Workshop (12.11.2018 to 13.11.2018)	Dr. Gurpreet Kaur	IUAC New Delhi	Link
16	Lecture (19.11.2018 to 20.11.2018)	Prof. RC Verma	-	Link
17	Lecture (08.04.2019 to 13.04.2019)	Dr. Sonu Kumar	-	Link
18	Lecture (25.04.2019 to 26.04.2019)	Dr. M. Sainath	Professor of Physics, Dean planning RGUKT, Hyderabad	Link
19	Lecture (16.05.2019 to 24.05.2019)	Dr. Padmnabh Rai	Reader, Center for Basic Sciences, Mumbai	Link
20	Lecture (20.05.2019 to 24.05.2019)	Dr. Rajnish Dhiman	Assistant Professor, MNIT Jaipur	Link
21	Lecture	Dr. Armit Gangotia	Assistant Professor Central University of Jammu	Link
22	Lecture (28.08.2019 & 29.08.2019)	Dr. Hum Chand	Scientist-E, ARIES	Link
23	Lecture (13.11.2019 to 15.11.2019)	Prof. SD Sharma	HNB Garhwal University Srinagar, poudi Utrakhand	Link
24	Lecture (10 lecture)	Prof. Sri Satyanarayanan	Sri Sathya Sai University	Link



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25	Lecture (18.11.2021)	Prof. CN Kumar	Professor, Punjab University	Link
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53. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

- a) Based on student feedback taken online in google-form. [Link](#)

54. Highlight the Special facilities (if, any) of the Department: Workstations for High End Computing, Scientific Softwares like Mathematica, Maple for academic and research purposes., dedicated computational physics lab.

55. Highlight the unique features of the department.

- a) In Science stream, only our department has started the UG course with BSc-Physics Honors since about the last five year.
- b) Students are engaged in community services through Community connect programme and swachh bharat abhiyan.
- c) The department has M.Sc. in Theoretical Physics
- d) Department is giving specialization in Astronomy at both UG and PG level
- e) All the labs and research is undertaking predominantly using free open source software (FOSS)
- f) Implementation of Physics education research (PER) strategies for certain courses and research

56. State the Innovative practices adopted in the department.

- a) Our department is the first to develop and adopt the intranet based E-administration system for internal management (e.g see at [DPAS-INTRANET](#)).

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

- a) The department has extended its activities by including Astronomy stream.



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b) Participation in Unnat Bharat Abhiyan, swachh bharat abhiyan, International yoga day, Ek bharat shreshth Bharat. [Link](#)

58. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

a. Strengths:

1. Diversity in research Area. Vibrant research program with high impact factor publications
2. Both UG and PG course started
3. Extensive skill development, data analysis and computational physics courses
4. The theoretical physics group ranks among the top 25 in the country during the last 2 years, higher than all the institutes in the region
5. Students of the group publish single authored papers in international Peer- reviewed journals. Most of the students of the group publish more than 5 papers during their Ph.D.

b. Weaknesses:

- a. Having so many faculties working in research requiring advanced computing but we do not have a high-performance computing facility. Unavailability of funds for good computers, software, books and journals.
- b. Now many faculties have joined in the area of Experimental condensed matter and material science; requirement of world class Instruments is required. Lacks labs equipped with instruments in UG , PG at par with the central University of the Country.
- c. No active visiting programme for students, for lack of funds.

c. Opportunities:

1. To set up a vibrant observational astronomy group by setting up an observatory with a 1m-class telescope of national importance. The department is involved in space missions such as INSIST by ISRO and CASTOR space mission by Canada. Department also plans to host IUCAA Center of Astronomy Resources and Development (ICARD).
2. The Department offers vocational courses and training and it will open opportunities for employment. The Department offers Interdisciplinary courses, which will encourage collaborating research and flexibility of choosing research career.
3. We have one of the very good theoretical research groups in Material Science and high energy physics and this can be harnessed to support experimental labs like CSIR DRDO and DAE.



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4. To set up a high performance computing facility to cater the computational needs of the researcher of the department as well as CUHP.
5. We have experimental researchers having very good publications, h index, i index in Material Sciences. World class advanced and highly sophisticated synthesis, fabrication, characterization and application lab in the area specially related to Energy storage, conversion devices (i.e.. Batteries, Supercapacitors, Fuel Cells, Solar cells etc.), magnetic tribological materials, biomaterials will be developed which will give opportunities to the students and researchers to get trained and nurtured.

d. Challenges:

The department intends to establish itself as a world class center in Physical Sciences. In that objective, the department is facing the following challenges.

1. Inadequate space for setting up world-class teaching, learning and research infra-structure
2. To promote institutional linkage and scientific exchange program
3. To promote Academia-Industry collaboration and consultancy

59. Future plans of the department:

a. Long term plans:

i. Astronomical Sciences: To set up an vibrant astronomy group, so as to promote astronomy in northern India. The Astronomy programme in UG and PG, our department aims to become a human resource center in Space science and Astronomy. In this regards, immediate planing of our department involved :

- I. In setting up professional 1m-class telescope in collaboration with ISRO for Astronomy Research and Space Situational Awareness programme of national Interest,
- II. Participation in national and international mega-science astronomy mission such as: Indian Spectroscopic Imaging Space Telescope(INSIST) by ISRO and Cosmological Advanced Survey Telescope for Optical and UV Research CASTOR by Canada,
- III. Setting up resource centers such as IUCAA Center for Astronomy Research and Development (ICARD).



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- ii. Material Science:** To set up a world class advanced and highly sophisticated synthesis, Fabrication, characterization and application lab in the area specially related to Energy storage, conversion devices (i.e.. Batteries, Supercapacitors, Fuel Cells, Solar cells etc.), magnetic tribological materials, biomaterials. Try to publish patents of innovative ideas and products and also will collaborate with industries to launch products for societal benefits.
- iii. Theoretical Physics:** The long terms goals of the theoretical physics group are the following: First, to initiate research activities into broad and active areas of research by involving national and international institutes in a collaborative framework. Secondly, create diverse doctoral and postdoctoral research programmes for maintaining high research visibility in the country. Third, to set up an active visiting programme so that exchange of research ideas becomes a source of further growth.
- b. Mid term plans:** To establish lab with sophisticated instruments for characterisation and application of materials with potential multipurpose applications. To spread the name of the department by establishing research collaboration at national and international levels. Promote inter-disciplinary research to develop innovative products. The theoretical physics group feels that although our students are capable, they lag in participating in competitive examinations, and so, we must encourage students apply for research fellowships. Next, we plan to ensure setting up well equipped library, and labs with latest software, and high end computing facilities. Additionally, close collaborations among nearby institutes must be initiated for interdisciplinary research. On the level of teaching, we must also ensure that, as NEP beings to be implemented at its full, diversification of the specialisation courses needs to be carried out so that our students acquire a thorough grounding of the courses of their choice.

c. Short term plans



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To establish basic research synthesis facilities required for different 1D, 2D and 3D materials involving various chemical, physical methods like, hydrothermal, solid state, thin film, CVD e.t.c. To publish research papers in quality journals in the different areas of the physics such as Nuclear Physics, High Energy Physics, Astronomy, Nanoscience, Nanotechnology, Spintronics and Materials Science. Promote faculties to write research projects for funding from national and international funding agencies. The theoretical physics group of the department has the following short terms goals. Firstly, the implementation of the NEP needs to be completed, along with a detailed discussion on the need and requirement of the Department. The curriculum framework must then be ratified through a CDC, for ensuring better implementation. Secondly, well equipped research spaces must be provided to newly enrolled RD students. Thirdly, we must ensure a gender balance across all our programmes, and in particular, encourage girl students of the B.Sc. and M.Sc. to participate in the research activities.

Declaration by the Head of the Department/In-charge

The information given in this report is verified and true to the best of my knowledge and I am aware that the above information provided by the department will be validated by the AAA committee during the visit.

Date: 25-08-2022

Head of the Department/In-charge
विभागाध्यक्ष, भौतिक एवं खगोलीय विज्ञान विभाग
Head, Department of Physics & Astronomical Sciences
हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय
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अस्थायी शैक्षणिक ब्लॉक/Temporary Academic Block
शाहपुर, कांगड़ा (हि.प्र.)/Shahpur, Kangra (H.P.)-176206



हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय
Central University of Himachal Pradesh
शाहपुर परिसर, जिला काँगड़ा, हिमाचल प्रदेश - 176206
Shahpur Campus, Distt. Kangra (HP) - 176206



Supplement to the Academic audit

1. Does the department prepare/maintain an academic calendar? enclose the copy.
 - a. Yes, the department adheres to the academic calendar fixed at the University level. (Link)
2. Is Faculty-wise Academic Plan maintained at department level?
 - a. By the faculty on an individual level.
3. Is the Departmental Meeting verified, Minutes recorded and maintained?
 - a. Yes.
4. Are Classes being held regularly; as per designated time-slot; and full period is utilized as per the timetable
 - a. Yes
5. Department ensure that long gaps are not given in Students Timetable
 - a. Yes
6. Proper justice is done to the whole syllabus? Course completion report is kept
 - a. Yes
7. Does the department conduct Field Visit/Excursion trips? Please provide the detailed report.



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- a. Yes (under the community connect program) i.e. Ek Bharat Shresth Bharat, Swachh Bharat Abhiyan, Unnat Bharat Abhiyan VDP, Unnat Bharat Abhiyan Villages Adopted, Unnat Bharat Abhiyan Activities

8. Does the department have developed any mechanism of Student Mentoring? If yes Please provide the list of mentor and mentee and relevant points if any to be mentioned here.

- a. Yes, Link

9. Departmental Activities Report is maintained; Duties are assigned properly

- a. Yes

10. Departmental activities are distributed equally in both semesters.

- a. Yes

11. What is the process of Evaluation of Students' performance?

- a. Apart from the exams (Mid-term, and End-term), various ways are adopted for internal assessment viz, assignments quiz, class-performances.

12. Does any record of Non-performing Students be maintained? Yes, Link

13. Whether Attendance (of students) is recorded/ done?



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Name of faculty	Attendance done online (Y/N)
All -faculty	Online for online classes and offline for offline classes.

14. Does the department maintain a record of short of Attendance?
a. Subject teacher maintains it subject wise.
15. Does department have Mini Library and is properly maintained?
a. Yes
16. Are Record of circulation of books/material/syllabus, Guidelines etc. preserved?
a. Yes
17. Stock register/Issue Register and other records maintained in the Department?
a. Yes
18. Does the Department prepare any study material/data that can be submitted to the Institutional Repository? If yes, please give the details.
a. Teachers maintain the study material individually subject wise. [Link](#), [Link 2](#)
19. Brief introduction of the department (history, relevance, research highlights, career opportunities etc.) is updated on the college website.



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- a. Yes. Additionally, it is also listed in the departmental INTRANET pages.
20. **Student's achievements maintained at department? (Link)**
- a. Alumni cell created and maintained the details.
21. **Department prepare/release any Newsletter/Journals (If applicable) (provide soft copy)**
- a. In preparation.
22. **Contribution of the department to Corporate Life of the College (Only Convener/Coordinator/Adviser).**
- a. Prof. OSKS Sastri, Through skill developmental course and faculties involvement in incubation cell.
- b. Prof. B. C. Chauhan, Nodal officer, Unnat Bharat Abhiyan, Swachh Bharat Abhiyan, Ek Bharat Shreshth Bharat.
- c. Prof. B. C. Chauhan, Campus Director, Shahpur Campus.
- d. Prof. B. C. Chauhan, Planning and Development Officer.
- e. Prof. B. C. Chauhan, Provost, CUHP.
23. **Participation of the department in Institutional Social responsibilities.**
- a. Through (i) Adoption of Village (ii) Swachta Abhiyan (iii) Ek Bharat Shreshth Bharat (iv) Gram Vikas Yojana and (v) Unnat Bharat Abhiyan (vi) Community Connect Project. Link
24. **Does the department have any Industrial/Research institution Collaboration/Linkage.**



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- a. Through (i) Adoption of Village (ii) Swachta Abhiyan (iii) Ek Bharat Shreshth Bharat (iv) Gram Vikas Yojana and (v) Unnat Bharat Abhiyan (vi) Community Connect Project. Link

24. Does the department have any Industrial/Research institution Collaboration/Linkage.

- a. Department is closely collaborating with the Research Institution. Recently last year an MoU has been signed with the DST research institute namely Aryabhata Research Institute of Observational Sciences and CUHP. Many PhD students under the MoU have visited departments under this MoU. Link

25. Visibility Check

	Visibility Check	Yes/No/ Not Applicable	Faculty member Responsible
A	Wall Magazine	No	
B	Department Display Board	Yes (notice board)	HoD
C	College Website	yes(INTRA-NET)	Hum Chand
D	e-Resources	yes(INTRA-NET club-website & youtube channel)	Hum Chand