

1.2.1

Supporting Documents-
Department of Physical Sciences
List of New Courses Introduced



1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the 2022-23

S.No	Name of the new course introduced in the 2022-23	Course code	Year of introduction	Program name	Link of the relevant document
1	Mathematical Physics-I	BSHP-211-21	2022	B.Sc. (Hons) Physics	
2	Elements of Modern Physics	BSHP-212-21	2022	B.Sc. (Hons) Physics	
3	Physics Lab-III	BSHP-213-21	2022	B.Sc. (Hons) Physics	
4	Analog Systems and Application	BSHP-214-21	2022	B.Sc. (Hons) Physics	
5	Physics Lab-IV	BSHP-215-21	2022	B.Sc. (Hons) Physics	
6	Physical Chemistry	BHCL-204-21	2022	B.Sc. (Hons) Physics	
7	Workshop Skill Enhancement	BSHP-216-21	2022	B.Sc. (Hons) Physics	
8	Computational Physics	BSHP-217-21	2022	B.Sc. (Hons) Physics	

Head of Department
 Department of Physics
 I.K. Gujral Punjab Technical University Jalandhar,
 Kapurthala, Punjab-144603

9	Weather Forecasting	BSHP-218-21	2022	B.Sc. (Hons) Physics
10	Chemistry Lab-III	BHCP-208-21	2022	B.Sc. (Hons) Physics
11	Mathematical Physics-II	BSHP-221-21	2022	B.Sc. (Hons) Physics
12	Thermal Physics	BSHP-221-21	2022	B.Sc. (Hons) Physics
13	Physics Lab-V	BSHP-223-21	2022	B.Sc. (Hons) Physics
14	Digital Electronics	BSHP-224-21	2022	B.Sc. (Hons) Physics
15	Physics Lab-VI	BSHP-225-21	2022	B.Sc. (Hons) Physics
16	Matrices & Ordinary Differential Equations	BSHM-408-21	2022	B.Sc. (Hons) Physics
17	Environmental Studies	EVS-101A	2022	B.Sc. (Hons) Physics
18	Electrical Circuits and Network Skills	BSHP-226-21	2022	B.Sc. (Hons) Physics
19	Basic Instrumentation Skills	BSHP-227-21	2022	B.Sc. (Hons) Physics
20	Scientific Word Processing	BSHP-228-21	2022	B.Sc. (Hons) Physics
21	Quantum Mechanics	BSHP-311-21	2022	B.Sc. (Hons) Physics
22	Solid State Physics	BSHP-312-21	2022	B.Sc. (Hons) Physics
23	Physics Lab-VII	BSHP-313-21	2022	B.Sc. (Hons) Physics
24	Computational Physics Lab-I	BSHP-314-21	2022	B.Sc. (Hons) Physics
25	Department Specific Elective (DSE)-1	BSHP-315-21	2022	B.Sc. (Hons) Physics
		BSHP-316-21	2022	B.Sc. (Hons) Physics
26	Department Specific Elective (DSE)-2	BSHP-317-21	2022	B.Sc. (Hons) Physics
		BSHP-318-21	2022	B.Sc. (Hons) Physics
		BSHP-319-21	2022	B.Sc. (Hons) Physics
27	Atomic and Molecular Physics	BSHP-315-21	2022	B.Sc. (Hons) Physics

Annexure 1.1.3 &
1.2.1

<https://ptu.ac.in/wp-content/uploads/2020/11/M.Sc.-Physics-2019.pdf>

Head of Department
Department of Physics
J.N.T.U. Technical University Jalancher,
Kannur
Established 1984

28	Nuclear Physics	BSHP-316-21	2022	B.Sc. (Hons) Physics
29	Dissertation	BSHP-317-21	2022	B.Sc. (Hons) Physics
30	Communication Electronics	BSHP-318-21	2022	B.Sc. (Hons) Physics
31	Renewable Energy and Energy Harvesting	BSHP-319-21	2022	B.Sc. (Hons) Physics
32	Electromagnetic Theory	BSHP-321-21	2022	B.Sc. (Hons) Physics
33	Statistical Mechanics	BSHP-322-21	2022	B.Sc. (Hons) Physics
34	Physics Lab -VIII	BSHP-323-21	2022	B.Sc. (Hons) Physics
35	Department Specific Elective (DSE)-3	BSHP-324-21	2022	B.Sc. (Hons) Physics
		BSHP-325-21	2022	B.Sc. (Hons) Physics
36	Department Specific Elective (DSE)-4	BSHP-326-21	2022	B.Sc. (Hons) Physics
		BSHP-327-21	2022	B.Sc. (Hons) Physics
		BSHP-328-21	2022	B.Sc. (Hons) Physics
37	Particle Physics	BSHP-324-21	2022	B.Sc. (Hons) Physics
38	Advanced Mathematical Physics	BSHP-325-21	2022	B.Sc. (Hons) Physics
39	Advanced Condensed Matter Physics	BSHP-326-21	2022	B.Sc. (Hons) Physics
40	Experimental Techniques	BSHP-327-21	2022	B.Sc. (Hons) Physics
41	Radiation Safety	BSHP-328-21	2022	B.Sc. (Hons) Physics
42	Advanced Nuclear Physics	PHS909	2022	PHD

Forr $\frac{\text{Number of courses having focus on employability or entrepreneurship}}{\text{Number of courses in all programmes}} \times 100$

Number of courses having focus on employability or
Number of courses in all programmes = 82
Percentage= 25.60


Head of Department
Department of Physics
I.K.Gujral Punjab Technical University Jalandhar,
Kapurthala, Punjab-144603