



Shri Mata Vaishno Devi University Katra

School of Physics

PROGRAM EDUCATIONAL OBJECTIVES **(M.Sc Physics, Two Year Full Time Degree Program)**

PEO 1:

Physics Post Graduates are expected to be well prepared for pursuing successful careers in Academics (Government, PSU & Private sector) in one or more of the areas of Basic and applied sciences.

PEO 2:

They are expected to be prepared to become academicians, researchers, team leaders and decision makers in their organizations and shall contribute effectively to the growth and development of their respective organizations.

PEO 3:

They are expected to specialize in Physics and its various specializations and/or interdisciplinary studies of their interest to develop and enhance their own stature for effective contribution to the profession and society at large.

Program Outcomes (POs) of M.Sc. Program offered by SoP at SMVDU

The curriculum and syllabi of M.Sc. Two Year Full Time Degree Program is designed to achieve identified Post Graduate Attributes (PGAs) with following POs.

After successful completion of the degree program, a student is expected to

1. Acquire/ develop creative intellectual capabilities with enhanced observation power to understand the subject and attain proficiency through hands-on, project and assignment based pedagogy to comprehend the context of core and applied components and induce the spirit of team work.
2. Familiarize, prepare and appear in the competitive State and National level competitive examinations.
3. Apply the knowledge acquired to find solutions of challenges being faced/observed by them by way of review of literature, identification, formulation and analysis of problems to arrive at sustainable conclusions.
4. Be ready to use research based methods including review, system design, analysis and interpretation of data obtained in a manner as to inspire future generations through their teaching and interpersonal skills, apply ethical principles, commit to professional ethics, duties and responsibilities.
5. Conduct and communicate effectively on synthesis/design/process and activities as a part of team in order to comprehend and prepare reports and make effective oral presentations.
6. Recognize the need for and to develop the ability to engage in independent life-long learning scenario in the broadest context of rapidly changing technological scenario.
7. Pick up concepts and skills having a balanced blend of core and specialization components to prepare for academic as well as industrial scenario.

Course Outcomes of every course in M.Sc. Physics Program are mapped to POs considering following;

- 0 Value = Addressing to Zero Degree
- 1 Value = Addressing to Low Degree
- 2 Value = Addressing to Medium Degree
- 3 Value = Addressing to High Degree

CO - PO Mapping for M.Sc. Physics Two Year Full Time Degree Program								
S. No.	Courses	PO1	PO2	PO3	PO4	PO5	PO6	PO7
1.	PHL 6021	2	3	3	1	0	1	3
2.	PHL 6031	2	3	2	2	0	0	3
3.	PHL 6041	2	3	3	1	1	1	3
4.	PHL 6051	2	3	3	2	1	2	3
5.	PHP 6121	3	1	3	3	1	2	3
6.	PHL 6061	2	3	2	2	1	1	3
7.	PHL 6032	2	3	2	2	0	0	3
8.	PHL 6042	2	3	3	2	1	1	3
9.	PHL 6052	2	3	3	3	1	2	3
10.	PHP 6122	3	1	3	3	1	2	3
11.	PHL 7071	3	3	2	1	2	2	3
12.	PHL 7081	3	3	2	2	2	2	3
13.	PHL 7053	2	1	2	2	2	2	3
14.	PHL 7054	2	1	2	2	1	1	3
15.	PHL 7082	3	1	3	2	1	2	3
16.	PHL 7083	3	1	3	2	2	2	3
17.	PHL 7072	3	3	2	1	2	3	3
18.	PHL 7073	2	2	3	1	1	3	3
19.	PHP 7056	3	1	3	2	2	2	3
20.	PHP 7106	3	1	3	2	2	2	3
21.	PHL 7091	2	3	2	2	1	2	3
22.	PHL 7022	2	3	3	2	1	2	3
23.	PHL 7055	3	2	2	3	2	2	3
24.	PHL 7056	2	1	2	2	1	2	3
25.	PHL 7084	3	3	3	2	2	2	3
26.	PHL 7085	3	1	3	2	2	3	3
27.	PHL 7074	2	1	2	2	2	2	3
28.	PHL 7075	2	1	2	2	1	1	3
29.	PHP 7131	3	1	3	2	2	2	3