

Dept. of Physics, RKMVC College

Courses having correlation to Experiential Learning, Participative Learning and Problem solving methodology

Sl. Nos.	Program Code	Program Name	Course Code	Course Name	Experiential Learning	Participative Learning	Problem solving methodology	Remarks
1	UGPHY	B. Sc. Physics	UGPHYCC01	Mathematical Physics - I	✓	✓	✓	Senior students share their experience to junior students, which help them to develop good computational laboratory practices. Students actively participate in laboratory works and group discussions regarding the assignments given to them. They are to solve numerous physical problems on mathematical methods in physics.
2	UGPHY	B. Sc. Physics	UGPHYCC02	Mechanics	✓	✓	✓	Senior students share their experience to junior students, which help them to develop good general laboratory practices. Students actively participate in laboratory works and group discussions regarding the assignments given to them. They are to solve numerous physical problems on classical mechanics.
3	UGPHY	B. Sc. Physics	UGPHYCC03	Electricity and Magnetism	✓	✓	✓	Senior students share their experience to junior students, which help them to develop good general laboratory practices. Students actively participate in laboratory works and group discussions regarding the assignments given to them. They are to solve numerous physical problems on electricity & magnetism
4	UGPHY	B. Sc. Physics	UGPHYCC04	Waves and Optics	✓	✓	✓	Senior students share their experience to junior students, which help them to handle high precession optical instruments. Students actively participate in laboratory works and group discussions regarding the assignments given to them. They are to solve numerous physical problems on waves & optics
5	UGPHY	B. Sc. Physics	UGPHYCC05	Mathematical Physics - II	✓	✓	✓	Senior students share their experience to junior students, which help them to understand computation as a tool in physics. Students actively participate in laboratory works and group discussions regarding the assignments given to them. They are to solve numerous physical problems on mathematical methods in physics.
6	UGPHY	B. Sc. Physics	UGPHYCC06	Thermal Physics	✓	✓	✓	Students share their experience among themselves, which help them to develop good laboratory practices. Students actively participate in laboratory works and group discussions regarding the assignments given to them. They are to solve numerous physical problems on thermal physics


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7	UGPHY	B. Sc. Physics	UGPHYCC07	Digital Systems and Applications	✓	✓	✓	Students share their experience among themselves, which help them to develop good laboratory practices. Students actively participate in laboratory works and group discussions regarding the assignments given to them. They are to solve numerous physical problems on electronics.
8	UGPHY	B. Sc. Physics	UGPHYCC08	Mathematical Physics - III	✓	✓	✓	Students share their experience among themselves, which help them to develop clear understanding on computational physics. Students actively participate in laboratory works and group discussions regarding the assignments given to them. They are to solve numerous physical problems on mathematical methods in physics
9	UGPHY	B. Sc. Physics	UGPHYCC09	Elements of Modern Physics	✓	✓	✓	Students share their experiences among themselves, which help them to develop clear understanding on modern physics. Students actively participate in laboratory works and group discussions regarding the assignments given to them. They are to solve numerous problems on modern physics
10	UGPHY	B. Sc. Physics	UGPHYCC10	Analog Systems and Applications	✓	✓	✓	Students share their experience among themselves, which help them to develop good laboratory practices. Students actively participate in laboratory works and group discussions regarding the assignments given to them. They are to solve numerous problems on electronics.
11	UGPHY	B. Sc. Physics	UGPHYCC11	Quantum Mechanics and Applications	✓	✓	✓	Students share their experience among themselves, which help them to understand insights of quantum mechanics. Students actively participate active group discussions regarding the assignments given to them. They are to solve numerous problems on quantum mechanics.
12	UGPHY	B. Sc. Physics	UGPHYCC12	Solid State Physics	✓	✓	✓	Students share their experience among themselves, which help them to develop good laboratory practices. Students actively participate in laboratory works and group discussions regarding the assignments given to them. They are to solve numerous problems on solid state physics.


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13	UGPHY	B. Sc. Physics	UGPHYCC13	Electromagnetic Theory	✓	✓	✓	Students share their experience among themselves, which help them to develop good laboratory practices. Students actively participate in laboratory works and group discussions regarding the assignments given to them. They are to solve numerous problems on solid state physics.
14	UGPHY	B. Sc. Physics	UGPHYCC14	Statistical Mechanics	✓	✓	✓	Students share their experience among themselves, which help them to understand in sights of statistical mechanics. Students actively participate active group discussions regarding the assignments given to them. They are to solve numerous problems on statistical mechanics.
15	UGPHY	B. Sc. Physics	UGPHYDSE01	Advanced Mathematical Physics - I	✓	✓	✓	Students share their experience among themselves, which help them to develop computational skill in physics. Students actively participate active group discussions regarding the assignments given to them. They are to solve numerous problems on mathematical methods.
16	UGPHY	B. Sc. Physics	UGPHYDSE02	Advanced Dynamics	✓	✓	✓	Students share their experience among themselves, which help them to develop computational skill in physics. Students actively participate active group discussions regarding the assignments given to them. They are to solve numerous problems on dynamical systems.
17	UGPHY	B. Sc. Physics	UGPHYDSE03	Communication Electronics	✓	✓	✓	Students share their experience among themselves, which help them to develop good laboratory practices. Students actively participate active group discussions regarding the assignments given to them. They are to solve numerous problems on communication electronics.
18	UGPHY	B. Sc. Physics	UGPHYDSE04	Advanced Mathematical Physics - II	✓	✓	✓	Students share their experience among themselves, which help them to develop computational skill in physics. Students actively participate active group discussions regarding the assignments given to them. They are to solve numerous problems on mathematical methods.


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19	UGPHY	B. Sc. Physics	UGPHYDSE05	Nuclear and Particle Physics	✓	✓	✓	Students share their experience among themselves, which help them to get insights in nuclear physics. Students actively participate active group discussions regarding the assignments given to them. They are to solve numerous problems on nuclear physics.
20	UGPHY	B. Sc. Physics	UGPHYDSE06	Nano Materials and Applications	✓	✓	✓	Students share their experience among themselves, which help them to get insights on nano physics. Students actively participate active group discussions regarding the assignments given to them. They are to solve practical problems for nano dimensional materials.
21	UGPHY	B. Sc. Physics	UGPHYDSE07	Dissertation / Project work		✓	✓	Students actively participate in group discussions regarding the presentation given by them on their project topics. They have to learn various methods to solve their problems.
22	UGPHY	B. Sc. Physics	UGPHYSEC01	Value Education and Indian Culture	✓	✓	✓	Students share their experience among themselves, which help them to get insights on Indian culture. Students actively participate in active group discussions. They have to understand real problems in society and methods to resolve the issues.
23	UGPHY	B. Sc. Physics	UGPHYSEC02	Spoken Tutorial	✓	✓		Students share their experience among themselves, which help them to develop communication skill. Students actively participate active group discussions.
24	UGPHY	B. Sc. Physics	UGPHYGE01	Mechanics	✓	✓	✓	Senior students share their experience to junior students, which help them to develop good general laboratory practices. Students actively participate in laboratory works and group discussions regarding the assignments given to them. They are to solve numerous physical problems on classical mechanics.
25	UGPHY	B. Sc. Physics	UGPHYGE02	Thermal Physics and Statistical Mechanics	✓	✓	✓	Students share their experience among themselves, which help them to develop good laboratory practices. Students actively participate in laboratory works and group discussions regarding the assignments given to them. They are to solve numerous physical problems on thermal physics


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26	UGPHY	B. Sc. Physics	UGPHYGE03	Waves and Optics	✓	✓	✓	Senior students share their experience to junior students, which help them to handle high precession optical instruments. Students actively participate in laboratory works and group discussions regarding the assignments given to them. They are to solve numerous physical problems on waves & optics
27	UGPHY	B. Sc. Physics	UGPHYGE04	Electricity and Magnetism	✓	✓	✓	Senior students share their experience to junior students, which help them to develop good general laboratory practices. Students actively participate in laboratory works and group discussions regarding the assignments given to them. They are to solve numerous physical problems on electricity & magnetism


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