

B.Sc Physics

Name of the Course	Course Code	Name of the Program	Activities with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of introduction
Optics	P315	B. Sc. Physics	<p>Entrepreneurship Contents: Dispersion produced by a prism, Aberration in lenses, methods to minimize spherical aberrations, Plane transmission grating - determination of wavelength, Applications of a Lasers: Lasers in medicine and surgery - Laser in holography Activities: Illustrative demonstration on working of lasers. Demonstration on applications of Lasers, quiz on principles of Lasers.</p>	2021-22
Semiconductor devices and their Applications	P542	B. Sc. Physics	<p>Entrepreneurship Contents: Classification of amplifiers- Voltage gain of feedback amplifier - Advantages negative feedback Amplifiers - Applications of OPAMP: Scale changer, phase shifter, Summing amplifier, Integrator, Differentiator. Activities: Circuit demonstration on OPAMP parameters, group discussions on Applications of OPAMP.</p>	2021-22

Renewable Energy and Energy Harvesting	P545C	B. Sc. Physics	<p>Entrepreneurship Contents: Solar energy collector – Solar water heater - Solar pump, Power from the wind-Power from the windConversion technologies - Wet process – photosynthesis Energy storage systems - Energy action planning. Activities: Mind mapping, Group discussion, Assignment, Problem solving, Interactive session- data collection: These activities will enhance the candidate knowledge and can be able to get employment in the</p>	2021-22
Applied Electronics	P637	B. Sc. Physics	<p>Entrepreneurship Contents: Rectifiers, Amplifiers, oscillators, multivibrators are some of the important topics that are necessary in most of the electronic industries. Activities: Quiz, Assignment, Group Discussion and PPT Presentation.</p>	2021-22