**LAHORE COLLEGE FOR WOMEN UNIVERSITY LAHORE**

Class: BS Subject: Household Physics

Semester: II

Applied Physics Course code: GC/PHYSICS-301

No. of Credit Hours: 02

|  |  |
| --- | --- |
| **Course Content** | **Sources of Course Material** |
| MECHANICS :  1·. Different system of units.  2. Weights and measure and weighing devices.  3. Force and momentum and different type of forces.  4.Practical applications of centrifugal forces  5. Principles of machines and lever as applied to some simple machine.  6. Atmospheric pressure and its application to various devices.  7. Density and surface tension of liquid and its practical application. | 1. <https://youtu.be/567s-SANkek>    2.<https://youtu.be/V8vD4LIDDb0>    3. <https://youtu.be/WyQproCgepw> types = <https://youtu.be/wtyDFM3lEJU>  4.  <https://youtu.be/O9lT5iIEtUs>    5.<https://youtu.be/jtk2V0M6k3M>  6. <https://youtu.be/S7868Z-g87Y>  7.<https://youtu.be/3FtOcBTR8Js>  Application = <https://youtu.be/3Qm6WFbLDqY> |
| HEAT :  1·.Simple ideas about heat and temperature and various thermometers. | 1. <https://youtu.be/zpOK4wjC4h4> |
| 2. Modes of transmission of heat and its practical application from its everyday life.  3. Boiling and evaporation and some appliances based on their effects. | 2.<https://youtu.be/nJ44-0ekA6U>  3.<https://youtu.be/lpf3lbtgz2o> |
| LIGHT :  1. Nature of light and simple laws governing its propagation.  2. Photometry.  3. Human eye, its defects and remedies. | 1. \* Nature = <https://youtu.be/PD7mwFhNOtU>     \*propagation =<https://youtu.be/FJScLxXl9pU>  2.<https://youtu.be/I36vsk9MPFk>  3.<https://youtu.be/4kpXKu5QKww> |
| ELECTRICITY AND MAGNETISM:  1. Nature of electric current and its measurement.  2. Heating effect of the current and some appliance based on the heating effects.  3.Electric energy and power and cost of electric energy  4. Electromagnetic induction and various machines constructed obeying laws of electromagnetic induction  5.Household wiring fuses and bulb | 1.<https://youtu.be/89vVZOx7Us0>  2.<https://youtu.be/tWIDkt0IgTE>  3.<https://youtu.be/wIhvYIZVJpE>  4.<https://youtu.be/o2s5q67nRIo>  5.<https://youtu.be/0OKTejgaWTY> |
| MODERN PHYSICS :  1. Ideas about atomic structure.  2. Cathode rays and television tube.  3. Vacuum tube and transistor. | 1. <https://youtu.be/TYEYEIuTmGQ>  2.<https://youtu.be/rwxARHm1Qwk>  3  \*Vacuum Tubes  =  <https://youtu.be/nA_tgIygvNo>  \*Transistor =<https://youtu.be/dTx9VKV0hjo> |
|  |  |