

FY B. Com (Accounting & Finance)		Semester I	
Course Name: Basics of Physics		Course Code: VGVUOE113	
Lectures per week (1 Lecture is of 60 minutes)		4	
Number of Credits		4	
Evaluation System	Assessment	Hours	Marks
	• External Assessment	2	60
	• Internal Assessment	-	40

Course Objectives:

1	To equip the students with fundamentals of physical entities and their measurements.
2	To equip the students with basics of electrical home appliances.
3	To equip the students with the use of different measuring tools.

Unit	Content	No. of Lectures
1	Basics of Measurements	15
	a. System of Units of Measurement	
	b. Fundamental / Derived Units	
	c. Measurement of Units	
	d. Conversion of Units	
	e. Accuracy and Error in Measurement	
2	Basics of Physics	15
	a. Types of Forces	
	b. Refraction and Reflection	
	c. Electrostatics	
	d. Magnetism	
	e. Electromagnetic waves and communication	
3	Basics of Electricity	15
	a. Introduction to Electricity	
	b. Conductor, Semiconductor and Insulator	
	c. Electric charge and current	
	d. Voltage, Resistance and Power	
	e. AC and DC circuits and Equipment's	

4	Hands on Training	15
	a. Use of various measurement tools	
	b. Use of a basic tool-kit	
	c. Use of Multi-meter	
	d. Building and testing of basic electrical circuits	
	TOTAL	60

Course Outcomes:

CO1	The student will be able to measure various physical quantities using appropriate tools
CO2	The student will be introduced to various natural phenomena and will be able to relate concepts of physics in daily life
CO3	The student will understand the role of electricity in daily applications
CO4	The students will be able to use different measuring instruments.

Recommended Resources

Reference Books -	<ul style="list-style-type: none"> • Concept of Physics by H. C. Verma • Concepts of Physics by Haliday and Reaznik • ABC of Physics by S. L. Arora
<u>E-Resources</u>	
Webliography:	

EVALUATION PATTERN

INTERNAL EVALUATION

- For Major, Minor, Open Elective (OE), Vocational Skill (VSC) & Skill Enhancement (SEC) Courses

Sr. No.	Description	Marks
I	Class Test	15
	Q.1 Objectives. (1 Mark each) (Fill in the blanks / True or False / Match the Following)	
	Q.2 Answer Any Two of the Three. (05 Marks each) (Unit based theory questions)	
II	Project / Assignment / Presentation	15
III	Active participation in routine class instructional deliveries and overall conduct as a responsible learner, mannerism and articulation.	10
	TOTAL MARKS	40

Note: For OE from science faculty, practical examination of 40 marks will be conducted for Internal Evaluation.

- For Ability Enhancement (AEC), Value Education (VEC) & Indian Knowledge System (IKS) Courses

Sr. No.	Description	Marks
I	Project / Assignment / Presentation	10
II	Active participation in routine class instructional deliveries and overall conduct as a responsible learner, mannerism and articulation.	10
	TOTAL MARKS	20

- For Co - Curricular (CC) Courses

Sr. No.	Description	Marks
I	Class Test	15
II	Activities	35
	TOTAL MARKS	50

EXTERNAL EVALUATION

- For Major, Minor, Open Elective (OE), Vocational Skill (VSC) & Skill Enhancement (SEC) Courses**

- **Maximum Marks: 60**
- **Questions to be set: 04**
- **Duration: 2 Hours**
- **All Questions are compulsory carrying 15 marks each**

Q. No.	Description	Marks
Q.1	Full Length Question OR Full Length Question	15
Q.2	Full Length Question OR Full Length Question	15
Q.3	Full Length Question OR Full Length Question	15
Q.4	Full Length Question OR Full Length Question	15
	TOTAL MARKS	60

Note: Question of 15 marks can be further sub-divided into questions of 5/5/5, 8/7 or 10/5.

- For Ability Enhancement (AEC), Value Education (VEC) & Indian Knowledge System (IKS) Courses**

Q. No.	Description	Marks
Q.1	Attempt any two out three: (5 marks each)	10
Q.2	Attempt any two out three: (5 marks each)	10
Q.3	Attempt any two out three: (5 marks each)	10
	TOTAL MARKS	30