CURRICULUM PLAN 2025-2026

ODD Semester: VII, V, III, I Dr. Rashmi Menon Department of Physics

B.Sc.(H)-IVth year

D.Sc.(11)-1 V year		
Name of Paper and Code	Allocation	Month-wise
	of Lectures	Schedule followed
		by the department
DSE: RESEARCH METHODOLOGY (2222013503) -45 Periods		
Unit - III – Journals, Database and Research Metrics	7	4-Aug to 15-Sept
Journals: Free, open source and paid journals, concept of		
peer reviewed journals, predatory		
and fake journals		
Databases: Indexing databases; citation databases (Web of		
science, Scopus); experimental		
physics databases (astrophysics (ADS, NED, SIMBAD,		
VizieR), biophysics (PubMed),		
particle physics (INSPIRE, CDS), condensed matter		
physics (X-ray database))		
Research Metrics: Journal impact factor, SNIP, SJR, IPP,		
cite score; metrics (h-index, g		
index, i10 index, altmetrics), variations in research metrics		
across various disciplines, other		
limitations of the research metrics and impact factors		
Unit - IV - Scientific Conduct and Publication	8	22-Sept to 17-Nov
EthicsCurrent understanding of ethics; intellectual		-
honesty and research integrity; communicating		
errors (erratum, correction and withdrawal); records and		
logs (maintaining records of		
samples, raw data, experimental protocols, observation		
logs, analysis calculations, and		
codes); scientific publication misconducts: plagiarism		
(concept, importance, methods and		
ways to detect and avoid plagiarism) and redundant		
publications (salami slicing, duplicate		
and overlapping publications, selective reporting and		
misrepresentation of data);		
environmental and other clearances (waste management,		
disposal of hazardous waste).		
COPE guidelines on best practices in publication ethics		