



Fifth Semester B.E./B.Tech. Degree Examination, June/July 2025

Research Methodology and IPR

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks, L: Bloom's level, C: Course outcomes.

Module – 1				M	L	C
Q.1	a.	Define the term research and explain the research flow cycle with a relevant diagram.	10	L1	CO1	
	b.	What are the key ethical issues related to authorship? Explain any one.	10	L2	CO1	
OR						
Q.2	a.	Define Engineering research and list its aims and objectives.	10	L1	CO1	
	b.	Write a note on the following research misconduct : i) Plagiarism ii) Other types of research bias.	10	L2	CO1	
Module – 2						
Q.3	a.	What are the primary goals of conducting a literature review in academic research?	10	L2	CO2	
	b.	Explain various steps involved in critical and creative reading.	10	L2	CO2	
OR						
Q.4	a.	How does new and existing knowledge can contribute to the research process? Explain relevant points.	10	L3	CO2	
	b.	Explain Knowledge flow through citation.	10	L2	CO2	
Module – 3						
Q.5	a.	What inventions are eligible for patenting and which matters are considered non – patentable?	10	L2	CO3	
	b.	Explain classes of copyrights.	10	L1	CO3	
OR						
Q.6	a.	Define the term patent and what conditions must be met for obtaining patent protection.	10	L2	CO3	
	b.	Explain the following major steps involved in the process of patent registration : i) Prior Art search ii) Choice of application to be filed iii) Pre-grant opposition.	10	L2	CO3	
Module – 4						
Q.7	a.	Using flow chart, explain the important steps involved in the process of copyrights registration.	10	L2	CO4	

	b.	What are the different categories trademarks recognized under Indian law and tabulate the famous trademark types with examples.	10	L3	CO4	
OR						
Q.8	a.	What are the roles and functions of the copyright board and copyright society in administering copyright law and regulations?	10	L3	CO4	
	b.	Using a flow chart, explain the steps involved in the process of trademarks registration.	10	L2	CO4	
Module – 5						
Q.9	a.	Discuss the design registration procedure using a flow chart.	10	L2	CO5	
	b.	Define Geographical Indications (GI) with an example. What are the rights granted to GI holders.	10	L2	CO5	
OR						
Q.10	a.	Using a flowchart, explain the process of GI registration.	10	L2	CO5	
	b.	Explain the classification of Industrial Designs and design registration , trends in India.	10	L2	CO5	
