

USN

Course Code 2 2 R M 6 7

Sixth Semester B.E. Degree Examinations, May/June 2026

RESEARCH METHODOLOGY AND IPR

Duration: 3 hrs

Max. Marks: 100

Note: 1. Answer any FIVE full questions choosing ONE full Question from each Module
 2. Missing data, if any, may be suitably assumed

<u>Q. No</u>	<u>Question</u>	<u>Marks</u>	<u>(RBTL:CO: PI)</u>
<u>Module-1</u>			
1.	a. Identify various motivations behind research and explain in detail.	10	(1 :1: 1.2.1)
	b. List and explain the objectives of engineering research.	10	(2 :1: 1.2.1)
(OR)			
2.	a. Discuss the research process in research with flow diagram.	10	(2 :1: 1.2.1)
	b. Discuss the significance of identifying a worthwhile research problem.	10	(3 :1: 1.2.1)
<u>Module-2</u>			
3.	a. List and explain the key steps involved in analyzing and synthesizing prior art.	10	(2 :2: 8.5.1)
	b. Discuss the following bibliographic databases for academic research: (i) Web of Science (ii) Google (iii) Google Scholar	10	(2 :2: 8.5.1)
(OR)			
4.	a. Define the term <i>citation</i> . Discuss its primary functions and explain the common types of citation-related issues in research.	10	(2 :2: 8.5.1)
	b. What is the impact of title and keywords on citations and explain the concept of citation-based knowledge flow.	10	(2 :2: 10.4.1)
<u>Module-3</u>			
5.	a. Briefly discuss the role of national agencies and international organizations in governing and regulate intellectual property (IP) matters.	10	(3 :3: 5.3.1)
	b. Examine the stipulated conditions and legal provisions within the Indian Patents Act that delineate the categories of inventions explicitly excluded from patentability.	10	(3:3: 10.4.1)
(OR)			
6.	a. Briefly discuss about pre-grant opposition and post-grant opposition in the context of patenting.	10	(3 :4: 10.4.1)
	b. Describe 'Prior Art Search' and emphasize its significance in the process of patenting.	10	(3 :4: 10.4.1)

Module-4

7. a. Discuss the criteria required for a work to be eligible for copyright protection. 10 (3 :4: 6.6.1)
b. What is the role of the Registrar of copyrights and what judicial powers does the Registrar possess. Explain in brief. 10 (2 :4: 5.3.1)

(OR)

8. a. Describe the various types and eligibility of trademarks that can be registered in India. 10 (2 :4: 5.3.1)
c. Discuss the rights associated with patents and their enforcement. 10 (3 :4: 5.3.1)

Module-5

9. a. What are non-protectable industrial designs in India? Give examples with explanation. 10 (2 :5: 5.3.1)
b. Explain the importance and procedure of registering an industrial design and eligibility criteria. 10 (3 :5: 5.3.1)

(OR)

10. a. Explain the case study of the Turmeric (Curcuma) patent and its significance. 10 (3 :5: 5.3.1)
b. Discuss the importance of avoiding public disclosure before patent filing and commercialization of patents. 10 (3 :5: 5.3.1)

**** ** ***