



**K. K. Wagh Institute of Engineering Education & Research, Nashik**  
(An Autonomous Institute From A. Y. 2022-23)

WINTER-2025	
Exam Seat No.:	
Academic Year:2025-2026	Semester: I
Class: PG-I	Program: M.Tech
Branch Code: CIV	Pattern:2024
Name of Course: Research Methodology and Intellectual Property Rights	Course Code:2404505
Max. Marks:60	Duration:2.30 Hrs.

**Instructions:** Candidates should read carefully the instructions printed on the Question Paper and on the cover page of the Answer Book, which is provided for their use.

1. This question paper contains 02 pages.
2. Answer to each new question is to be started on a new page.
3. Assume suitable data wherever required, but justify it.
4. Draw the neat labelled diagrams, wherever necessary.
5. The last columns indicates the Course Outcome and level of Blooms Taxonomy of the Question/sub-question.

**Marks CO**

**Question No. 1**

- 1a) What is research methodology? What are the objectives of research in civil engineering. (6) CO1

**Question No. 2**

- 2a) What is a hypothesis? Explain the process of hypothesis formulation with a suitable example. (6) CO2

**Question No. 3**

- 3a) What are the main qualities of effective technical writing? (8) CO3

**OR**

- 3b) Write any four differences between a technical report and a research paper. (8) CO3

- 3c) Define a research proposal in detailed. (8) CO3

**OR**

- 3d) Write any four techniques to maintain originality and avoid plagiarism in research work. (8) CO3

**Question No. 4**

- 4a) Define Intellectual Property and differentiate it from physical property. (8) CO 4

**OR**

- 4b) Write the basic steps in the process of patenting an invention. (8) CO 4

- 4c) What is TRIPS? Mention its importance in global trade. (8) CO 4

**OR**

- 4d) What is PCT? Write its advantages for patent filing. (8) CO 4

**Question No. 5**

- 5a) What is patent infringement? Give one example. (8) CO5

**OR**

- 5b) Define licensing of patents and mention its types. (8) CO5
- 5c) Explain the administration of the patent system in India. (8) CO5

**OR**

- 5d) What is IPR protection for biological systems? Give one example. (8) CO5

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