



## MALNAD COLLEGE OF ENGINEERING, HASSAN

(An Autonomous Institution Affiliated to VTU, Belgaum)

DEPARTMENT OF ENGINEERING

Course Title	RESEARCH METHODOLOGY & INTELLECTUAL PROPERTY RIGHTS		
Course Code	23RIP	(L-T-P)C	(3-0-0) 3.0
Exam	3 Hrs.	Hours/Week	3
SEE	50 Marks	Total Hours	27L+0P

### Course Objectives

- To give an overview of technical research activities and patenting methodology.

**Course outcomes:** At the end of course, student will be able to:

#	Course Outcomes	Mapping to PO's	Mapping to PSO's
1.	Carry out Literature Review and write technical paper	2,3,4,11,12	-
2.	Describe the fundamentals of patent laws and the patent drafting	4, 11,12	-
3.	Procedure.	4, 11,12	-
4.	Elucidate the copyright laws and subject matters of copyright	11	-
5.	Elucidate the copyright laws and subject matters of copyright		

### Module-wise Breakdown

Module	Details	Hrs
1	<p>Module 1</p> <p>Introduction: Meaning of Research, Objectives of Engineering Research, and Motivation in Engineering Research, Types of Engineering Research. Ethics in Engineering Research: Ethics in Engineering Research Practice, Types of Research Misconduct, Ethical Issues Related to Authorship. Literature Review and Technical Reading, New and Existing Knowledge, Analysis and Synthesis of Prior Art , Bibliographic Databases, Web of Science, Google and Google Scholar, Effective Search: The Way Forward, Introduction to Technical Reading Conceptualizing Research, Critical and Creative Reading.</p>	10
2	<p>Module 2</p> <p>Introduction: Meaning of Research, Objectives of Engineering Research, and Motivation in Engineering Research, Types of Engineering Research. Ethics in Engineering Research: Ethics in Engineering Research Practice, Types of Research Misconduct, Ethical Issues Related to Authorship. Literature Review and Technical Reading, New and Existing Knowledge, Analysis and Synthesis of Prior Art , Bibliographic Databases, Web of Science, Google and Google Scholar, Effective Search: The Way Forward, Introduction to Technical Reading Conceptualizing Research, Critical and Creative Reading.</p>	10

3	<p>Module 3</p> <p>Introduction: Meaning of Research, Objectives of Engineering Research, and Motivation in Engineering Research, Types of Engineering Research. Ethics in Engineering Research: Ethics in Engineering Research Practice, Types of Research Misconduct, Ethical Issues Related to Authorship. Literature Review and Technical Reading, New and Existing Knowledge, Analysis and Synthesis of Prior Art , Bibliographic Databases, Web of Science, Google and Google Scholar, Effective Search: The Way Forward, Introduction to Technical Reading Conceptualizing Research, Critical and Creative Reading.</p>	10
---	--	----

### ***Prescribed Test Books***

SI No	Book Title	Authors	Edition	Publisher	Year
1	Engineering Research Methodology				

### ***Reference Books***

SI No	Book Title	Authors	Edition	Publisher	Year
1	Government of Karnataka				

### ***E-Resources***

#### **E-Books:**

1. <https://download.e-bookshelf.de/download/0012/0144/90/L-G-0012014490-0035363481.pdf>

#### **MOOC Courses:**

1. [https://onlinecourses.swayam2.ac.in/ntr24\\_ed08/preview](https://onlinecourses.swayam2.ac.in/ntr24_ed08/preview)

### ***Proposed Assessment Plan (for 50 marks of CIE):***

Tool	Remarks	Marks
Internals	Three tests conducted for 20 marks each and reduced to 10 marks	30
AAT	Details of activities to be conducted	20
	Total	50

[illegible]