



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	Module 1 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.	10
2	Module 2 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.	10

3	Module 3 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.	10
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Prescribed Test Books

SI No	Book Title	Authors	Edition	Publisher	Year
1	Engineering Research Methodology	Dipankar Deb, Rajeeb Dey, Valentina E, Balas		Published by NSS Cell	2019

Reference Books

SI No	Book Title	Authors	Edition	Publisher	Year
1	Government of Karnataka	activities reports and its manual.	-		2013

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

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



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Course Articulation Matrix