RESEARCH METHODOLOGY AND IPR

Lecture – Tutorial- Practical:	0-2-0	**Internal Marks:**	25
Credits:	2	**External Marks:**	75

Prerequisites:

Course Objectives:

The main objective of this course is to introduce the basic concepts in research methodology and Patents in Social science. This course addresses the issues inherent in selecting a research problem and discuss the techniques and tools to be employed in completing a research project. This will also enable the students to prepare report writing and framing Research proposals.

Course Outcomes

At the end of this course, students will be able to □

Understand research problem formulation. □

Analyse research related information □

Follow research ethics □

Understand that Computer, Information Technology, controls today's world but tomorrow world will be ruled by ideas, concept, and creativity. □

Understanding that when IPR would take such important place in growth of individuals & nation, it is needless to emphasis the need of information about Intellectual Property Right tobe promoted among students in general & engineering in particular. □

Understand that IPR protection provides an incentive to inventors for further research workand investment in R & D, which leads to creation of new and better products, and in turn brings about, economic growth and social benefits

Unit I-

Meaning of research problem, Sources of research problem, Criteria Characteristics of a good research problem, Errors in selecting a research problem, Scope and objectives of research problem. Approaches of investigation of solutions for research problem, data collection, analysis, interpretation, Necessary instrumentations

Unit II –

Effective literature studies approaches, analysis Plagiarism, Research ethics, Effective technical writing, how to write report, Paper Developing a Research Proposal, Format of research proposal, a presentation and assessment by a review committee

Unit III

Nature of Intellectual Property: Patents, Designs, Trade and Copyright. Process of Patenting and Development: technological research, innovation, patenting, development. International Scenario: International cooperation on Intellectual Property. Procedure for grants of patents, Patenting under PCT.

Unit IV

Patent Rights: Scope of Patent Rights. Licensing and transfer of technology. Patent information and databases. Geographical Indications

Unit IV

New Developments in IPR: Administration of Patent System. New developments in IPR; IPR of Biological Systems, Computer Software etc. Traditional knowledge Case Studies, IPR and IITs.

REFERENCES

(1) Stuart Melville and Wayne Goddard, "Research methodology: an introduction for science & engineering students'"

(2) Wayne Goddard and Stuart Melville, "Research Methodology: An Introduction"

(3) Ranjit Kumar, 2nd Edition, "Research Methodology: A Step by Step Guide for beginners"

(4) Halbert, "Resisting Intellectual Property", Taylor & Francis Ltd ,2007.

(5) Mayall, "Industrial Design", McGraw Hill, 1992.

(6) Niebel, "Product Design", McGraw Hill, 1974.

(7) Asimov, "Introduction to Design", Prentice Hall, 1962.

(8) (8) Robert P. Merges, Peter S. Menell, Mark A. Lemley, " Intellectual Property in New Technological Age", 2016.

(9) T. Ramappa, "Intellectual Property Rights Under WTO", S. Chand, 2008