



RGM COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

NANDYAL-518501, KURNOOL (Dt.), A.P., INDIA

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M.Tech, I-Sem (VLSID)

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RESEARCH METHODOLOGY AND IPR

(Mandatory Learning Course)

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 to be promoted among students in general & engineering in particular.
- ❖ Understand that IPR protection provides an incentive to inventors for further research work and investment in R & D, which leads to creation of new and better products, and in turn brings about, economic growth and social benefits

UNIT 1:

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 2:

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 3:

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.

WORLD BANK FUNDED INSTITUTION

Offering B.Tech., M.Tech., M.B.A., M.C.A and Ph.D. Programs

Approved by AICTE, New Delhi; Affiliated to JNTUA, Ananthapuramu

Accredited by NBA of AICTE (B.Tech. in Civil, EEE, ECE & Mech. Engg)., Accredited by NAAC of UGC with "A⁺" Grade

UGC Conferred CPE status (College with Potential for Excellence)., APSSDC – SIEMENS-TSDI (Technical Skill Development Institute)

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UNIT 4:

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

UNIT 5:


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.

TEXT BOOKS:

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.

REFERENCE BOOKS:

1. Mayall, "Industrial Design", McGraw Hill, 1992.
2. Niebel, "Product Design", McGraw Hill, 1974.
3. Asimov, "Introduction to Design", Prentice Hall, 1962.
4. Robert P. Merges, Peter S. Menell, Mark A. Lemley, "Intellectual Property in New
5. Technological Age", 2016.
6. T. Ramappa, "Intellectual Property Rights Under WTO", S. Chand, 2008


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