

Branch Name:	Bachelor of Computer Application (BCA)
Program Code:	CS101
Course Title:	Intellectual Property Rights as technical research
Course Code:	18-CAM406-4C
Pre-requisite Course:	Basic understanding of research methodology, innovation processes, computer applications, and general awareness of legal and ethical aspects related to academic and technical research.

Course Objective (CO):

This course is intended to make the students:

- To introduce students to the fundamentals of Intellectual Property Rights (IPR).
- To understand the importance of IPR in technical research and innovation.
- To familiarize students with patent drafting, filing procedures, and copyright laws.
- To develop awareness about protection of software, databases, and digital content.
- To understand legal and ethical implications of IPR in research and industry.

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)				
Lecture (L)	Tutorial (T)	Practical (P)	Credit	Theory (Marks)		Practical (Marks)		Total (Marks)
				University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
3	--	2	5	50	25	-	25	100

Course Contents:

Sr. No	Topics	Total Hours	Weightage (%)
1.	Introduction to Intellectual Property Rights: Meaning and Nature of IPR; Types of IPR – Patents, Copyrights, Trademarks, Industrial Design, Geographical Indications; Need and Importance of IPR in Research & Development; International Organizations – WIPO, WTO; TRIPS Agreement; Role of IPR in Innovation and Economic Development; IPR Policies in India; Overview of National IPR Policy	09	20
2.	Patents and Technical Research: Patentable Subject Matter; Patent Search Techniques; Patent Drafting Structure; Filing Procedure in India; Role of Patent Office; Patent Infringement and Remedies; Case Studies in Engineering & IT; Patent Cooperation Treaty (PCT); Prior Art Search; Patent Documentation and Claims Writing Basics	09	20
3.	Copyright and Software Protection: Copyright Law in India; Protection of Computer Programs; Database Protection; Open Source Licensing; Creative Commons; Plagiarism in Research; Fair Use Policy; Digital Rights Management (DRM); Software Licensing Models; Copyright Infringement Cases in IT Industry	09	20
4.	Trademarks, Designs and Trade Secrets: Trademark Registration Process; Industrial Design Protection; Trade Secrets in IT Industry; Cyber Law and IPR; Protection of Domain Names; Case Studies; Brand Valuation Concepts; Geographical Indications in India; Confidentiality Agreements (NDAs)	09	20
5.	IPR in Academic & Industrial Research: Research Ethics; Technology Transfer; Commercialization of Research; Startup & Innovation Policy; Licensing and Assignment; IPR Management in Organizations; Incubation Centers and Innovation Hubs; Industry-Academia Collaboration Models; IPR Audit and Portfolio Management	09	20

Course Learning Outcomes (CLO):

At the end of this course, the student would be able

- **CLO1:** Explain fundamental concepts of Intellectual Property Rights.
- **CLO2:** Analyze patentability criteria and conduct basic patent search.
- **CLO3:** Interpret copyright and software protection laws.
- **CLO4:** Evaluate IPR issues in academic and industrial research.
- **CLO5:** Apply ethical and legal principles in technical research documentation.

List of Text Book:

- P. Narayanan – *Intellectual Property Law*
- V.K. Ahuja – *Law Relating to Intellectual Property Rights*
- W.R. Cornish – *Intellectual Property: Patents, Copyright, Trademarks and Allied Rights*

List of Reference Book:

- N.S. Gopalakrishnan – *Intellectual Property Rights and the Law*
- B.L. Wadehra – *Law Relating to Patents, Trademarks & Copyright*

E-Resource / Web Links:

- <https://ipindia.gov.in>
- <https://www.wipo.int>
- <https://www.wto.org>
- <https://nptel.ac.in>

Practical List (Open-Source Platforms Only)

1. Patent Search using Indian Patent Advanced Search System (InPASS) – Demonstration
2. Case Study Analysis of Patent Infringement
3. Drafting a Sample Patent Abstract
4. Copyright Registration Procedure Study
5. Trademark Search and Filing Procedure Overview
6. Plagiarism Checking using Open-Source Tools
7. Preparation of Mini Technical Research Report with IPR Analysis

Mapping of CLO with PO and PSO

Course Learning Outcomes	Program Outcomes (POs)												Program Specific Outcomes (PSOs)		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2	PSO3
CLO1		M				H	M		M					M	
CLO2	M	H		H	H	M			M				M	H	
CLO3		M				H			M	M			M	M	
CLO4		H	M	H	H	H	M	M	M	M	M	M	H	H	M
CLO5		M	M	M	M	H	H	M	H	H	H	H	M	H	H

H: High, M: Medium, L: Low