

**III B.Tech – I Semester
(17HS501) IPR & PATENTS**

Int. Marks	Ext. Marks	Total Marks	L	T	P	C
0	0	0	2	-	-	-

Pre-Requisites: None

Course Objectives:

- To know the importance of Intellectual property rights, which plays a vital role in advanced Technical and Scientific disciplines.
- Imparting IPR protection and regulations for further advancement, so that the students can familiarize with the latest developments.

UNIT-I: Introduction to Intellectual Property Rights (IPR)

Concept of Property - Introduction to IPR – International Instruments and IPR - WIPO – TRIPS – WTO - Laws Relating to IPR – IPR Tool Kit – Protection and Regulation - Copyrights and Neighboring Rights – Industrial Property–Patents-Agencies for IPR Registration Traditional Knowledge–Emerging Areas of IPR-Layout Designs and Integrated Circuits – Use and Misuse of Intellectual Property Rights.

UNIT-II: Copyrights and Neighboring Rights

Introduction to Copyrights –Principles of Copyright Protection–Law Relating to Copyrights - Subject Matters of Copyright – Copyright Ownership – Transfer and Duration – Right to Prepare Derivative Works–Rights of Distribution–Rights of Performers–Copyright Registration – Limitations – Infringement of Copyright – Relief and Remedy – Case Law –Semiconductor Chip Protection Act.

UNIT-III: Patents

Introduction to Patents -Laws Relating to Patents in India– Patent Requirements – Product Patent and Process Patent - Patent Search - Patent Registration and Granting of Patent -Exclusive Rights – Limitations - Ownership and Transfer — Revocation of Patent – Patent Appellate Board - Infringement of Patent – Compulsory Licensing — Patent Cooperation Treaty– New developments in Patents– Software Protection and Computer related Innovations.

UNIT-IV: Trademarks

Introduction to Trademarks – Laws Relating to Trademarks – Functions of Trademark – Distinction between Trademark and Property Mark – Marks Covered under Trademark Law – Trade Mark Registration–Trade Mark Maintenance–Transfer of rights-Deceptive Similarities- Likelihood of Confusion - Dilution of Ownership – Trademarks Claims and Infringement– Remedies – Passing Off Action.

UNIT-V: Trade Secrets

Introduction to Trade Secrets–General Principles-Laws Relating to Trade Secrets-Maintaining Trade Secret–Physical Security–Employee Access Limitation–Employee Confidentiality Agreements – Breach of Contract –Law of Unfair Competition – Trade Secret Litigation– Applying State Law.

UNIT-VI: Cyber Law and Cyber Crime

Introduction to Cyber Law – Information Technology Act 2000 - Protection of Online and Computer Transactions - E-commerce - Data Security – Authentication and Confidentiality - Privacy-Digital Signatures–Certifying Authorities-Cyber Crimes-Prevention and Punishment– Liability of Network Providers.

Course Outcomes:

After successful completion of the course, the students can be able to:

S. No	Course Outcome	BTL
1.	Understand patent rights, human rights etc.	L1
2.	Know about professional rights and responsibilities of an engineer.	L3
3.	Analyze the safety and risk benefits in an industry.	L4
4.	Acquire knowledge about various roles of engineer in involving various global issues.	L2
5.	Apply ethical principles to resolve situations and its patents	L2
6.	Aware of various case studies understanding of applying intellectual patent rights in engineering and technology	L3

Correlation of COs with POs & PSOs:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO 1	-	-	-	-	-	2	2	3		2	-	3	-	-
CO 2	-	-	-	-	-	2	2	3		2	-	1	-	-
CO 3	-		-	-	-	2	3	3		1	-	1	-	-
CO 4	-	-	-	-	-	2	3	-		-	-	-	-	-
CO 5	-	-	-	-	-	3	1	3		2		1	-	-
CO 6		-	-		-	3	2	3		3		2	-	-

Text Books:

1. Intellectual Property Rights (Patents & Cyber Law), Dr. A. Srinivas. Oxford University Press, New Delhi.
2. Deborah E. Bouchoux: Intellectual Property, Cengage Learning, New Delhi.

Reference Books:

1. Prabhuddha Ganguli: Intellectual Property Rights, Tata Mc-Graw-Hill, New Delhi
2. Richard Stim: Intellectual Property, Cengage Learning, New Delhi.
3. Kompal Bansal & Parishit Bansal Fundamentals of IPR for Engineers, B. S. Publications(Press). Cyber Law-Texts & Cases, South-Western's Special Topics Collections.
4. R.Radha Krishnan, S.Balasubramanian: Intellectual Property Rights, Excel Books. New Delhi.
5. M. Ashok Kumar and Mohd Iqbal Ali: Intellectual Property Rights, Serials Pub.