



# GUJARAT TECHNOLOGICAL UNIVERSITY

**Bachelor of Engineering**

**Subject Code: 3171514**

**Semester –7**

**Subject Name: Intellectual Property Systems**

**Type of course:** Professional Elective

**Prerequisite:** -

**Rationale:** The course is designed to give fundamental aspects of intellectual property systems to the students who are going to play major role in development of innovative industries.

### Teaching and Examination Scheme:

Teaching Scheme			Credits C	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
			ESE (E)	PA (M)	ESE (V)	PA (I)		
3	0	2	4	70	30	30	20	150

### Content:

Sr. No.	Content	Total Hrs
1	<b>Overview of Intellectual Property:</b> Need of intellectual property right (IPR), IPR types, Patent, Copyright, Trade Mark, Design, Geographical Indication, Plant Varieties and Layout Design – Genetic Resources and Traditional Knowledge – Trade Secret IPR in India, Genesis and development, IPR abroad, India's new national IP Policy-2016, Steps of Govt. of India for promoting IPR, Govt. schemes in IPR, Career opportunities in IP, IPR in current scenario with case studies, International treaties on Patent (Paris convention, Patent co-operation treaty, Budapest treaty), International treaties on Trademark (Paris convention, Madrid agreement), International treaties on copyright and related rights (Berne convention, Universal copyright convention, WIPO copyright treaty, Rome convention, WIPO performance and producers of phonogram treaty), International treaties on Industrial Design and Integrated Circuit (Paris convention, Hague agreement, Locarno agreement), Treaty on WIPO, the TRIPS Agreement-1994	9
2	<b>Patents:</b> Elements of Patentability, Novelty, Non-Obviousness (Inventive Steps), Industrial Application, Non-patentable subject matter, Patent Act 1970 – amendments of 1999, 2000, 2002 and 2005, Patent drafting, Registration procedure, working of patents and compulsory license, Rights and duties of patentee, Assignment and license, Restoration of lapsed patents, Surrender and revocation of patents, Infringement, Remedies and penalties, Patent office and Appellate Board	8
3	<b>Copyright:</b> Subject matter of copyright, original literary, dramatic, musical, artistic works, cinematograph films and sound recordings, Registration procedure, term of protection, ownership of copyright, Assignment and license of copyright, Infringement, Remedies and Penalties, Related rights, Distinction between related rights and copyrights	8
4	<b>Trademarks:</b> Different kinds of marks (brand names, logos, signatures, symbols, well known	6



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	marks, certification marks and service marks), Categories of Trademark (Certification mark, Collective mark and Well known mark and Non-conventional marks), Non-registrable trademarks, Registration of trademarks, Rights of holder and assignment and licensing of marks, Infringement and passing off, Remedies and penalties, Trademarks registry and appellate board, International legal instruments on trademarks	
5	<p><b>Other forms of IP:</b></p> <p><b>Industrial Design:</b> meaning and concept of novel and original, Design act 2000, Procedure for registration, effect of registration and term of protection</p> <p><b>Geographical indication:</b> meaning and difference between GI and trademarks, procedure for registration, effect of registration and term of protection, Infringement, Remedies and Penalties</p> <p><b>Plant variety protection:</b> meaning and benefit sharing and farmers' rights, procedure for registration, effect of registration and term of protection</p> <p><b>Layout Design protection:</b> meaning, procedure for registration, effect of registration and term of protection</p> <p><b>Trade secret:</b> meaning, criteria for protection</p>	8
6	<b>Information Technology and IPR:</b> Digital signature, Digital signature certificates, Cyber regulations appellate tribunal, Offences, Internet and the Protection of Software Copyright, Trademark issues in cyber space, The ICANN uniform domain name dispute resolution policy, Cybercrimes and IPR	6

### Suggested Specification table with Marks (Theory):

Distribution of Theory Marks					
R Level	U Level	A Level	N Level	E Level	C Level
20	40	40	0	0	0

**Legends: R: Remembrance; U: Understanding; A: Application, N: Analyze and E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)**

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.

### Reference Books:

1. Intellectual Property Rights: Protection and Management, Nithyananda K V., Cengage Learning India Private Limited.
2. Intellectual Property Rights, Neeraj, P. & Khusdeep D., PHI learning Private Limited.
3. Law relating to Intellectual Property Rights, Ahuja, V K., Lexis Nexis.
4. WIPO Intellectual property Handbook, WIPO



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## **Course Outcomes:**

Sr. No.	CO statement	Marks % weightage
CO-1	To apply intellectual property law principles to real problems and analyze the social impact of intellectual property law and policy.	20
CO-2	To explain the purpose and scope of national and international laws related to patents and judicial decisions on patents; to apply skills of critical thinking, reading, understanding, explaining and applying patents related statutes.	18
CO-3	To explain the purpose and scope of national and international laws related to copyrights and judicial decisions on copyrights; to apply skills of critical thinking, reading, understanding, explaining and applying copyrights related statutes.	18
CO-4	To explain the purpose and scope of national and international laws related to trademarks and judicial decisions on trademarks; to apply skills of critical thinking, reading, understanding, explaining and applying trademarks related statutes.	13
CO-5	To explain the purpose and scope of national and international laws related to industrial design, GI, plant variety, layout design, trade secret and judicial decisions on them; to apply skills of critical thinking, reading, understanding, explaining and applying the statutes related to said IPs.	18
CO-6	To explain requirement of information technology in IPR and related IPR	13

## **List of Experiments:**

Case studies on various IPR, patent drafting exercise, report writing on understanding of various international treaties, etc.

## **Major Equipment:**

### **List of open source software/learning website:**

<http://www.ipindia.nic.in/>

<https://www.wipo.int/about-ip/en/>

<http://cipam.gov.in/>

[uspto.gov](http://uspto.gov)