



Department of Information Technology		LP: GE18051
B.E/B.Tech/M.E/M.Tech : B.E/B.Tech (CS & IT)	Regulation: 2018A	Rev. No: 00
PG Specialisation : --		Date:
Sub. Code / Sub. Name : GE18051- Intellectual Property Rights		20.01.2025
Unit : 1		

Unit Syllabus:**TECHNOLOGICAL INNOVATIONS**

The process of technological innovation - factors contributing to successful technological innovation - the need for creativity and innovation - problem solving and creativity through brain storming - different techniques - Selection criteria - screening ideas for new products - evaluation techniques. Protection of IP as a factor in R&D and few case studies.

Objective:

To understand the process and need for protecting technology innovations through Intellectual Property Rights.

Session No *	Topics to be covered	Ref	Teaching Aids
1	The process of technological innovation	Textbook 1, Reference 3	PPT
2	Factors contributing to successful technological innovation	Textbook 1	PPT
3	The need for creativity and innovation	Textbook 3, Reference 3	PPT
4	Problem-solving and creativity through brainstorming	Textbook 3	PPT
5	Techniques for creativity	Textbook 3	PPT
6	Selection criteria and screening ideas for new products	Textbook 1	PPT
7	Evaluation techniques	Textbook 3	PPT
8	Protection of IP as a factor in R&D	Textbook 2	PPT
9	Case studies on successful technological innovations	Reference 1	PPT
10	Wrap-up and review	Textbook 1, Reference 3	PPT
Content beyond syllabus covered (if any):			

* Session duration: 50 minutes



Sub. Code / Sub. Name: **GE18051– Intellectual Property Rights**

Unit : II

Unit Syllabus:

INTRODUCTION TO IPR & RELATED AGREEMENTS AND TREATIES

Types of IP: Patents, Trademarks, Copyright & Related Rights, Industrial Design, Traditional Knowledge, Geographical Indications. History of GATT & TRIPS Agreement; Madrid Agreement; Hague Agreement; WIPO Treaties; Budapest Treaty; PCT; Indian Patent Act 1970 & recent amendments.

Objective:

To understand the process and need for protecting technology innovations through Intellectual Property Rights.

Session No *	Topics to be covered	Ref	Teaching Aids
11	Types of IP: Patents, Trademarks, Copyright, and Related Rights	Textbook 1	PPT
12	Industrial Design, Traditional Knowledge, Geographical Indications	Textbook 1	PPT
13	History of GATT & TRIPS Agreement	Reference 1	PPT
14	Madrid Agreement, Hague Agreement, WIPO Treaties	Reference 1	PPT
15	Budapest Treaty, PCT	Reference 1	PPT
16	Indian Patent Act 1970 & recent amendments	Textbook 2	PPT
17	Summary of international agreements		PPT
18	Unit review and key takeaways		PPT
Content beyond syllabus covered (if any):			

* Session duration: 50 mins



Sub Code / Sub Name: GE18051– Intellectual Property Rights

Unit : III

Unit Syllabus:

BASICS OF PATENTS AND CONCEPT OF PRIORART

Introduction to Patents; Types of patent applications: Ordinary, PCT, Conventional, Divisional and Patent of Addition; Specifications: Provisional and complete; Forms and fees Invention in context of “prior art”; Patent databases; Searching International Databases; Country-wise patent searches, USPTO, EPO, PATENTScope (WIPO), IPO, etc.)

Objective:

To understand the process and need for protecting technology innovations through Intellectual Property Rights.

Session No *	Topics to be covered	Ref	Teaching Aids
19	Introduction to patents	Textbook 1	PPT
20	Types of patent applications	Textbook 1, Reference 2	PPT
21	Specifications: Provisional and complete	Reference 1	PPT
22	Forms and fees	Textbook 1	PPT
23	Invention in the context of “prior art”	Reference 1, Online resources	PPT
24	Patent databases: Overview	Textbook 1	PPT
25	Searching international databases	Textbook 1, Reference 1	PPT
26	Country-wise patent searches	-	PPT
27	USPTO, EPO, PATENTScope (WIPO), IPO	Reference 1	PPT
28	Review and Q&A on patent databases	Textbook 1	PPT
Content beyond syllabus covered (if any):			



* Session duration: 50 minutes

Sub Code / Sub Name: GE18051- Intellectual Property Rights
Unit : IV

Unit Syllabus: PATENT FILING PROCEDURES

National & PCT filing procedure; Time frame and cost; Status of the patent applications filed; Precautions while patenting – disclosure/non-disclosure; Financial assistance for patenting - introduction to existing schemes Patent licensing and agreement Patent infringement- meaning, scope, litigation, case studies

Objective:

To understand the process and need for protecting technology innovations through Intellectual Property Rights.

Session No *	Topics to be covered	Ref	Teaching Aids
29	National & PCT filing procedure	Textbook 1	PPT
30	Time frame and cost	Textbook 1	PPT
31	Status of the patent applications filed	Textbook 2	PPT
32	Precautions while patenting: Disclosure/Non-disclosure	Textbook 1	PPT
33	Financial assistance for patenting	Textbook 2	PPT
34	Introduction to existing schemes	Textbook 1	PPT
35	Patent licensing and agreements	Reference 2	PPT
36	Patent infringement: Meaning, scope, and litigation	Reference 1	PPT
37	Case studies on patent filing and litigation	Reference 1	PPT
Content beyond syllabus covered (if any): IoS			

* Session duration: 50 minutes



Sub. Code / Sub. Name: **GE18051– Intellectual Property Rights**

Unit : **V**

Unit Syllabus:

PATENT RIGHTS AND NEW DEVELOPMENTS IN IPR

Scope of Patent Rights. Licensing and transfer of technology. Patent information and databases. Geographical Indications. New Developments in IPR: Administration of Patent System.

Objective:

To understand the process and need for protecting technology innovations through Intellectual Property Rights.

Session No *	Topics to be covered	Ref	Teaching Aids
38	Scope of patent rights	Textbook 1	PPT
39	Licensing and transfer of technology	Reference 2	PPT
40	Patent information and databases	Textbook 1	PPT
41	Geographical Indications	Textbook 1	PPT
42	New developments in IPR	Reference 1	PPT
43	Administration of the patent system	Reference 1	PPT
44	Summary and Q&A on Unit 5		PPT
45	Course review and overall summary		PPT
Content beyond syllabus covered (if any):			

* Session duration: 50 mins



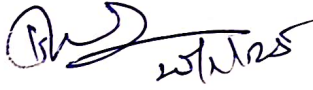
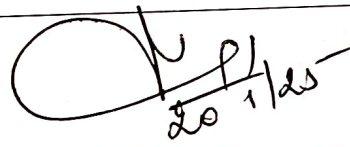
Sub. Code / Sub. Name: **GE18051– Intellectual Property Rights**

TEXTBOOKS:

1. Ramappa, T. "Intellectual Property Rights Under WTO", S. Chand, 2008.
2. BAREACT, Indian Patent Act 1970 Acts & Rules, Universal Law Publishing Co. Pvt. Ltd., 2007.
3. Adair, J. "Effective Innovation", 1st Ed., Macmillan Publishing, 2003

REFERENCES:

1. Robert P. Merges, Peter S. Menell and Mark A. Lemley, "Intellectual Property in New Technological Age", Aspen Publishers, 2016.
2. Kankanala C., "Genetic Patent Law & Strategy", 1st Edition, Manupatra Information Solution Pvt. Ltd., 2007.
3. Nystrom, H., "Creativity and Innovation", 2nd Ed., John Wiley & Sons, 1996.

	Prepared by	Approved by
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Designation	Prof & AHoD/INT	HoD/INT
Date	20.01.2025	20.01.2025
Remarks*:		
Remarks* :		

* If the same lesson plan is followed in the subsequent semester/year it should be mentioned and signed by the Faculty and the HOD