

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, ANANTAPUR
Pre-Ph.D. Syllabus (Applicable for 2015 Admitted Batch)

(15PH00001) INTELLECTUAL PROPERTY RIGHTS

UNIT - I:

Understanding and Overview of the IPR Regime: Introduction, types of intellectual property- Industrial property, Artistic and Literary Property, Sui Generis systems. Need for intellectual property rights. Rationale for protection of IPR. Impact of IPR on development, health, agriculture and genetic resources. IPR in India – Genesis and Development. IPR in abroad- Some important examples of IPR. International organizations, agencies and treaties,

UNIT - II:

Patents- Trips Definition, kind of inventions protected by patent-Patentable and Non patentable inventions, Process and product patent, double patent – patent of addition. Legal requirements for patents – Granting of patent - Rights of a patent-exclusive right. Patent application process: Searching a patent- Drafting of a patent- Filing of a patent- Types of patent applications- Patent document: specification and claims. Management of IP Assets and IP portfolio – Commercial exploitation of IP- Assignment, licensing, infringement. The different layers of the international patent system: national, regional and international options.

Unit -III:

Trademarks- Rights of trademark- kind of signs used as trademarks-types, purpose and functions of a trademark, trademark protection, trademark registration, acquisition of trade mark rights, protectable matter, selecting and evaluating trade mark, trade mark registration processes.

UNIT - IV:

Copyrights- Rights and protection covered by copyright - Law of copy rights: Fundamental of copy right law, originality of material, rights of reproduction, rights to perform the work publicly, copy right ownership issues, obtaining copy right registration, notice of copy right, international copy right law. Infringement of Copyright under Copyright Act

Related Rights - Distinction between related rights and copyright. Celebrity rights, Academic integrity or Plagiarism: An Intellectual Theft

The Role and Liabilities of IPRs in India - Cyberlaw issues: Criminal law, data safety, online privacy, health privacy, freedom of expression and human rights, net neutrality, national security.

UNIT - V:


Geographical Indication of Goods: Types, why and how GI need protection and GI laws, Indian GI act.

Traditional Knowledge: Indigenous, medicinal, bioprospecting knowledge Examples, Need for protection, positive protection, defensive protection, legal aspects.

Unit-VI:

Industrial Designs: protection, kind of protection is provided by industrial designs. Integrated Circuits


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Trade Secrets: Trade secret law, determination of trade secret status, liability for misappropriations of trade secrets, protection for submission, trade secret litigation.

Enforcement Of Intellectual Property Rights: Infringement of intellectual property right, UNFAIR COMPETITION: relationship between unfair competition and intellectual property law, misappropriation right of publicity, false advertising.

UNIT- VII:

Technological and Legal Developments in Intellectual Property

Computer Programs: Brief History of the Protection of Computer Programs, Protection of Computer Programs under Patents or under Copyright, International Norms Concerning Copyright Protection of Computer Programs, National Legislation on the Protection of Computer Programs, Creation and Use of Works by Means of Computers, An Overview of Indian Copyright Software, EULA, Infringement, remedies. Databases, Data Protection Law In Respect of Information Technology Enabled Services, cyber security strategies-IT law, cybersquatting-Domain names

Biotechnology: Adoption and Dissemination, Need for Protection, Existing Protection, New Plant Varieties: protection, need, laws, benefits, Case studies of Biotechnology, Patenting of Micro-Organism: An Overview.

Reprography and Intellectual Property, Audio and Video Recording,

Communication Technologies: Satellites, Cable Distribution, Digital Distribution Systems, The Internet and Electronic Commerce

Unit VIII:

Institutional Capacity: IP Policy Making And Legislation, IPR Administration And Institutions, Examination Versus Registration Systems, Regional or International Co-operation, Costs And Revenues: The Cost of an IP system, Meeting the Costs, Regulating Intellectual Property Rights, Technical Assistance And Capacity Building, International Standard Setting: WIPO and WTO. **The Trips Agreement:** Assisting Developing Countries to Implement TRIPS, Timetable for Implementing TRIPS, IP in Bilateral And Regional Agreements

TEXT BOOKS & REFERENCES:

- 1 Fundamentals of IP for Engineers: K.Bansal & P.Bansal.
- 2 Intellectual property right, Deborah, E. Bouchoux, Cengage learning.
- 3 Intellectual property right - Unleashing the knowledge economy, Prabuddha Ganguli, Tata McGraw Hill Publishing Company Ltd.
- 4 Electronic resource guide ERG published online by the American Society of International Law
- 5 Intellectual Property Rights and Development Policy: Report of the Commission on Intellectual Property Rights, London September 2002 (Web resource)
- 6 WIPO Intellectual Property Handbook: Policy, Law and Use (Web resource)
- 7 Intellectual Property Rights: NPTEL Resource


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(Common Pre-Ph.D paper for all Ph.d/M.Phil Students admitted from 2011-12 onwards)

(11PH00001)Research Methodology

Unit-I:Meaning, Objective and Motivation in Research: Types of Research, Research Approaches, Research Process, Validity and Reliability in Research

Unit-II:Research Design: Features of Good Design, Types of Research Design, Basic Principles of Experimental Design

Unit-III:Sampling Design: Steps in Sampling Design, Characteristics of a Good Sample Design, Random Samples and Random Sampling Design

Unit-IV:Measurement and Scaling Techniques: Errors in Measurement, Tests of Sound Measurement, Scaling and Scale Construction Techniques, Forecasting Techniques, Time Series Analysis, Interpolation and Extrapolation.

Unit-V:Methods of Data Collection: Primary Data, Questionnaire and Interviews, Collection of Secondary Data, Cases and Schedules.

Professional Attitude and Goals, Concept of Excellence, Ethics in Science and Engineering, Some Famous Frauds in Science (Case Studies).

Unit-VI:Correlation and Regression Analysis, Method of Least Squares, Regression Vs. Correlation, Correlation Vs. Determination, Types of Correlation and Their Specific Applications.

Unit VII:Statistical Interference: Tests of Hypothesis, Parametric Vs. Non-Parametric Tests, Procedure for Testing Hypothesis, Use of Statistical Techniques for Testing Hypothesis, Sampling Distribution, Sampling Theory, Chi-Square Test, Analysis of Variance and Covariance, Multivariable Analysis.

Unit VIII:Interpretation of Data and Report Writing, Layout of a Research Paper, Techniques of Interpretation.

Making Scientific Presentation at Conferences and Popular Lectures to Semi Technical Audience, Participating in Public Debates on Scientific Issues.

Books:

1. Research Methodology: Methods And Techniques - C. R. Kothari, 2nd Edition, New Age International Publishers.
2. Research Methodology And Statistical Tools – P. Narayana Reddy And G.V.R.K. Acharyulu, 1st Edition, Excel Books, New Delhi, 2008.
3. Statistical Methods – S. P. Gupta, S. Chand & Sons, New Delhi, 2005.


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JAWAHAR LAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR
ANANTHAPURAMU-515 002 (A.P)
RESEARCH & DEVELOPMENT

Prof.C. SHOBA BINDU,
Ph.D

Prof. of CSE and
Director.

Re.No.R & D /Course work/2019-20 Dt.10.06.2021.

IMPORTANT CIRCULAR/NOTICE

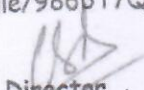
It is hereby informed to all the Research Scholars admitted during 2019-20 and 2020-21 Academic year that the Course work for **Research Methodology** is scheduled as follows. As per the regulations the attendance for this programme is mandatory.

Date	Timings
26-6-2021 Saturday	09.00am to 11.00am 11.15am to 01.15pm
27-6-2021 Sunday	09.00am to 11.00am 11.15am to 01.15pm
03-7-2021 Saturday	09.00am to 11.00am 11.15am to 01.15pm
04-7-2021 Sunday	09.00am to 11.00am 11.15am to 01.15pm
10-7-2021 Saturday	09.00am to 11.00am 11.15am to 01.15pm
11-7-2021 Sunday	09.00am to 11.00am 11.15am to 01.15pm

Note:

- 1) The students who are admitted during i.e 2014-15, 2015-16, 2016-2017, 2017-18 & 2018-19 and not attended the **Research Methodology** course work may also attend the program with the Permission of Director, R&D.

The candidates should register for the course through, <https://forms.gle/986bT7QFkDgjXXUz6>


Director
Research & Development


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Prof. of CSE and Director.

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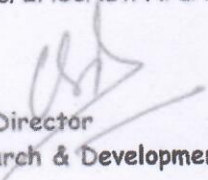
IMPORTANT CIRCULAR/NOTICE

It is hereby informed to all the Research Scholars admitted during 2019-20 and 2020-21 Academic year that the Course work for **Intellectual Property Rights** is scheduled as follows. As per the regulations the attendance for this programme is mandatory.

Date	Timings
17-7-2021 Saturday	09.00am to 11.00am 11.15am to 01.15pm
18-7-2021 Sunday	09.00am to 11.00am 11.15am to 01.15pm
24-7-2021 Saturday	09.00am to 11.00am 11.15am to 01.15pm
25-7-2021 Sunday	09.00am to 11.00am 11.15am to 01.15pm
31-7-2021 Saturday	09.00am to 11.00am 11.15am to 01.15pm
01-8-2021 Sunday	09.00am to 11.00am 11.15am to 01.15pm

Note:

- 1) The students who are admitted during i.e 2014-15, 2015-16, 2016-2017, 2017-18 & 2018-19 and not attended the **Intellectual Property Rights** course work may also attend the program with the Permission of Director, R&D.
The candidates should register for the course through, <https://forms.gle/2H3cNbvPNPuPZPwJ9>


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