

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING - CYBER SECURITY

Lesson Plan & Work-done Diary for AY: 2026-27, ODD Semester

Course with Code: Research Methodology & IPR- BRMK557				Faculty: Prof. Yogesh N			Semester & Section: V	
Class No.	Date Planned (DD/MM)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
MODULE - 1								
1		Introduction to the course	PPT	1				
2		Meaning of Research, Objectives of Engineering Research	PPT	2				
3		Motivation in Engineering Research, Types of Engineering Research	PPT	3				
4		Finding and Solving a Worthwhile Problem	PPT	4				
5		Ethics in Engineering Research, Ethics in Engineering Research Practice	PPT	5				
6		Types of Research Misconduct, Ethical Issues Related to Authorship	PPT	6				
7		Activity: Identifying any 5 research organizations, the type of research carried out and their research objectives	PPT	7				
8		Revision Session & Module 1 Quiz	PPT	8				

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MODULE - 2								
1		New and Existing Knowledge, Analysis and Synthesis of Prior Art Bibliographic Databases	PPT	1				
2		Web of Science, Google and Google Scholar, Effective Search: The Way Forward	PPT	2				
3		Introduction to Technical Reading, Conceptualizing Research, Critical & Creative Reading, Taking Notes while Reading, Reading Mathematics & Algorithms, Reading a Datasheet	PPT	3				
4		Giving Credit Wherever Due, Citations: Functions and Attributes, Impact of Title & Keywords on Citations	PPT	4				
5		Knowledge Flow through Citation, Citing Datasets, Styles for Citations	PPT	5				
6		Acknowledgments and Attributions, What Should Be Acknowledged, Acknowledgments in, Books Dissertations, Dedication or Acknowledgments	PPT	6				
7		Activity: Review literature on a given topic, take notes and summarize the review	PPT	7				
8		Revision Session & Module 2 Quiz	PPT	8				

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MODULE - 3								
1		Role of IP in Economic & Cultural development of Society, IP Governance, IP as a Global Indicator of Innovation	PPT	1				
2		Origin of IP History of IP in India, Major Amendments in IP Laws & Acts in India, Conditions for Obtaining a Patent Protection, To Patent/Not to Patent an Invention	PPT	2				
3		Rights Associated with Patents, Enforcement of Patent Rights, Inventions Eligible for Patenting, Non-Patentable Matters, Patent Infringements, Avoid Public Disclosure of an Invention before Patenting, Process of Patenting	PPT	3				
4		Prior Art Search, Choice of Application to be Filed, Patent Application Forms, Jurisdiction of Filing Patent Application, Publication	PPT	4				
5		Pre-grant Opposition, Examination, Grant of a Patent, Validity of Patent Protection, Post-grant Opposition, Commercialization of a Patent	PPT	5				
6		Need for a Patent Attorney/Agent, Can a Worldwide Patent be Obtained? Do I Need First to File a Patent in India? Patent Related Forms, Fee Structure	PPT	6				
7		Types of Patent Applications, Commonly Used Terms in Patenting, National Bodies Dealing with Patent Affairs, Utility Models	PPT	7				
8		Activity: Given a set of inventions, identify if they are patentable or not. If they are patentable, identify the type of application to be filed and the jurisdiction, Module 3 Quiz	PPT	8				

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MODULE - 4								
1		Classes of Copyrights, Criteria for Copyright, Ownership of Copyright, Copyrights of the Author, Copyright Infringements, Copyright Infringement is a Criminal Offence, Copyright Infringement is a Cognizable Offence, Fair Use Doctrine	PPT	1				
2		Copyrights & Internet, Non-Copyright Work, Copyright Registration, Judicial Powers of the Registrar of Copyrights, Fee Structure, Copyright Symbol. Validity of Copyright, Copyright Profile of India, Copyright and the word 'Publish'	PPT	2				
3		Transfer of Copyrights to a Publisher, Copyrights and the Word 'Adaptation', Copyrights and the Word 'Indian Work', Joint Authorship	PPT	3				
4		Copyright Society, Copyright Board, Copyright Enforcement Advisory Council (CEAC), International Copyright Agreements, Conventions and Treaties, Interesting Copyrights Cases	PPT	4				
5		Eligibility Criteria, Who Can Apply for a Trademark, Acts and Laws, Designation of Trademark Symbols, Classification of Trademarks, Registration of a Trademark is Not Compulsory	PPT	5				
6		Validity of Trademark, Types of Trademark Registered in India, Trademark Registry, Process for Trademarks Registration, Prior Art Search	PPT	6				
7		Famous Case Law: Coca-Cola Company vs. Bisleri International Pvt. Ltd.	PPT	7				
8		Revision & Module 4 Quiz	PPT	8				

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MODULE - 5								
1		Eligibility Criteria. Acts and Laws to Govern Industrial Designs, Design Rights, Enforcement of Design Rights, Non-Protectable Industrial Designs India	PPT	1				
2		Protection Term, Procedure for Registration of Industrial Designs, Prior Art Search, Application for Registration, Duration of the Registration of a Design, Importance of Design Registration, Cancellation of the Registered Design	PPT	2				
3		Application Forms, Classification of Industrial Designs, Designs Registration Trend in India, International Treaties, Famous Case Law: Apple Inc. vs. Samsung Electronics Co.	PPT	3				
4		Acts, Laws and Rules Pertaining to GI, Ownership of GI, Rights Granted to the Holders, Registered GI in India, Identification of Registered GI, Classes of GI	PPT	4				
5		Non-Registerable GI, Protection of GI, Collective or Certification Marks, Enforcement of GI Rights, Procedure for GI Registration Documents Required for GI Registration, GI Ecosystem in India	PPT	5				
6		Case study of Curcuma (Turmeric) Patent, Case study of Neem Patent	PPT	6				
7		Case study of Basmati patent. IP Organizations In India. Schemes and Programmes	PPT	7				
8		Revision & Module 5 Quiz	PPT	8				

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	Activity	Planned	Actual	Remarks
1	Theory Classes	40		
2	Assignments/ Quizzes/ Self-study	02/05		
3	Tutorials/ Extra classes	00		
4	Internal Assessments	03		
5	ICT based Teaching (% of usage in Curriculum)	100%		
Planning			Execution	
Faculty Signature:			Faculty Signature:	
HoD Signature:			HoD Signature:	