

Department of Computer Science & Engineering (Data Science)



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

Course with Code: Research Methodology & Intellectual Property Rights-BRMK557				Faculty: Mrs. Pallavi A R			Semester & Section: 5 th Sem	
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	Chalk & Talk, PPT	1				
2		Meaning of Research,	Chalk & Talk, PPT	2				
3		Objectives of Engineering Research,	Chalk & Talk, PPT	3				
4		Motivation in Engineering Research	Chalk & Talk, PPT	4				
5		Types of Engineering Research,	Chalk & Talk, PPT	5				
6		Finding and Solving a Worthwhile Problem	Chalk & Talk, PPT	6				
7		Ethics in Engineering Research, Ethics in Engineering Research Practice	Chalk & Talk, PPT	7				
8		Types of Research Misconduct, Ethical Issues Related to Authorship	Chalk & Talk, PPT	8				
9		Revision, Module End Question discussion, Quiz	PPT, MS Forms	9				

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MODULE-2								
1		Literature Review and Technical Reading: New and Existing Knowledge, Analysis and Synthesis of Prior Art Bibliographic Databases, Web of Science, Google and Google Scholar	Chalk & Talk, PPT	1				
2		Effective Search: The Way Forward Introduction to Technical Reading Conceptualizing Research	Chalk & Talk, PPT	2				
3		Critical and Creative Reading, Taking Notes While Reading, Reading Mathematics and Algorithms, Reading a Datasheet	Chalk & Talk, PPT	3				
4		Attributions and Citations: Giving Credit Wherever Due, Citations: Functions and Attributes	Chalk & Talk, PPT	4				
5		Impact of Title and Keywords on citations, Knowledge Flow through Citation, Citing Datasets	Chalk & Talk, PPT	5				
6		Styles for Citations, Acknowledgments and Attributions	Chalk & Talk, PPT	6				
7		What Should Be Acknowledged, Acknowledgments in, Books Dissertations, Dedication or Acknowledgments	Chalk & Talk, PPT	7				
8		Revision, Module End Question discussion, Quiz	PPT, MS Forms	8				

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MODULE-3								
1		Introduction to Intellectual Property: Role of IP in the Economic and Cultural Development of the Society, IP Governance, IP as a Global Indicator of Innovation, Origin of IP History of IP in India. Major Amendments in IP Laws and Acts in India	PPT	1				
2		Conditions for Obtaining a Patent Protection, To Patent or Not to Patent an Invention. Rights Associated with Patents. Enforcement of Patent Rights.	Chalk & Talk, PPT	2				
3		Inventions Eligible for Patenting. Non-Patentable Matters. Patent Infringements. Avoid Public Disclosure of an Invention before Patenting	Chalk & Talk, PPT	3				
4		Process of Patenting. Prior Art Search. Choice of Application to be Filed. Patent Application Forms. Jurisdiction of Filing Patent Application. Publication.	Chalk & Talk, PPT	4				
5		Pre-grant Opposition. Examination. Grant of a Patent. Validity of Patent Protection. Post-grant Opposition. Commercialization of a Patent	Chalk & Talk, PPT	5				
6		Need for a Patent Attorney/Agent. Can Worldwide Patent be Obtained. Do I Need Firm to File a Patent in India.	Chalk & Talk, PPT	6				
7		Patent Related Form Fee Structure. Types of Patent Application Commonly Used Terms in Patenting. Nation Bodies Dealing with Patent Affairs. Utili Models.	Chalk & Talk, PPT	7				
8		Revision, Module End Question discussion, Quiz	PPT, MS Forms	8				

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MODULE-4								
1		Copyrights and Related Rights: 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.	PPT	1				
2		Fair Use Doctrine. Copyrights and Internet. Non-Copyright Work. Copyright Registration. Judicial Powers of the Registrar of Copyrights. Fee Structure. Copyright Symbol. Validity of Copyright.	PPT	2				
3		Copyrights and the Word 'Adaptation'. Copyrights and the Word 'Indian Work'. Joint Authorship. Copyright Society. Copyright Board. Copyright Enforcement Advisory Council (CEAC). International Copyright Agreements, Conventions and Treaties. Interesting Copyrights Cases.	PPT	3				
4		Trademarks: Eligibility Criteria. Who Can Apply for a Trademark. Acts and Laws. Designation of Trademark Symbols.	PPT	4				
5		Classification of Trademarks. Registration of a Trademark is Not Compulsory. Validity of Trademark. Types of Trademark Registered in India.	PPT	5				
6		Trademark Registry. Process for Trademarks Registration. Prior Art Search. Famous Case Law: Coca-Cola Company vs. Bisleri International Pvt. Ltd.	Chalk & Talk, PPT	6				
7		Revision, Module End Question discussion, Quiz	PPT, MS Forms	7				

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MODULE-5								
1		Industrial Designs: Eligibility Criteria, Acts and Laws to Govern Industrial Designs. Design Rights. Enforcement of Design Rights. Non-Protectable Industrial Designs India. Protection Term. Procedure for Registration of Industrial Designs.	PPT	1				
2		Prior Art Search. Application for Registration. Duration of the Registration of a Design. Importance of Design Registration	PPT	2				
3		Cancellation of the Registered Design. 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		Geographical Indications: Acts, Laws and Rules Pertaining to GI. Ownership of GI. Rights Granted to the Holders. Registered GI in India	PPT	4				
5		Identification of Registered GI. Classes of GI. Non-Registerable GI. Protection of GI. Collective or Certification Marks	PPT	5				

6		Enforcement of GI Rights. Procedure for GI Registration Documents Required for GI Registration. GI Ecosystem in India	PPT	6				
7		Case Studies on Patents. Case study of Curcuma (Turmeric) Patent, Case study of Neem Patent, Case study of Basmati patent. IP Organizations in India. Schemes and Programmes	PPT	7				
8		Revision, Module End Question discussion, Quiz	PPT, MS Forms	8				

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