

Department of Civil Engineering

Lesson Plan & Work-done Diary for AY:2023-24, ODD Semester

Course with Code: Research Methodology & IPR / 21RMI56					Faculty: Manu Vijay		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 Course Module and Importance of Research & Development	Chalk & Talk					
2		Meaning of Research, Objectives of Engineering Research	Chalk & Talk					
3		Motivation in Engineering Research, Types of Engineering Research	ICT					
4		Finding and Solving a Worthwhile Problem. (Providing Group Assignment)	Chalk & Talk					
5		Ethics in Engineering Research Practice	ICT					
6		Types of Research Misconduct	ICT					
7		Ethical Issues Related to Authorship	ICT					
8		SRS Conduction on Module-1	ICT					



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MODULE-2								
9		Literature Review and Technical Reading: New and Existing Knowledge, Analysis and Synthesis of Prior Art Bibliographic Databases	ICT					
10		Web of Science (WoS), Google and Google Scholar, Effective Search: The Way Forward	ICT					
11		Introduction to Technical Reading Conceptualizing Research, Critical and Creative Reading	Chalk & Talk					
12		Taking Notes While Reading, Reading Mathematics and Algorithms, Reading a Datasheet.	Chalk & Talk					
13		Attributions and Citations: Giving Credit Wherever Due, Citations: Functions and Attributes, Impact of Title and Keywords on Citations, Knowledge Flow through Citation, Citing Datasets	ICT					
14		Styles for Citations, Acknowledgments and Attributions, What Should Be Acknowledged, Acknowledgments in, Books Dissertations, Dedication or Acknowledgments.	ICT					
15		IA-1 QP Scheme Discussion & SRS Conduction on Module-2	ICT					

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MODULE 3								
16		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	Chalk & Talk					
17		Origin of IP History of IP in India. Major Amendments in IP Laws and Acts in India.	ICT					
18		Patents: Conditions for Obtaining Patent Protection, To Patent or Not to Patent an Invention. Rights Associated with Patents. Enforcement of Patent Rights	Chalk & Talk					
19		Inventions Eligible for Patenting. Non-Patentable Matters. Patent Infringements. Avoid Public Disclosure of an Invention before Patenting	ICT					
20		Process of Patenting: Prior Art Search. Choice of Application to be Filed. Patent Application Forms. Jurisdiction of Filing Patent Application. Publication. Pre-grant Opposition. Examination. Grant of a Patent. Validity of Patent Protection	ICT					
21		Post-grant Opposition. Commercialization of a Patent. Need for a Patent Attorney/Agent, International Patent Types of Patent Applications, National Bodies Dealing with Patent Affairs. Utility Models.	ICT					
22		SRS Conduction on Module-3	ICT					



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MODULE 4								
23		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. Fair Use Doctrine	Chalk & Talk					
24		Copyrights and 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'.	Chalk & Talk					
25		Transfer of Copyrights to a Publisher. Copyrights and the Word 'Adaptation'. Copyrights and the Word 'Indian Work'. Joint Authorship.	Chalk & Talk					
26		Copyright Society. Copyright Board. Copyright Enforcement Advisory Council (CEAC). International Copyright	Chalk & Talk					



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		Agreements, Conventions and Treaties. Interesting Copyrights Cases.						
27		Trademarks: Eligibility Criteria for a Trademark. Acts and Laws. Designation of Trademark Symbols. Classification of Trademarks. Registration of a Trademark is Not Compulsory. Validity of Trademark	ICT					
28		Types of Trademarks Registered in India. Trademark Registry. Process for Trademarks Registration. Prior Art Search. Famous Case Law: Coca-Cola Company vs. Bisleri International Pvt. Ltd.	ICT					
29		IA-2 QP Scheme Discussion & SRS Conduction on Module-4	ICT					



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MODULE 5								
30		Industrial Designs: Eligibility Criteria. Acts and Laws to Govern Industrial Designs. Design Rights. Enforcement of Design Rights. Non-Protectable Industrial Designs India.	Chalk & Talk					
31		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	Chalk & Talk					
32		Application Forms. Classification of Industrial Designs. Designs Registration Trend in India. International Treaties. Famous Case Law: Apple Inc. vs. Samsung Electronics Co.	ICT					
33		Geographical Indications: 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.	ICT					



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34		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.	Chalk & Talk					
35		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 Programs.	ICT					
36		SRS Conduction on Module-5	ICT					
37		VTU Model QP Discussion	ICT					



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	Activity	Planned	Actual	Remarks
1	Theory Classes	37		
2	Assignments (Individual/Group)	02		
3	Quizzes (SRS/MS Forms)	05		
4	Tutorials/ Extra classes	-		
5	Internal Assessments	03		
6	ICT based Teaching. (% of usage in Curriculum)	62.16%		
Planning			Execution	
Faculty Signature:			Faculty Signature:	
HoD Signature:			HoD Signature:	