

Department of Electrical & Electronics Engineering

Lesson Plan & Work-done Diary for AY:2025-26, ODD Semester

	Course with Code: Research Methodology & IPR / BMRK557				Faculty: Ms. Swapna H		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 Introduction to Research Methodology and Ethics: Importance of Research & Development	ICT					
2		Meaning of Research, Objectives of Engineering Research	ICT					
3		Motivation in Engineering Research	ICT					
4		Types of Engineering Research	ICT					
5		Finding and Solving a Worthwhile Problem. (Providing Group Assignment)	ICT					
6		Ethics in Engineering Research Practice	ICT					
7		Types of Research Misconduct	ICT					

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8	Ethical Issues Related to Authorship	ICT						
9	SRS Conduction on Module-1	ICT						

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MODULE-2								
10		Literature Review and Technical Reading: New and Existing Knowledge, Analysis and Synthesis of Prior Art	ICT					
11		Bibliographic Databases, Web of Science (WoS), Google and Google Scholar	ICT					
12		Effective Search: The Way Forward, Introduction to Technical Reading	ICT					
13		Conceptualizing Research, Critical and Creative Reading	ICT					
14		Taking Notes While Reading, Reading Mathematics and Algorithms, Reading a Datasheet.	ICT					
15		Attributions and Citations: Giving Credit Wherever Due, Citations: Functions and Attributes	ICT					
16		Impact of Title and Keywords on Citations, Knowledge Flow through Citation, Citing Datasets	ICT					

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17		Styles for Citations, Acknowledgments and Attributions, What Should Be Acknowledged, Acknowledgments in, Books Dissertations, Dedication or Acknowledgments.	ICT					
18		SRS Conduction on Module-2	ICT					
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MODULE 3								
19		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	ICT					
20		Origin of IP History of IP in India. Major Amendments in IP Laws and Acts in India.	ICT					
21		Patents: Conditions for Obtaining Patent Protection, To Patent or Not to Patent an Invention. Rights Associated with Patents. Enforcement of Patent Rights	ICT					
22		Inventions Eligible for Patenting. Non-Patentable Matters. Patent Infringements. Avoid Public Disclosure of an Invention before Patenting	ICT					
23		Process of Patenting: Prior Art Search. Choice of Application to be Filed. Patent Application Forms. Jurisdiction of Filing Patent Application. Publication.	ICT					
24		Pre-grant Opposition. Examination. Grant of a Patent. Validity of Patent Protection	ICT					

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25	Post-grant Opposition. Commercialization of a Patent. Need for a Patent Attorney/Agent	ICT						
26	International Patent Types of Patent Applications, National Bodies Dealing with Patent Affairs. Utility Models	ICT						
27	IA-1 QP Scheme Discussion & SRS Conduction on Module-3	ICT						

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MODULE 4								
28		Copyrights and Related Rights: Classes of Copyrights. Criteria for Copyright. Ownership of Copyright. Copyrights of the Author.	ICT					
29		Copyright Infringements. Copyright Infringement is a Criminal Offence. Copyright Infringement is a Cognizable Offence. Fair Use Doctrine	ICT					
30		Copyrights and Internet. Non-Copyright Work. Copyright Registration. Judicial Powers of the Registrar of Copyrights. Fee Structure.	ICT					
31		Copyright Symbol. Validity of Copyright. Copyright Profile of India. Copyright and the word 'Publish'.	ICT					

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32		Transfer of Copyrights to a Publisher. Copyrights and the Word 'Adaptation'. Copyrights and the Word 'Indian Work'. Joint Authorship.	ICT					
33		Copyright Society. Copyright Board. Copyright Enforcement Advisory Council (CEAC). International Copyright Agreements, Conventions and Treaties. Interesting Copyrights Cases.	ICT					
34		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					
35		Types of Trademarks Registered in India. Trademark Registry. Process for Trademarks Registration.	ICT					
36		Prior Art Search. Famous Case Law: Coca-Cola Company vs. Bisleri International Pvt. Ltd.	ICT					
37		SRS Conduction on Module-4	ICT					

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MODULE 5								
38		Industrial Designs: Eligibility Criteria. Acts and Laws to Govern Industrial Designs.	ICT					
39		Design Rights. Enforcement of Design Rights. Non-Protectable Industrial Designs India.	ICT					
40		Protection Term. Procedure for Registration of Industrial Designs. Prior Art Search.	ICT					
41		Application for Registration. Duration of the Registration of a Design. Importance of Design Registration. Cancellation of the Registered Design	ICT					
42		Application Forms. Classification of Industrial Designs. IA-2 QP Scheme Discussion	ICT					
43		Designs Registration Trend in India. International Treaties. Famous Case Law: Apple Inc. vs. Samsung Electronics Co.	ICT					
44		Geographical Indications: Acts, Laws and Rules Pertaining to GI. Ownership of GI.	ICT					

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45	Rights Granted to the Holders. Registered GI in India. Identification of Registered GI. Classes of GI.	ICT					
46	Non-Registerable GI. Protection of GI. Collective or Certification Marks. Enforcement of GI Rights.	ICT					
47	Procedure for GI Registration Documents Required for GI Registration. GI Ecosystem in India.	ICT					
48	Case Studies on Patents. Case study of Curcuma (Turmeric) Patent, Case study of Neem Patent	ICT					
49	Case study of Basmati patent. IP Organizations in India. Schemes and Programs.	ICT					
50	SRS Conduction on Module-5 VTU Model QP Discussion	ICT					

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	Activity	Planned	Actual	Remarks
1	Theory Classes	50		
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)	100%		
Planning			Execution	
Faculty Signature:			Faculty Signature:	
HoD Signature:			HoD Signature:	