CREDIT DISTRIBUTION STRUCTURE FOR M.TECH ADMISSION BATCH 2016-17

1ST SEMESTER				2ND SEMESTER			
CODE	**SUBJECT**	**L-T-P**	**CREDIT**	**CODE**	**SUBJECT**	**L-T-P**	**CREDIT**
	COMPUTATIONAL METHODS AND TECHNIQUES	3-1-0	4		SPECILIZATION CORE I	3-1-0	4
	INTERNET OF THINGS	3-1-0	4		SPECILIZATION CORE II	3-1-0	4
	BRANCH SPECILIZATION CORE -I	3-1-0	4		ELECTIVE -I (SPECILIZATION RELATED)	3-1-0	4
	BRANCH SPECILIZATION CORE- II	3-1-0	4		ELECTIVE -II (DEPATMENTAL REALTED)	3-1-0	4
	BRANCH SPECILIZATION CORE- III	3-1-0	4		ELECTIVE- III (FROM ANY DEPATMENT)	3-1-0	4
CREDITS (THEORY)			**20**	**CREDITS (THEORY)**			**20**
PRACTICALS/SESSIONALS				**PRACTICALS/SESSIONALS**			
	LAB I	0-0-4	4		LAB II	0-0-4	4
					DESIGN PROJECTS	0-0-4	4
CREDITS (PRACTICALS/SESSIONALS)			**4**	**CREDITS (PRACTICALS/SESSIONALS)**			**8**
TOTAL SEMESTER CREDITS			**24**	**TOTAL SEMESTER CREDITS**			**28**
TOTAL CUMULATIVE CREDITS			**24**	**TOTAL CUMULATIVE CREDITS**			**52**

3RD SEMESTER				4TH SEMESTER			
CODE	**SUBJECT**	**L-T-P**	**CREDIT**	**CODE**	**SUBJECT**	**L-T-P**	**CREDIT**
	RESEARCH METHODOLOGY	3-1-0	4				
	IPR (INTELLECTUAL PROPERTY RIGHTS)	3-1-0	4				
CREDITS (THEORY)			**8**				
PRACTICALS/SESSIONALS				**PRACTICALS/SESSIONALS**			
	PRE DESSERATION WORK EVALUATION		9		DESSERATION EVALUATION AND OPEN DEFENCE		17
CREDITS (PRACTICALS/SESSIONALS)			**9**	**CREDITS (PRACTICALS/SESSIONALS)**			**17**
TOTAL SEMESTER CREDITS			**17**	**TOTAL SEMESTER CREDITS**			**17**
TOTAL CUMULATIVE CREDITS			**69**	**TOTAL CUMULATIVE CREDITS**			**86**

INTELLECTUAL PROPERTY RIGHTS

Unit 1 - Introduction

Intellectual property: meaning, nature and significance, need for intellectual property Right (IPR), IPR in India – Genesis and development, IPR in abroad, Examples:-Biotechnology Research and Intellectual Property Rights Management.

What is a patent, What can be protected by a patent, Why should I apply for a patent? Patent Law, Patentability requirements, Non-Patentable subject matters, Layout of the Patents. Procedure for domestic and international filing of applications, Restoration, Surrender and Revocations of Patents, Rights of Patentee and Working of Patent, Licensing and Enforcing Intellectual Property.

Unit 2 – Copyrights

Copyright: meaning, scope; What is covered by copyright? How long does copyright last? Why protect copyright? Related rights, Rights covered by copyright. Ownership: Duration, Division, Transfer and Termination of Transfers.

Unit 3 – Infringement and Remedies

Literal and non-literal infringement, Role of claims, Doctrines on infringement: Equivalent doctrine, Pith and Marrow doctrine, Comparative test. Defenses: Gillette Defense, General grounds, Patents granted with conditions, Parallel import. Remedies: Civil, Administrative.

Unit 4 – State Law: Trade Secret, Contract, Misappropriation, Right of Publicity

Trademarks, Trade Secret - Overview, Requirements, Misappropriation of Trade Secret, Departing Employees, Remedies, Criminal Liability, Misappropriation, Clickwrap Agreements, Idea Submissions; Right of Publicity, Federal Preemption, Review.

Books:-

1. W. R. Cornish and D. Llewellyn, Intellectual Property: Patents, Copyrights, Trade Marks and Allied Rights, Sweet & Maxwell.
2. Lionel Bently and Brad Sherman, Intellectual Property Law, Oxford University Press.
3. P. Narayanan, Intellectual Property Law, Eastern Law House
4. B. L. Wadehra, Law Relating to Intellectual Property, Universal Law Publishing Co.
5. V. K. Ahuja, Law Relating to Intellectual Property Rights, LexisNexis.
6. Ajit Parulekar and Sarita D'Souza, Indian Patents Law – Legal & Business Implications;Macmillan India ltd, 2006
7. P. Narayanan; Law of Copyright and Industrial Designs; Eastern law House, Delhi, 2010.

Reference

1. The Copyright Act, 1957
2. The Patent Act, 1970
3. The Trade Marks Act, 1999
4. The Designs Act, 2000
5. The Geographical Indication of Goods Act, 1999
6. The Protection of Plant Varieties and Farmers' Rights Act, 2001
7. The Semiconductor Integrated Circuits Layout Design Act, 2000

RESEARCH METHODOLOGY

Module I:
Introduction to RM: Meaning and significance of research. Importance of scientific research in decision making. Types of research and research process. Identification of research problem and formulation of hypothesis. Research Designs.

Module II:
Measurement and Data Collection. Primary data, Secondary data, Design of questionnaire ; Sampling fundamentals and sample designs. Measurement and Scaling Techniques, Data Processing.

Module III:
Data Analysis – I: Hypothesis testing; Z-test, t-test, F-test, Chi-square test. Analysis of variance. Non-parametric Test – Sign Test, Run test, Krushall – Wallis test

Module IV:
Data Analysis – II: Factor analysis, Multiple Regressions Analysis. Discriminant Analysis, Use of SPS Package.

Reference Books

1. Research Methodology, Chawla and Sondhi, Vikas
2. Research Methodology, Paneersevam, PHI