Syllabus checklist 7 th sem Entrepreneur ship

\bigcirc	UNIT-I
	Entrepreneurial perspective: Foundation,
0	Nature and development of entrepreneurship,
0	importance of
0	entrepreneurs,
0	Entrepreneurial Mind,
0	Individual entrepreneur Typesof entrepreneurs,
0	Entrepreneurship in India
0	UNIT-II
	Beginning Considerations: Creativity and developing business ideas;
\bigcirc	Creating and starting the venture;
\bigcirc	Building
\bigcirc	a competitive advantage;
\bigcirc	Opportunity recognition,
\bigcirc	Opportunity assessment;
\bigcirc	Legal issues
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DS	CC
0	UNIT-I
0	Introduction to Distributed Systems:
0	Characteristics of Distributed Systems-Introduction,
0	Examples of Distributed systems (Client server,
0	peer to peer,
0	grid and cloud computing),
0	Advantages of distributed systems,
\bigcirc	System models -Introduction,
\bigcirc	Architectural and Fundamental models,
0	Networking and Internetworking,
\bigcirc	Interposes Communication (message passing and shared memory),
	Distributed objects and Remote Method Invocation.

\bigcirc	RPC,
\bigcirc	Events and notifications,
\bigcirc	Case study-Java RMI.
\bigcirc	UNIT-II
\bigcirc	Synchronization:
\bigcirc	Time and Global States-Introduction,
\bigcirc	Logical Clocks,
\bigcirc	Synchronizing physical clocks events and Process states,
\bigcirc	Synchronizing physical clocks,
\bigcirc	logical time and logical clocks,
\bigcirc	global states,
\bigcirc	distributed debugging,
\bigcirc	Coordination and Agreement:
\bigcirc	Distributed mutual exclusion,
\bigcirc	Elections,
\bigcirc	Multicast communication,
\odot	consensus and related problems.
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IPR	
\bigcirc	UNIT-I
$\overline{\bigcirc}$	Understanding & Overview of IPR Regime & Patents:
\bigcirc	Introduction,
\bigcirc	Need of Intellectual Property Rights,
\bigcirc	Types of Intellectual property,
\bigcirc	Rationale for protection of IPR,
\bigcirc	International Organizations,
\bigcirc	Agencies and Treaties,
0	Importance of Intellectual Property Rights,
\bigcirc	IPR in India:
0	Genesis and development,
\bigcirc	Impact of IPR on development,
0	health agriculture and genetic resources in India. Patents:
\bigcirc	Definition of TRIPS,

\bigcirc	Kind of inventions protected by Patent,
\bigcirc	Process and Product Patent,
\bigcirc	Double Patent,
\bigcirc	Legal requirements for patents,
\bigcirc	Patent Application process,
\bigcirc	Searching a patent,
\bigcirc	Drafting and Filling of a Patent,
\bigcirc	Type of patent applications,
\bigcirc	Patent Specification and Claim,
\bigcirc	Management of IP Assets and IP Portfolio,
\bigcirc	Layers of International Patent System:
\bigcirc	National,
\bigcirc	Regional and International options
\bigcirc	UNIT-II
\bigcirc	Trademarks & Copyrights:
\bigcirc	Rights of Trademark,
\bigcirc	Purpose and Function of Trademark,
\bigcirc	Trademark registration,
\bigcirc	Trademark Acquisition,
\bigcirc	Trademark protection,
\bigcirc	Trademark Registration process. Law of Copy Rights,
\bigcirc	Rights and Protection covered by Copyright,
\bigcirc	Infringement of Copyright under Copyright Act,
\bigcirc	Distinction between related rights and copyright,
\bigcirc	Celebrity rights,
0	Academic integrity or Plagiarism
MA	CHINE LEARNING
\bigcirc	UNIT-I
0	Introduction:
0	Machine learning,
0	terminologies in machine learning,
0	Perspectives and issues in machine learning,
\bigcirc	application of Machine learning,

0	Types of machine learning:
0	supervised,
0	unsupervised,
0	semi- supervised learning. Review of probability,
0	Basic Linear Algebra in Machine Learning Techniques,
0	Dataset and its types,
0	Data preprocessing,
0	Bias and Variance in Machine learning ,
0	Function approximation,
0	Overfitting
\bigcirc	UNIT-II
\bigcirc	Regression Analysis in Machine Learning:
\bigcirc	Introduction to regression and its terminologies,
\bigcirc	Types of regression,
\bigcirc	Logistic Regression Simple Linear regression:
\bigcirc	Introduction to Simple Linear Regression and its assumption,
\bigcirc	Simple Linear Regression Model Building,
\bigcirc	Ordinary Least square estimation,
0	Properties of the least-squares estimators and the fitted regression model,
\bigcirc	Interval estimation in simple linear regression,
\bigcirc	Residuals Multiple Linear Regression:
\bigcirc	Multiple linear regression model and its assumption,
\bigcirc	Interpret Multiple Linear Regression Output(
\bigcirc	R-Square,
\bigcirc	Standard error,
\bigcirc	F,
\bigcirc	Significance F,
\bigcirc	Cofficient P values),
\bigcirc	Access the fit of multiple
\bigcirc	linear regression model (
0	R squared,
0	Standard error) Feature Selection and Dimensionality Reduction:
\bigcirc	PCA,

\bigcirc	LDA,
\bigcirc	ICA
\bigcirc	
Rei	nforcement Learning and deep learning
\bigcirc	UNIT-I
\circ	Reinforcement Learning Foundation: Introduction to Reinforcement learning and its terms,
\bigcirc	Features and elements of RL,
\bigcirc	Defining RL Framework and Markov Decision Process ,
\bigcirc	Polices,
\bigcirc	Value Functions and Bellman Equations,
\bigcirc	Exploration vs. Exploitation,
0	Code Standards and Libraries used in RL (Python/Keras/Tensorflow) Tabular Methods and Q-networks:
\bigcirc	Planning through the use of Dynamic Programming and Monte Carlo,
\bigcirc	Temporal-Difference learning methods (TD(0),
\bigcirc	SARSA,
\bigcirc	Q-Learning),
\bigcirc	Deep Q-networks (DQN,
\bigcirc	DDQN,
\bigcirc	Dueling DQN,
\bigcirc	Prioritised Experience Replay)
\bigcirc	UNIT-II
\bigcirc	Policy Optimization: Introduction to policy-based methods,
0	Vanilla Policy Gradient,
0	REINFORCE algorithm and stochastic policy search,
0	Actor-critic methods (A2C,
\bigcirc	A3C),
\bigcirc	Advanced policy gradient (PPO,
\bigcirc	TRPO,
\bigcirc	DDPG),
0	Model-Based RL: Model-based RL approach Recent Advances and Applications: Meta-learning. Multi-Agent Reinforcement Learning,

000	Partially Observable Markov Decision Process, Applying RL for real-world problems
Pat	tern Recognition and Computer vision
\bigcirc	UNIT-I
\bigcirc	Induction Algorithms.
\bigcirc	Rule Induction.
\bigcirc	Decision Trees.
\bigcirc	Bayesian Methods.
\bigcirc	Overview.
\bigcirc	Naïve Bayes.
\bigcirc	The Basic Naıve Bayes Classifier.
\bigcirc	Naive Bayes Induction for Numeric Attributes.
\bigcirc	Correction to the Probability Estimation.
\bigcirc	Laplace Correction.
\bigcirc	No Match.
\bigcirc	Other Bayesian Methods.
\bigcirc	Other Induction Methods.
\bigcirc	Neural Networks.
0	Genetic Algorithms.
0	Instance-based Learning.
0	Support Vector Machines.
0	UNIT-II
\bigcirc	About Statistical Pattern Recognition.
\bigcirc	Classification and regression.
\bigcirc	Features,
\bigcirc	Feature Vectors,
\bigcirc	and Classifiers.
\bigcirc	Pre-processing and feature extraction.
\bigcirc	The curse of dimensionality.
\bigcirc	Polynomial curve fitting.
\bigcirc	Model complexity.

\bigcirc	Multivariate non-linear functions.
\bigcirc	Bayes' theorem.
\bigcirc	Decision boundaries.
\bigcirc	Parametric methods.
\bigcirc	Sequential parameter estimation.
\bigcirc	Linear discriminant functions.
\bigcirc	Fisher's linear discriminant.
\bigcirc	Feed-forward network mappings.