	Title: MANAGEMENT AND ORGANIZATION CSE A Date: 03/12/2022		No: 01 of 03	
Revision No: 00 Prepared By: T.SOWJANYA		Approved By : HOI		
	ack board, PPTs			
No. of	TOPIC	Data	Made of Delivery	
Periods		Date	Mode of Delivery	
UNIT -	INTRODUCTION			
CO1: A	After completion of the Course the student will	acquire the knowl	edge on management	
fu	unctions, global leadership and organizational	structure		
	M. Prasad, Principles and Practice of Manage	ment.		
1.	Introduction			
2.	Management and organizations concepts			
3.	Nature and importance of management	From:		
4.	Functions of management	05/12/2022		
5. 6.	System approach to management	To:		
	Taylor,s scientific management	28/12/2022	Lecture intersperse	
7.	Fayol,s principles of management		with discussions	
9.	Leadership styles			
10.	Social responsibilities of management			
	Basic concepts related to organization			
11.	Decentralization and departmentation, MBO Tutorial			
	FUNCTIONAL MANAGEMENT		M AND MANAGEMENT OF THE PARTY O	
	FUNCTIONAL MANAGEMENT			
	311 Co 11:		HDM - 1	
CO2. W	ill familiarize with the concepts of functional r	nanagement that is	HRM and	
	ill familiarize with the concepts of functional rarketing of new product developments.	nanagement that is	HRM and	
m	narketing of new product developments.		HRM and	
m TB: Kotl	narketing of new product developments. Ier Philip &Keller Kevin Lane : Marketing Ma		HRM and	
т В: Kot l	narketing of new product developments. ler Philip & Keller Kevin Lane: Marketing Ma Human resource management concepts		HRM and	
m ΓΒ: Kotl 13. 14.	ler Philip & Keller Kevin Lane: Marketing Mark		HRM and	
TB: Kotl 13. 14. 15.	ler Philip & Keller Kevin Lane: Marketing Ma Human resource management concepts Basic functions of hr manager Manpower planning		HRM and	
m ΓΒ: Kotl 13. 14.	harketing of new product developments. ler Philip & Keller Kevin Lane: Marketing Manager Manpower planning Recruitment,		HRM and	
π ΓΒ: Kotl 13. 14. 15.	Human resource management concepts Basic functions of hr manager Manpower planning Recruitment, selection	nnagement	HRM and	
13. 14. 15.	harketing of new product developments. ler Philip & Keller Kevin Lane: Marketing Manager Manpower planning Recruitment, selection Training and development,	nnagement From:	HRM and	
π ΓΒ: Kotl 13. 14. 15.	Human resource management concepts Basic functions of hr manager Manpower planning Recruitment, selection	nnagement		
13. 14. 15. 16.	Human resource management concepts Basic functions of hr manager Manpower planning Recruitment, selection Training and development, Wage and salary administration Job evaluation	From: 29/12/2022		
13. 14. 15. 16. 17.	Human resource management concepts Basic functions of hr manager Manpower planning Recruitment, selection Training and development, Wage and salary administration	From: 29/12/2022	Lecture interspersed	
13. 14. 15. 16. 17. 18. 19.	Human resource management concepts Basic functions of hr manager Manpower planning Recruitment, selection Training and development, Wage and salary administration Job evaluation Merit rating	From: 29/12/2022	Lecture interspersed	
13. 14. 15. 16. 17. 18. 19. 20.	Human resource management concepts Basic functions of hr manager Manpower planning Recruitment, selection Training and development, Wage and salary administration Job evaluation Merit rating Marketing management	From: 29/12/2022	Lecture interspersed	
13. 14. 15. 16. 17. 18. 19. 20. 21.	Human resource management concepts Basic functions of hr manager Manpower planning Recruitment, selection Training and development, Wage and salary administration Job evaluation Merit rating Marketing management Concepts of marketing management	From: 29/12/2022	Lecture interspersed	
13. 14. 15. 16. 17. 18. 19. 20. 21. 22.	Human resource management concepts Basic functions of hr manager Manpower planning Recruitment, selection Training and development, Wage and salary administration Job evaluation Merit rating Marketing management Concepts of marketing management Marketing mix elements	From: 29/12/2022 To: 20/01/2023	Lecture interspersed	
13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	Human resource management concepts Basic functions of hr manager Manpower planning Recruitment, selection Training and development, Wage and salary administration Job evaluation Merit rating Marketing management Concepts of marketing management Marketing mix elements Marketing strategies	From: 29/12/2022 To: 20/01/2023	Lecture interspersed	

ESSON DI AN. HS4201

Course T	TENTATIVE LESSON P	IONAL BEHAVION	No: 02 of 03
Section:	CSE A Date: 03/12/2022	Page	10:02 01 05
Revision	= 20 XX X X X X X	Appro	oved By : HOD
Cook · Bla	ack board, PPTs		
No. of	TOPIC	Date	Mode of Delivery
Pariods			
CO3: T	II STRATEGIC MANAGEMENT The learner is able to think in strategic s. nishka Bedi, Production and Operations Ma	nagement, Oxford Un	iversity Press,2007.
27.	Strategic management and contemporary stratissues	ntegic	
28.	Mission, goals	From:	
29.	Objectives, policy	21/01/2023	
30.	Strategy, programes		Lecture interspersed
31.	Elements of corporate planning process	To:	with discussions
32.	Environment scanning	10/02/2023	
33.	Value chain analysis, swot analysis, Steps in strategy formulation and implementation		
34.	1 1 - L-carleina		
JT.	Balance scorecard, benchmarking		
35. UNIT-I CO4: T	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude through the motivational theories.		
35. UNIT-I CO4: T wi TB: Sul	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude thro ith motivational theories. bba Rao P, Organizational Behavior, Himal		
35. UNIT-I CO4: T wi TB: Sul	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude thro ith motivational theories. bba Rao P, Organizational Behavior, Himal Perception and its process		
35. UNIT-I CO4: T wi TB: Sul 36. 37.	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude thro ith motivational theories. bba Rao P, Organizational Behavior, Himal Perception and its process Impression management	aya Publishing House.	Mumbai.
35. UNIT-I CO4: T wi TB: Sul 36. 37. 38.	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude through the develop positive attitude through the motivational theories. bba Rao P, Organizational Behavior, Himal Perception and its process Impression management Personality development	aya Publishing House. From:	Mumbai. Lecture intersperse
35. UNIT-I CO4: T wi TB: Sul 36. 37. 38. 39.	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude thro ith motivational theories. bba Rao P, Organizational Behavior, Himal Perception and its process Impression management Personality development Socialization, attitude, positive attitude	aya Publishing House. From:	Mumbai.
35. UNIT-I CO4: T wi TB: Sul 36. 37. 38. 39. 40.	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude through the motivational theories. In the motivation attitude through the motivation attitude through the motivation attitude. In the motivation attitude, positive attitude through the motivation attitude, positive attitude. In the motivation attitude, positive attitude through the motivation attitude, positive attitude.	aya Publishing House. From: 11/02/2023	Mumbai. Lecture intersperse
35. UNIT-I CO4: T wi TB: Sul 36. 37. 38. 39. 40. 41.	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude through the motivational theories. In the motivational theories. In the learner can develop positive attitude through the motivational theories. In the learner can develop positive attitude through the learning positive attitude through the learning positive attitude. In the learner can develop positive attitude through the learning positive attitude. In the learner can develop positive attitude through the learning positive attitude. In the learner can develop positive attitude through the learning positive attitude. In the learner can develop positive attitude through the learning positive attitude. In the learner can develop positive attitude through the learning positive attitude through the learning positive attitude.	From: 11/02/2023 To:	Mumbai. Lecture intersperse
35. UNIT-I CO4: T wi TB: Sul 36. 37. 38. 39. 40. 41. 42.	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude thro ith motivational theories. In Perception and its process Impression management Personality development Socialization, attitude, positive attitude Change, learning, reinforcement motivation Motivation theories Tutorial VCROUP DYNAMICS	From: 11/02/2023 To: 10/03/2023	Mumbai. Lecture intersperse with discussions
35. UNIT-I CO4: T wi TB: Sul 36. 37. 38. 39. 40. 41. 42. UNIT-I CO5: T	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude through the motivational theories. In the motivational theories. In the learner can develop positive attitude through the motivational theories. In the learner can develop positive attitude through the learning positive attitude through the learning positive attitude. In the learner can develop positive attitude through the learning positive attitude. In the learner can develop positive attitude through the learning positive attitude. In the learner can develop positive attitude through the learning positive attitude. In the learner can develop positive attitude through the learning positive attitude. In the learner can develop positive attitude through the learning positive attitude through the learning positive attitude.	From: 11/02/2023 To: 10/03/2023	Mumbai. Lecture intersperses with discussions ling in managing the
35. UNIT-I CO4: T wi TB: Sul 36. 37. 38. 39. 40. 41. 42. UNIT-I CO5: T	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude thro ith motivational theories. In the learner can develop positive attitude thro ith motivational theories. In the learner can develop positive attitude attitude attitude attitude, positive attitude attitude attitude, positive attitude attitude attitude attitude attitude attitude attitude attitude attitude. In the learner can develop positive attitude attitude attitude attitude attitude. In the learner can attitude, positive attitude attitude attitude. In the learner can attitude, positive attitude attitude attitude. In the learner can develop positive attitude attitude. In the learner can attitude, positive attitude attitude. In the learner can develop positive attitude. In the learner	From: 11/02/2023 To: 10/03/2023 ee and grievance handl	Mumbai. Lecture intersperses with discussions ling in managing the
35. UNIT-I CO4: T wi TB: Sul 36. 37. 38. 39. 40. 41. 42. UNIT-I CO5: T or	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude thro ith motivational theories. In Perception and its process Impression management Personality development Socialization, attitude, positive attitude Change, learning, reinforcement motivation Motivation theories Tutorial V GROUP DYNAMICS The student can attain the group performance reganizational culture. In the process of groups Stages of group development	aya Publishing House. From: 11/02/2023 To: 10/03/2023 ee and grievance handle aya Publishing House. From:	Mumbai. Lecture intersperses with discussions ling in managing the
35. UNIT-I CO4: T wi TB: Sul 36. 37. 38. 39. 40. 41. 42. UNIT-I CO5: T or TB: Sul	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude thro ith motivational theories. Ibba Rao P, Organizational Behavior, Himal Perception and its process Impression management Personality development Socialization, attitude, positive attitude Change, learning, reinforcement motivation Motivation theories Tutorial V GROUP DYNAMICS The student can attain the group performance rganizational culture. Ibba Rao P, Organizational Behavior, Himal Types of groups Stages of group development Group behavior and group performance factors Group behavior and group performance factors	aya Publishing House. From: 11/02/2023 To: 10/03/2023 ee and grievance handle aya Publishing House. From:	Mumbai. Lecture intersperse with discussions ling in managing the Mumbai.
35. UNIT-I CO4: T wi TB: Sul 36. 37. 38. 39. 40. 41. 42. UNIT-I CO5: T or TB: Su 43. 44.	Tutorial N INDIVIDUAL BEHAVIOR The learner can develop positive attitude thro ith motivational theories. In Perception and its process Impression management Personality development Socialization, attitude, positive attitude Change, learning, reinforcement motivation Motivation theories Tutorial V GROUP DYNAMICS The student can attain the group performance reganizational culture. In the process In pression management Personality development Socialization, attitude, positive attitude Change, learning, reinforcement motivation Motivation theories Tutorial V GROUP DYNAMICS The student can attain the group performance reganizational culture. In the process of group performance factory of group behavior and group performance factory organizational conflicts	From: 11/02/2023 To: 10/03/2023 tee and grievance handle aya Publishing House. From: 11/03/2023	Mumbai. Lecture intersperse with discussions ling in managing the Mumbai. Lecture intersperse
35. UNIT-I CO4: T wi TB: Sul 36. 37. 38. 39. 40. 41. 42. UNIT-I CO5: T or TB: Su 43. 44. 45.	Tutorial N INDIVIDUAL BEHAVIOR The learner can develop positive attitude thro ith motivational theories. In Perception and its process Impression management Personality development Socialization, attitude, positive attitude Change, learning, reinforcement motivation Motivation theories Tutorial V GROUP DYNAMICS The student can attain the group performance rganizational culture. In the group serior of groups Stages of group development Group behavior and group performance fact Organizational conflicts Strategies of solving conflicts	From: 11/02/2023 To: 10/03/2023 re and grievance handle aya Publishing House. From: 11/03/2023 To: 11/03/2023	Mumbai. Lecture intersperses with discussions ling in managing the Mumbai. Lecture intersperse
35. UNIT-I CO4: T wi TB: Sul 36. 37. 38. 39. 40. 41. 42. UNIT-I CO5: T or TB: Su 43. 44. 45. 46.	Tutorial N INDIVIDUAL BEHAVIOR The learner can develop positive attitude thro ith motivational theories. In Perception and its process Impression management Personality development Socialization, attitude, positive attitude Change, learning, reinforcement motivation Motivation theories Tutorial V GROUP DYNAMICS The student can attain the group performance rganizational culture. Ibba Rao P, Organizational Behavior, Himal Types of groups Stages of group development Group behavior and group performance fact Organizational conflicts Strategies of solving conflicts Organizational culture	From: 11/02/2023 To: 10/03/2023 tee and grievance handle aya Publishing House. From: 11/03/2023	Mumbai. Lecture interspersed with discussions ling in managing the
35. UNIT-I CO4: T wi TB: Sul 36. 37. 38. 39. 40. 41. 42. UNIT-I CO5: T or TB: Su 43. 44. 45. 46. 47.	Tutorial N INDIVIDUAL BEHAVIOR The learner can develop positive attitude thro ith motivational theories. In Perception and its process Impression management Personality development Socialization, attitude, positive attitude Change, learning, reinforcement motivation Motivation theories Tutorial V GROUP DYNAMICS The student can attain the group performance rganizational culture. In the group serior of groups Stages of group development Group behavior and group performance fact Organizational conflicts Strategies of solving conflicts	From: 11/02/2023 To: 10/03/2023 re and grievance handle aya Publishing House. From: 11/03/2023 To: 11/03/2023	Mumbai. Lecture intersperses with discussions ling in managing the Mumbai. Lecture intersperse

0

TENTATIVE LESSON PLAN: HS4201

Course Title: MANAGEMENT AND ORGANIZATIONAL BEHAVIOR (HS4201)		
Course Title: MA	NAGEMENT AND ORGANIZATIONAL	BEHAVIOR (HS4201)
Section : CSE A	Date: 03/12/2022	Page No: 03 01 03
	Prepared By: T.SOWJANYA	Approved By: HOD

Tools	· Rlack	k board	. PPTs

No. of Periods	TOPIC	Date	Mode of Delivery
51.	Stress effects		I tour interespersed
52.	Coping strategies of stress		Lecture interspersed with discussions
53.	Types of conflicts		With discussions
54.	Tutorial		

M. Sorjanya 12/2022
Signature of the Faculty

TENTATIVE LESSON PLAN: R194203R ENTREPRENEURSHIP

Corres To	tle: ENTREPRENEURSHIP	Course code: R1	50
	~~~ 1	Page No: 01 to 0	00
Date: 05/1		Approved By: H	0,
Revision I	ACK BOARD, PPT's		8
No. of		D	Madect
Periods	TOPIC	Date	Denvery
IINIT_I	ENTREPRENEURAL COMPETENCE		
CO1. To	develop Competences & Entrepreneurship Skills by explaining	different stories of	some leading
ontronron	ours to become an entrepreneur.		
TB 1: "EN	NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Cl	hand & Company	Limited, Nev
Delhi, 200	I.		
1	Introduction to Entrepreneurship Concept	From	Lecture
2	Types of Entrepreneurship & Entrepreneurships as a Career	05/12/22	intersperse
3	Entrepreneurial Personality	To:	with
4	Characteristics of Successful Entrepreneur	24/12/22	discussion
5	Entrepreneur Knowledge & Skills		
UNIT-II	ENTREPRENEURAL ENVIRONMENT & POLICIES		
CO2. To	acquaint with various laws, forces and regulatory measures gover	ning business opera	tions in India
TR 1. "F	NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Cl	hand & Company	Limited, Ne
Delhi, 200			
6	Business Environment		
7	Role of family & Society	From 26/12/22 To:	Lecture
	Entrepreneurship Development Training & other support		intersperse
8		To:	with
	organizational services	To: 10/01/23	
9	organizational services  Central & State Govt Industrial Policies & Regulations		
9	organizational services  Central & State Govt Industrial Policies & Regulations  International business policies & regulations		
9 10 <b>IINIT-II</b>	organizational services  Central & State Govt Industrial Policies & Regulations  International business policies & regulations  BUSINESS PLAN PREPERATION	10/01/23	discussion
9 10 UNIT-III CO3: To	organizational services Central & State Govt Industrial Policies & Regulations International business policies & regulations BUSINESS PLAN PREPERATION Understand the sources required for business & its report analysis	10/01/23	discussion
9 10 UNIT-III CO3: To TB 1: "E	organizational services Central & State Govt Industrial Policies & Regulations International business policies & regulations BUSINESS PLAN PREPERATION Understand the sources required for business & its report analyst NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. C.	10/01/23	discussion
9 10 UNIT-III CO3: To TB 1: "E Delhi, 200	organizational services  Central & State Govt Industrial Policies & Regulations  International business policies & regulations  BUSINESS PLAN PREPERATION  Understand the sources required for business & its report analyst NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Coll.	10/01/23	discussion
9 10 UNIT-III CO3: To TB 1: "E Delhi, 200	organizational services  Central & State Govt Industrial Policies & Regulations International business policies & regulations  BUSINESS PLAN PREPERATION Understand the sources required for business & its report analyst NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Coll.  Sources of Product for Business	10/01/23	discussion
9 10 UNIT-III CO3: To TB 1: "E Delhi, 200 11	organizational services Central & State Govt Industrial Policies & Regulations International business policies & regulations BUSINESS PLAN PREPERATION Understand the sources required for business & its report analysystem of the sources of Product for Business Concept of Feasibility & Pre-feasibility studies	10/01/23 sis for criteria select	discussion  cion & proje  Limited, Ne
9 10 UNIT-III CO3: To TB 1: "E Delhi, 200	organizational services  Central & State Govt Industrial Policies & Regulations International business policies & regulations  BUSINESS PLAN PREPERATION Understand the sources required for business & its report analyst NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Coll.  Sources of Product for Business Concept of Feasibility & Pre-feasibility studies Criteria for Selection of Product	sis for criteria selection and & Company  From	discussion  cion & proje  Limited, Ne  Lecture  intersperse
9 10 UNIT-III CO3: To TB 1: "E Delhi, 200 11	organizational services  Central & State Govt Industrial Policies & Regulations  International business policies & regulations  BUSINESS PLAN PREPERATION  Understand the sources required for business & its report analyst NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Coll.  Sources of Product for Business  Concept of Feasibility & Pre-feasibility studies  Criteria for Selection of Product  Ownership, Capital & Budgeting Project Profile	sis for criteria select hand & Company  From 11/01/23	discussion  cion & projection & Ne  Lecture intersperse with
9 10 UNIT-III CO3: To TB 1: "E Delhi, 200 11 12 13	organizational services  Central & State Govt Industrial Policies & Regulations International business policies & regulations  BUSINESS PLAN PREPERATION Understand the sources required for business & its report analyst NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Coll.  Sources of Product for Business Concept of Feasibility & Pre-feasibility studies Criteria for Selection of Product Ownership, Capital & Budgeting Project Profile Preparation	sis for criteria select hand & Company  From 11/01/23 To:	discussion  cion & proje  Limited, Ne  Lecture  intersperse  with
9 10 UNIT-III CO3: To TB 1: "E Delhi, 200 11 12 13 14	organizational services  Central & State Govt Industrial Policies & Regulations International business policies & regulations  BUSINESS PLAN PREPERATION Understand the sources required for business & its report analyst NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Coll.  Sources of Product for Business Concept of Feasibility & Pre-feasibility studies Criteria for Selection of Product Ownership, Capital & Budgeting Project Profile Preparation Matching Entrepreneur with the Project	sis for criteria select hand & Company  From 11/01/23 To:	discussion  cion & proje  Limited, Ne  Lecture  intersperse  with
9 10 UNIT-III CO3: To TB 1: "E Delhi, 200 11 12 13 14	organizational services  Central & State Govt Industrial Policies & Regulations International business policies & regulations  BUSINESS PLAN PREPERATION Understand the sources required for business & its report analyst NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Coll.  Sources of Product for Business Concept of Feasibility & Pre-feasibility studies Criteria for Selection of Product Ownership, Capital & Budgeting Project Profile Preparation Matching Entrepreneur with the Project Feasibility Report Preparation & Evaluation Criteria	sis for criteria select hand & Company  From 11/01/23 To:	discussion  cion & project Limited, Ne  Lecture intersperse with
9 10 UNIT-III CO3: To TB 1: "E Delhi, 200 11 12 13 14 15 16 UNIT-IV	organizational services  Central & State Govt Industrial Policies & Regulations International business policies & regulations  BUSINESS PLAN PREPERATION Understand the sources required for business & its report analyst NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Coll.  Sources of Product for Business Concept of Feasibility & Pre-feasibility studies Criteria for Selection of Product Ownership, Capital & Budgeting Project Profile Preparation Matching Entrepreneur with the Project Feasibility Report Preparation & Evaluation Criteria LAUNCHING OF SMALL BUSINESS	isis for criteria select hand & Company  From 11/01/23 To: 28/01/23	Lecture intersperse with discussion
9 10 UNIT-III CO3: To TB 1: "E Delhi, 200 11 12 13 14 15 16 UNIT-IV CO4: To	organizational services  Central & State Govt Industrial Policies & Regulations  International business policies & regulations  BUSINESS PLAN PREPERATION  Understand the sources required for business & its report analyst NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Coll.  Sources of Product for Business  Concept of Feasibility & Pre-feasibility studies  Criteria for Selection of Product  Ownership, Capital & Budgeting Project Profile  Preparation  Matching Entrepreneur with the Project  Feasibility Report Preparation & Evaluation Criteria  LAUNCHING OF SMALL BUSINESS  Understand the sources required for finance mobilization &	isis for criteria select hand & Company  From 11/01/23 To: 28/01/23	Lecture intersperse with discussion
9 10 UNIT-III CO3: To TB 1: "E Delhi, 200 11 12 13 14 15 16 UNIT-IV CO4: To	organizational services  Central & State Govt Industrial Policies & Regulations  International business policies & regulations  BUSINESS PLAN PREPERATION  Understand the sources required for business & its report analyst NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Coll.  Sources of Product for Business  Concept of Feasibility & Pre-feasibility studies  Criteria for Selection of Product  Ownership, Capital & Budgeting Project Profile  Preparation  Matching Entrepreneur with the Project  Feasibility Report Preparation & Evaluation Criteria  LAUNCHING OF SMALL BUSINESS  Understand the sources required for finance mobilization & Budgeting in launching in small business	From 11/01/23 To: 28/01/23	Lecture intersperse with discussion
9 10 UNIT-III CO3: To TB 1: "E Delhi, 200 11 12 13 14 15 16 UNIT-IV CO4: To product I: TB 1: "E	organizational services  Central & State Govt Industrial Policies & Regulations  International business policies & regulations  BUSINESS PLAN PREPERATION  Understand the sources required for business & its report analyst NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Coll.  Sources of Product for Business  Concept of Feasibility & Pre-feasibility studies  Criteria for Selection of Product  Ownership, Capital & Budgeting Project Profile  Preparation  Matching Entrepreneur with the Project  Feasibility Report Preparation & Evaluation Criteria  LAUNCHING OF SMALL BUSINESS  Understand the sources required for finance mobilization & aunching in launching a small business  NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Collaboration of the sources of the	From 11/01/23 To: 28/01/23	Lecture intersperse with discussion
9 10 UNIT-III CO3: To TB 1: "E Delhi, 200 11 12 13 14 15 16 UNIT-IV CO4: To	Central & State Govt Industrial Policies & Regulations International business policies & regulations BUSINESS PLAN PREPERATION Understand the sources required for business & its report analyst NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Coll. Sources of Product for Business Concept of Feasibility & Pre-feasibility studies Criteria for Selection of Product Ownership, Capital & Budgeting Project Profile Preparation Matching Entrepreneur with the Project Feasibility Report Preparation & Evaluation Criteria LAUNCHING OF SMALL BUSINESS Understand the sources required for finance mobilization & aunching in launching a small business NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Coll.	From 11/01/23 To: 28/01/23	Lecture intersperse with discussion
9 10 UNIT-III CO3: To TB 1: "E Delhi, 200 11 12 13 14 15 16 UNIT-IV CO4: To product I: TB 1: "E Delhi, 200 17	Central & State Govt Industrial Policies & Regulations International business policies & regulations BUSINESS PLAN PREPERATION Understand the sources required for business & its report analyst NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Coll. Sources of Product for Business Concept of Feasibility & Pre-feasibility studies Criteria for Selection of Product Ownership, Capital & Budgeting Project Profile Preparation Matching Entrepreneur with the Project Feasibility Report Preparation & Evaluation Criteria LAUNCHING OF SMALL BUSINESS Understand the sources required for finance mobilization & aunching in launching a small business NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Coll. Operations & Planning	From 11/01/23 To: 28/01/23	Lecture intersperse with discussion
9 10 UNIT-III CO3: To TB 1: "E Delhi, 200 11 12 13 14 15 16 UNIT-IV CO4: To product I: TB 1: "E Delhi, 200	Central & State Govt Industrial Policies & Regulations International business policies & regulations BUSINESS PLAN PREPERATION Understand the sources required for business & its report analys NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. C. Sources of Product for Business Concept of Feasibility & Pre-feasibility studies Criteria for Selection of Product Ownership, Capital & Budgeting Project Profile Preparation Matching Entrepreneur with the Project Feasibility Report Preparation & Evaluation Criteria LAUNCHING OF SMALL BUSINESS Understand the sources required for finance mobilization & aunching in launching a small business NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. C. Operations & Planning Market & Channel Selection	From 11/01/23 To: 28/01/23	Lecture intersperse with discussion of market of Limited, Ne
9 10 UNIT-III CO3: To TB 1: "E Delhi, 200 11 12 13 14 15 16 UNIT-IV CO4: To product I: TB 1: "E Delhi, 200 17	Central & State Govt Industrial Policies & Regulations International business policies & regulations BUSINESS PLAN PREPERATION Understand the sources required for business & its report analyst NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Coll. Sources of Product for Business Concept of Feasibility & Pre-feasibility studies Criteria for Selection of Product Ownership, Capital & Budgeting Project Profile Preparation Matching Entrepreneur with the Project Feasibility Report Preparation & Evaluation Criteria LAUNCHING OF SMALL BUSINESS Understand the sources required for finance mobilization & aunching in launching a small business NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Coll. Operations & Planning	From 11/01/23 To: 28/01/23  growth strategies hand & Company	Lecture intersperse with discussion of market of Lecture
9 10 UNIT-III CO3: To TB 1: "E Delhi, 200 11 12 13 14 15 16 UNIT-IV CO4: To product I: TB 1: "E Delhi, 200 17 18	Central & State Govt Industrial Policies & Regulations International business policies & regulations BUSINESS PLAN PREPERATION Understand the sources required for business & its report analyst NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Coll.  Sources of Product for Business Concept of Feasibility & Pre-feasibility studies Criteria for Selection of Product Ownership, Capital & Budgeting Project Profile Preparation Matching Entrepreneur with the Project Feasibility Report Preparation & Evaluation Criteria LAUNCHING OF SMALL BUSINESS Understand the sources required for finance mobilization & aunching in launching a small business NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Coll.  Operations & Planning Market & Channel Selection Growth Strategies Product launching	From 11/01/23 To: 28/01/23  From 06/02/23	Lecture intersperse with discussion  of market of Limited, Ne
9 10 UNIT-III CO3: To TB 1: "E Delhi, 200 11 12 13 14 15 16 UNIT-IV CO4: To product I: TB 1: "E Delhi, 200 17 18 19	organizational services  Central & State Govt Industrial Policies & Regulations International business policies & regulations  BUSINESS PLAN PREPERATION Understand the sources required for business & its report analyst NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Coll.  Sources of Product for Business Concept of Feasibility & Pre-feasibility studies Criteria for Selection of Product Ownership, Capital & Budgeting Project Profile Preparation Matching Entrepreneur with the Project Feasibility Report Preparation & Evaluation Criteria LAUNCHING OF SMALL BUSINESS Understand the sources required for finance mobilization & aunching in launching a small business NTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Coll.  Operations & Planning Market & Channel Selection Growth Strategies	From 11/01/23 To: 28/01/23  growth strategies hand & Company	Lecture intersperse with discussion  of market of Limited, Ne

## UNIT-V MANAGEMENT OF SMALL BUSINESS

CO5: To develop & monitor effective management skills in small business by preventing rehabilitation TB 1: "ENTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Chand & Company Limited, New Delhi, 2001.

23	Monitoring & Evaluation of Business	From	
24	Preventing Sickness & Rehabilitation of Business Units	06/03/23	Lecture
25	Effective Management of Small Business	To: 01/04/23	interspersed with discussions

Signature of Faculty

Signature of HOD

## **TENTATIVE LESSON PLAN: R1942051**

	Course Title: MANAGEMENT AND ORGANIZATIONAL BEHAVIOR (R1942051)  Page No : 01 of 03		
Course Title: MA	NAGEMENT AND ORGANIZATION	Page No: 01 of 03	
Section: CSE B	Date: 03/12/2022	Approved By : HOD	
Revision No: 00	Prepared By : T.SOWJANYA	^~FT	

TT 1	DI	1	DDTc
1 00IS :	віаск	board,	PPIS

Tools: Black board, P	PIS		- "
No. of	TOPIC	Date	Mode of Delivery
Periods		The same	

## UNIT -I INTRODUCTION

CO1: After completion of the Course the student will acquire the knowledge on management functions, global leadership and organizational structure.

## TB: L. M. Prasad, Principles and Practice of Management.

1.	Introduction		
2.	Management and organizations concepts	From: 05/12/2022	
3.	Nature and importance of management		
4.	Functions of management		
5.	System approach to management	To:	Lecture interspersed
6.	Taylor,s scientific management	28/12/2022	with discussions
7.	Fayol,s principles of management	10-02-1102	
8.	Leadership styles		
9.	Social responsibilities of management		
10.	Basic concepts related to organization		
11.	Decentralization and departmentation, MBO		
12.	Tutorial		

## UNIT-II FUNCTIONAL MANAGEMENT

CO2: Will familiarize with the concepts of functional management that is HRM and marketing of new product developments.

TB: Kotler Philip & Keller Kevin Lane: Marketing Management

13.	Human resource management concepts	Towns 1	
14.	Basic functions of hr manager	1,400,000	Same and the same of the same
15.	Manpower planning		
16	Recruitment,		
16.	selection	100/1303	
17	Training and development,	From:	
17.	Wage and salary administration	29/12/2022	
18.	Job evaluation	23/12/2022	Lecture interspersed
19.	Merit rating	To:	with discussions
20.	Marketing management	20/01/2023	
21.	Concepts of marketing management	20/01/2020	Total State
22.	Marketing mix elements		
23.	Marketing strategies		
24.	Marketing importance	STORY	
25.	Marketing coping strategies	<b>在</b> 自己的 [1]	
26.	Tutorial		

Ourse T	TENTATIVE LESSON PLAN: Citle: MANAGEMENT AND ORGANIZATIONAL	BEHAVIOR (F	0: 02 of 03
Section:	CCE A   Date: 03/12/2022	Approx	red By : HOD
Revision.	- TOWITANIVA	Approv	cu by . zz
Tools : Bla	ack board, PPTs		Mode of Delivery
No. of	TOPIC	Date	Mode of Denvery
CO3: T	I STRATEGIC MANAGEMENT The learner is able to think in strategically the strategical strategically the strategical	hrough contempent, Oxford Uni	versity Press,2007.
27.	Strategic management and contemporary strategic issues		
20	Mission, goals	From:	
28.	Objectives, policy	21/01/2023	
29. 30.	Strategy, programes	21/01/2025	Lecture interspersed
31.	Elements of corporate planning process	To:	with discussions
32.	Environment scanning	10/02/2023	
32.	Value chain analysis, swot analysis, Steps in	10/02/2020	
33.	strategy formulation and implementation		
34.	Balance scorecard, benchmarking		
	Balance scolectard, benefittaring		
35. UNIT-1 CO4: T	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude through positive attitude attitude through positive attitude at		
35. UNIT-1 CO4: T	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude through p		
35. UNIT-1 CO4: T	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude through positive attitude through positing motivational theories. Tabba Rao P, Organizational Behavior, Himalaya Positiva Rao P, Organizational Rao P, Organiz	ublishing House.	
35. UNIT-1 CO4: T W TB: Su 36.	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude through positive motivational theories. The learner can develop positive attitude through positive motivational theories. The learner can develop positive attitude through positive attitude through positive attitude through positive motivational theories.  The learner can develop positive attitude through p	ublishing House.	Mumbai.
35. UNIT-) CO4: T  W TB: Su  36. 37.	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude through positive attit	ublishing House.	Mumbai.  Lecture interspersed
35. UNIT-1 CO4: T  W TB: Su  36. 37. 38.	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude through positive attitude positive attitude  Tutorial  IV INDIVIDUAL BEHAVIOR  The learner can develop positive attitude through positive attitude through positive attitude attitude in the learner can develop positive attitude attitude in the learner can develop positive attitude in the learner can develop positive attitude in the learner can develop positive attitude attitude in the learner can develop positive attitude in the learner	From:	Mumbai.
35. UNIT-1 CO4: T  W TB: Su  36. 37. 38. 39.	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude through positive attitude positive attitude  Tutorial  IV INDIVIDUAL BEHAVIOR  The learner can develop positive attitude through positive attitude through positive attitude attitude in the learner can develop positive attitude attitude in the learner can develop positive attitude in the learner can develop positive attitude in the learner can develop positive attitude attitude in the learner can develop positive attitude in the learner	From: 11/02/2023 To:	Mumbai.  Lecture interspersed
35. UNIT-1 CO4: T W TB: Su 36. 37. 38.	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude through positive attit	From:	Mumbai.  Lecture interspersed
35. UNIT-J CO4: T  W TB: Su  36. 37. 38. 39. 40. 41.	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude through positive attitude attitude attitude attitude.  Perception and its process Impression management Personality development Socialization, attitude, positive attitude Change, learning, reinforcement motivation	From: 11/02/2023 To:	Mumbai.  Lecture interspersed
35. UNIT-I CO4: T W TB: Su 36. 37. 38. 39. 40. 41. 42.	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude through positive attitude and its process  Impression management Personality development Socialization, attitude, positive attitude Change, learning, reinforcement motivation Motivation theories  Tutorial	From: 11/02/2023 To: 10/03/2023	Mumbai.  Lecture interspersed with discussions
35. UNIT-I CO4: T  W TB: Su  36. 37. 38. 39. 40. 41. 42. UNIT-CO5:	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude through positive attitude attitude attitude.  Perception and its process Impression management Personality development Socialization, attitude, positive attitude Change, learning, reinforcement motivation Motivation theories Tutorial	From: 11/02/2023 To: 10/03/2023	Mumbai.  Lecture interspersed with discussions
35. UNIT-I CO4: T  W TB: Su  36. 37. 38. 39. 40. 41. 42. UNIT-CO5:	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude through positive motivational theories. Ibba Rao P, Organizational Behavior, Himalaya Positive and its process Impression management Personality development Socialization, attitude, positive attitude Change, learning, reinforcement motivation Motivation theories Tutorial -V GROUP DYNAMICS The student can attain the group performance and organizational culture.  ubba Rao P, Organizational Behavior, Himalaya I Types of groups	From: 11/02/2023 To: 10/03/2023	Mumbai.  Lecture interspersed with discussions
35. UNIT-I CO4: T  W TB: Su  36. 37. 38. 39. 40. 41. 42. UNIT-CO5:	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude through positive attitude through positive attitude through positive attitude through positive attitude and its process Impression management Personality development Socialization, attitude, positive attitude Change, learning, reinforcement motivation Motivation theories Tutorial V GROUP DYNAMICS The student can attain the group performance and organizational culture.  ubba Rao P, Organizational Behavior, Himalaya I  Types of groups Stages of group development	From: 11/02/2023 To: 10/03/2023 I grievance hand	Lecture interspersed with discussions  lling in managing the
35. UNIT-I CO4: T  W TB: Su  36. 37. 38. 39. 40. 41. 42. UNIT-CO5: TB: S  43.	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude through positive attitude through positive attitude through positive attitude through positive attitude and its process.  Individual Perception and its process Impression management Personality development Socialization, attitude, positive attitude Change, learning, reinforcement motivation Motivation theories Tutorial IV GROUP DYNAMICS The student can attain the group performance and positive attitude attain the group performance and attain the group performance and attain attain the group performance and attain att	From: 11/02/2023 To: 10/03/2023	Lecture interspersed with discussions  lling in managing the
35. UNIT-J CO4: T W TB: Su 36. 37. 38. 39. 40. 41. 42. UNIT-CO5: TB: S 43. 44.	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude through positive attitude through positive attitude through positive attitude through positive attitude and its process.  Impression management Personality development Socialization, attitude, positive attitude Change, learning, reinforcement motivation Motivation theories Tutorial V GROUP DYNAMICS The student can attain the group performance and organizational culture.  ubba Rao P, Organizational Behavior, Himalaya I Types of groups Stages of group development Group behavior and group performance factors Organizational conflicts	From: 11/02/2023  To: 10/03/2023  digrievance hand Publishing House  From: 11/03/2023	Lecture interspersed with discussions  Cling in managing the e. Mumbai.  Lecture intersperse
35. UNIT-I CO4: T  W TB: Su  36. 37. 38. 39. 40. 41. 42. UNIT-CO5: TB: S  43. 44. 45.	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude through positive attitude through positive attitude through positive attitude through positive attitude and its process.  Impression management Personality development Socialization, attitude, positive attitude Change, learning, reinforcement motivation Motivation theories Tutorial V GROUP DYNAMICS The student can attain the group performance and organizational culture.  ubba Rao P, Organizational Behavior, Himalaya I Types of groups Stages of group development Group behavior and group performance factors Organizational conflicts Strategies of solving conflicts	From: 11/02/2023  To: 10/03/2023  I grievance hand Publishing House  From: 11/03/2023  To:	Lecture interspersed with discussions  lling in managing the e. Mumbai.  Lecture intersperse with discussions
35. UNIT-I CO4: T  W TB: Su  36. 37. 38. 39. 40. 41. 42. UNIT- CO5: TB: S  43. 44. 45. 46.	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude through prith motivational theories. Ibba Rao P, Organizational Behavior, Himalaya Prince Perception and its process Impression management Personality development Socialization, attitude, positive attitude Change, learning, reinforcement motivation Motivation theories Tutorial V GROUP DYNAMICS The student can attain the group performance and organizational culture.  ubba Rao P, Organizational Behavior, Himalaya I Types of groups Stages of group development Group behavior and group performance factors Organizational conflicts Strategies of solving conflicts Organizational culture	From: 11/02/2023  To: 10/03/2023  digrievance hand Publishing House  From: 11/03/2023	Lecture interspersed with discussions  lling in managing the e. Mumbai.  Lecture intersperse with discussions
35. UNIT-I CO4: T  W TB: Su  36. 37. 38. 39. 40. 41. 42. UNIT- CO5: TB: S  43. 44. 45. 46. 47.	Tutorial IV INDIVIDUAL BEHAVIOR The learner can develop positive attitude through positive attitude through positive attitude through positive attitude through positive attitude and its process. Impression and its process Impression management Personality development Socialization, attitude, positive attitude Change, learning, reinforcement motivation Motivation theories Tutorial V GROUP DYNAMICS The student can attain the group performance and organizational culture.  ubba Rao P, Organizational Behavior, Himalaya I Types of groups Stages of group development Group behavior and group performance factors Organizational conflicts Strategies of solving conflicts Organizational culture	From: 11/02/2023  To: 10/03/2023  I grievance hand Publishing House  From: 11/03/2023  To:	Lecture interspersed with discussions  lling in managing the e. Mumbai.  Lecture intersperse with discussions

## **TENTATIVE LESSON PLAN: HS4201**

TENTATIVE LESSON I DANGE	REHAVIOR (HS4201)
Course Title: MANAGEMENT AND ORGANIZATIONAL I	Page No: 03 of 03
Section : CSE A   Date : 03/12/2022	Approved By : HOD
Pavision No: 00 Prepared By: T.SOWJANYA	ТАРРА

Revision	No: 00 Prepared By: T.SOWJANYA ck board, PPTs	1100	
No. of	TOPIC	Date	Mode of Delivery
Periods			
51.	Stress effects		Lecture interspersed
52.	Coping strategies of stress		with discussions
53.	Types of conflicts		
54.	Tutorial		

M. Sosjanda 03/12/2022
Signature of the Faculty

## TENTATIVE LESSON PLAN: R194203R ENTREPRENEURSHIP

Course 1	itle: ENTR	EPRENEURSHIP	Course code: F	
Date: 05/	12/22	SEC- B	Page No: 01 to	02
Revision	No: 00 P	repared By: U. Tanoj	Approved By: HOD	
	LACK BOA			
No. of Periods		TOPIC	Date	Mode of Delivery
	ENTREPRE	ENEURAL COMPETENCE		
entrepren	eurs to becom NTREPREN	npetences & Entrepreneurship Skills by explaining me an entrepreneur. EURSHIP DEVELOPMENT", S.S. Khanka, S. Cl		
1		on to Entrepreneurship Concept	From	Tastuna
2	Types of I	Entrepreneurship & Entrepreneurships as a Career	05/12/22	Lecture
3	Entrepren	eurial Personality	To:	interspersed
4		istics of Successful Entrepreneur	24/12/22	discussions
5		eur Knowledge & Skills		uiscussions
	NTREPREN 1.	n various laws, forces and regulatory measures govern EURSHIP DEVELOPMENT", S.S. Khanka, S. Cl		
6	Business I	Environment		
7	Role of fa	mily & Society	From	Lecture
8	Entrepren	eurship Development Training & other support	26/12/22	interspersed
			To:	with
0		onal services		with
9		onal services State Govt Industrial Policies & Regulations	To: 10/01/23	with discussions
9 10 <b>UNIT-III</b>	Central & Internation BUSINES	State Govt Industrial Policies & Regulations nal business policies & regulations SS PLAN PREPERATION	10/01/23	discussions
9 10 UNIT-III CO3: To 1 TB 1: "E Delhi, 200	Central & Internation BUSINES Understand NTREPREN 1.	State Govt Industrial Policies & Regulations nal business policies & regulations SS PLAN PREPERATION the sources required for business & its report analyst EURSHIP DEVELOPMENT", S.S. Khanka, S. CI	10/01/23	discussions
9 10 UNIT-III CO3: To 1 TB 1: "EI Delhi, 200	Central & Internation BUSINES Understand NTREPREN 1. Sources of	State Govt Industrial Policies & Regulations hal business policies & regulations SS PLAN PREPERATION the sources required for business & its report analyst EURSHIP DEVELOPMENT", S.S. Khanka, S. CI Froduct for Business	is for criteria sele	ction & projection New
9 10 UNIT-III CO3: To 1 TB 1: "E Delhi, 200 11 12	Central & Internation BUSINES Understand NTREPREN 1. Sources of Concept o	State Govt Industrial Policies & Regulations nal business policies & regulations SS PLAN PREPERATION the sources required for business & its report analyst EURSHIP DEVELOPMENT", S.S. Khanka, S. CI Froduct for Business f Feasibility & Pre-feasibility studies	10/01/23	ction & project Limited, New
9 10 UNIT-III CO3: To 1 TB 1: "E Delhi, 200 11 12 13	Central & Internation BUSINES Understand NTREPREN 1. Sources of Concept o Criteria fo	State Govt Industrial Policies & Regulations all business policies & regulations SS PLAN PREPERATION the sources required for business & its report analyst EURSHIP DEVELOPMENT", S.S. Khanka, S. Clar Product for Business f Feasibility & Pre-feasibility studies r Selection of Product	is for criteria sele hand & Company	ction & project Limited, New Lecture intersperse
9 10 UNIT-III CO3: To 1 TB 1: "E Delhi, 200 11 12	Central & Internation BUSINES Understand NTREPREN 1. Sources of Concept o Criteria fo Ownership	State Govt Industrial Policies & Regulations nal business policies & regulations SS PLAN PREPERATION the sources required for business & its report analyst EURSHIP DEVELOPMENT", S.S. Khanka, S. CI F Product for Business f Feasibility & Pre-feasibility studies r Selection of Product o, Capital & Budgeting Project Profile	is for criteria sele hand & Company From 11/01/23	ction & project Limited, New Lecture intersperse with
9 10 UNIT-III CO3: To 1 TB 1: "E Delhi, 200 11 12 13	Central & Internation BUSINES Understand NTREPREN 1. Sources of Concept o Criteria fo Ownership Preparatio	State Govt Industrial Policies & Regulations all business policies & regulations SS PLAN PREPERATION the sources required for business & its report analyst EURSHIP DEVELOPMENT", S.S. Khanka, S. Clarent Freduct for Business for Freduct for Business for Freduct for Business for Selection of Product for Business for Selection	is for criteria sele hand & Company From 11/01/23 To:	ction & project Limited, New Lecture interspersed
9 10 UNIT-III CO3: To 1 TB 1: "El Delhi, 200 11 12 13 14	Central & Internation BUSINES Understand NTREPREN 1. Sources of Concept o Criteria fo Ownership Preparatio Matching	State Govt Industrial Policies & Regulations all business policies & regulations SS PLAN PREPERATION the sources required for business & its report analyst EURSHIP DEVELOPMENT", S.S. Khanka, S. Clarent Freduct for Business for Feasibility & Pre-feasibility studies resoluted as Selection of Product control of Product	is for criteria sele hand & Company From 11/01/23 To:	ction & project Limited, New Lecture intersperse with
9 10 UNIT-III CO3: To 1 TB 1: "E Delhi, 200 11 12 13	Central & Internation BUSINES Understand NTREPREN 1. Sources of Concept o Criteria fo Ownership Preparatio Matching Feasibility	State Govt Industrial Policies & Regulations all business policies & regulations SS PLAN PREPERATION the sources required for business & its report analyst EURSHIP DEVELOPMENT", S.S. Khanka, S. Clarent Freduct for Business for Freduct for Business for Freduct for Business for Selection of Product for Business for Selection	is for criteria sele hand & Company From 11/01/23 To:	ction & project V Limited, New Lecture intersperse with
9 10 UNIT-III CO3: To 1 TB 1: "E Delhi, 200 11 12 13 14 15 16 UNIT-IV CO4: To product la TB 1: "EI	Central & Internation BUSINES Understand NTREPREN 1. Sources of Concept o Criteria fo Ownership Preparatio Matching Feasibility LAUNC Understand unching in la NTREPREN	State Govt Industrial Policies & Regulations nal business policies & regulations SS PLAN PREPERATION the sources required for business & its report analyst EURSHIP DEVELOPMENT", S.S. Khanka, S. CI F Product for Business f Feasibility & Pre-feasibility studies r Selection of Product o, Capital & Budgeting Project Profile n Entrepreneur with the Project Report Preparation & Evaluation Criteria	From 11/01/23 To: 28/01/23	Lecture intersperse with discussions
9 10 UNIT-III CO3: To 1 TB 1: "E Delhi, 200 11 12 13 14 15 16 UNIT-IV CO4: To product la	Central & Internation BUSINES Understand NTREPREN 1. Sources of Concept o Criteria fo Ownership Preparatio Matching Feasibility LAUNC Understand unching in la NTREPREN 1.	State Govt Industrial Policies & Regulations all business policies & regulations SS PLAN PREPERATION the sources required for business & its report analyst EURSHIP DEVELOPMENT", S.S. Khanka, S. CI F Product for Business f Feasibility & Pre-feasibility studies r Selection of Product o, Capital & Budgeting Project Profile n Entrepreneur with the Project Report Preparation & Evaluation Criteria HING OF SMALL BUSINESS the sources required for finance mobilization & aunching a small business	From 11/01/23 To: 28/01/23	Lecture intersperse with discussions
9 10 UNIT-III CO3: To 1 TB 1: "E Delhi, 200 11 12 13 14 15 16 UNIT-IV CO4: To product la TB 1: "E Delhi, 200	Central & Internation BUSINES Understand NTREPREN 1. Sources of Concept o Criteria fo Ownership Preparatio Matching Feasibility LAUNC Understand unching in la NTREPREN 1. Operations	State Govt Industrial Policies & Regulations all business policies & regulations SS PLAN PREPERATION the sources required for business & its report analyst EURSHIP DEVELOPMENT", S.S. Khanka, S. CI F Product for Business F Feasibility & Pre-feasibility studies T Selection of Product TO, Capital & Budgeting Project Profile The Entrepreneur with the Project TREPORT Preparation & Evaluation Criteria HING OF SMALL BUSINESS The sources required for finance mobilization & aunching a small business EURSHIP DEVELOPMENT", S.S. Khanka, S. CI	From 11/01/23 To: 28/01/23	Lecture intersperse with discussions
9 10 UNIT-III CO3: To 1 TB 1: "EI Delhi, 200 11 12 13 14 15 16 UNIT-IV CO4: To product la TB 1: "EI Delhi, 200 17	Central & Internation BUSINES Understand NTREPREN 1. Sources of Concept of Criteria for Ownership Preparation Matching Feasibility LAUNC: Understand unching in land unching u	State Govt Industrial Policies & Regulations all business policies & regulations SS PLAN PREPERATION the sources required for business & its report analyst EURSHIP DEVELOPMENT", S.S. Khanka, S. CI F Product for Business f Feasibility & Pre-feasibility studies r Selection of Product o, Capital & Budgeting Project Profile Interpreneur with the Project Report Preparation & Evaluation Criteria HING OF SMALL BUSINESS the sources required for finance mobilization & aunching a small business EURSHIP DEVELOPMENT", S.S. Khanka, S. CI S & Planning Channel Selection	From 11/01/23 To: 28/01/23 growth strategies	Lecture intersperse with discussions of market & Limited, New
9 10 UNIT-III CO3: To 1 TB 1: "E Delhi, 200 11 12 13 14 15 16 UNIT-IV CO4: To product la TB 1: "EI Delhi, 200  17 18	Central & Internation BUSINES Understand NTREPREN 1. Sources of Concept of Concept of Criteria for Ownership Preparation Matching Feasibility LAUNC Understand unching in land Internation NTREPREN 1. Operations Market & Growth St	State Govt Industrial Policies & Regulations all business policies & regulations SS PLAN PREPERATION the sources required for business & its report analyst EURSHIP DEVELOPMENT", S.S. Khanka, S. Clare Froduct for Business for Feasibility & Pre-feasibility studies resolution of Product project Profile in Entrepreneur with the Project report Preparation & Evaluation Criteria HING OF SMALL BUSINESS the sources required for finance mobilization & Business EURSHIP DEVELOPMENT", S.S. Khanka, S. Clare & Planning Channel Selection rategies	From 11/01/23 To: 28/01/23 growth strategies and & Company	Lecture intersperse with discussions of market & Lecture Lecture
9 10 UNIT-III CO3: To 1 TB 1: "EI Delhi, 200 11 12 13 14 15 16 UNIT-IV CO4: To product la TB 1: "EI Delhi, 200 17 18 19	Central & Internation BUSINES Understand NTREPREN 1. Sources of Concept of Criteria for Ownership Preparation Matching Feasibility LAUNC: Understand unching in land unching u	State Govt Industrial Policies & Regulations all business policies & regulations SS PLAN PREPERATION the sources required for business & its report analyst EURSHIP DEVELOPMENT", S.S. Khanka, S. Clar Product for Business for Feasibility & Pre-feasibility studies reselection of Product project Profile note that Budgeting Project Profile note that Entrepreneur with the Project report Preparation & Evaluation Criteria HING OF SMALL BUSINESS the sources required for finance mobilization & aunching a small business EURSHIP DEVELOPMENT", S.S. Khanka, S. Clar & Planning Channel Selection rategies unching	From 11/01/23 To: 28/01/23 growth strategies	Lecture intersperse with discussions of market & Limited, New

## UNIT-V MANAGEMENT OF SMALL BUSINESS

CO5: To develop & monitor effective management skills in small business by preventing rehabilitation TB 1: "ENTREPRENEURSHIP DEVELOPMENT", S.S. Khanka, S. Chand & Company Limited, New Delhi, 2001.

23	Monitoring & Evaluation of Business	From	Lecture
24	Preventing Sickness & Rehabilitation of Business Units	06/03/23	interspersed
25	Effective Management of Small Business	To: 01/04/23	with discussions

Signature of Faculty

Signature of HOD

## TENTATIVE LESSON PLAN: MACHINE LEARNING

Section .	uc . MA	CHINE LEARNING		
·	CSE A	Date: 06-02-2023		
Revision 1	No:00	Prepared By : Dr. A. Radhika	Approved	By: HOD
Tools: Bla	ck Board	1	Approved	ву: пов
No. of	Maray	TOPIC	Date	Mode of
Periods			Date	Delivery
UNIT-1: In	ntroductio	on.		Denvery
CO-1: Exp	lain the fu	ndamental usage of the concept Machine Learn	ning system	
Text Book				
1) Han	ds-On Ma	chine Learning with Scikit-Learn, Keras, and T	TensorFlow 2nd	Hedition O'Pa
Pub	lications,	2019.	ensor 10 w, 2110	Luttion, O Re
2) Data	Science a	and Machine Learning Mathematical and Statis	tical Mathada F	Nial D
Kro	ese,Zdravl	co I. Botev, Thomas Taimre, Radislav Vaisman	25th November	OITK P.
1.	Introd	uction to - Artificial Intelligence	1,23th Novembe	F 2020
2.	Introd	action to - Machine Learning, Deep learning		
2	Differe	ence between Artificial Intelligence, Machine		
3.	Learni	ng, Deep learning.		
4.	Types	of Machine Learning Systems		Lecture
5.		Challenges of Machine Learning	09-01-2023	interspersed with discussions
6.	Introdu	action to Statistical Learning	ТО	
7.	Superv	rised and Unsupervised Learning	25-01-2023	
8.	Trainir	ng and Test Loss		
9.	Tradeo	ffs in Statistical Learning		
10.	Estima	nting Risk Statistics		
11.	Sampli	ng distribution of an estimator		
12.	Dans			
	Empiri	cal Risk Minimization		March Service Control
NIT-2: Su	pervised	cal Risk Minimization  Learning(Regression/Classification):		
<b>O-2:</b> Demo	pervised onstrate or	Learning(Regression/Classification):  n various regression Technique .SVM MNIST	Ranking	
O-2: Demo ext Book:	pervised onstrate or Hands-On	Learning(Regression/Classification):  n various regression Technique ,SVM, MNIST,  Machine Learning with Scikit-Learn Keras an	Ranking.	2nd Edition
<b>O-2:</b> Demo	pervised onstrate or Hands-On	Learning(Regression/Classification):  n various regression Technique ,SVM, MNIST,  Machine Learning with Scikit-Learn Keras an	Ranking.	2nd Edition,
O-2: Demo ext Book:	onstrate or Hands-On lications, 2	Learning(Regression/Classification): a various regression Technique, SVM, MNIST, Machine Learning with Scikit-Learn, Keras, an 2019.	Ranking. nd TensorFlow,	2nd Edition,
<b>O-2:</b> Demo ext Book : ReillyPub	pervised on trace of the contract of the contr	Learning(Regression/Classification):  n various regression Technique ,SVM, MNIST,  Machine Learning with Scikit-Learn Keras an	Ranking. nd TensorFlow,	2nd Edition,
O-2: Demo ext Book : ReillyPub 13.	pervised on trace of the contract of the contr	Learning(Regression/Classification): In various regression Technique ,SVM, MNIST, Machine Learning with Scikit-Learn, Keras, and 2019. Methods: Distance based Methods Neighbors	Ranking. nd TensorFlow,	2nd Edition,
O-2: Demo ext Book :1 PReillyPub 13. 14.	pervised onstrate or Hands-On lications, 2  Basic M Nearest	Learning(Regression/Classification): a various regression Technique ,SVM, MNIST, Machine Learning with Scikit-Learn, Keras, an 2019. Methods: Distance based Methods Neighbors n Trees	Ranking. nd TensorFlow,	2nd Edition,
O-2: Demo ext Book : 'ReillyPub 13. 14.	Hands-On lications, 2  Basic M Nearest Decisio Naive E	Learning(Regression/Classification):  n various regression Technique ,SVM, MNIST, Machine Learning with Scikit-Learn, Keras, and 2019.  Methods: Distance based Methods Neighbors n Trees Bayes	nd TensorFlow,	2nd Edition,
O-2: Demo ext Book : PReillyPub 13. 14. 15. 16. 17.	Hands-On lications, 2 Basic M Nearest Decisio Naive E Linear M	Learning(Regression/Classification): a various regression Technique ,SVM, MNIST, Machine Learning with Scikit-Learn, Keras, an 2019. Methods: Distance based Methods Neighbors n Trees	27-01-2023	2nd Edition,  Lecture
O-2: Demo ext Book : PreillyPub 13. 14. 15. 16. 17. 18.	Hands-On lications, 2  Basic M Nearest Decisio Naive E Linear M Logistic	Learning(Regression/Classification): In various regression Technique ,SVM, MNIST, Machine Learning with Scikit-Learn, Keras, and 2019. Methods: Distance based Methods Neighbors In Trees Bayes Models: Linear Regression	27-01-2023 To	
O-2: Demo ext Book : ReillyPub 13. 14. 15. 16. 17. 18. 19. 20.	Hands-On Hands-On Basic M Nearest Decision Naive E Linear M Logistic General	Learning(Regression/Classification): In various regression Technique ,SVM, MNIST, Machine Learning with Scikit-Learn, Keras, and 2019.  Methods: Distance based Methods Neighbors In Trees Bayes Models: Linear Regression Regression	27-01-2023	Lecture interspersed with
O-2: Demo ext Book : PreillyPub 13. 14. 15. 16. 17. 18.	Hands-On lications, 2 Basic M Nearest Decision Naive E Linear M Logistic General Support	Learning(Regression/Classification): In various regression Technique ,SVM, MNIST, Machine Learning with Scikit-Learn, Keras, and 2019.  Methods: Distance based Methods Neighbors In Trees Bayes Models: Linear Regression Regression ized Linear Models	27-01-2023 To	Lecture interspersed
O-2: Demo ext Book : ReillyPub 13. 14. 15. 16. 17. 18. 19. 20.	Hands-On lications, 2 Basic Marest Decision Naive E Linear Marest Support Binary (	Learning(Regression/Classification): In various regression Technique ,SVM, MNIST, Machine Learning with Scikit-Learn, Keras, and 2019. Methods: Distance based Methods Neighbors In Trees Bayes Models: Linear Regression Regression Regression ized Linear Models Vector Machines	27-01-2023 To	Lecture interspersed with
O-2: Demo ext Book : PReillyPub 13. 14. 15. 16. 17. 18. 19. 20. 21.	Hands-On lications, 2 Basic Marest Decision Naive E Linear Marest Support Binary (	Learning(Regression/Classification): In various regression Technique ,SVM, MNIST, Machine Learning with Scikit-Learn, Keras, and 2019. Methods: Distance based Methods Neighbors In Trees Bayes Models: Linear Regression Regression Regression ized Linear Models Vector Machines Classification	27-01-2023 To	Lecture interspersed with
O-2: Demo ext Book : ReillyPub 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24.	Hands-On lications, 2 Basic M Nearest Decision Naive E Linear M Logistic General Support Binary (Multicla MNIST Ranking	Learning(Regression/Classification): In various regression Technique ,SVM, MNIST, Machine Learning with Scikit-Learn, Keras, and 2019. Methods: Distance based Methods Neighbors In Trees Bayes Models: Linear Regression Regression Regression ized Linear Models Vector Machines Classification ISS/Structured outputs	27-01-2023 To	Lecture interspersed with
O-2: Demo ext Book : ReillyPub 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. IIT -3 : En	Decision Naive E Linear Multicla MNIST Ranking	Learning(Regression/Classification): In various regression Technique ,SVM, MNIST, Machine Learning with Scikit-Learn, Keras, and 2019. Methods: Distance based Methods Neighbors In Trees Bayes Models: Linear Regression Regression Regression Regression Regression Restructured outputs  Rearning and Random Forests	27-01-2023 To	Lecture interspersed with
O-2: Demo ext Book : ReillyPub 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. IIT -3 : En	Decision Naive E Linear Multicla MNIST Ranking	Learning(Regression/Classification): In various regression Technique ,SVM, MNIST, Machine Learning with Scikit-Learn, Keras, and 2019. Methods: Distance based Methods Neighbors In Trees Bayes Models: Linear Regression Regression Regression Regression Regression Restructured outputs  Rearning and Random Forests	27-01-2023 To	Lecture interspersed with
O-2: Demo ext Book : ReillyPub 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. IIT -3: En	Decision Naive E Linear M Logistic General Support Binary C Multicla MNIST Ranking Semble Lee the Ense	Learning(Regression/Classification): In various regression Technique ,SVM, MNIST, Machine Learning with Scikit-Learn, Keras, and 2019. Methods: Distance based Methods Neighbors In Trees Bayes Models: Linear Regression Regression Regression Regression Regression Restructured outputs  Rearning and Random Forests Remble Learning Methods and Random Forests	27-01-2023 To 22-02-2023	Lecture interspersed with discussions
O-2: Demo ext Book : ReillyPub 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. IIT -3: En	Hands-On Hands-On Hands-On Hands-On Hands-On Hasic Marest Decision Naive Endered Linear Marest Linear Multicla MNIST Ranking Semble Lee the Enseands-On Marest Linear Marest Linear Multicla MNIST Ranking Lee the Enseands-On Marest Linear Mar	Learning(Regression/Classification): In various regression Technique ,SVM, MNIST, Machine Learning with Scikit-Learn, Keras, and 2019. Methods: Distance based Methods Neighbors In Trees Bayes Models: Linear Regression Regression Regression Regression Regression Restructured outputs  Rearning and Random Forests Remble Learning Methods and Random Forests Machine Learning with Scikit-Learn, Keras, and	27-01-2023 To 22-02-2023	Lecture interspersed with discussions
O-2: Demo ext Book : ReillyPub  13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. ITT -3 : En O-3: Analyz ext Book :H ReillyPubli	Decision Naive E Linear Multicla MNIST Ranking and Set on Market E the Enseands-On Matter E the	Learning(Regression/Classification): In various regression Technique ,SVM, MNIST, Machine Learning with Scikit-Learn, Keras, and 2019. Methods: Distance based Methods Neighbors In Trees Bayes Models: Linear Regression Regression Regression Regression Regression Regression Restructured outputs  Rearning and Random Forests Remble Learning Methods and Random Forests Machine Learning with Scikit-Learn, Keras, and 2019.	27-01-2023 To 22-02-2023	Lecture interspersed with discussions
O-2: Demo ext Book : ReillyPub 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. ITT -3 : En O-3: Analyz ext Book :H	Decision Naive E Linear M Logistic General Support Binary (MIST Ranking Beath of the Enseands-On M Cations, 20 Introductions, 20 Introduct	Learning(Regression/Classification): In various regression Technique ,SVM, MNIST, Machine Learning with Scikit-Learn, Keras, and 2019. Methods: Distance based Methods Neighbors In Trees Bayes Models: Linear Regression Regression Regression Regression Regression Restructured outputs  Rearning and Random Forests Remble Learning Methods and Random Forests Machine Learning with Scikit-Learn, Keras, and	27-01-2023 To 22-02-2023	Lecture interspersed with discussions
O-2: Demo ext Book : ReillyPub  13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. ITT -3 : En O-3: Analyz ext Book :H ReillyPubli	Hands-On Hands-On Hands-On Hands-On Hands-On Hasic Marest Decision Naive Endered Linear Marest General Support Binary (Multicla MNIST Ranking Hands-On Marest	Learning(Regression/Classification): In various regression Technique ,SVM, MNIST, Machine Learning with Scikit-Learn, Keras, and 2019.  Methods: Distance based Methods Neighbors In Trees Bayes Models: Linear Regression Regression Regression Regression Restructured outputs  Mearning and Random Forests Remble Learning Methods and Random Forests Machine Learning with Scikit-Learn, Keras, and 2019.  Ition to Ensemble Learning and Random	27-01-2023 To 22-02-2023 d TensorFlow, 2 23-02-2023 To	Lecture interspersed with discussions  2nd Edition,  Lecture
O-2: Demo ext Book : ReillyPub  13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. IIT -3 : En O-3: Analyz ext Book :H ReillyPubli 25.	Decision Naive E Linear Multicla MNIST Ranking Ise the Ense ands-On Material Support Ise the Ense Introduct Forests Voting C	Learning(Regression/Classification): In various regression Technique ,SVM, MNIST, Machine Learning with Scikit-Learn, Keras, and 2019.  Methods: Distance based Methods Neighbors In Trees Bayes Models: Linear Regression Regression Regression Regression Restructured outputs  Mearning and Random Forests Remble Learning Methods and Random Forests Machine Learning with Scikit-Learn, Keras, and 2019.  Ition to Ensemble Learning and Random	27-01-2023 To 22-02-2023	Lecture interspersed with discussions

29.	Boosting	
30.	Stacking	13-03-2023
31.	Support Vector Machine: Linear SVM Classification	То
32.	Nonlinear SVM Classification	22-03-2023
33.	SVM Regression	
34.	Naïve Bayes Classifiers	

UNIT - 4:, Unsupervised Learning Techniques

CO-4: Illustrate the Clustering Techniques and Dimensionality Reduction Models in Machine

Text Book : Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow, 2nd Edition,

O'ReillyPublications, 2019.

No. of Periods	TOPIC	DATE	Mode of Delivery
35.	Unsupervised Learning Techniques: Clustering		
36.	K-Means, Limits of K-Means		
37.	Using Clustering for Image Segmentation		Lecture interspersed with discussions
38.	Using Clustering for Preprocessing	The second second	
39.	Using Clustering for Semi-Supervised Learning	23-03-2023	
40.	DBSCAN	ТО	
41.	Gaussian Mixtures	18-04-2023	
42.	Dimensionality Reduction: The Curse of		
	Dimensionality		
43.	PCA		
44.	Using Scikit-Learn		
45.	Randomized PCA		
46.	Kernel PCA		

UNIT - 5: Neural Networks and Deep Learning

CO-5: Discuss the Neural Network Models and Fundamentals concepts of Deep Learning

#### **Text Book:**

1) Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow, 2nd Edition, O'Reilly Publications, 2019.

	47.	Introduction to Artificial Neural Networks with Keras		Lecture
-1	48.	Implementing MLPs with Keras	19-04-2023	interspersed
	49.	Installing TensorFlow 2	ТО	with
	50.	Loading and Preprocessing Data with TensorFlow	06-05-2023	discussions

Signature of the Faculty

## TENTATIVE LESSON PLAN: (R2032052)

Section, III	CCE IT	Course Title: COMPIL			
Section: III CSE II SEM (A)		Date: 09-01-2023		Page No: 01 of 04	
Revision N	lo: 00	Prepared By: R.LAI	KSHMI	Approved By: HOD	
Tools: MS Tea	ms, PPTs,	Moodle		approved By. HOD	
No. of Periods		Topic	Date	Mode of Delivery	
Unit-1:Lexical A	nalysis	•	2400	Mode of Benvery	
CO1: At the end	of the cour	se, student will be able to Demo	onstrate phases in the	design of compiler	
B: Compilers: F	rinciples, Te	echniques and Tools, Second Ed	ition, Alfred V. Aho. Me	onica S. Lam. Ravi Sethi	
Jeffry D. Ullman,	Pearson Pub	lishers, 2007.		omed or Lam, navi Scin	
1	Language Pi	rocessors.			
2	Lexical Anal	ysis, Structure of a Compiler.			
3	Bootstrappi	ng.		and the second	
	Specification		T	Total and a comment	
5		n of Tokens.	From 18/1/2023	Lecture	
6		Lexical Analyzer.	TO	Interspersed	
	Input Buffer		30/1/2023	With	
8		lyzer Generator-LEX.	30/1/2023	discussions	
	Finite Autor				
		ressions and Finite Automata			
	THE RESERVE OF THE PARTY OF THE	Lexical Analyzer Generator.			
UNIT-II: Syntax	Committee of the second				
		sis, Top Down and LL(1) gramm			
		Principles and Practice, Kennet	h C Louden, Cengage Le	earning, 2006	
1		f the Parser,			
2		ee Grammars,		Lecture	
3	Parse Tree		Lea Sea Komean 18	Interspersed	
5		sion, Left Factoring,		With	
5	Pre Proces	sing Steps of Top Down Parsing		discussions	
6	Backtrackii	ng, , Derivations	From		
7	Recursive [	Descent Parsing	1/02/23 To		
8	Ambiguity	ARSAG TELEVISION	25/02/23		
9	Backtrackir	ng,	- urena	A SECOND STATE	
10	LL (1) Gram Predictive I	nmars, Non-recursive Parsing			
11	Error Recov	very in Predictive Parsing			

**UNIT-III:** Bottom Up Parsing

CO3: Organize Syntax Analysis, Top Down and LL(1) grammars

TB: Modern compiler implementation in C, Andrew W Appel, Revised edition, Cambridge University Press. 3

1	Introduction, Difference between LR and	to my silential total	
2	LL Parsers,	the market are a	
3	Types of LR Parsers		
	SLR Parsers		T
4	Construction of SLR Parsing Tables		Lecture
5	More Powerful LR Parses		Interspersed With
6	Construction of CLR (1) and LALR Parsing		discussions
7	Tables		discussions
	Dangling Else Ambiguity,		
8	Error Recovery in LR Parsing,		
9	Handling Ambiguity Grammar with LR		
	Parsers.		
10	Syntax-Directed Definitions		
11		From	
12	Applications of Syntax Directed	27/02/23	
-	Translation	To	
13	Syntax-Directed Translation Schemes	28/03/23	100
14	Implementing L-Attributed SDD's.	20/03/23	
15	Intermediate Code Generation: Variants		
	of Syntax Trees		
16	Three Address Code,		
- 17	Types and Declarations		
18	Translation of Expressions,		
10	Type Checking, Control Flow		
19	Backpatching		
20	Intermediate Code for Procedures.		
	n Time Environments  Bottom Up Parsing and Construction of LR par	sers	
	g Compilers for Modern Architectures, Randy		organ Kauffmann, 2001
1.	Storage Organization.		
2.	Run Time Storage Allocation.		
3.	Activation Records ,Procedure Calls		
4.	Displays, Code Optimization	From	Lecture
5.	The Principle Sources of Optimization	29/03/23	Interspersed
6.	Data-Flow Analysis	To	With
7.	Basic Blocks, Optimization of Basic	17/04/23	discussions
	Blocks.		
8.	Structure Preserving Transformations.		
8. 9.			
	Structure Preserving Transformations. Flow Graphs, Loop Optimization.		
9.	Structure Preserving Transformations. Flow Graphs, Loop Optimization. Peephole Optimization.		
9. 10 J <b>NIT-V: C</b> od	Structure Preserving Transformations. Flow Graphs, Loop Optimization. Peephole Optimization.	directed translation sc	hemes
9. 10 UNIT-V: Cod CO5: Analyz	Structure Preserving Transformations. Flow Graphs, Loop Optimization. Peephole Optimization. e Generation		

	Generator.	18/04/23	and the less to the terms
2	Object Code Form eGeneration Algorithm,	To 07/05/22	Lecture
3	Code Generation Algorithm,		Interspersed
4	Register Allocation a Assignment.	nd	With discussions

Signature of Faculty

Bignature of HOD 6 3 23



Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
(ISO 9001:2015 Certified Institution)
Accredited with NAAC 'A' grade
Department of Computer Science and Engineering



## TENTATIVE LESSON PLAN: R2032053

Course Title: CRY	PTOGRAPHY AND NETWORK SECU	RITY
Section : CSE-A	Date :9/1/2023	Page No : 01 of 03
Revision No: 01	Prepared by: K. Jyothi	Approved by : HOD

Tools: Black board, PPTs

**UNIT 1: Basic Principles** 

**CO1**: Explain different security threats and countermeasures and foundation course of cryptography mathematics.

**TB:** Cryptography and Network security, 3rd edition Behrouz A Forouzan, Deb deep Mukhopadhyay, McGraw Hill,2015.

No. of periods	TOPIC	Expected Date	Mode of Delivery
1.	Security Goals	From:	
2.	Cryptographic Attacks	9-1-2023	Black board
3.	Services and Mechanisms	То:	& PPT
4.	Mathematics of Cryptography	28-1-2023	
5.	System Boot, Tutorial		

#### **UNIT 2: Symmetric Encryption**

CO2: Classify the basic principles of symmetric key algorithms and operations of some symmetric key algorithms and asymmetric key cryptography.

**TB:** Cryptography and Network security, 3rd edition Behrouz A Forouzan, Deb deep Mukhopadhyay, McGraw Hill,2015.

No. of periods	ТОРІС	ExpectedDate	Mode of Delivery
6.	Mathematics of Symmetric key Cryptography		

7. 8. 9.	Introduction to Modern Symmetric Key Ciphers  Data Encryption Standard  Advanced Encryption Standard	FROM: 30-01-2023 TO: 15-2-2023	Black Board & PPT

### **UNIT 3: Asymmetric Encryption**

CO 3: Revise the basic principles of public key algorithms and working operations of some Asymmetric key algorithms such as RSA,ECC and some more.

**TB:** Cryptography and Network security, 3rd edition Behrouz A Forouzan, Deb deep Mukhopadhyay, McGraw Hill,2015.

No. of periods	TOPIC	Expected Date	Mode of Delivery
10.	Mathematics of Asymmetric key Cryptography	FROM:	
11.	Asymmetric key Cryptography	16-2-2023 TO:22-3-2023	Black Board & PPT

## UNIT 4: Data Integrity, Digital Signature Schemes & Key Management

CO4: Design applications of hash algorithms, digital signatures and key management techniques.

**TB:** Cryptography and Network security, 3rd edition Behrouz A Forouzan, Deb deep Mukhopadhyay, McGraw Hill,2015

No. of periods	TOPIC	<b>Expected Date</b>	Mode of Delivery
12.	Message Integrity and Message Authentication		
13.	Cryptographic Hash functions	FROM:	
14.	Digital Signature	23-3-2023	Black Board & PPT
15.	Key Management	TO:13-4-2023	

### UNIT 5: Network Security- I, Network Security- II,

**CO5:** Determine the knowledge of Application layer, Transport layer and network layer security protocols such as PGP, S/MIME,SSL,TSL, and IPsec.

**TB:** Cryptography and Network security, 3rd edition Behrouz A Forouzan, Deb deep Mukhopadhyay, McGraw Hill,2015

No. of periods	TOPIC	Expected Date	Mode of Delivery
16.	Security at Application layer: PGP and S/MIME	FROM:	
17.	Security at Transport layer: SSL and TLS	17-4-2023	Black Board
18.	Security at Network layer: IP Sec , System Security	то:	& PPT
		3-5-2023	
	the second second second		

Signature of the faculty

Signature of the HOD



# Enikepadu, Vijayawada 521108 Department of Computer Science Engineering TENTATIVE LESSONPLAN

## TENTATIVE LESSON PLAN: R203205C

Course Title: OBJECT ORIENTED ANALYSIS AND DESIGN(OOAD)		
Section : CSE-A	Date :09/01/2023	Page No : 01 of 03
Revision No: 01	Prepared by:D.Sailaja	Approved by : HOD

Tools: Black board, PPTs

#### **UNIT 1: Introduction**

CO1: Become familiar with all phases of OOAD

**TB:** Grady BOOCH, Robert A. Maksimchuk, Michael W. ENGLE, Bobbi J. Young, Jim Conallen, Kellia Houston, "Object-Oriented Analysis and Design with Applications", 3rd edition, 2013, PEARSON.

No. of periods	TOPIC	<b>Expected Date</b>	Mode of Delivery
1.	The Structure of Complex systems		Black Board & PPT
2.	The Inherent Complexity of Software	FROM:	
3.	Attributes of Complex System	09-01-2023	
4.	Organized and Disorganized Complexity		
5.	Bringing Order to Chaos		
6.	Designing Complex Systems	TO	
7.	Case Study: System Architecture: Satellite-Based Navigation	30-01-2023	Stack Sound

## UNIT 2: Introduction to UML, Basic Structural Modeling

CO2: Master the main features of the UML

TB: Grady BOOCH, Robert A. Maksim Chuk, Michael W. ENGLE, Bobbi J. Young, Jim Conallen, Kellia Houston, "Object- Oriented Analysis and Design with Applications", 3rd edition, 2013, PEARSON.

No. of periods	TOPIC	Date	Mode of Delivery
8.	Importance of modeling	FROM: 31-01-2023	Black Board & PPT
9.	Principles of modeling		
10.	Object oriented modeling		
11.	Conceptual model of the UML		
12.	Architecture, and Software Development Life		



# Enikepadu, Vijayawada 521108 Department of Computer Science Engineering TENTATIVE LESSONPLAN

	Cycle.	
13.	Basic Structural Modeling: Classes	
14.	Basic Structural Modeling: Relationships	TO:
15.	Basic Structural Modeling: Common Mechanisms, and diagrams.	22-02-2023
16.	Case Study: Control System: Traffic Management.	

## UNIT 3: Class & Object Diagrams, Advanced Structural Modeling

CO 3: Master the main concepts of Object Technologies and how to apply them at work and develop theability to analyze and solve challenging problem in various domains.

TB: Grady BOOCH, Robert A. Maksim Chuk, Michael W. ENGLE, Bobbi J. Young, Jim Conallen, Kellia Houston, "Object-Oriented Analysis and Design with Applications", 3rd edition, 2013, PEARSON.

No. of periods	TOPIC	Date	Mode of Delivery
17.	Class & Object Diagrams: Terms		Made at
18.	Class & Object Diagrams: Concepts		P. Built organ
19.	Class & Object Diagrams: Modeling techniques for Class & Object Diagrams.	FROM: 23-02-2023	Black Board & PPT
20.	Advanced Structural Modeling: Advanced classes		
21.	Advanced Structural Modeling: Advanced Relationships		
22.	Advanced Structural Modeling: Interfaces	25-03-2023	
23.	Advanced Structural Modeling: Types and Roles	To	
24.	Advanced Structural Modeling: Packages		
25.	Case Study: AI: Cryptanalysis		

#### UNIT 4: Basic Behavioral Modeling - I

CO 4: Master the main concepts of Object Technologies and how to apply them at work and develop theability to analyze and solve challenging problem in various domains.

TB: Grady BOOCH, Robert A. Maksim Chuk, Michael W. ENGLE, Bobbi J. Young, Jim Conallen, Kellia Houston, "Object-Oriented Analysis and Design with Applications", 3rd edition, 2013, PEARSON.



# Enikepadu, Vijayawada 521108 Department of Computer Science Engineering TENTATIVE LESSONPLAN

No. of periods	TOPIC	Date	Mode of Delivery
26.	Basic Behavioral Modeling-I: Interactions	FROM: 27-03-2023 TO: 13-04-2023	
27.	Basic Behavioral Modeling-I: Interaction diagrams		DI L Decord
28.	Basic Behavioral Modeling-I: Use cases		
29.	Basic Behavioral Modeling-I: Use case Diagrams		Black Board & PPT
30.	Basic Behavioral Modeling-I: Activity Diagrams		
31.	Case Study: Web Application: Vacation Tracking System		

## UNIT 5: Advanced Behavioral Modelling & Architectural Modelling

CO5: Learn the Object design Principles and understand how to apply them towards implementation. TB: Grady BOOCH, Robert A. Maksim Chuk, Michael W. ENGLE, Bobbi J. Young, Jim Conallen, Kellia Houston, "Object- Oriented Analysis and Design with Applications", 3rd edition, 2013, PEARSON.

No. of periods	TOPIC	Date	Mode of Delivery
32.	Advanced Behavioral Modeling: Events and signals	Na prijedniko Alien	
33.	Advanced Behavioral Modeling: state machines	FROM: 17-04-2023	Black Board & PPT
34.	Advanced Behavioral Modeling: processes and Threads		
35.	Advanced Behavioral Modeling: time and space		
36.	Advanced Behavioral Modeling: state chart diagrams.		
37.	Architectural Modeling: Component	TO:	
38.	Architectural Modeling: Deployment	03-05-2023	
39.	Architectural Modeling: Component diagrams		
40.	Architectural Modeling: Deployment diagrams		- Internation
41.	Case Study: Weather Forecasting		A PROPERTY OF THE PARTY OF THE

Signature of the faculty

Signature of the HOD

## TENTATIVE LESSON PLAN: MEAN STACK DEVELOPMENT

Olimon Trial				
Course Title	e:MI	CAN STACK DEVELOPMENT		
Section : CS		Date: 09/1/2023		
Tools: Plant	: 00	Prepared By : J.SIVA NAGA JYOTHI	Approved By	: HOD
Tools: Black	Boai		1 5/ 1	
Periods		TOPIC	Date	Mode of Delivery
UNIT-1: HT		the come the second control of the second of		
	tactic	Programming HTML 5 elements.		
Text Book:				
1) Program Edition	mming , ELad	the World Wide Web, 7th Edition, Robet W Sebesta, Pearson Elrom, Apress O'Reilly.	n. 2. Pro Mean Stack	x Development, 1st
1.		duction to Web, Overview of Web Technologies		
2.	HTN	AL - Introduction, HTML - Need, Case-insensitivity, form-independency		
3.		CTYPE Declaration, Types of Elements, HTML Elements		
4.	Attri	butes, Metadata Element, Sectioning Elements, Paragraph	days boha	
7.	Elen	nent		Lastrona
5.	Char	sion and Span Elements, List Element, Link Element, acter Entities	From	Lecture interspersed
6.	Elen	ML5 Global Attributes, Creating Table Elements, Table nents: Colspan/ Rowspan Attributes	9-01-2023 To	with discussions
7.	Elen	er, cellspacing and cellpadding attributes, Creating Form nents, Input Elements - Attributes	31-01-2023	
8.	Colo	r and Date Pickers, Select and Datalist Elements, Editing	2.1 04-2003	
9.	Med	ia, Why HTML Security		
		IL Injection, Clickjacking		
10.	HTN	il injection, Chekjacking		
11.	Ifrar	ne		
11. 12.	Ifrar HTN	ne ML5 Attributes & Events Vulnerabilities,		300
11.	Ifran HTN Loca	ne ML5 Attributes & Events Vulnerabilities, Il Storage Vulnerabilities		
11. 12.	Ifran HTM Loca HTM	ML5 Attributes & Events Vulnerabilities, al Storage Vulnerabilities ML5 - Cross-browser support, Best Practices For HTML		
11. 12. 13.	Ifrar HTN Loca HTN Web	ML5 Attributes & Events Vulnerabilities, al Storage Vulnerabilities ML5 - Cross-browser support, Best Practices For HTML Pages		
11. 12. 13. 14. UNIT-2: Jav	Ifran HTN Loca HTN Web	ML5 Attributes & Events Vulnerabilities, al Storage Vulnerabilities ML5 - Cross-browser support, Best Practices For HTML Pages ipt	to perform Client sid	de validations
11. 12. 13. 14. UNIT-2: Jav CO-1: Apply J	Ifrar HTM Loca HTM Web va Scr lavaScr ull Stac	ML5 Attributes & Events Vulnerabilities, al Storage Vulnerabilities ML5 - Cross-browser support, Best Practices For HTML Pages ipt ipt to embed programming interface for web pages and also to k JavaScript Development with MEAN, Colin J Ihrig, Adam		
11. 12. 13. 14. UNIT-2: Jav CO-1: Apply J Text Book: F	Ifrar HTM Loca HTM Web va Scr lavaScr ull Stac	ML5 Attributes & Events Vulnerabilities, al Storage Vulnerabilities ML5 - Cross-browser support, Best Practices For HTML Pages ipt ipt to embed programming interface for web pages and also to k JavaScript Development with MEAN, Colin J Ihrig, Adam		
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply J Text Book: F Pty. Ltd., O'Reil	Ifran HTM Loca HTM Web Va Scr JavaScr ull Stac ly Med	ML5 Attributes & Events Vulnerabilities, al Storage Vulnerabilities ML5 - Cross-browser support, Best Practices For HTML Pages ipt ipt to embed programming interface for web pages and also to k JavaScript Development with MEAN, Colin J Ihrig, Adam		
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply J Text Book: F Pty. Ltd., O'Reill 1)	Ifram HTM Loca HTM Web Va Scr avaScr ull Stac ly Med Why Setu	ML5 Attributes & Events Vulnerabilities, all Storage Vulnerabilities ML5 - Cross-browser support, Best Practices For HTML Pages ipt ipt to embed programming interface for web pages and also took JavaScript Development with MEAN, Colin J Ihrig, Adam ia we need JavaScript, What is JavaScript, Environment		
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply J Text Book: F Pty. Ltd., O'Reil 1) 15.	Ifrar HTM Loca HTM Web va Scr JavaScr ull Staally Med Why Setu Type	ML5 Attributes & Events Vulnerabilities, al Storage Vulnerabilities ML5 - Cross-browser support, Best Practices For HTML Pages ipt ipt to embed programming interface for web pages and also to k JavaScript Development with MEAN, Colin J Ihrig, Adam ia we need JavaScript, What is JavaScript, Environment b, Working with Identifiers		
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply J Text Book: F Pty. Ltd., O'Reill 1) 15. 16.	Ifram HTM Loca HTM Web Va Scr lavaScr ull Stacly Med Why Setu Type Oper Type	ML5 Attributes & Events Vulnerabilities, all Storage Vulnerabilities ML5 - Cross-browser support, Best Practices For HTML Pages ipt ipt to embed programming interface for web pages and also to kk JavaScript Development with MEAN, Colin J Ihrig, Adam ia we need JavaScript, What is JavaScript, Environment by, Working with Identifiers of Identifiers, Primitive and Non Primitive Data Types		SitePoint, SitePoint
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply J Text Book: F Pty. Ltd., O'Reill 1) 15. 16. 17.	Ifram HTM Loca HTM Web Va Scr lavaScr ull Staclly Med Why Setu Type Oper Type Conc	ALS Attributes & Events Vulnerabilities, al Storage Vulnerabilities ALS - Cross-browser support, Best Practices For HTML Pages ipt ipt to embed programming interface for web pages and also to k JavaScript Development with MEAN, Colin J Ihrig, Adam ia we need JavaScript, What is JavaScript, Environment b, Working with Identifiers of Identifiers, Primitive and Non Primitive Data Types ators and Types of Operators s of Statements, Non - Conditional Statements, Types of litional Statements, If and Switch Statements s of Loops, Types of Functions, Declaring and Invoking		Lecture interspersed
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply J Text Book: F Pty. Ltd., O'Reill 1) 15. 16. 17. 18.	Ifran HTM Loca HTM Web va Scr lavaScr ull Stace ly Med Why Setu Type Conc Type Func	ALS Attributes & Events Vulnerabilities, al Storage Vulnerabilities ALS - Cross-browser support, Best Practices For HTML Pages ipt ipt to embed programming interface for web pages and also to k JavaScript Development with MEAN, Colin J Ihrig, Adam ia we need JavaScript, What is JavaScript, Environment b, Working with Identifiers of Identifiers, Primitive and Non Primitive Data Types ators and Types of Operators s of Statements, Non - Conditional Statements, Types of litional Statements, If and Switch Statements s of Loops, Types of Functions, Declaring and Invoking	Bretz, 1st edition,	Lecture interspersed with
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply J Text Book: F Pty. Ltd., O'Reill 1) 15. 16. 17. 18.	Ifram HTM Loca HTM Web Va Scr lavaScr ull Stacl ly Med Why Setu Type Conc Type Func Arro	ML5 Attributes & Events Vulnerabilities, all Storage Vulnerabilities ML5 - Cross-browser support, Best Practices For HTML Pages ipt ipt to embed programming interface for web pages and also took JavaScript Development with MEAN, Colin J Ihrig, Adam ia we need JavaScript, What is JavaScript, Environment by, Working with Identifiers of Identifiers, Primitive and Non Primitive Data Types ators and Types of Operators s of Statements, Non - Conditional Statements, Types of litional Statements, If and Switch Statements s of Loops, Types of Functions, Declaring and Invoking tion	Bretz, 1st edition,	Lecture interspersed
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply J Text Book: F Pty. Ltd., O'Reill 1) 15. 16. 17. 18. 19. 20.	Ifram HTM Loca HTM Web Va Scr JavaScr Juli Stace Juli S	ML5 Attributes & Events Vulnerabilities, al Storage Vulnerabilities ML5 - Cross-browser support, Best Practices For HTML Pages ipt ipt to embed programming interface for web pages and also to k JavaScript Development with MEAN, Colin J Ihrig, Adam ia we need JavaScript, What is JavaScript, Environment b, Working with Identifiers of Identifiers, Primitive and Non Primitive Data Types ators and Types of Operators s of Statements, Non - Conditional Statements, Types of litional Statements, If and Switch Statements s of Loops, Types of Functions, Declaring and Invoking tion w Function, Function Parameters, Nested Function	From 01-02-2023 To	Lecture interspersed with
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply J Text Book: F Pty. Ltd., O'Reill 1) 15. 16. 17. 18. 19. 20. 21.	Ifram HTM Loca HTM Web Va Scr lavaScr ull Stac ly Med Why Setu Type Conc Type Func Arro Built Worl	ML5 Attributes & Events Vulnerabilities, all Storage Vulnerabilities ML5 - Cross-browser support, Best Practices For HTML Pages ipt ipt to embed programming interface for web pages and also to kk JavaScript Development with MEAN, Colin J Ihrig, Adam ia  we need JavaScript, What is JavaScript, Environment by, Working with Identifiers of Identifiers, Primitive and Non Primitive Data Types ators and Types of Operators s of Statements, Non - Conditional Statements, Types of litional Statements, If and Switch Statements s of Loops, Types of Functions, Declaring and Invoking tion w Function, Function Parameters, Nested Function -in Functions, Variable Scope in Functions	From 01-02-2023	Lecture interspersed with
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply J Text Book: F Pty. Ltd., O'Reill 1)  15. 16. 17. 18. 19. 20. 21. 22.	Ifran HTM Loca HTM Web Va Scr JavaScr	ML5 Attributes & Events Vulnerabilities, all Storage Vulnerabilities ML5 - Cross-browser support, Best Practices For HTML Pages ipt ipt to embed programming interface for web pages and also to k JavaScript Development with MEAN, Colin J Ihrig, Adam ia we need JavaScript, What is JavaScript, Environment b, Working with Identifiers of Identifiers, Primitive and Non Primitive Data Types ators and Types of Operators s of Statements, Non - Conditional Statements, Types of litional Statements, If and Switch Statements s of Loops, Types of Functions, Declaring and Invoking tion w Function, Function Parameters, Nested Function -in Functions, Variable Scope in Functions ting With Classes, Creating and Inheriting Classes	From 01-02-2023 To	Lecture interspersed with
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply J Text Book: F Pty. Ltd., O'Reill 1) 15. 16. 17. 18. 19. 20. 21. 22. 23.	Ifran HTM Loca HTM Web Va Scr lavaScr ull Stac ly Med Why Setu Type Conc Type Conc Type Func Arro Built Worl In-bu	ML5 Attributes & Events Vulnerabilities, all Storage Vulnerabilities ML5 - Cross-browser support, Best Practices For HTML Pages ipt ipt to embed programming interface for web pages and also to k JavaScript Development with MEAN, Colin J Ihrig, Adam ia we need JavaScript, What is JavaScript, Environment b, Working with Identifiers of Identifiers, Primitive and Non Primitive Data Types ators and Types of Operators s of Statements, Non - Conditional Statements, Types of litional Statements, If and Switch Statements s of Loops, Types of Functions, Declaring and Invoking tion w Function, Function Parameters, Nested Function -in Functions, Variable Scope in Functions cing With Classes, Creating and Inheriting Classes iilt Events and Handlers cing with Objects, Types of Objects ing Objects, Combining and cloning Objects using Spread	From 01-02-2023 To	Lecture interspersed with
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply J Text Book: F Pty. Ltd., O'Reill 1) 15. 16. 17. 18. 19. 20. 21. 22. 23. 24.	Ifran HTM Loca HTM Web Va Scr JavaScr	ML5 Attributes & Events Vulnerabilities, all Storage Vulnerabilities ML5 - Cross-browser support, Best Practices For HTML Pages ipt ipt to embed programming interface for web pages and also to k JavaScript Development with MEAN, Colin J Ihrig, Adam ia we need JavaScript, What is JavaScript, Environment b, Working with Identifiers of Identifiers, Primitive and Non Primitive Data Types ators and Types of Operators s of Statements, Non - Conditional Statements, Types of litional Statements, If and Switch Statements s of Loops, Types of Functions, Declaring and Invoking tion w Function, Function Parameters, Nested Function -in Functions, Variable Scope in Functions cing With Classes, Creating and Inheriting Classes iilt Events and Handlers cing with Objects, Types of Objects ing Objects, Combining and cloning Objects using Spread	From 01-02-2023 To	Lecture interspersed with

28.	Introduction to Asynchronous Programming	
29.	Callbacks, Promises, Async and Await, Executing Network Requests using Fetch API	
30.	Creating and consuming Modules	

## UNIT -3: Node. Js and Express.JS.

CO-2: To build a basic web server using Node.js, work with Node Package Manager (NPM) and recognize the need for Express.js

#### **Text Book:**

1) The Comprehensive Guide to Server-Side JavaScript Programming

31.	Why and What Node.js, How to use Node.js		
32.	Create a web server in Node.js, Node Package Manager		
33.	Modular programming in Node.js	From	
34.	Restarting Node Application, File Operations	26 -02-2023	
35.	Express Development Environment, Defining a route, Handling Routes	To 4-03-2023	Lecture
36.	Route and Query Parameters		interspersed
37.	How Middleware works, Chaining of Middlewares, Types of Middlewares,		with discussions
38.	Connecting to MongoDB with Mongoose, Validation Types and Defaults	From:	
39.	Models, CRUD Operations, API Development	13-03-2023	
40.	Why Session management, Cookies, Sessions	To 01-04-2023	
41.	Why and What Security, Helmet Middleware	010,2020	
42.	Using a Template Engine Middleware, Stylus CSS Preprocessor		

## UNIT - 4:, Typescript, MongoDB

CO-2: Develop JavaScript applications using typescript and work with document database using MongoDB.

#### **Text Book:**

- 1. MongoDB The Definitive Guide, 2nd Edition, Kristina Chodorow, O'Reilly
- 2. Programming Typescript Boris Cherny

No. of Periods	TOPIC	DATE	Mode of Delivery
43.	Installing TypeScript, Basics of TypeScript, Function, Parameter Types and Return Types		Lecture interspersed with discussions
44.	Arrow Function, Function Types, Optional and Default Parameters, Rest Parameter		
45.	Creating an Interface, Duck Typing, Function Types		
46.	Extending Interfaces, Classes, Constructor, Access Modifiers, Properties and Methods	From 03-04-2023 To	
47.	Creating and using Namespaces, Creating and using Modules, Module Formats and Loaders		
48.	Module Vs Namespace, What is Generics, What are Type Parameters, Generic Functions	24-04-2023	
49.	Generic Constraints		
50.	Module Vs Namespace, What is Generics, What are Type Parameters, Generic Functions		

51.	Generic Constraints		
52.	Introduction Module Overview, Document Database Overview		
53.	Understanding JSON, MongoDB Structure and Architecture		
54.	MongoDB Remote Management, Installing MongoDB on the local computer (Mac or Windows)		
55.	Introduction to MongoDB Cloud, Create MongoDB Atlas Cluster		
56.	GUI tools Overview, Install and Configure MongoDB Compass		
57.	Introduction to the MongoDB Shell, MongoDB Shell JavaScript Engine		
58.	MongoDB Shell JavaScript Syntax, Introduction to the MongoDB Data Types		
59.	Introduction to the CRUD Operations on documents	7. 803 Moon 's	
60.	Create and Delete Databases and Collections, Introduction to MongoDB Queries.		
TO TO	igular.JS		
Text Book:	sign dynamic and responsive web pages using Angular.js		
ext Book:	rad Green, Shyam Seshadri  What is Angular, Features of Angular, Angular Application Setup	4-9,200	
ext Book: angular Js, B	rad Green, Shyam Seshadri  What is Angular, Features of Angular, Angular Application Setup  Components and Modules, Executing Angular Application		
ext Book: angular Js, B	rad Green, Shyam Seshadri  What is Angular, Features of Angular, Angular Application Setup  Components and Modules, Executing Angular Application Elements of Template, Change Detection, Structural Directives	200	
Text Book: Angular Js, B 61.	rad Green, Shyam Seshadri  What is Angular, Features of Angular, Angular Application Setup  Components and Modules, Executing Angular Application Elements of Template, Change Detection, Structural Directives  ngIf, ngFor, ngSwitch, Custom Structural Directive		
Fext Book: Angular Js, B 61. 62. 63.	rad Green, Shyam Seshadri  What is Angular, Features of Angular, Angular Application Setup  Components and Modules, Executing Angular Application Elements of Template, Change Detection, Structural Directives ngIf, ngFor, ngSwitch, Custom Structural Directive Attribute Directives - ngStyle, ngClass, Custom Attribute Directive Property Binding, Attribute Binding	From 25.04-2023	
Fext Book: Angular Js, B 61. 62. 63. 64.	rad Green, Shyam Seshadri  What is Angular, Features of Angular, Angular Application Setup  Components and Modules, Executing Angular Application Elements of Template, Change Detection, Structural Directives nglf, ngFor, ngSwitch, Custom Structural Directive Attribute Directives - ngStyle, ngClass, Custom Attribute Directive, Property Binding, Attribute Binding Style and Event Binding, Built in Pipes, Passing Parameters to	25-04-2023 To	
Fext Book: Angular Js, B 61. 62. 63. 64. 65.	rad Green, Shyam Seshadri  What is Angular, Features of Angular, Angular Application Setup  Components and Modules, Executing Angular Application Elements of Template, Change Detection, Structural Directives nglf, ngFor, ngSwitch, Custom Structural Directive Attribute Directives - ngStyle, ngClass, Custom Attribute Directive, Property Binding, Attribute Binding Style and Event Binding, Built in Pipes, Passing Parameters to Pipes Nested Components Basics, Passing data from Container Component to Child Component	25-04-2023	
62. 63. 64. 65.	rad Green, Shyam Seshadri  What is Angular, Features of Angular, Angular Application Setup  Components and Modules, Executing Angular Application Elements of Template, Change Detection, Structural Directives  ngIf, ngFor, ngSwitch, Custom Structural Directive  Attribute Directives - ngStyle, ngClass, Custom Attribute Directive, Property Binding, Attribute Binding  Style and Event Binding, Built in Pipes, Passing Parameters to Pipes  Nested Components Basics, Passing data from Container Component to Child Component  Passing data from Child Component	25-04-2023 To	
Fext Book: Angular Js, B 61. 62. 63. 64. 65. 66.	rad Green, Shyam Seshadri  What is Angular, Features of Angular, Angular Application Setup  Components and Modules, Executing Angular Application Elements of Template, Change Detection, Structural Directives nglf, ngFor, ngSwitch, Custom Structural Directive Attribute Directives - ngStyle, ngClass, Custom Attribute Directive, Property Binding, Attribute Binding Style and Event Binding, Built in Pipes, Passing Parameters to Pipes Nested Components Basics, Passing data from Container Component to Child Component	25-04-2023 To	Lecture

Model Driven Forms or Reactive Forms, Custom Validators in

Dependency Injection, Services Basics, RxJS Observables

Communicating with different backend services using Angular

Custom Validators in Template Driven forms

, Routing Basics, Router Links, Route Guards

Server Communication using HttpClient

Asynchronous Routing, Nested Routes.

Signature of the Faculty

70.

71.

72.

73.

74.

75.

76.

Reactive Forms

HttpClient

Signature of the HOD

interspersed

with

discussions

# TENTATIVE LESSON PLAN MEAN STACK DEVELOPMENT

Section: Revision N			
Tools: Bla		Approved B	y: HOD
No. of Periods	TOPIC	Date	Mode of Delivery
Text Book:  1) Progression: 1. 2. 3. 4. 5.	ramming the World Wide Web, 7th Edition, Robet W Sebesta, Person, ELadElrom, Apress O'Reilly.  Introduction to Web, Overview of Web Technologies  HTML - Introduction, HTML - Need, Case-insensitivity, Platform-independency  DOCTYPE Declaration, Types of Elements, HTML Elements. Attributes, Metadata Element, Sectioning Elements, Paragrap Element  Division and Span Elements, List Element, Link Element, Character Entities  HTML5 Global Attributes, Creating Table Elements, Table	02-01-2023	Lecture interspersed
6. 7. 8.	Elements : Colspan/ Rowspan Attributes  Border, cellspacing and cellpadding attributes, Creating Form Elements, Input Elements - Attributes  Color and Date Pickers, Select and Datalist Elements, Editing	TO 25-01-2023	with discussions
9.	Elements  Media, Why HTML Security		
10.	HTML Injection, Clickjacking		
11.	Iframe		
12.	HTML5 Attributes & Events Vulnerabilities,		
13.	Local Storage Vulnerabilities		
14.	HTML5 - Cross-browser support, Best Practices For HTML Web Pages		
Text Book: ty. Ltd., O'Re 1)	Why we need JavaScript, What is JavaScript, Environment	am Bretz, 1st edition,	SitePoint, SitePoir
16.	Setup, Working with Identifiers  Type of Identifiers, Primitive and Non Primitive Data Types		
17.	Operators and Types of Operators		
18.	Types of Statements, Non - Conditional Statements, Types of Conditional Statements, If and Switch Statements	17-03-2023 TO	Lastons
19.	Types of Loops, Types of Functions, Declaring and Invoking Function	10-04-2023	Lecture interspersed
20.	Arrow Function, Function Parameters, Nested Function	26-01-2023	with discussions
21.	Built-in Functions, Variable Scope in Functions	To	discussions
22.	Working With Classes, Creating and Inheriting Classes	16-02-2023	
23.	In-built Events and Handlers		
24.	Working with Objects, Types of Objects		
25.	Creating Objects, Combining and cloning Objects using Spread operator		
26.	Destructuring Objects, Browser and Document Object Model		
27.	reating Arrays, Destructuring Arrays, Accessing Arrays, Array Methods		

28.	Introduction to Asynchronous Programming	
29.	Callbacks, Promises, Async and Await, Executing Network Requests using Fetch API	
30.	Creating and consuming Modules	

#### UNIT -3: Node. Js and Express.JS.

CO-2: To build a basic web server using Node.js, work with Node Package Manager (NPM) and recognize the need for Express.js

#### **Text Book:**

1) The Comprehensive Guide to Server-Side JavaScript Programming

31.	Why and What Node.js, How to use Node.js		
32.	Create a web server in Node.js, Node Package Manager		
33.	Modular programming in Node.js		Lecture interspersed with discussions
34.	Restarting Node Application, File Operations	17-02-2023	
35.	Express Development Environment, Defining a route, Handling Routes	TO 25-02-2023 & 06-03-2023	
36.	Route and Query Parameters		
37.	How Middleware works, Chaining of Middlewares, Types of Middlewares,		
38.	Connecting to MongoDB with Mongoose, Validation Types and Defaults		
39.	Models, CRUD Operations, API Development	16-03-2023	
40.	Why Session management, Cookies, Sessions		
41.	Why and What Security, Helmet Middleware		
42.	Using a Template Engine Middleware, Stylus CSS Preprocessor		

#### UNIT - 4:, Typescript, MongoDB

CO-2: Develop JavaScript applications using typescript and work with document database using MongoDB.

#### **Text Book:**

- $1.\ MongoDB-The\ Definitive\ Guide,\ 2nd\ Edition,\ Kristina\ Chodorow, O'Reilly$
- 2. Programming Typescript Boris Cherny

No. of Periods	TOPIC	DATE	Mode of Delivery
43.	Installing TypeScript, Basics of TypeScript, Function, Parameter Types and Return Types	2 CH-1923	Lecture interspersed with discussions
44.	Arrow Function, Function Types, Optional and Default Parameters, Rest Parameter		
45.	Creating an Interface, Duck Typing, Function Types		
46.	Extending Interfaces, Classes, Constructor, Access Modifiers, Properties and Methods	17-03-2023 TO	
47.	Creating and using Namespaces, Creating and using Modules, Module Formats and Loaders		
48.	Module Vs Namespace, What is Generics, What are Type Parameters, Generic Functions	10-04-2023	
49.	Generic Constraints		
50.	Module Vs Namespace, What is Generics, What are Type Parameters, Generic Functions		
	Togethe County of the County o		

51.	Generic Constraints	
52.	Introduction Module Overview, Document Database Overview	
53.	Understanding JSON, MongoDB Structure and Architecture	
54.	MongoDB Remote Management, Installing MongoDB on the local computer (Mac or Windows)	
55.	Introduction to MongoDB Cloud, Create MongoDB Atlas Cluster	
56.	GUI tools Overview, Install and Configure MongoDB Compass	
57.	Introduction to the MongoDB Shell, MongoDB Shell JavaScript Engine	
58.	MongoDB Shell JavaScript Syntax, Introduction to the MongoDB Data Types	
59.	Introduction to the CRUD Operations on documents	
60.	Create and Delete Databases and Collections, Introduction to MongoDB Queries.	
UNIT – 5: An CO-3: To desi	gular.JS ign dynamic and responsive web pages using Angular.js	
Text Book:		
Angular Js, Br	ad Green,Shyam Seshadri	
61.	What is Angular, Features of Angular, Angular Application	

61.	What is Angular, Features of Angular, Angular Application Setup		
62.	Components and Modules, Executing Angular Application		
63.	Elements of Template, Change Detection, Structural Directives		
64.	ngIf, ngFor, ngSwitch, Custom Structural Directive		
65.	Attribute Directives - ngStyle, ngClass, Custom Attribute Directive, Property Binding, Attribute Binding		
66.	Style and Event Binding, Built in Pipes, Passing Parameters to Pipes		
67.	Nested Components Basics, Passing data from Container Component to Child Component		
68.	Passing data from Child Component to ContainerComponent		
69.	Shadow DOM, Component Life Cycle, Template Driven Forms		Lecture
70.	Model Driven Forms or Reactive Forms, Custom Validators in Reactive Forms	11-04-2023	interspersed
71.	Custom Validators in Template Driven forms	TO	with
72.	Dependency Injection, Services Basics, RxJS Observables	28-04-2023	discussions
73.	Server Communication using HttpClient		
74.	Communicating with different backend services using Angular HttpClient		
75.	, Routing Basics, Router Links, Route Guards		
76.	Asynchronous Routing, Nested Routes.		

Signature of the Faculty

Signature of the HOD

# TENTATIVE LESSON PLAN: R2032051 MACHINE LEARNING

THE TIME	e : MACHINE LEARNING		
Section : C	SE A Date: 06-02-2023	12-92-2021	
Revision No	: 00 Prepared By : Dr.A.Radhika	Approved B	v · HOD
Tools: Black		Approved B	y . HOD
No. of	TOPIC	Date	Mode of
Periods	A The Clinic nor Techniques and December and Rad	Ham Madels at	Delivery
UNIT-1: Int	roduction.		Delivery
CO-1: Expla	in the fundamental usage of the concept Machine Learn	ing system	
Text Book:			
1) Hand	s-On Machine Learning with Scikit-Learn, Keras, and T	ensorFlow 2nd	Edition O'Reil
Publi	cations, 2019.	chisorriow, 2nd	Edition, O Ren
	Science and Machine Learning Mathematical and Statis	tical Mathada Di	ulc D
Kroe	se, Zdravko I. Botev, Thomas Taimre, Radislav Vaisman	25th November	2020
1.	Introduction to - Artificial Intelligence	1,23th November	2020
2.	Introduction to - Machine Learning, Deep learning		
A STATE OF THE STA	Difference between Artificial Intelligence, Machine	33.63.703	
3.	Learning, Deep learning.	1	
4.	Types of Machine Learning Systems	and remainstrate	Lecture
5.	Main Challenges of Machine Learning	09-01-2023	interspersed
6.	Introduction to Statistical Learning	ТО	with
7.	Supervised and Unsupervised Learning	25-01-2023	discussions
8.	Training and Test Loss		
9.	Tradeoffs in Statistical Learning		
10.	Estimating Risk Statistics		
11.	Sampling distribution of an estimator		
		ore of Penny L.	
12. UNIT-2: St	Empirical Risk Minimization upervised Learning(Regression/Classification):	Γ, Ranking.	Edition, O'Kel
12. UNIT-2: So CO-2: Dem Text Book:	Empirical Risk Minimization  upervised Learning(Regression/Classification): onstrate on various regression Technique ,SVM, MNIST Hands-On Machine Learning with Scikit-Learn, Keras,		2nd Edition,
12. UNIT-2: So CO-2: Dem Text Book: O'ReillyPub	Empirical Risk Minimization  upervised Learning(Regression/Classification): onstrate on various regression Technique ,SVM, MNIST Hands-On Machine Learning with Scikit-Learn, Keras, plications, 2019.		2nd Edition,
12. UNIT-2: So CO-2: Dem Text Book: O'ReillyPub	Empirical Risk Minimization  upervised Learning(Regression/Classification): onstrate on various regression Technique ,SVM, MNIST Hands-On Machine Learning with Scikit-Learn, Keras, blications, 2019.  Basic Methods: Distance based Methods		2nd Edition,
12. UNIT-2: So CO-2: Dem Text Book: O'ReillyPub 13. 14.	Empirical Risk Minimization  upervised Learning(Regression/Classification): onstrate on various regression Technique ,SVM, MNIST Hands-On Machine Learning with Scikit-Learn, Keras, olications, 2019.  Basic Methods: Distance based Methods Nearest Neighbors		2nd Edition,
12. UNIT-2: So CO-2: Dem Text Book: O'ReillyPub 13. 14. 15.	Empirical Risk Minimization  upervised Learning(Regression/Classification): onstrate on various regression Technique ,SVM, MNIST Hands-On Machine Learning with Scikit-Learn, Keras, olications, 2019.  Basic Methods: Distance based Methods Nearest Neighbors Decision Trees		2nd Edition,
12. UNIT-2: So CO-2: Dem Text Book: O'ReillyPub 13. 14. 15.	Empirical Risk Minimization  upervised Learning(Regression/Classification): onstrate on various regression Technique ,SVM, MNIST Hands-On Machine Learning with Scikit-Learn, Keras, plications, 2019.  Basic Methods: Distance based Methods Nearest Neighbors Decision Trees Naive Bayes		2nd Edition,
12. UNIT-2: So CO-2: Dem Text Book: O'ReillyPub 13. 14. 15. 16. 17.	Empirical Risk Minimization  upervised Learning(Regression/Classification): onstrate on various regression Technique ,SVM, MNIST Hands-On Machine Learning with Scikit-Learn, Keras, blications, 2019.  Basic Methods: Distance based Methods Nearest Neighbors Decision Trees Naive Bayes Linear Models: Linear Regression	and TensorFlow,	2nd Edition,
12. UNIT-2: So CO-2: Dem Text Book: O'ReillyPub 13. 14. 15. 16. 17. 18.	Empirical Risk Minimization  upervised Learning(Regression/Classification): onstrate on various regression Technique ,SVM, MNIST Hands-On Machine Learning with Scikit-Learn, Keras, plications, 2019.  Basic Methods: Distance based Methods Nearest Neighbors Decision Trees Naive Bayes	and TensorFlow,  27-01-2023 To	Lecture
12. UNIT-2: So CO-2: Dem Text Book: O'ReillyPub 13. 14. 15. 16. 17. 18. 19.	Empirical Risk Minimization  upervised Learning(Regression/Classification): onstrate on various regression Technique ,SVM, MNIST Hands-On Machine Learning with Scikit-Learn, Keras, plications, 2019.  Basic Methods: Distance based Methods Nearest Neighbors Decision Trees Naive Bayes Linear Models: Linear Regression Logistic Regression Generalized Linear Models	and TensorFlow,	Lecture interspersed with
12. UNIT-2: So CO-2: Dem Text Book: O'ReillyPub 13. 14. 15. 16. 17. 18. 19. 20.	Empirical Risk Minimization  upervised Learning(Regression/Classification): onstrate on various regression Technique ,SVM, MNIST Hands-On Machine Learning with Scikit-Learn, Keras, plications, 2019.  Basic Methods: Distance based Methods Nearest Neighbors Decision Trees Naive Bayes Linear Models: Linear Regression Logistic Regression Generalized Linear Models Support Vector Machines	and TensorFlow,  27-01-2023 To	Lecture interspersed with
12. UNIT-2: So CO-2: Dem Text Book: O'ReillyPub 13. 14. 15. 16. 17. 18. 19. 20. 21.	Empirical Risk Minimization  upervised Learning(Regression/Classification): onstrate on various regression Technique ,SVM, MNIST Hands-On Machine Learning with Scikit-Learn, Keras, blications, 2019.  Basic Methods: Distance based Methods Nearest Neighbors Decision Trees Naive Bayes Linear Models: Linear Regression Logistic Regression Generalized Linear Models Support Vector Machines Binary Classification	and TensorFlow,  27-01-2023 To	Lecture interspersed with
12. UNIT-2: So CO-2: Dem Text Book: O'ReillyPub 13. 14. 15. 16. 17. 18. 19. 20. 21. 22.	Empirical Risk Minimization  upervised Learning(Regression/Classification): onstrate on various regression Technique ,SVM, MNIST, Hands-On Machine Learning with Scikit-Learn, Keras, plications, 2019.  Basic Methods: Distance based Methods Nearest Neighbors Decision Trees Naive Bayes Linear Models: Linear Regression Logistic Regression Generalized Linear Models Support Vector Machines Binary Classification Multiclass/Structured outputs	and TensorFlow,  27-01-2023 To	Lecture interspersed with
12. UNIT-2: So CO-2: Dem Text Book: O'ReillyPub 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	Empirical Risk Minimization  upervised Learning(Regression/Classification): onstrate on various regression Technique ,SVM, MNIST Hands-On Machine Learning with Scikit-Learn, Keras, blications, 2019.  Basic Methods: Distance based Methods Nearest Neighbors Decision Trees Naive Bayes Linear Models: Linear Regression Logistic Regression Generalized Linear Models Support Vector Machines Binary Classification Multiclass/Structured outputs MNIST	and TensorFlow,  27-01-2023 To	Lecture interspersed
12. UNIT-2: So CO-2: Dem Text Book: O'ReillyPub 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24.	Empirical Risk Minimization  upervised Learning(Regression/Classification): onstrate on various regression Technique ,SVM, MNIST Hands-On Machine Learning with Scikit-Learn, Keras, blications, 2019.  Basic Methods: Distance based Methods Nearest Neighbors Decision Trees Naive Bayes Linear Models: Linear Regression Logistic Regression Generalized Linear Models Support Vector Machines Binary Classification Multiclass/Structured outputs MNIST Ranking	and TensorFlow,  27-01-2023 To	Lecture interspersed with
12. UNIT-2: So CO-2: Dem Text Book: O'ReillyPub  13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. UNIT -3: I	Empirical Risk Minimization  upervised Learning(Regression/Classification): onstrate on various regression Technique ,SVM, MNIST Hands-On Machine Learning with Scikit-Learn, Keras, blications, 2019.  Basic Methods: Distance based Methods Nearest Neighbors Decision Trees Naive Bayes Linear Models: Linear Regression Logistic Regression Generalized Linear Models Support Vector Machines Binary Classification Multiclass/Structured outputs MNIST Ranking Ensemble Learning and Random Forests	27-01-2023 To 22-02-2023	Lecture interspersed with
12. UNIT-2: So CO-2: Dem Text Book: O'ReillyPub 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. UNIT -3: I CO-3: Anal Text Book	Empirical Risk Minimization  upervised Learning(Regression/Classification): onstrate on various regression Technique ,SVM, MNIST Hands-On Machine Learning with Scikit-Learn, Keras, blications, 2019.  Basic Methods: Distance based Methods Nearest Neighbors Decision Trees Naive Bayes Linear Models: Linear Regression Logistic Regression Generalized Linear Models Support Vector Machines Binary Classification Multiclass/Structured outputs MNIST Ranking Ensemble Learning and Random Forests yze the Ensemble Learning Methods and Random Fore::Hands-On Machine Learning with Scikit-Learn, Keras,	27-01-2023 To 22-02-2023	Lecture interspersed with discussions
12. UNIT-2: So CO-2: Dem Text Book: O'ReillyPub 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. UNIT -3: I CO-3: Anal Text Book	Empirical Risk Minimization  upervised Learning(Regression/Classification): onstrate on various regression Technique ,SVM, MNIST Hands-On Machine Learning with Scikit-Learn, Keras, blications, 2019.  Basic Methods: Distance based Methods Nearest Neighbors Decision Trees Naive Bayes Linear Models: Linear Regression Logistic Regression Generalized Linear Models Support Vector Machines Binary Classification Multiclass/Structured outputs MNIST Ranking Ensemble Learning and Random Forests yze the Ensemble Learning Methods and Random Forest	27-01-2023 To 22-02-2023  sts and TensorFlow	Lecture interspersed with discussions
12.  UNIT-2: So CO-2: Dem Text Book: O'ReillyPub  13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. UNIT -3: I CO-3: Anal Text Book O'ReillyPub	Empirical Risk Minimization  upervised Learning(Regression/Classification): onstrate on various regression Technique ,SVM, MNIST Hands-On Machine Learning with Scikit-Learn, Keras, blications, 2019.  Basic Methods: Distance based Methods Nearest Neighbors Decision Trees Naive Bayes Linear Models: Linear Regression Logistic Regression Generalized Linear Models Support Vector Machines Binary Classification Multiclass/Structured outputs MNIST Ranking Ensemble Learning and Random Forests tyze the Ensemble Learning Methods and Random Forest:Hands-On Machine Learning with Scikit-Learn, Keras, blications, 2019.  Introduction to Ensemble Learning and Random Forests	and TensorFlow,  27-01-2023 To 22-02-2023  sts and TensorFlow  23-02-2023 To	Lecture interspersed with discussions, 2nd Edition,
12.  UNIT-2: So CO-2: Dem Text Book: O'ReillyPub  13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24.  UNIT -3: I CO-3: Anal Text Book O'ReillyPub  25.	Empirical Risk Minimization  upervised Learning(Regression/Classification): onstrate on various regression Technique ,SVM, MNIST Hands-On Machine Learning with Scikit-Learn, Keras, blications, 2019.  Basic Methods: Distance based Methods Nearest Neighbors Decision Trees Naive Bayes Linear Models: Linear Regression Logistic Regression Generalized Linear Models Support Vector Machines Binary Classification Multiclass/Structured outputs MNIST Ranking Ensemble Learning and Random Forests tyze the Ensemble Learning Methods and Random Forests chications, 2019.  Introduction to Ensemble Learning and Random Introduction to Ensemble Learning and Random Introduction to Ensemble Learning and Random	27-01-2023 To 22-02-2023  sts and TensorFlow	Lecture interspersed with discussions

29.	Boosting		
30.	Stacking	13-03-2023	
31.	Support Vector Machine: Linear SVM Classification	To	
32.	Nonlinear SVM Classification	22-03-2023	
33.	SVM Regression		
34.	Naïve Bayes Classifiers		

UNIT - 4:, Unsupervised Learning Techniques

CO-4: Illustrate the Clustering Techniques and Dimensionality Reduction Models in Machine Learning

**Text Book**: Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow, 2nd Edition, O'ReillyPublications, 2019.

No. of Periods	TOPIC	DATE	Mode of Delivery
35.	Unsupervised Learning Techniques: Clustering		
36.	K-Means, Limits of K-Means		
37.	Using Clustering for Image Segmentation		
38.	Using Clustering for Preprocessing		
39.	Using Clustering for Semi-Supervised Learning		Lecture interspersed with
40.	DBSCAN	23-03-2023	
41.	Gaussian Mixtures	ТО	
42.	Dimensionality Reduction: The Curse of	18-04-2023	discussions
1	Dimensionality		
43.	PCA		
44.	Using Scikit-Learn		
45.	Randomized PCA		
46.	Kernel PCA		

UNIT - 5: Neural Networks and Deep Learning

CO-5: Discuss the Neural Network Models and Fundamentals concepts of Deep Learning Text Book:

1) Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow, 2nd Edition, O'Reilly Publications, 2019.

47.	Introduction to Artificial Neural Networks with Keras		Lecture
48.	Implementing MLPs with Keras	19-04-2023	interspersed
49.	Installing TensorFlow 2	ТО	with
50.	Loading and Preprocessing Data with TensorFlow	06-05-2023	discussions

Signature of the Faculty

Signature of the HOD

## TENTATIVE LESSON PLAN: (R2032052)

N. Same State	Course Title: COMPILER DESIGF	<b>V</b>
Section: III CSE-B II-SEM	Date: 09-01-2023	Page No: 01 of 04
Revision No: 00	Prepared By: R.LAKSHMI	Approved By: HOD

Tools: MS Teams, PPTs, Moodle

No. of Periods	Topic	Date	Mode of Delivery	
Unit-1:Lexical				
CO1: At the en	d of the course, student will be able to Demor	strate phases in the	design of compiler	
	Principles, Techniques and Tools, Second Edit			
Jeffry D. Ullman	Pearson Publishers, 2007.			
1	1 Language Processors.			
2	Lexical Analysis, Structure of a Compiler.	37.13/13		
3	Bootstrapping.	39		
4	Specification of Tokens.	From	Lecture	
5	Recognition of Tokens.	18/1/2023	Interspersed	
6	The Role of Lexical Analyzer.	TO	With	
.7	Input Buffering.	30/1/2023	discussions	
8	Lexical Analyzer Generator-LEX.	30/1/2023	alseussions .	
9	Finite Automata.			
10	Regular Expressions and Finite Automata			
11	Design of a Lexical Analyzer Generator.			
<b>UNIT-II:</b> Synt	ax Analysis			
CO2: Organize	Syntax Analysis, Top Down and LL(1) gramma	rs		
TB: Compiler	Construction, Principles and Practice, Kenneth	C Louden, Cengage	Learning, 2006	
UNIX TYPE IN	The Role of the Parser,			
CO in Section 1	Context-Free Grammars,	15	Lecture	
THE CHILDREN	Parse Trees	Leh Ken Keshadi,	Interspersed	
	Left Recursion, Left Factoring,		With	
	Pre Processing Steps of Top Down Parsing		discussions	
hen he was a separate	Backtracking, , Derivations	From 1/02/23		
	Recursive Descent Parsing	To	Interspersor	
	3 Ambiguity	25/02/23	The state of the s	
	Backtracking,	17/84/23	Olecario de	
10				
	Predictive Parsing			
1:	Error Recovery in Predictive Parsing			

**UNIT-III:** Bottom Up Parsing

CO3: Organize Syntax Analysis, Top Down and LL(1) grammars

TB: Modern compiler implementation in C, Andrew W Appel, Revised edition, Cambridge University Press. 3

1.	Introduction, Difference between LR and		
	LL Parsers,		
2	Types of LR Parsers		
3	SLR Parsers		
4	Construction of SLR Parsing Tables		Lecture
5	More Powerful LR Parses		Interspersed
6	Construction of CLR (1) and LALR Parsing		With
	Tables		discussions
7	Dangling Else Ambiguity,		uiscussions
8	Error Recovery in LR Parsing,		
9	Handling Ambiguity Grammar with LR		
	Parsers.		
10	Syntax-Directed Definitions		
Niconata 11	Evaluation Orders for SDD's		
12	Applications of Syntax Directed	From	
	Translation	27/02/23	
13	Syntax-Directed Translation Schemes	To	
14	Implementing L-Attributed SDD's.	28/03/23	
15	Intermediate Code Generation: Variants		
	of Syntax Trees		
16	Three Address Code,		
17	Types and Declarations		
18	Translation of Expressions,		
10	Type Checking, Control Flow		
19	Backpatching		
20	Intermediate Code for Procedures.		
	The state code for Procedures.		
UNIT-IV: Rur	Time Environments		
CO 4: Design B	ottom Up Parsing and Construction of LR pa	rsers	
TB: Optimizing	Compilers for Modern Architectures, Randy	Allen Ken Kennedy Mo	rgan Kauffmann 2004
1.	Storage Organization.	rmen, ken kennedy, wid	igan Kaummann, 2001
2.	Run Time Storage Allocation.		
3.	Activation Records ,Procedure Calls		
4.	Displays, Code Optimization		
5.		From	Lecture
	The Principle Sources of Optimization	29/03/23	Interspersed
6.	Data-Flow Analysis	To	With
7.	Basic Blocks, Optimization of Basic Blocks.	17/04/23	discussions
8.	Structure Preserving Transformations.		
9.	Flow Graphs, Loop Optimization.		
10.	Peephole Optimization.		
UNIT-V: Code			
	synthesized, inherited attributes and syntax	directed to the	
TB: Levine LR	T Mason and D. Brown Lovered Verselling	directed translation sche	emes
1	, T. Mason and D. Brown, Lex and Yacc, edit		, 1990
1	Issues in the Design of a Code	From	

(

the state of the s	Generator.	18/04/23	1
2	Object Code Forms, eGeneration Algorithm,	To	
3	Code Generation Algorithm,	07/05/22	Lecture Interspersed
4	Register Allocation and Assignment.		With discussions

Signature of Faculty

Signature of HOD



Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada (ISO 9001:2015 Certified Institution)
Accredited with NAAC 'A' grade
Department of Computer Science and Engineering



### TENTATIVE LESSON PLAN: R2032053

Course Title: CRY	PTOGRAPHY AND NETWORK SECU	RITY
Section :CSE- B	Date : 9/1/2023	Page No : 01 of 03
Revision No: 01	Prepared by: K. Jyothi	Approved by : HOD

#### Tools: Black board, PPTs

#### **UNIT 1: Basic Principles**

**CO1**: Explain different security threats and countermeasures and foundation course of cryptography mathematics.

TB: Cryptography and Network security, 3rd edition Behrouz A Forouzan, Deb deep

Mukhopadhyay, McGraw Hill, 2015.

No. of periods	TOPIC	Expected Date	Mode of Delivery
1.	Security Goals	From:	
2.	Cryptographic Attacks	9-1-2023	Black board
3.	Services and Mechanisms	To:	& PPT
4.	Mathematics of Cryptography	28-1-2023	
5.	System Boot, Tutorial		N. S. S. S.

## **UNIT 2: Symmetric Encryption**

CO2: Classify the basic principles of symmetric key algorithms and operations of some symmetric key algorithms and asymmetric key cryptography.

**TB:** Cryptography and Network security, 3rd edition Behrouz A Forouzan, Deb deep Mukhopadhyay, McGraw Hill,2015.

No. of periods	TOPIC	Expected Date	Mode of Delivery
6.	Mathematics of Symmetric key Cryptography	FROM:	

7.	Introduction to Modern Symmetric Key Ciphers	30-01-2023 TO:	Black Board & PPT
8.	Data Encryption Standard	15-2-2023	or secretly
9.	Advanced Encryption Standard	A. P. Jansson, Nicholas	
	Constitution of the Consti		
	TOPE	Espected Date	Mode of Delivery
	Courses at respirations to the and any and any and any	#34 NH2 17-4 NB23	

## **UNIT 3: Asymmetric Encryption**

**CO 3:**Revise the basic principles of public key algorithms and working operations of some Asymmetric key algorithms such as RSA, ECC and some more.

**TB:** Cryptography and Network security, 3rd edition Behrouz A Forouzan, Deb deep Mukhopadhyay, McGraw Hill,2015.

No. of periods	TOPIC	Expected Date	Mode of Delivery
10.	Mathematics of Asymmetric key Cryptography  Asymmetric key Cryptography	FROM: 16-2-2023 TO: 22-3-2023	Black Board & PPT
	C. L P. Vo	. Management	

# UNIT 4: Data Integrity, Digital Signature Schemes & Key Management

CO4: Design applications of hash algorithms, digital signatures and key management techniques.

**TB:** Cryptography and Network security, 3rd edition Behrouz A Forouzan, Deb deep Mukhopadhyay, McGraw Hill,2015

		Delivery
Message Integrity and Message Authentication	FROM: 23-3-2023	
Cryptographic Hash functions	то:	Black Board & PPT
	13-4-2023	æFFI
ī		Message Integrity and Message Authentication  23-3-2023  Cryptographic Hash functions  TO: 13-4-2023

## UNIT 5: Network Security- I, Network Security- II,

**CO5:**Determine the knowledge of Application layer, Transport layer and network layer security protocols such as PGP, S/MIME,SSL,TSL, and IPsec.

**TB:** Cryptography and Network security, 3rd edition Behrouz A Forouzan, Deb deep Mukhopadhyay, McGraw Hill,2015

No. of periods	TOPIC	<b>Expected Date</b>	Mode of Delivery
16.	Security at Application layer: PGP and S/MIME	FROM: 17-4-2023	Black Board & PPT
17.	Security at Transport layer: SSL and TLS	TO:	
18.	Security at Network layer: IP Sec , System Security	3-5-2023	

Signature of the faculty

Signature of the HOI



# Enikepadu, Vijayawada 521108 Department of Computer Science Engineering TENTATIVE LESSONPLAN

#### **TENTATIVE LESSON PLAN: R203205C**

Course Title: OBJ	ECT ORIENTED ANALYSIS AND D	ESIGN(OOAD)
Section: CSE-B	Date :09/01/2023	Page No : 01 of 03
Revision No: 01	Prepared by:D.Sailaja	Approved by : HOD

Tools: Black board, PPTs

#### **UNIT 1: Introduction**

CO1: Become familiar with all phases of OOAD

**TB:** Grady BOOCH, Robert A. Maksimchuk, Michael W. ENGLE, Bobbi J. Young, Jim Conallen, Kellia Houston, "**Object-Oriented Analysis and Design with Applications**", 3rd edition, 2013, PEARSON.

No. of periods	TOPIC	<b>Expected Date</b>	Mode of Delivery
1.	The Structure of Complex systems		Black Board & PPT
2.	The Inherent Complexity of Software	FDOM.	
3.	Attributes of Complex System	FROM: 09-01-2023	
4.	Organized and Disorganized Complexity	05-01-2025	
5.	Bringing Order to Chaos		
6.	Designing Complex Systems	TO 30-01-2023	
7.	Case Study: System Architecture: Satellite-Based Navigation		

## UNIT 2: Introduction to UML, Basic Structural Modeling

CO2: Master the main features of the UML

6

**TB:** Grady BOOCH, Robert A. Maksim Chuk, Michael W. ENGLE, Bobbi J. Young, Jim Conallen, Kellia Houston, "Object-Oriented Analysis and Design with Applications", 3rd edition, 2013, PEARSON.

No. of periods	TOPIC	Date	Mode of Delivery
8.	Importance of modeling		Denvery
9.	Principles of modeling		
10.	Object oriented modeling	FROM:	
11.	Conceptual model of the UML	31-01-2023	
12.	Architecture, and Software Development Life		



## SRK INSTITUTE OF TECHNOLOGY

Enikepadu, Vijayawada 521108
Department of Computer Science Engineering
TENTATIVE LESSONPLAN

	Cycle.	the same of	
13.	Basic Structural Modeling: Classes	то:	Black Board
14.	Basic Structural Modeling: Relationships	22-02-2023	& PPT
15.	Basic Structural Modeling: Common Mechanisms, and diagrams.	22-02 2020	& FF1
16.	Case Study: Control System: Traffic Management.		April Bear April

## UNIT 3: Class & Object Diagrams, Advanced Structural Modeling

CO 3: Master the main concepts of Object Technologies and how to apply them at work and develop theability to analyze and solve challenging problem in various domains.

**TB:** Grady BOOCH, Robert A. Maksim Chuk, Michael W. ENGLE, Bobbi J. Young, Jim Conallen, Kellia Houston, "Object-Oriented Analysis and Design with Applications", 3rd edition, 2013, PEARSON.

No. of periods	TOPIC	Date	Mode of Delivery
17.	Class & Object Diagrams: Terms	Date	SECUL OF
18.	Class & Object Diagrams: Concepts		
19.	Class & Object Diagrams: Modeling techniques for	FROM:	
	Class & Object Diagrams.	23-02-2023	Black Board
20.	Advanced Structural Modeling: Advanced classes	25-02-2025	& PPT
21.	Advanced Structural Modeling: Advanced	12.342.023	& FFI
	Relationships	TO:	
22.	Advanced Structural Modeling: Interfaces	25-03-2023	Mach Steam
23.	Advanced Structural Modeling: Types and Roles		A PRY
24.	Advanced Structural Modeling: Packages		
25.	Case Study: AI: Cryptanalysis		

### UNIT 4: Basic Behavioral Modeling - I

CO 4: Master the main concepts of Object Technologies and how to apply them at work and develop theability to analyze and solve challenging problem in various domains.

TB: Grady BOOCH, Robert A. Maksim Chuk, Michael W. ENGLE, Bobbi J. Young, Jim Conallen, Kellia Houston, "Object- Oriented Analysis and Design with Applications", 3rd edition, 2013, PEARSON.



## SRK INSTITUTE OF TECHNOLOGY

### Enikepadu, Vijayawada 521108 **Department of Computer Science Engineering** TENTATIVE LESSONPLAN

No. of	TOPIC	Date	Delivery
periods   26.	Basic Behavioral Modeling-I: Interaction		
27.	Basic Behavioral Modeling-I: Interaction	FROM: 27-03-2023	
	1'	27-03-2023	Black Board
28.	Basic Behavioral Modeling-I: Use cases  Basic Behavioral Modeling-I: Use case	TO:	& PPT
29.		13-04-2023	
	Diagrams L. Activity Diagrams		
30.	Diagrams Basic Behavioral Modeling-I: Activity Diagrams Case Study: Web Application: Vacation		
31.	Case Study: Web Application.		
	Tracking System		

# UNIT 5: Advanced Behavioral Modelling & Architectural Modelling

CO5: Learn the Object design Principles and understand how to apply them towards implementation. TB: Grady BOOCH, Robert A. Maksim Chuk, Michael W. ENGLE, Bobbi J. Young, Jim Conallen, Kellia Houston, "Object- Oriented Analysis and Design with Applications", 3rd edition, 2013, PEARSON.

edition,2013	3, PEARSON.	Date	Mode of Delivery
No. of	TOPIC		Denvery
32.  33.  34.  35.  36.  37.  38.	Advanced Behavioral Modeling: Events and signals  Advanced Behavioral Modeling: state machines  Advanced Behavioral Modeling: processes and Threads  Advanced Behavioral Modeling: time and space  Advanced Behavioral Modeling: state chart diagrams.  Architectural Modeling: Component	FROM: 17-04-2023 TO: 03-05-2023	Black Board & PPT
39.	Architectural Modeling: Company diagrams		
40.	Architectural Modernig.  Case Study: Weather Forecasting		
41.	Case Study. West		^

Signature of the faculty

## TENTATIVE LESSON PLAN:

Course Title	MEAN STACK DEVELOPME	ENT	
	: MEAN STACK DEVELOPMENT		
Section : CS			
Revision No		Approved B	By : HOD
Tools: Black		Make you the first back on	
No. of	TOPIC	Date	Mode of
Periods			Delivery
UNIT-1: HT	tactic Programming HTML 5 elements.		
Text Book:	tractic Frogramming HTML 3 elements.		
		0 D M 64	1 D 1 1 1
Edition	mming the World Wide Web, 7th Edition, Robet W Sebesta, F., ELadElrom, Apress O'Reilly.	earson, 2. Pro Mean Sta	ck Development, 1
1.	Introduction to Web, Overview of Web Technologies	in exists	
2.	HTML - Introduction, HTML - Need, Case-insensitivity, Platform-independency	and the second	
3.	DOCTYPE Declaration, Types of Elements, HTML Eleme	nts	Laurene
100000000000000000000000000000000000000	Attributes, Metadata Element, Sectioning Elements, Paragra		Interspense
4.	Element		Lastina
5.	Division and Span Elements, List Element, Link Element, Character Entities	From	Lecture interspersed
6.	HTML5 Global Attributes, Creating Table Elements, Table	9-01-2023	with
	Elements : Colspan/ Rowspan Attributes  Border, cellspacing and cellpadding attributes, Creating For	To To	discussions
7.	Elements, Input Elements - Attributes	m 31-01-2023	
8.	Color and Date Pickers, Select and Datalist Elements, Editi	ng	
	Elements		
9.	Media, Why HTML Security	\$5.00 Yes 100 100 100 100 100 100 100 100 100 10	
10.	HTML Injection, Clickjacking	CONTRACTOR OF THE PARTY OF THE	
11.	Iframe		
11. 12.	Iframe HTML5 Attributes & Events Vulnerabilities,		LADS TO THE
11. 12. 13.	Iframe HTML5 Attributes & Events Vulnerabilities, Local Storage Vulnerabilities		
11. 12.	Iframe HTML5 Attributes & Events Vulnerabilities,		Alexander of the second
11. 12. 13.	Iframe HTML5 Attributes & Events Vulnerabilities, Local Storage Vulnerabilities HTML5 - Cross-browser support, Best Practices For HTML Web Pages		
11. 12. 13. 14. UNIT-2: Jav	Iframe HTML5 Attributes & Events Vulnerabilities, Local Storage Vulnerabilities HTML5 - Cross-browser support, Best Practices For HTML Web Pages		ide validations
11. 12. 13. 14. UNIT-2: Jav CO-1: Apply 2	Iframe HTML5 Attributes & Events Vulnerabilities, Local Storage Vulnerabilities HTML5 - Cross-browser support, Best Practices For HTMI Web Pages va Script	also to perform Client s	
11. 12. 13. 14. UNIT-2: Jav CO-1: Apply 2	Iframe HTML5 Attributes & Events Vulnerabilities, Local Storage Vulnerabilities HTML5 - Cross-browser support, Best Practices For HTML Web Pages Va Script IdvaScript to embed programming interface for web pages and well Stack JavaScript Development with MEAN, Colin J Ihrig,	also to perform Client s	
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply .  Fext Book: F	Iframe HTML5 Attributes & Events Vulnerabilities, Local Storage Vulnerabilities HTML5 - Cross-browser support, Best Practices For HTML Web Pages Va Script IdvaScript to embed programming interface for web pages and well Stack JavaScript Development with MEAN, Colin J Ihrig,	also to perform Client s	
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply J Fext Book: F Pty. Ltd., O'Reil 1)	Iframe HTML5 Attributes & Events Vulnerabilities, Local Storage Vulnerabilities HTML5 - Cross-browser support, Best Practices For HTML Web Pages  Va Script JavaScript to embed programming interface for web pages and full Stack JavaScript Development with MEAN, Colin J Ihrig, ly Media  Why we freed JavaScript, What is JavaScript, Environment	also to perform Client s	
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply J Fext Book: F Pty. Ltd., O'Reil 1) 15.	Iframe HTML5 Attributes & Events Vulnerabilities, Local Storage Vulnerabilities HTML5 - Cross-browser support, Best Practices For HTML Web Pages Va Script IdvaScript to embed programming interface for web pages and well Stack JavaScript Development with MEAN, Colin J Ihrig, ly Media  Why we freed JavaScript, What is JavaScript, Environment Setup, Working with Identifiers	also to perform Client s Adam Bretz, 1st edition,	
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply J Fext Book: F Pty. Ltd., O'Reil 1)	Iframe HTML5 Attributes & Events Vulnerabilities, Local Storage Vulnerabilities HTML5 - Cross-browser support, Best Practices For HTML Web Pages  Va Script IdvaScript to embed programming interface for web pages and full Stack JavaScript Development with MEAN, Colin J Ihrig, ly Media  Why we freed JavaScript, What is JavaScript, Environment Setup, Working with Identifiers Type of Identifiers, Primitive and Non Primitive Data Type	also to perform Client s Adam Bretz, 1st edition,	
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply J Fext Book: F Pty. Ltd., O'Reil 1) 15.	Iframe HTML5 Attributes & Events Vulnerabilities, Local Storage Vulnerabilities HTML5 - Cross-browser support, Best Practices For HTML Web Pages Va Script JavaScript to embed programming interface for web pages and sull Stack JavaScript Development with MEAN, Colin J Ihrig, ly Media  Why we Weed JavaScript, What is JavaScript, Environment Setup, Working with Identifiers  Type of Identifiers, Primitive and Non Primitive Data Type Operators and Types of Operators	also to perform Client s Adam Bretz, 1st edition	
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply . Fext Book: F Pty. Ltd., O'Reil 1) 15. 16.	Iframe HTML5 Attributes & Events Vulnerabilities, Local Storage Vulnerabilities HTML5 - Cross-browser support, Best Practices For HTML Web Pages Va Script IdvaScript to embed programming interface for web pages and well Stack JavaScript Development with MEAN, Colin J Ihrig, ly Media  Why we freed JavaScript, What is JavaScript, Environment Setup, Working with Identifiers Type of Identifiers, Primitive and Non Primitive Data Type Operators and Types of Operators Types of Statements, Non - Conditional Statements, Types Conditional Statements, If and Switch Statements	also to perform Client s Adam Bretz, 1st edition,	
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply . Fext Book: F Pty. Ltd., O'Reil 1) 15. 16. 17.	Iframe HTML5 Attributes & Events Vulnerabilities, Local Storage Vulnerabilities HTML5 - Cross-browser support, Best Practices For HTML Web Pages Va Script IdvaScript to embed programming interface for web pages and well Stack JavaScript Development with MEAN, Colin J Ihrig, ly Media  Why we Weed JavaScript, What is JavaScript, Environment Setup, Working with Identifiers  Type of Identifiers, Primitive and Non Primitive Data Type Operators and Types of Operators  Types of Statements, Non - Conditional Statements, Types	also to perform Client s Adam Bretz, 1st edition,	Lecture interspersed
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply . Fext Book: F Pty. Ltd., O'Reil 1) 15. 16. 17. 18.	Iframe HTML5 Attributes & Events Vulnerabilities, Local Storage Vulnerabilities HTML5 - Cross-browser support, Best Practices For HTMI Web Pages Va Script LavaScript to embed programming interface for web pages and full Stack JavaScript Development with MEAN, Colin J Ihrig, ly Media  Why we Weed JavaScript, What is JavaScript, Environment Setup, Working with Identifiers Type of Identifiers, Primitive and Non Primitive Data Type Operators and Types of Operators Types of Statements, Non - Conditional Statements, Types of Conditional Statements, If and Switch Statements Types of Loops, Types of Functions, Declaring and Invoking	also to perform Client s Adam Bretz, 1st edition,	SitePoint, SitePoint
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply . Fext Book: F Pty. Ltd., O'Reil 1) 15. 16. 17. 18.	Iframe HTML5 Attributes & Events Vulnerabilities, Local Storage Vulnerabilities HTML5 - Cross-browser support, Best Practices For HTML Web Pages Va Script IdvaScript to embed programming interface for web pages and full Stack JavaScript Development with MEAN, Colin J Ihrig, ly Media  Why we freed JavaScript, What is JavaScript, Environment Sctup, Working with Identifiers Type of Identifiers, Primitive and Non Primitive Data Type Operators and Types of Operators Types of Statements, Non - Conditional Statements, Types of Conditional Statements, If and Switch Statements Types of Loops, Types of Functions, Declaring and Invokin Function	also to perform Client s Adam Bretz, 1st edition,  s  of  rg  From  01-02-2023	Lecture interspersed with
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply . Fext Book: F Pty. Ltd., O'Reil 1) 15. 16. 17. 18. 19. 20. 21.	Iframe HTML5 Attributes & Events Vulnerabilities, Local Storage Vulnerabilities HTML5 - Cross-browser support, Best Practices For HTML Web Pages Va Script IdvaScript to embed programming interface for web pages and full Stack JavaScript Development with MEAN, Colin J Ihrig, Ily Media  Why we freed JavaScript, What is JavaScript, Environment Setup, Working with Identifiers Type of Identifiers, Primitive and Non Primitive Data Type Operators and Types of Operators Types of Statements, Non - Conditional Statements, Types of Conditional Statements, If and Switch Statements Types of Loops, Types of Functions, Declaring and Invoking Function Arrow Function, Function Parameters, Nested Function Built-in Functions, Variable Scope in Functions	also to perform Client s Adam Bretz, 1st edition,  s  of  rg  From	Lecture interspersed with
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply . Fext Book: Fey. Ltd., O'Reil 1) 15. 16. 17. 18. 19. 20. 21. 22.	Iframe HTML5 Attributes & Events Vulnerabilities, Local Storage Vulnerabilities HTML5 - Cross-browser support, Best Practices For HTMI Web Pages Va Script IdvaScript to embed programming interface for web pages and full Stack JavaScript Development with MEAN, Colin J Ihrig, ly Media  Why we Weed JavaScript, What is JavaScript, Environment Setup, Working with Identifiers  Type of Identifiers, Primitive and Non Primitive Data Type Operators and Types of Operators  Types of Statements, Non - Conditional Statements, Types of Conditional Statements, If and Switch Statements Types of Loops, Types of Functions, Declaring and Invoking Function Arrow Function, Function Parameters, Nested Function Built-in Functions, Variable Scope in Functions Working With Classes, Creating and Inheriting Classes	also to perform Client s Adam Bretz, 1st edition,  s  of  rg  From  01-02-2023	Lecture interspersed with
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply J Fext Book: F Pty. Ltd., O'Reil 1) 15. 16. 17. 18. 19. 20. 21. 22. 23.	Iframe HTML5 Attributes & Events Vulnerabilities, Local Storage Vulnerabilities HTML5 - Cross-browser support, Best Practices For HTMI Web Pages Va Script IdvaScript to embed programming interface for web pages and sull Stack JavaScript Development with MEAN, Colin J Ihrig, Ily Media  Why we reed JavaScript, What is JavaScript, Environment Setup, Working with Identifiers  Type of Identifiers, Primitive and Non Primitive Data Type Operators and Types of Operators  Types of Statements, Non - Conditional Statements, Types of Conditional Statements, If and Switch Statements  Types of Loops, Types of Functions, Declaring and Invoking Function  Arrow Function, Function Parameters, Nested Function  Built-in Functions, Variable Scope in Functions  Working With Classes, Creating and Inheriting Classes In-built Events and Handlers	also to perform Client s Adam Bretz, 1st edition,  s  of  From  01-02-2023  To	Lecture interspersed with
11. 12. 13. 14.  UNIT-2: Jav CO-1: Apply . Fext Book: F Pty. Ltd., O'Reil 1)  15. 16. 17. 18. 19. 20. 21. 22.	Iframe HTML5 Attributes & Events Vulnerabilities, Local Storage Vulnerabilities HTML5 - Cross-browser support, Best Practices For HTMI Web Pages Va Script IdvaScript to embed programming interface for web pages and full Stack JavaScript Development with MEAN, Colin J Ihrig, ly Media  Why we Weed JavaScript, What is JavaScript, Environment Setup, Working with Identifiers  Type of Identifiers, Primitive and Non Primitive Data Type Operators and Types of Operators  Types of Statements, Non - Conditional Statements, Types of Conditional Statements, If and Switch Statements Types of Loops, Types of Functions, Declaring and Invoking Function Arrow Function, Function Parameters, Nested Function Built-in Functions, Variable Scope in Functions Working With Classes, Creating and Inheriting Classes	also to perform Client s Adam Bretz, 1st edition  From  01-02-2023  To  25-02-2023	Lecture interspersed with

Destructuring Objects, Browser and Document Object Model reating Arrays, Destructuring Arrays, Accessing Arrays, Array Methods

26.

27.

28.	Introduction to Asynchronous Programming	
29.	Callbacks, Promises, Async and Await, Executing Network Requests using Fetch API	
30.	Creating and consuming Modules	

#### UNIT -3: Node. Js and Express.JS.

CO-2: To build a basic web server using Node.js, work with Node Package Manager (NPM) and recognize the need for Express.js

#### **Text Book:**

1) The Comprehensive Guide to Server-Side JavaScript Programming

31.	Why and What Node.js, How to use Node.js		
32.	Create a web server in Node.js, Node Package Manager		
33.	Modular programming in Node.js	From	
34.	Restarting Node Application, File Operations	26 -02-2023	
35.	Express Development Environment, Defining a route, Handling Routes	То	Lecture
36.	Route and Query Parameters	4-03-2023	interspersed
37.	How Middleware works, Chaining of Middlewares, Types of Middlewares,		with discussions
38.	Connecting to MongoDB with Mongoose, Validation Types and Defaults	From: 13-03-2023	
39.	Models, CRUD Operations, API Development	13-03-2023	
40.	Why Session management, Cookies, Sessions	To 01-04-2023	
41.	Why and What Security, Helmet Middleware		
42.	Using a Template Engine Middleware, Stylus CSS Preprocessor	20.00	Property E

#### UNIT - 4:, Typescript, MongoDB

CO-2: Develop JavaScript applications using typescript and work with document database using MongoDB.

#### **Text Book:**

- 1. MongoDB The Definitive Guide, 2nd Edition, Kristina Chodorow, O'Reilly
- 2. Programming Typescript Boris Cherny

No. of Periods	TOPIC	DATE	Mode of Delivery
43.	Installing TypeScript, Basics of TypeScript, Function, Parameter Types and Return Types		
44.	Arrow Function, Function Types, Optional and Default Parameters, Rest Parameter		
45.	Creating an Interface, Duck Typing, Function Types		
46.	Extending Interfaces, Classes, Constructor, Access Modifiers,	From	Lecture interspersed with discussions
47.	Creating and using Namespaces, Creating and using Modules,	03-04-2023 To	
48.	Module Vs Namespace, What is Generics, What are Type Parameters, Generic Functions	24-04-2023	
49.	Generic Constraints		
50.	Module Vs Namespace, What is Generics, What are Type Parameters, Generic Functions		Ŕ

51.	Generic Constraints	
52.	Introduction Module Overview, Document Database Overview	
53.	Understanding JSON, MongoDB Structure and Architecture	
54.	MongoDB Remote Management, Installing MongoDB on the local computer (Mac or Windows)	
55.	Introduction to MongoDB Cloud, Create MongoDB Atlas Cluster	
56.	GUI tools Overview, Install and Configure MongoDB Compass	
57.	Introduction to the MongoDB Shell, MongoDB Shell JavaScript Engine	
58.	MongoDB Shell JavaScript Syntax, Introduction to the MongoDB Data Types	
59.	Introduction to the CRUD Operations on documents	
60.	Create and Delete Databases and Collections, Introduction to MongoDB Queries.	
Text Book:	rad Green, Shyam Seshadri  What is Angular, Features of Angular, Angular Application Setup	
62.	Components and Modules, Executing Angular Application	
63.	Elements of Template, Change Detection, Structural Directives	
64.	ngIf, ngFor, ngSwitch, Custom Structural Directive	
65.	Attribute Directives - ngStyle, ngClass, Custom Attribute Directive, Property Binding, Attribute Binding	From
66	Style and Event Rinding Ruilt in Pines Passing Parameters to	25-04-2023

	Pipes		
67.	Nested Components Basics, Passing data from Container Component to Child Component	To 06-05-2023	
68.	Passing data from Child Component to ContainerComponent		
69.	Shadow DOM, Component Life Cycle, Template Driven Forms		
70.	Model Driven Forms or Reactive Forms, Custom Validators in Reactive Forms		Lecture
71.	Custom Validators in Template Driven forms		with discussions
72.	Dependency Injection, Services Basics, RxJS Observables		uiscussions
73.	Server Communication using HttpClient		
74.	Communicating with different backend services using Angular HttpClient		
75.	, Routing Basics, Router Links, Route Guards		
76.	Asynchronous Routing, Nested Routes.		

Signature of the Faculty

Signature of the HOD

#### TENTATIVE LESSON PLAN: MEAN STACK DEVELOPMENT

Dection -	SE-B Date: 06-02-2023		
Revision No		Approved By	: HOD
Tools: Black	1		
No. of Periods	TOPIC	Date	Mode of Delivery
Text Book:  1) Progra	'MI5. Stactic Programming HTML 5 elements.  mming the World Wide Web, 7th Edition, Robet W Sebesta, Pearson, ELadElrom, Apress O'Reilly.	n. 2. Pro Mean Stac	k Development, 1
1.	Introduction to Web, Overview of Web Technologies	Transcond Transcond	
2.	HTML - Introduction, HTML - Need, Case-insensitivity,		
	Platform-independency DOCTYPE Declaration, Types of Elements, HTML Elements	15-10-14-24	
3.	Attributes, Metadata Element, Sectioning Elements, Paragraph		
4.	Element		
5.	Division and Span Elements, List Element, Link Element, Character Entities	02-01-2023	Lecture
6.	HTML5 Global Attributes, Creating Table Elements, Table Elements: Colspan/ Rowspan Attributes	TO 25-01-2023	with discussions
7.	Border, cellspacing and cellpadding attributes, Creating Form Elements, Input Elements - Attributes  Color and Date Pickers, Select and Datalist Elements, Editing		
8.	Elements		
9.	Media, Why HTML Security	-	
10.	HTML Injection, Clickjacking		
11.	Iframe		
12.	HTML5 Attributes & Events Vulnerabilities,		
13.	Local Storage Vulnerabilities HTML5 - Cross-browser support, Best Practices For HTML		
14.	Web Pages		
Text Book: Pty. Ltd., O'Re 1)	Full Stack JavaScript Development with MEAN, Colin J Ihrig, Adam illy Media  Why we need JavaScript, What is JavaScript, Environment Setup, Working with Identifiers	n Bretz, 1st edition,	oneroing offeron
	Setup Working Willi Idelitifiers		
	Trans of Identifiers Primitive and Non Primitive Data Types	THE RESERVE THE PARTY OF THE PA	
16.	Type of Identifiers, Primitive and Non Primitive Data Types		
16. 17.	Type of Identifiers, Primitive and Non Primitive Data Types Operators and Types of Operators		
17. 18.	Type of Identifiers, Primitive and Non Primitive Data Types  Operators and Types of Operators  Types of Statements, Non - Conditional Statements, Types of  Conditional Statements If and Switch Statements		Lecture interspersed
17.	Type of Identifiers, Primitive and Non Primitive Data Types  Operators and Types of Operators  Types of Statements, Non - Conditional Statements, Types of Conditional Statements, If and Switch Statements  Types of Loops, Types of Functions, Declaring and Invoking Function	26 01 2023	interspersed with
17. 18.	Type of Identifiers, Primitive and Non Primitive Data Types  Operators and Types of Operators  Types of Statements, Non - Conditional Statements, Types of Conditional Statements, If and Switch Statements  Types of Loops, Types of Functions, Declaring and Invoking Function  Arrow Function, Function Parameters, Nested Function	26-01-2023 To	interspersed with
17. 18. 19.	Type of Identifiers, Primitive and Non Primitive Data Types  Operators and Types of Operators  Types of Statements, Non - Conditional Statements, Types of Conditional Statements, If and Switch Statements  Types of Loops, Types of Functions, Declaring and Invoking Function  Arrow Function, Function Parameters, Nested Function  Built-in Functions, Variable Scope in Functions	26-01-2023 To 16-02-2023	interspersed
17. 18. 19.	Type of Identifiers, Primitive and Non Primitive Data Types  Operators and Types of Operators  Types of Statements, Non - Conditional Statements, Types of Conditional Statements, If and Switch Statements  Types of Loops, Types of Functions, Declaring and Invoking Function  Arrow Function, Function Parameters, Nested Function  Built-in Functions, Variable Scope in Functions  Working With Classes, Creating and Inheriting Classes	То	interspersed with
17. 18. 19. 20. 21.	Type of Identifiers, Primitive and Non Primitive Data Types  Operators and Types of Operators  Types of Statements, Non - Conditional Statements, Types of Conditional Statements, If and Switch Statements  Types of Loops, Types of Functions, Declaring and Invoking Function  Arrow Function, Function Parameters, Nested Function  Built-in Functions, Variable Scope in Functions  Working With Classes, Creating and Inheriting Classes  In-built Events and Handlers	То	interspersed with
17. 18. 19. 20. 21. 22.	Type of Identifiers, Primitive and Non Primitive Data Types  Operators and Types of Operators  Types of Statements, Non - Conditional Statements, Types of Conditional Statements, If and Switch Statements  Types of Loops, Types of Functions, Declaring and Invoking Function  Arrow Function, Function Parameters, Nested Function  Built-in Functions, Variable Scope in Functions  Working With Classes, Creating and Inheriting Classes  In-built Events and Handlers  Working with Objects, Types of Objects	То	interspersed with
17. 18. 19. 20. 21. 22. 23.	Type of Identifiers, Primitive and Non Primitive Data Types  Operators and Types of Operators  Types of Statements, Non - Conditional Statements, Types of Conditional Statements, If and Switch Statements  Types of Loops, Types of Functions, Declaring and Invoking Function  Arrow Function, Function Parameters, Nested Function  Built-in Functions, Variable Scope in Functions  Working With Classes, Creating and Inheriting Classes  In-built Events and Handlers  Working with Objects, Types of Objects  Creating Objects, Combining and cloning Objects using Spread operator	То	interspersed with
17. 18. 19. 20. 21. 22. 23. 24.	Type of Identifiers, Primitive and Non Primitive Data Types  Operators and Types of Operators  Types of Statements, Non - Conditional Statements, Types of Conditional Statements, If and Switch Statements  Types of Loops, Types of Functions, Declaring and Invoking Function  Arrow Function, Function Parameters, Nested Function  Built-in Functions, Variable Scope in Functions  Working With Classes, Creating and Inheriting Classes  In-built Events and Handlers  Working with Objects, Types of Objects  Creating Objects, Combining and cloning Objects using Spread	То	interspersed with

28.	Introduction to Asynchronous Programming
29.	Callbacks, Promises, Async and Await, Executing Network Requests using Fetch API
30.	Creating and consuming Modules

#### UNIT -3: Node. Js and Express.JS.

CO-2: To build a basic web server using Node.js, work with Node Package Manager (NPM) and recognize the need for Express.js

#### **Text Book:**

1) The Comprehensive Guide to Server-Side JavaScript Programming

31.	Why and What Node.js, How to use Node.js		Lecture interspersed with discussions
32.	Create a web server in Node.js, Node Package Manager		
33.	Modular programming in Node.js	45 00 0002	
34.	Restarting Node Application, File Operations	17-02-2023 TO	
35.	Express Development Environment, Defining a route, Handling Routes	25-02-2023	
36.	Route and Query Parameters	&	
37.	How Middleware works, Chaining of Middlewares, Types of Middlewares,		
38.	Connecting to MongoDB with Mongoose, Validation Types and Defaults	06-03-2023 To	
39.	Models, CRUD Operations, API Development	16-03-2023	
40.	Why Session management, Cookies, Sessions		
41.	Why and What Security, Helmet Middleware		
42.	Using a Template Engine Middleware, Stylus CSS Preprocessor		

#### UNIT - 4:, Typescript, MongoDB

CO-2: Develop JavaScript applications using typescript and work with document database using MongoDB.

#### **Text Book:**

- 1. MongoDB The Definitive Guide, 2nd Edition, Kristina Chodorow, O'Reilly
- 2. Programming Typescript Boris Cherny

No. of Periods	TOPIC	DATE	Mode of Delivery
43.	Installing TypeScript, Basics of TypeScript, Function, Parameter Types and Return Types		Lecture interspersed with discussions
44.	Arrow Function, Function Types, Optional and Default Parameters, Rest Parameter	17-03-2023	
45.	Creating an Interface, Duck Typing, Function Types	TO	
46.	Extending Interfaces, Classes, Constructor, Access Modifiers, Properties and Methods	10-04-2023	
47.	Creating and using Namespaces, Creating and using Modules, Module Formats and Loaders		

48.	Module Vs Namespace, What is Generics, What are Type Parameters, Generic Functions		
49.	Generic Constraints		
50.	Introduction Module Overview, Document Database Overview		
51.	Understanding JSON, MongoDB Structure and Architecture		
52.	MongoDB Remote Management, Installing MongoDB on the local computer (Mac or Windows)		
53.	Introduction to MongoDB Cloud, Create MongoDB Atlas Cluster		
54.	GUI tools Overview, Install and Configure MongoDB Compass		
55.	Introduction to the MongoDB Shell, MongoDB Shell JavaScript Engine		
56.	MongoDB Shell JavaScript Syntax, Introduction to the MongoDB Data Types		
57.	Introduction to the CRUD Operations on documents		
58.	Create and Delete Databases and Collections, Introduction to MongoDB Queries.		
t Book: Jular Js, Br	gular.JS  gn dynamic and responsive web pages using Angular.js  ad Green,Shyam Seshadri  What is Angular Features of Angular Angular Angular Angular		
t Book:	ad Green,Shyam Seshadri What is Angular, Features of Angular, Angular Application		
t Book: Jular Js, Br	ign dynamic and responsive web pages using Angular.js ad Green,Shyam Seshadri		
t Book: gular Js, Br 59.	ad Green,Shyam Seshadri  What is Angular, Features of Angular, Angular Application Setup		
t Book: gular Js, Br 59.	ad Green, Shyam Seshadri What is Angular, Features of Angular, Angular Application Setup Components and Modules, Executing Angular Application		
t Book: gular Js, Br 59. 60. 61.	ad Green, Shyam Seshadri  What is Angular, Features of Angular, Angular Application Setup  Components and Modules, Executing Angular Application  Elements of Template, Change Detection, Structural Directives		
t Book: gular Js, Br 59.  60. 61. 62. 63.	ad Green, Shyam Seshadri  What is Angular, Features of Angular, Angular Application Setup  Components and Modules, Executing Angular Application  Elements of Template, Change Detection, Structural Directives  ngIf, ngFor, ngSwitch, Custom Structural Directive  Attribute Directives - ngStyle, ngClass, Custom Attribute Directive, Property Binding, Attribute Binding  Style and Event Binding, Built in Pipes, Passing Parameters to Pipes		
t Book: gular Js, Br 59. 60. 61. 62. 63.	ad Green, Shyam Seshadri  What is Angular, Features of Angular, Angular Application Setup  Components and Modules, Executing Angular Application  Elements of Template, Change Detection, Structural Directives  ngIf, ngFor, ngSwitch, Custom Structural Directive  Attribute Directives - ngStyle, ngClass, Custom Attribute Directive, Property Binding, Attribute Binding  Style and Event Binding, Built in Pipes, Passing Parameters to		
t Book: gular Js, Br 59.  60. 61. 62. 63.	ad Green, Shyam Seshadri  What is Angular, Features of Angular, Angular Application Setup  Components and Modules, Executing Angular Application  Elements of Template, Change Detection, Structural Directives  ngIf, ngFor, ngSwitch, Custom Structural Directive  Attribute Directives - ngStyle, ngClass, Custom Attribute Directive, Property Binding, Attribute Binding  Style and Event Binding, Built in Pipes, Passing Parameters to Pipes  Nested Components Basics, Passing data from Container		
t Book: gular Js, Br 59.  60. 61. 62. 63. 64.	ad Green, Shyam Seshadri  What is Angular, Features of Angular, Angular Application Setup  Components and Modules, Executing Angular Application  Elements of Template, Change Detection, Structural Directives  ngIf, ngFor, ngSwitch, Custom Structural Directive  Attribute Directives - ngStyle, ngClass, Custom Attribute Directive, Property Binding, Attribute Binding  Style and Event Binding, Built in Pipes, Passing Parameters to Pipes  Nested Components Basics, Passing data from Container Component to Child Component		
60. 61. 62. 63. 64. 65. 66. 67.	ad Green, Shyam Seshadri  What is Angular, Features of Angular, Angular Application Setup  Components and Modules, Executing Angular Application Elements of Template, Change Detection, Structural Directives nglf, ngFor, ngSwitch, Custom Structural Directive Attribute Directives - ngStyle, ngClass, Custom Attribute Directive, Property Binding, Attribute Binding Style and Event Binding, Built in Pipes, Passing Parameters to Pipes Nested Components Basics, Passing data from Container Component to Child Component	11-04-2023	
60. 61. 62. 63. 64. 65. 66.	ad Green, Shyam Seshadri  What is Angular, Features of Angular, Angular Application Setup  Components and Modules, Executing Angular Application  Elements of Template, Change Detection, Structural Directives  ngIf, ngFor, ngSwitch, Custom Structural Directive  Attribute Directives - ngStyle, ngClass, Custom Attribute Directive, Property Binding, Attribute Binding  Style and Event Binding, Built in Pipes, Passing Parameters to Pipes  Nested Components Basics, Passing data from Container Component to Child Component  Passing data from Child Component to ContainerComponent  Shadow DOM, Component Life Cycle, Template Driven Forms  Model Driven Forms or Reactive Forms, Custom Validators in	ТО	interspersed with
60. 61. 62. 63. 64. 65. 66. 67.	ad Green, Shyam Seshadri  What is Angular, Features of Angular, Angular Application Setup  Components and Modules, Executing Angular Application  Elements of Template, Change Detection, Structural Directives  ngIf, ngFor, ngSwitch, Custom Structural Directive  Attribute Directives - ngStyle, ngClass, Custom Attribute  Directive, Property Binding, Attribute Binding  Style and Event Binding, Built in Pipes, Passing Parameters to Pipes  Nested Components Basics, Passing data from Container  Component to Child Component  Passing data from Child Component to ContainerComponent  Shadow DOM, Component Life Cycle, Template Driven Forms  Model Driven Forms or Reactive Forms, Custom Validators in Reactive Forms		interspersed with
t Book: gular Js, Br 59. 60. 61. 62. 63. 64. 65. 66. 67. 68.	ad Green, Shyam Seshadri  What is Angular, Features of Angular, Angular Application Setup  Components and Modules, Executing Angular Application Elements of Template, Change Detection, Structural Directives ngIf, ngFor, ngSwitch, Custom Structural Directive  Attribute Directives - ngStyle, ngClass, Custom Attribute Directive, Property Binding, Attribute Binding Style and Event Binding, Built in Pipes, Passing Parameters to Pipes  Nested Components Basics, Passing data from Container Component to Child Component Passing data from Child Component to ContainerComponent Shadow DOM, Component Life Cycle, Template Driven Forms Model Driven Forms or Reactive Forms, Custom Validators in Reactive Forms Custom Validators in Template Driven forms	ТО	interspersed with
60. 61. 62. 63. 64. 65. 66. 67. 68.	ad Green, Shyam Seshadri  What is Angular, Features of Angular, Angular Application Setup  Components and Modules, Executing Angular Application  Elements of Template, Change Detection, Structural Directives  ngIf, ngFor, ngSwitch, Custom Structural Directive  Attribute Directives - ngStyle, ngClass, Custom Attribute  Directive, Property Binding, Attribute Binding  Style and Event Binding, Built in Pipes, Passing Parameters to Pipes  Nested Components Basics, Passing data from Container  Component to Child Component  Passing data from Child Component to ContainerComponent  Shadow DOM, Component Life Cycle, Template Driven Forms  Model Driven Forms or Reactive Forms, Custom Validators in Reactive Forms  Custom Validators in Template Driven forms  Dependency Injection, Services Basics, RxJS Observables	ТО	interspersed

, Routing Basics, Router Links, Route Guards

Asynchronous Routing, Nested Routes.

Signature of the Faculty

73.

74.

Signature of the HOD



## Approved by AICTE, Affiliated to JNTUK, Kakinada Department of Computer Science and Engineering SRK INSTITUTE OF TECHNOLOGY (ISO 9001:2015 Certified Institution) Enikepadu, Vijayawada 521108 NAAC Accredited with 'A' grade



Academic year: 2022-2023

Year / semester: III year II semester

TEACHING NOTES

Name of the faculty: J. Siva Naga Jyothi

Date: 15-02-2023

2

Subject: Mean Stack Development

Section: Cse-A

Black Board Methodology Black Board Black Board Black Board Black Board Projector Teaching Projector Projector Projector Projector JavaScript, PHP, Java, JSP, XML and AJAX, Black book,1st Edition, 62 Specific Ways to Improve your An Introduction to Web Design, Programming, 1st Edition, Paul S Wang, SandaSKatila, Cengage Beginning Node.js, Express & Web Technologies, HTML, Reference book MongoDB Development Beginning angular JS Effective Typescript Dream Tech. Typescript Learning Full Stack JavaScript Development with Colin J Ihrig, Adam Bretz Chodorow, O'Reilly Sebastian Springer Author Brad Green Shyam Seshadri Programming the World Wide Web, 7th Robet W Sebesta Boris Cherny Node js: The Comprehensive Guide to MongoDB - The Definitive Guide, 2nd Edition, Robet W Sebesta, Pearson. 2. Pro MEAN, Colin J Ihrig, Adam Bretz, 1st Mean Stack Development, 1st Edition, edition, SitePoint, SitePoint Pty. Ltd., Server-SideJavaScript Programming Edition, Kristina Chodorow, O'Reilly Title of thetext book ELadElrom, Apress O'Reilly. Programming Typescript O'Reilly Media Boris Cherny Angular Js Chapter Name Angular.js MongoDB Typescript Node.Js Express.js JavaScript HTML 5 Unit No H IV S. No

Faculty / Date Prepared: -

Verified: Survey HOD Date

## TENTATIVE LESSON PLAN:R2022051

Section: CS	e: Probability and Statistics				
0-11	EA Date -30 -01-2022		Page N	No :00	
Revision No	2:00 Prepared By: G.Koteswa	ramma		oved By : HOD	
Tools: Blac	k board			wed by . HOD	
"Fundament	fy the concepts of data science and its importance	e (L4) or (L	.2).		
No. of	ital of Mathematical Statistics" by S. C. C	Supta and	V.K. Ka	poor,	
Periods	TOPIC	DAT	E	Mode of Delivery	
	UNIT-I: Descriptive statistics and metho	1 0 1			
	science	ds for dat	a		
1.	Data science and introduction to statistics				
2.	Population VSsample				
3.	Collection of data				
4.	Primary data and secondary data		7,15.1		
5.	Type of variables: dependent and				
	independent variables.			Lecture	
6.	Categorical and continuous variables.	From	n:	interspersed	
7.	Data visualization.	30-01-		with	
8.	Measures of central tendency	To		discussions	
9.	Mean, median, mode, G.M, H.M.	17-02-	2023		
10.	Measures of variability.				
11.	Range, quartile deviation, mean				
	deviation, standard deviation.				
12.	Skewness and kurtosis				
13.	Revision				
C. C. Carlo	UNIT-II: Correlation and curve fitting				
CO2: Interp	UNIT-II: Correlation and curve fitting oret the association of characteristics and thro	ough corre	ation		
CO2: Interpland regress	UNIT-II: Correlation and curve fitting oret the association of characteristics and threion tools				
CO2: Interpland regress	UNIT-II: Correlation and curve fitting oret the association of characteristics and thro				
CO2: Interpand regress "Fundame Kapoor,	UNIT-II: Correlation and curve fitting oret the association of characteristics and threion tools and of Mathematical Statistics" by S. C.				
CO2: Interpand regress "Fundame Kapoor, 14.	UNIT-II: Correlation and curve fitting oret the association of characteristics and throion tools ntal of Mathematical Statistics" by S. C. Correlation				
CO2: Interpand regress "Fundame Kapoor, 14. 15.	UNIT-II: Correlation and curve fitting oret the association of characteristics and threion tools and of Mathematical Statistics" by S. C. Correlation  Correlation coefficient				
CO2: Interpand regress "Fundame Kapoor, 14. 15. 16.	UNIT-II: Correlation and curve fitting oret the association of characteristics and three ion tools ntal of Mathematical Statistics" by S. C. Correlation  Correlation coefficient  Correlation coefficient problems				
CO2: Interpand regress "Fundame Kapoor, 14. 15. 16. 17.	UNIT-II: Correlation and curve fitting oret the association of characteristics and three ion tools ontal of Mathematical Statistics" by S. C. Correlation  Correlation coefficient  Correlation coefficient problems  Rank correlation, problems				
CO2: Interpand regress "Fundame Kapoor, 14. 15. 16. 17.	UNIT-II: Correlation and curve fitting oret the association of characteristics and three ion tools ntal of Mathematical Statistics" by S. C. Correlation  Correlation  Correlation coefficient  Correlation coefficient problems  Rank correlation, problems  Regression coefficients	. Gupta a	ad V.K.		
CO2: Interpand regress "Fundame Kapoor, 14. 15. 16. 17. 18.	UNIT-II: Correlation and curve fitting oret the association of characteristics and three ion tools ontal of Mathematical Statistics" by S. C. Correlation  Correlation  Correlation coefficient  Correlation coefficient problems  Rank correlation, problems  Regression coefficients  Regression properties	Gupta a	om:		
CO2: Interpand regress "Fundame Kapoor, 14. 15. 16. 17. 18. 19. 20.	UNIT-II: Correlation and curve fitting oret the association of characteristics and thresion tools and of Mathematical Statistics" by S. C. Correlation  Correlation  Correlation coefficient  Correlation coefficient problems  Rank correlation, problems  Regression coefficients  Regression properties  Regression lines	Fro	ad V.K.	Lecture	
CO2: Interpand regress "Fundame Kapoor, 14. 15. 16. 17. 18. 19. 20. 21.	UNIT-II: Correlation and curve fitting oret the association of characteristics and three ion tools of Mathematical Statistics" by S. C. Correlation  Correlation  Correlation coefficient  Correlation coefficient problems  Rank correlation, problems  Regression coefficients  Regression properties  Regression lines  Method of least squares	Fro	om: 2023		
CO2: Interpand regress "Fundame Kapoor, 14. 15. 16. 17. 18. 19. 20. 21. 22.	UNIT-II: Correlation and curve fitting oret the association of characteristics and thresion tools and of Mathematical Statistics" by S. C. Correlation  Correlation  Correlation coefficient  Correlation coefficient problems  Rank correlation, problems  Regression coefficients  Regression properties  Regression lines  Method of least squares  Straight line, problems	Fro	om: 2023	Lecture interspersed with	
CO2: Interpand regress "Fundame Kapoor, 14. 15. 16. 17. 18. 19. 20. 21. 22.	UNIT-II: Correlation and curve fitting oret the association of characteristics and three ion tools of Mathematical Statistics" by S. C. Correlation  Correlation coefficient  Correlation coefficient problems  Rank correlation, problems  Regression coefficients  Regression properties  Regression lines  Method of least squares  Straight line, problems  Parabola, problems	Fro	om: 2023	interspersed	
CO2: Interpand regress "Fundame Kapoor, 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24.	UNIT-II: Correlation and curve fitting oret the association of characteristics and thresion tools ontal of Mathematical Statistics" by S. C. Correlation  Correlation  Correlation coefficient  Correlation coefficient problems  Rank correlation, problems  Regression coefficients  Regression properties  Regression lines  Method of least squares  Straight line, problems  Parabola, problems  Exponential curves, power curves	Fro	om: 2023	interspersed with	
CO2: Interpand regress "Fundame Kapoor, 14. 15. 16. 17. 18. 19. 20. 21. 22.	UNIT-II: Correlation and curve fitting oret the association of characteristics and three ion tools of Mathematical Statistics" by S. C. Correlation  Correlation coefficient  Correlation coefficient problems  Rank correlation, problems  Regression coefficients  Regression properties  Regression lines  Method of least squares  Straight line, problems  Parabola, problems	Fro	om: 2023	interspersed with	

"Fundame Kapoor,	ental Of Mathematical Statistics"By S. C.	Gupta And V.K.	Lecture
26. 27.	Definition of probability.  Conditional probability and their		interspersed with
20	problems.		discussions
28.	Baye's theorem and their problems.		
29.	Random variables		
30.	Discrete random variables.		
31.	problems.		
32.	Continuous random variables	From:	
33.	problems.	14-03-2023	
34.	Distribution function	To:	
35.	problems	07-04-2023	
36.	Mathematical expectation and variance		
37.	problems		
38.	Binomial distribution		
39.	Poisson distribution		
40.	Uniform distribution		
41.	Normal distribution		
42.	problems		
	UNIT IV: Sampling theory		
43.	nental Of Mathematical Statistics"By S. C. Kapoor,  Population and samples	Gupta And V.K.	
44.	Sampling distribution of means and		
15	variances(definition only)		
45.	Central limit theorem (without proof) Introduction to t distribution		
		From:	Lecture
47.	Introduction to chew square distribution	11-04-2023	interspersed
48.	Introduction to,F-distributions	To:	with
49.	Point and interval distribution	21-04-2021	discussions
50.	problems   Maximum error of estimate.		
51.			
52.	problems   Sampling distribution of means and		
53.	variances(definition only)		
54.	problems		
	UNIT V:Tests of hypothesis		
The state of the s	er the statistical inferential methods based of	on small and large	
	tests nental Of Mathematical Statistics"By S. C	. Gupta And V.K.	
Kapoor,			
55.	Introduction	D	
56.	Hypothesis	From:	
57.	Null and alternative hypothesis	25-04-2023	
58.	Type I&II errors	To:	
59.	Level of significance	12-05-2023	
60.	One tail and two tail tests		

61.	Tests concerning one mean and two means		Tarting
62.	Tests concerning one mean and two means		Lecture interspersed
63.	Large and small samples		with
64.	Two means problems(large samples)		discussions
65.	Two means problems(small samples)	A STREET OF LAND	discussions
66.	Single mean problems(large samples)		
67.	Single mean problems(small samples)	P TAVE STATE	
68.	Tests on proportion		
69.	Problems		
70.	Tests on proportion	The Transfer of	
71.	Problems		

G. Koteswaramma

**Faculty Signature** 

HOD Signature

## **TENTATIVE LESSON PLAN: R2022054**

	GGE A	Course Title: JAVA PROGRAMMING  Date: 06-02-2023	Page: 01 of 0	13
Section:	CSE-A		Approved By	y:HOD
Revision	No: 00	Prepared By: Dr.Saravana Priya		
Tools: B	lack Boa	rd, PPTs		Mode of
			Date	Delivery
S.No		TOPIC		Denvery
The second second	ble to reali e complete	ze the concept of Object Oriented Programming & Java Programming & Reference Java, 8th edition, Herbert Schildt, TMH.	amming Constru	ıcts.
	Program	n Structure in Java: Introduction, Writing Simple Java		
1			20.	
	Comme	and I ine Arguments, User input to Hogianis, 2504	2.2023	
2			Teller	Lecture interspersed with discussions
3	Introdu	action, Data Types in Java, Declaration of Variables Casting, Scope of Variable Identifier, Literal Constants, Casting, Scope of Variable Identifier, Casting,	2623	
-	Type C	Casting, Scope of Variable Identifier, Enteral Constants, Static Olic Constants, Formatted Output with printf() Method, Stat		
4	Symbo	eles and Methods, Attribute Final	From: 06- 02-2023 To: 26-02-	
	Variati	of action to Operators, Precedence and Associativity of action to Operators, Precedence and Associativity of Decretors,		
5	Operat	tors, Assignment Operator (=), Basic Arithmetic Operators,  tors, Ternary Operator, Ternary Operator,		
37	Incren	tors, Assignment Operator (=), Basic Artiflinede operator, nent (++) and Decrement () Operators, TernaryOperator,	2023	
6	Relati	onal Operators  Division Logical Operators, Control	2020	
-	Boole	onal Operators an Logical Operators, Bitwise Logical Operators, Control		
7	Staten	nents: Introduction, if Expression,		
8	Neste	d if Expressions, n—cisc Expression		
Add	Switc	on Statements, while Expression, do-while Loop		
9	and the second second	10 1-00		
10	for L	oop, Nested for Loop  Statement, Continue Statement		
11		Each for Loop, Break Statemen		
8 9 10 11 12	Neste Switc Iterati for Lo For–I	h Statement ion Statements, while Expression, do-while Loop oop, Nested for Loop Each for Loop, Break Statement, Continue Statement	objects, inherit	ance, packa
CO2	: Able to	describe the basic concepts		
Enun	neration, an	ad various keywords. ete Reference Java, 8th edition, Herbert Schildt, TMH		
TB:	The compl	ete Reference surus,		
	Class	ses and Objects: Introduction, Class Declaration and Modifiers,		
1	3 Clas	ses and Objects: Introduction, Objects s Members, Declaration of Class Objects Another Access Control for Class		
	Assi	s Members, Declaration of Class Objects gning One Object to Another, Access Control for Class gning One Object to Another, Access Control for Class	From:27-	
1	4 11/10	phore Accessing Filvate Management	02-2023	Lecture
1	- Con	etructor Methods 101 Class		intersperse
1		erloaded Constructor Methods  First Class and Methods	То:28-03-	with discussion
1	7 Nes	sted Classes, Final Class and Methods sing Arguments by Value and by Reference, Keyword this Sering Methods, Overloaded Methods,	2023	discussion
1	8 Pas	sing Arguments by Value and by Reference, respectively.  thods: Introduction, Defining Methods, Overloaded Methods,		

20	Class Objects as Parameters in Methods, Access Control		
20	hat the instance of the static		
21	Overriding Methods, Attributes Final and Static		
INIT_I	II Arrays:		
	the concept of exception handling and Input/ Output operations.		
rR•The	1-4- Deference Java Xth edition, Herbert Schildt, 1711.		
22	A moves Introduction Declaration and Illitalization of That's		
23	Storage of Array in Computer Memory, Accessing Elements of		
24	Operations on Array Elements, Assigning Array to Another Array		
25	Dynamic Change of Array Size, Sorting of Arrays		
26	Search for Values in Arrays, Class Arrays,		
	Two-dimensional Arrays, Arrays of Varying Lengths	E20	Lecture interspersed
27	Three-dimensional Arrays, Arrays as Vectors	From:29-	
28	Inheritance: Introduction, Process of Inheritance, Types of	3-2023	
29	Inheritances	To:11-4-	with
20	Arrays: Introduction, Declaration and Initialization of Arrays	2023	discussions
30	Universal Super Class Object Class, Inhibiting Inheritance of Class		
31	Heing Final Access		
	Control and Inheritance, Multilevel Inheritance, Application of		
32	Varyand Super		
	Constructor Method and Inheritance, Method Overriding, Dynamic		
30	Method Dispatch, Abstract Classes, Interfaces		
33	Interfaces: Introduction, Declaration of Interface,		
34	Implementation of Interface, Multiple Interfaces		
arenza (Ella	Nested Interfaces, Inheritance of Interfaces, Default Methods in		
35	Interfaces		
36	Static Methods in Interface, Functional Interfaces, Annotations.		
37	Tutorial		
CO4.	-IV Packages and Java Library: Able to design the applications of Java & Java applet the complete Reference Java, 8th edition, Herbert Schildt, TMH		Has
38	Packages and Java Library: Introduction, Defining Package, Importing Packages and Classes into Programs		
39	Path and Class Path, Access Control, Packages in Java SE	From:19-	Tt-
40	Java.lang Package and its Classes, Class Object, Enumeration	4-2023	Lecture intersperse
41	class Math, Wrapper Classes, Auto-boxing and Auto-unboxing		with
42	Java util Classes and Interfaces		discussion
43	Formatter Class, Random Class, Time Package	То:29-4-	
44	Class Instant (java.time.Instant), Formatting for Date/Time in Java, Temporal Adjusters Class	2023	
	Exception Handling: Introduction, Hierarchy of Standard Exception		
45	Classes		
45 46			

48	Unchecked Exceptions, Checked Exceptions		
49	try-with-resources, Catching Subclass Exception		
50	Custom Exceptions, Nested try and catch Blocks		
51	Rethrowing Exception, Throws		
CO5: At	V String Handling in Java:  ole to Analyze & Design the concept of Event Handling and Abstract Wing e complete Reference Java, 8th edition, Herbert Schildt, TMH	ndow Toolkit.	
52	String Handling in Java: Introduction, Interface Char Sequence, Class String		
53	Methods for Extracting Characters from Strings Methods for Comparison of Strings, Methods for Modifying Strings		Lecture
54	Methods for Searching Strings, Data Conversion and Miscellaneous Methods, Class String Buffer		
55	Multithreaded Programming: Introduction, Need for Multiple Threads	From: 30-4-	interspersed with
56	Multithreaded Programming for Multi-core Processor, Thread Class, Main Thread- Creation of New Threads, Thread States	2023	discussions
57	Thread Priority-Synchronization, Deadlock and Race Situations	To: 3-5-	
58	Inter-thread Communication - Suspending, Resuming, and Stopping of Threads,	2023	
59	Java Database Connectivity: Introduction, JDBC Architecture,		
60	Installing MySQL and MySQL Connector/J, JDBC Environment Setup, JDBC Connection		
61	Inter-thread Communication - Suspending, Resuming, and Stopping of Threads	S. Park	

Signature of Faculty

Signature of HOD

## TENTATIVE LESSON PLAN: MANAGERIAL ECONOMICS & FINANCIAL ACCOUNTANCY

Section: CSI		COUNTAINC	
	: MANAGERIAL ECONOMICS & FINANCIAL ACC	Page No. 01	01 05
Revision No:		Approved B	y: HOD
Tools: Black bo			20.1
SL. NO.	TOPIC	Date	Mode of Delivery
Economics an	INTRODUCTION TO MANAGERIAL ECONOMIC arning objectives of this paper are to understand the concept dist relationship with other disciplines and also to understate easting.  ya Sri, "Managerial Economics & Financial Analysis"	t and nature of I	Managerial of Demand and
1. A.K. A.	Introduction to Managerial Economics, Definitions		
2.	Scope of Managerial Economics and its related to Other subjects	Feeta 12(1/2023	
3.	Introduction to Demand – Meaning & Definition, Features of Demand	1001/2025	
4.	Determinants of Demand	From	Lecture
5.	Law of Demand & Its exceptions, Demand Function	30-01-2023	interspersed
6.	Elasticity of Demand, Types of Elasticity of Demand	to	with
7.	Types of price Elasticity of Demand	21-02-2023	discussions
8.	Measurement of Price Elasticity of Demand		
9.	Introduction: Demand Forecasting		
10.	Importance of Demand Forecasting		
11.	Demand Forecasting Methods		
12.	Concept of Supply, Law of supply		
and Cost-Vol	PRODUCTION & COST ANALYSIS  niliarize about the Production function, Input Output relation  ume-Profit Analysis  ya Sri, "Managerial Economics & Financial Analysis"		put relationship
	Ja Sin, Transager	William Committee of the Committee of th	
13.	Introduction to Production: Meaning & Definition,		e estimate
DAME AND	Introduction to Production: Meaning & Definition, Production Function	88. TMT.	
14.	Introduction to Production: Meaning & Definition, Production Function  Factors of production, production function with one variable factor	BATE	Note of Delivery
DAME AND	Introduction to Production: Meaning & Definition, Production Function  Factors of production, production function with one variable factor  Law of Variable Proportions	BATE	Mores of Dokumy
14.	Introduction to Production: Meaning & Definition, Production Function  Factors of production, production function with one variable factor  Law of Variable Proportions  Factors of production, production function with two variable factors	908, TRABL BATE	Lecture
14. 15.	Introduction to Production: Meaning & Definition, Production Function  Factors of production, production function with one variable factor  Law of Variable Proportions  Factors of production, production function with two variable factors  Concept of Iso-costs, Isoquants	From 22-02-2023	interspersed
14. 15. 16.	Introduction to Production: Meaning & Definition, Production Function  Factors of production, production function with one variable factor  Law of Variable Proportions  Factors of production, production function with two variable factors  Concept of Iso-costs, Isoquants  MRTS, Least Cost Combination	From	interspersed with
14. 15. 16.	Introduction to Production: Meaning & Definition, Production Function  Factors of production, production function with one variable factor  Law of Variable Proportions  Factors of production, production function with two variable factors  Concept of Iso-costs, Isoquants  MRTS, Least Cost Combination  Cobb-Douglas Production Function	From 22-02-2023	interspersed
14. 15. 16. 17. 18.	Introduction to Production: Meaning & Definition, Production Function  Factors of production, production function with one variable factor  Law of Variable Proportions  Factors of production, production function with two variable factors  Concept of Iso-costs, Isoquants  MRTS, Least Cost Combination  Cobb-Douglas Production Function  Economies of Scale& diseconomies of scale	From 22-02-2023 to	interspersed with
14. 15. 16. 17. 18. 19.	Introduction to Production: Meaning & Definition, Production Function  Factors of production, production function with one variable factor  Law of Variable Proportions  Factors of production, production function with two variable factors  Concept of Iso-costs, Isoquants  MRTS, Least Cost Combination  Cobb-Douglas Production Function  Economies of Scale& diseconomies of scale  Returns to Scale & returns to factors	From 22-02-2023 to	interspersed with
14. 15. 16. 17. 18. 19. 20.	Introduction to Production: Meaning & Definition, Production Function  Factors of production, production function with one variable factor  Law of Variable Proportions  Factors of production, production function with two variable factors  Concept of Iso-costs, Isoquants  MRTS, Least Cost Combination  Cobb-Douglas Production Function  Economies of Scale & diseconomies of scale  Returns to Scale & returns to factors  Concept of cost & Various Cost Concepts	From 22-02-2023 to	interspersed with
14. 15. 16. 17. 18. 19. 20. 21.	Introduction to Production: Meaning & Definition, Production Function  Factors of production, production function with one variable factor  Law of Variable Proportions  Factors of production, production function with two variable factors  Concept of Iso-costs, Isoquants  MRTS, Least Cost Combination  Cobb-Douglas Production Function  Economies of Scale & diseconomies of scale  Returns to Scale & returns to factors  Concept of cost & Various Cost Concepts  Introduction to Break Even Analysis	From 22-02-2023 to	interspersed with
14.  15. 16.  17. 18. 19. 20. 21. 22.	Introduction to Production: Meaning & Definition, Production Function  Factors of production, production function with one variable factor  Law of Variable Proportions  Factors of production, production function with two variable factors  Concept of Iso-costs, Isoquants  MRTS, Least Cost Combination  Cobb-Douglas Production Function  Economies of Scale & diseconomies of scale  Returns to Scale & returns to factors  Concept of cost & Various Cost Concepts	From 22-02-2023 to	interspersed with

## UNIT - III INTRODUCTION TO MARKETS, THEORIES OF THE FIRM AND PRICING POLICIES

CO3: To understand the nature of markets, Methods of Pricing in the different market structures and to know the different forms of Business organization and the concept of Business Cycles

TB: A.R. Arya Sri, "Managerial Economics & Financial Analysis", 2005, TMH.

26.	Introduction to Markets: Meaning & Definition, Features		
27.	Types of markets, market structure		
28.	Price Determination under perfect competition		
29.	Equilibrium-point of firm and industry		
30.	Price Determination under Monopoly		
31.	Equilibrium-point of firm and industry in monopoly		
32.	Price Determination under Monopolistic Competition		
33.	Price Determination under Oligopoly	Rose	
34.	Managerial Theories of the Firm	From	Lecture
35.	Marries and Williamson theory of firm	13/03/2023 To	interspersed
36.	Pricing, pricing objectives.	10/04/2023	with
37.	Various Methods of Pricing		discussions
38.	Introduction to Business: Definition, Features		
39.	Sole Proprietorship: Features, Merits, Demerits		
40.	Partnership: Features, Merits, Demerits, kinds of partners		
41.	Joint Stock Company: Features, Merits, Demerits		
42.	Public limited and private limited companies, features		
43.	Public Enterprises: Features, Merits, Demerits		
44.	Phases of Business Cycles		2074

#### UNIT - IV INTRODUCTION TO ACCOUNTING & FINANCING ANALYSIS:

**CO4:** To learn different Accounting Systems, preparation of Financial Statement and uses of different tools for performance evaluation

TB: A.R. Arya Sri, "Managerial Economics & Financial Analysis", 2005, TMH.

SL. NO.	TOPIC	DATE	Mode of Delivery
45.	Introduction to Accounting: Meaning & Definition, Classification of Accounts		Lecture interspersed with discussions
46.	Accounting Process		
47.	Principles of accounting (GAAP)		
48.	Accounting cycle		
49.	Preparation of Journal: Problems		
50.	Preparation of Ledger: Problems	From	
51.	Preparation of Trail Balance: Problems	11/04/2023	
52.	Final Accounts (Trading, profit & loss A/C, Balance Sheet)	To 30/04/2023	
53.	Final Accounts with Adjustments	00.0112020	
54.	Treatment of adjustments in preparation of final accounts.		
55.	Introduction to Financial Statement Analysis: Importance, Objectives.		
56.	Classification of Ratios: Liquidity Ratios		
57.	Classification of Ratios: Activity Ratios		

58.	Classification of Ratios: Solvency Ratios	
59.	Classification of Ratios: Profitability Ratios	
60.	Preparation of Changes in Working Capital	
61.	Preparation of Funds Flow Statement	
62.	Preparation of Cash Flow Statement	

### UNIT - V CAPITAL, CAPITAL BUDGETING

CO5: To understand the concept of Capital, Capital Budgeting and the techniques used to evaluate Capital Budgeting proposals

TB: A.R. Arya Sri, "Managerial Economics & Financial Analysis", 2005, TMH

SL. NO.	TOPIC	DATE	Mode of Delivery
63.	Introduction to Capital Budgeting: Meaning, Definition, and Need.	From	Lecture interspersed with discussions
64.	Methods of Capital Budgeting: Pay Back Period (PBP),		
65.	Calculation of Accounting Rate of Return (ARR)	01/05/2023	
66.	Calculation of Net Present Value (NPV)	То	
67.	Calculation of Internal Rate of Return (IRR)	13/05/2023	
68.	Calculation of Profitability Index		
69.	Merits and Demerits of Capital Budgeting Techniques.		

Signature of the Faculty

Signature of the HOD

## TENTATIVE LESSON PLAN:R2022051

**Probability and Statistics** 

No. of Periods	ection: C			Page N	
**CO1: Classify the concepts of data science and its importance (L4) or (L2).  **Fundamental of Mathematical Statistics" by S. C. Gupta and V.K. Kapoor,  **No. of Periods**    UNIT-I: Descriptive statistics and methods for data science			ramma	Appro	ived by . HOD
"Fundamental of Mathematical Statistics" by S. C. Gupta and V.K. Kapoor, No. of Periods  UNIT-I: Descriptive statistics and methods for data science  1. Data science and introduction to statistics 2. Population VSsample 3. Collection of data 4. Primary data and secondary data 5. Type of variables; dependent and independent variables. 6. Categorical and continuous variables. 7. Data visualization. 8. Measures of central tendency 9. Mean,median,mode,G.M,H.M. 10. Measures of variability. 11. Range, quartile deviation, mean deviation, standard deviation. 12. Skewness and kurtosis 13. Revision  UNIT-II: Correlation and curve fitting  CO2: Interpret the association of characteristics and through correlation and regression tools  *Fundamental of Mathematical Statistics" by S. C. Gupta and V.K.  Kapoor,  14. Correlation 15. Correlation coefficient 16. Correlation coefficient 16. Correlation coefficient 17. Rank correlation, problems 18. Regression coefficients 19. Regression properties 20. Regression lines 21. Method of least squares 22. Straight line, problems 23. Parabola, problems 24. Exponential curves, power curves 25. Exponential curves, power curves problems.  **Mode of Deliver**  Mode of Deliver**  A tatistics and methods for data  **Lecture**  Interspersed with discussions  **Lecture**  Interspersed with discussions	Tools: Bla	ck board	- (I 4) on (I 2	1	
No. of Periods	CO1: Class	sify the concepts of data science and its important	Cupto and I	). 7 K Ka	noor.
UNIT-I: Descriptive statistics and methods for data science  1. Data science and introduction to statistics 2. Population VSsample 3. Collection of data 4. Primary data and secondary data 5. Type of variables: dependent and independent variables. 6. Categorical and continuous variables. 7. Data visualization. 8. Measures of central tendency 9. Mean,median,mode,G.M,H.M. 10. Measures of variability. 11. Range, quartile deviation, mean deviation, standard deviation. 12. Skewness and kurtosis 13. Revision UNIT-II: Correlation and curve fitting CO2: Interpret the association of characteristics and through correlation and regression tools Frundamental of Mathematical Statistics" by S. C. Gupta and V.K. Kapoor, 14. Correlation coefficient 15. Correlation coefficient 16. Correlation coefficient 17. Rank correlation, problems 18. Regression properties 19. Regression properties 20. Regression properties 21. Method of least squares 22. Straight line, problems 23. Parabola, problems 24. Exponential curves, power curves problems.		ental of Mathematical Statistics" by S. C. C	DATI	.1X. 1X4	Mode of Delivery
UNIT-I: Descriptive statistics and methods for data science  1. Data science and introduction to statistics 2. Population VSsample 3. Collection of data 4. Primary data and secondary data 5. Type of variables: dependent and independent variables. 6. Categorical and continuous variables. 7. Data visualization. 8. Measures of central tendency 9. Mean,median,mode,G.M.H.M. 10. Measures of variability. 11. Range, quartile deviation, mean deviation, standard deviation. 12. Skewness and kurtosis 13. Revision UNIT-II: Correlation and curve fitting CO2: Interpret the association of characteristics and through correlation and regression tools Fundamental of Mathematical Statistics" by S. C. Gupta and V.K. Kapoor, 14. Correlation 15. Correlation 16. Correlation coefficient 16. Correlation problems 17. Rank correlation, problems 18. Regression coefficients 19. Regression properties 20. Regression lines 21. Method of least squares 22. Straight line, problems 23. Parabola, problems 24. Exponential curves, power curves problems.		TOPIC	DAII		111000
Science   1. Data science and introduction to statistics   2. Population VSsample   3. Collection of data   4. Primary data and secondary data   5. Type of variables: dependent and independent variables.   6. Categorical and continuous variables.   7. Data visualization.   8. Measures of central tendency   9. Mean,median,mode,G.M,H.M.   10. Measures of variability.   11. Range, quartile deviation, mean deviation, standard deviation.   12. Skewness and kurtosis   13. Revision   UNIT-II: Correlation and curve fitting   CO2: Interpret the association of characteristics and through correlation and regression tools   Fundamental of Mathematical Statistics" by S. C. Gupta and V.K.   Kapoor,   14. Correlation   15. Correlation coefficient   16. Correlation coefficient   17. Rank correlation, problems   17. Rank correlation, problems   18. Regression coefficients   19. Regression properties   20. Regression lines   21. Method of least squares   22. Straight line, problems   23. Parabola, problems   24. Exponential curves, power curves   25. Exponential curves, power curves   25. Exponential curves, power curves   27. Data variables.   From: 28. Population   27. Popul	Perioas	UNIT Is Descriptive statistics and metho	ds for data		
1. Data science and introduction to statistics 2. Population VSsample 3. Collection of data 4. Primary data and secondary data 5. Type of variables: dependent and independent variables. 6. Categorical and continuous variables. 7. Data visualization. 8. Measures of central tendency 9. Mean,median,mode,G.M,H.M. 10. Measures of variability. 11. Range, quartile deviation, mean deviation, standard deviation. 12. Skewness and kurtosis 13. Revision UNIT-II: Correlation and curve fitting CO2: Interpret the association of characteristics and through correlation and regression tools Fundamental of Mathematical Statistics" by S. C. Gupta and V.K. Kapoor, 14. Correlation 15. Correlation coefficient 16. Correlation coefficient 16. Correlation coefficient 17. Rank correlation, problems 18. Regression coefficients 19. Regression coefficients 19. Regression properties 20. Regression lines 21. Method of least squares 22. Straight line, problems 23. Parabola, problems 24. Exponential curves, power curves problems.			Jus 101 divis	123	
2. Population VSsample 3. Collection of data 4. Primary data and secondary data 5. Type of variables: dependent and independent variables. 6. Categorical and continuous variables. 7. Data visualization. 8. Measures of central tendency 9. Mean,median,mode,G.M,H.M. 10. Measures of variability. 11. Range, quartile deviation, mean deviation, standard deviation. 12. Skewness and kurtosis 13. Revision  UNIT-II: Correlation and curve fitting  CO2: Interpret the association of characteristics and through correlation and regression tools  *Fundamental of Mathematical Statistics" by S. C. Gupta and V.K.  Kapoor, 14. Correlation 15. Correlation coefficient 16. Correlation coefficients 17. Rank correlation, problems 18. Regression coefficients 19. Regression froperties 20. Regression lines 21. Method of least squares 22. Straight line, problems 23. Parabola, problems 24. Exponential curves, power curves problems.	1				
3. Collection of data 4. Primary data and secondary data 5. Type of variables: dependent and independent variables. 6. Categorical and continuous variables. 7. Data visualization. 8. Measures of central tendency 9. Mean,median,mode,G.M,H.M. 10. Measures of variability. 11. Range, quartile deviation, mean deviation, standard deviation. 12. Skewness and kurtosis 13. Revision  UNIT-II: Correlation and curve fitting  CO2: Interpret the association of characteristics and through correlation and regression tools  *Fundamental of Mathematical Statistics" by S. C. Gupta and V.K.  Kapoor,  14. Correlation 15. Correlation coefficient 16. Correlation coefficient 17. Rank correlation, problems 18. Regression coefficients 19. Regression properties 20. Regression lines 21. Method of least squares 22. Straight line, problems 23. Parabola, problems 24. Exponential curves, power curves problems.					
4. Primary data and secondary data  5. Type of variables: dependent and independent variables.  6. Categorical and continuous variables.  7. Data visualization.  8. Measures of central tendency  9. Mean,median,mode,G.M,H.M.  10. Measures of variability.  11. Range, quartile deviation, mean deviation, standard deviation.  12. Skewness and kurtosis  13. Revision  UNIT-II: Correlation and curve fitting  CO2: Interpret the association of characteristics and through correlation and regression tools  Fundamental of Mathematical Statistics" by S. C. Gupta and V.K.  Kapoor,  14. Correlation  15. Correlation coefficient  16. Correlation coefficient  17. Rank correlation, problems  18. Regression coefficients  19. Regression properties  20. Regression lines  21. Method of least squares  22. Straight line, problems  23. Parabola, problems  24. Exponential curves, power curves  problems.	and the state of t				
5. Type of variables: dependent and independent variables. 6. Categorical and continuous variables. 7. Data visualization. 8. Measures of central tendency 9. Mean,median,mode,G.M,H.M. 10. Measures of variability. 11. Range, quartile deviation, mean deviation, standard deviation. 12. Skewness and kurtosis 13. Revision  UNIT-II: Correlation and curve fitting  CO2: Interpret the association of characteristics and through correlation and regression tools  Fundamental of Mathematical Statistics" by S. C. Gupta and V.K.  Kapoor, 14. Correlation 15. Correlation coefficient 16. Correlation coefficient 17. Rank correlation, problems 18. Regression coefficients 19. Regression properties 20. Regression lines 21. Method of least squares 22. Straight line, problems 23. Parabola, problems 24. Exponential curves, power curves problems.					
independent variables.  6. Categorical and continuous variables. 7. Data visualization. 8. Measures of central tendency 9. Mean, median, mode, G.M,H.M. 10. Measures of variability. 11. Range, quartile deviation, mean deviation, standard deviation. 12. Skewness and kurtosis 13. Revision  UNIT-II: Correlation and curve fitting  CO2: Interpret the association of characteristics and through correlation and regression tools  Fundamental of Mathematical Statistics" by S. C. Gupta and V.K.  Kapoor, 14. Correlation 15. Correlation coefficient 16. Correlation coefficient 16. Correlation coefficient 17. Rank correlation, problems 18. Regression coefficients 19. Regression properties 20. Regression lines 21. Method of least squares 22. Straight line, problems 23. Parabola, problems 24. Exponential curves, power curves 25. Exponential curves, power curves problems.					T
6. Categorical and continuous variables. 7. Data visualization. 8. Measures of central tendency 9. Mean,median,mode,G.M,H.M. 10. Measures of variability. 11. Range, quartile deviation, mean deviation, standard deviation. 12. Skewness and kurtosis 13. Revision  UNIT-II: Correlation and curve fitting  CO2: Interpret the association of characteristics and through correlation and regression tools  Frundamental of Mathematical Statistics" by S. C. Gupta and V.K.  Kapoor, 14. Correlation 15. Correlation coefficient 16. Correlation coefficient 16. Correlation coefficient 17. Rank correlation, problems 18. Regression coefficients 19. Regression properties 20. Regression lines 21. Method of least squares 22. Straight line, problems 23. Parabola, problems 24. Exponential curves, power curves 25. Exponential curves, power curves problems.		independent variables.			
7. Data visualization.  8. Measures of central tendency  9. Mean,median,mode,G.M,H.M.  10. Measures of variability.  11. Range, quartile deviation, mean deviation, standard deviation.  12. Skewness and kurtosis  13. Revision  UNIT-II: Correlation and curve fitting  CO2: Interpret the association of characteristics and through correlation and regression tools  Fundamental of Mathematical Statistics" by S. C. Gupta and V.K.  Kapoor,  14. Correlation  15. Correlation coefficient  16. Correlation coefficient  16. Correlation coefficient  17. Rank correlation, problems  18. Regression properties  20. Regression lines  21. Method of least squares  22. Straight line, problems  23. Parabola, problems  24. Exponential curves, power curves  problems.  discussions  discussions	6.				-
8. Measures of central tendency 9. Mean,median,mode,G.M,H.M. 10. Measures of variability. 11. Range, quartile deviation, mean deviation, standard deviation. 12. Skewness and kurtosis 13. Revision  UNIT-II: Correlation and curve fitting  CO2: Interpret the association of characteristics and through correlation and regression tools  Fundamental of Mathematical Statistics" by S. C. Gupta and V.K.  Kapoor,  14. Correlation 15. Correlation coefficient 16. Correlation coefficient problems 17. Rank correlation, problems 18. Regression coefficients 19. Regression properties 20. Regression lines 21. Method of least squares 22. Straight line, problems 23. Parabola, problems 24. Exponential curves, power curves 25. Exponential curves, power curves 26. Exponential curves, power curves 27. Exponential curves, power curves 28. Parabola curves, power curves 29. Exponential curves, power curves 20. Exponential curves, power curves 21. Method of least squares 22. Exponential curves, power curves 23. Parabola, problems	7.			)23	
9. Mean,median,mode, G.M.H.M. 10. Measures of variability. 11. Range, quartile deviation, mean deviation, standard deviation. 12. Skewness and kurtosis 13. Revision  UNIT-II: Correlation and curve fitting  CO2: Interpret the association of characteristics and through correlation and regression tools  "Fundamental of Mathematical Statistics" by S. C. Gupta and V.K.  Kapoor, 14. Correlation 15. Correlation coefficient 16. Correlation coefficient 17. Rank correlation, problems 18. Regression coefficients 19. Regression properties 20. Regression lines 21. Method of least squares 22. Straight line, problems 23. Parabola, problems 24. Exponential curves, power curves 25. Exponential curves, power curves 26. Exponential curves, power curves 27. problems	8.			123	discussions
11. Range, quartile deviation, mean deviation, standard deviation.  12. Skewness and kurtosis  13. Revision  UNIT-II: Correlation and curve fitting  CO2: Interpret the association of characteristics and through correlation and regression tools  Fundamental of Mathematical Statistics" by S. C. Gupta and V.K.  Kapoor,  14. Correlation 15. Correlation coefficient 16. Correlation coefficient problems 17. Rank correlation, problems 18. Regression coefficients 19. Regression properties 20. Regression lines 21. Method of least squares 22. Straight line, problems 23. Parabola, problems 24. Exponential curves, power curves 25. Exponential curves, power curves problems.	9.		17-02-20	)23	
deviation, standard deviation.  12. Skewness and kurtosis  13. Revision  UNIT-II: Correlation and curve fitting  CO2: Interpret the association of characteristics and through correlation and regression tools  'Fundamental of Mathematical Statistics" by S. C. Gupta and V.K.  Kapoor,  14. Correlation  15. Correlation coefficient  16. Correlation coefficient problems  17. Rank correlation, problems  18. Regression coefficients  19. Regression properties  20. Regression lines  21. Method of least squares  22. Straight line, problems  23. Parabola, problems  24. Exponential curves, power curves  25. Exponential curves, power curves  problems.	10.			mile made	
12. Skewness and kurtosis  13. Revision  UNIT-II: Correlation and curve fitting  CO2: Interpret the association of characteristics and through correlation and regression tools  'Fundamental of Mathematical Statistics" by S. C. Gupta and V.K.  Kapoor,  14. Correlation  15. Correlation coefficient  16. Correlation coefficient problems  17. Rank correlation, problems  18. Regression coefficients  19. Regression properties  20. Regression lines  21. Method of least squares  22. Straight line, problems  23. Parabola, problems  24. Exponential curves, power curves  25. Exponential curves, power curves  problems.	11.	Range, quartile deviation, mean			
13. Revision  UNIT-II: Correlation and curve fitting  CO2: Interpret the association of characteristics and through correlation and regression tools  'Fundamental of Mathematical Statistics" by S. C. Gupta and V.K.  Kapoor,  14. Correlation  15. Correlation coefficient  16. Correlation coefficient problems  17. Rank correlation, problems  18. Regression coefficients  19. Regression properties  20. Regression lines  21. Method of least squares  22. Straight line, problems  23. Parabola, problems  24. Exponential curves, power curves  25. Exponential curves, power curves  problems.					
UNIT-II: Correlation and curve fitting CO2: Interpret the association of characteristics and through correlation and regression tools (Fundamental of Mathematical Statistics" by S. C. Gupta and V.K. (Kapoor,  14. Correlation 15. Correlation coefficient 16. Correlation coefficient problems 17. Rank correlation, problems 18. Regression coefficients 19. Regression properties 20. Regression lines 21. Method of least squares 22. Straight line, problems 23. Parabola, problems 24. Exponential curves, power curves 25. Exponential curves, power curves problems.					
CO2: Interpret the association of characteristics and through correlation and regression tools  'Fundamental of Mathematical Statistics" by S. C. Gupta and V.K.  Kapoor,  14. Correlation 15. Correlation coefficient 16. Correlation coefficient problems 17. Rank correlation, problems 18. Regression coefficients 19. Regression properties 20. Regression lines 21. Method of least squares 22. Straight line, problems 23. Parabola, problems 24. Exponential curves, power curves 25. Exponential curves, power curves problems.	13.				
And regression tools  Fundamental of Mathematical Statistics" by S. C. Gupta and V.K.  Kapoor,  14. Correlation  15. Correlation coefficient  16. Correlation problems  17. Rank correlation, problems  18. Regression coefficients  19. Regression properties  20. Regression lines  21. Method of least squares  22. Straight line, problems  23. Parabola, problems  24. Exponential curves, power curves  problems.  From:  21-02-2023  To:  10-03-2023  Lecture interspersed with discussions		UNIT-II: Correlation and curve inting	ugh correlat	ion	
Fundamental of Mathematical Statistics" by S. C. Gupta and V.K.  Kapoor,  14. Correlation 15. Correlation coefficient 16. Correlation, problems 17. Rank correlation, problems 18. Regression coefficients 19. Regression properties 20. Regression lines 21. Method of least squares 22. Straight line, problems 23. Parabola, problems 24. Exponential curves, power curves 25. Exponential curves, power curves problems.	CO2: Interp	bret the association of characteristics and thro	ugii corretat	IOII	
14.   Correlation     15.   Correlation coefficient     16.   Correlation coefficient problems     17.   Rank correlation, problems     18.   Regression coefficients     19.   Regression properties     20.   Regression lines     21.   Method of least squares     22.   Straight line, problems     23.   Parabola, problems     24.   Exponential curves, power curves     25.   Exponential curves, power curves     problems	and regress	non tools	Gunta and	V.K.	
14. Correlation 15. Correlation coefficient 16. Correlation coefficient problems 17. Rank correlation, problems 18. Regression coefficients 19. Regression properties 20. Regression lines 21. Method of least squares 22. Straight line, problems 23. Parabola, problems 24. Exponential curves, power curves 25. Exponential curves, power curves problems.		intal of Wathematical Statistics of 20	31 44 7	124	
15. Correlation coefficient  16. Correlation coefficient problems  17. Rank correlation, problems  18. Regression coefficients  19. Regression properties  20. Regression lines  21. Method of least squares  22. Straight line, problems  23. Parabola, problems  24. Exponential curves, power curves  25. Exponential curves, power curves  problems.		Correlation			
16. Correlation coefficient problems 17. Rank correlation, problems 18. Regression coefficients 19. Regression properties 20. Regression lines 21. Method of least squares 22. Straight line, problems 23. Parabola, problems 24. Exponential curves, power curves 25. Exponential curves, power curves 26. problems.		Correlation coefficient			
17. Rank correlation, problems 18. Regression coefficients 19. Regression properties 20. Regression lines 21. Method of least squares 22. Straight line, problems 23. Parabola, problems 24. Exponential curves, power curves 25. Exponential curves, power curves problems.					
18. Regression coefficients 19. Regression properties 20. Regression lines 21. Method of least squares 22. Straight line, problems 23. Parabola, problems 24. Exponential curves, power curves 25. Exponential curves, power curves problems.  From: 21-02-2023 To: 10-03-2023 interspersed with discussions					
19. Regression properties 20. Regression lines 21. Method of least squares 22. Straight line, problems 23. Parabola, problems 24. Exponential curves, power curves 25. Exponential curves, power curves problems.  Prom: 21-02-2023 To: 10-03-2023 interspersed with discussions					
20. Regression lines 21. Method of least squares 22. Straight line, problems 23. Parabola, problems 24. Exponential curves, power curves 25. Exponential curves, power curves problems.  21-02-2023 To: 10-03-2023  Lecture interspersed with discussions	18.			Daniel Committee	
21. Method of least squares  22. Straight line, problems  23. Parabola, problems  24. Exponential curves, power curves  25. Exponential curves, power curves  problems.		Regression properties	21-02-2023		
22. Straight line, problems  23. Parabola, problems  24. Exponential curves, power curves  25. Exponential curves, power curves problems.	19.				T
23. Parabola, problems  24. Exponential curves, power curves  25. Exponential curves, power curves problems.	19. 20.	Regression lines	To:		
24. Exponential curves, power curves  25. Exponential curves, power curves problems.	19. 20. 21.	Regression lines Method of least squares	To:		interspersed
25. Exponential curves, power curves problems.	19. 20. 21. 22.	Regression lines  Method of least squares  Straight line, problems	To:		interspersed with
UNIT III. Dechability and statistics	19. 20. 21. 22. 23.	Regression lines  Method of least squares  Straight line, problems  Parabola, problems	To:		interspersed with
CO3: Make use of the concepts of probability and their applications.	19. 20. 21. 22. 23. 24.	Regression lines  Method of least squares  Straight line, problems  Parabola, problems  Exponential curves, power curves  Exponential curves, power curves	To:		interspersed with

	ntal Of Mathematical Statistics"By S. C. G		Lecture
<b>poor,</b> 26.	Definition of probability.		interspersed with
	Conditional probability and their		discussions
27.	problems		UISCUSSIONS
20	Baye's theorem and their problems.		
28.	Random variables		
29.	Discrete random variables.		
30.	problems.	From	
31.	Continuous random variables	From: 14-03-2023	
32. 33.	problems.	To:	
34.	Distribution function	07-04-2023	
35.	problems	07-04 2025	
36.	Mathematical expectation and variance		
37.	problems		
38.	Binomial distribution		
39.	Poisson distribution		
40.	Uniform distribution		
41.	Normal distribution		
42.	problems		
	TIME IV. Sampling theory		
O5. design	C - leggical hymothesis les	st and V K	
"Fundar	nental Of Mathematical Statistics by	Gupta And V.K.	
	Vancor		
	Kapoor,		
43.	Depulation and samples		
	Population and samples  Sampling distribution of means and		
43.	Population and samples  Sampling distribution of means and		
43.	Population and samples Sampling distribution of means and variances(definition only) Central limit theorem (without proof)		Lecture
43.	Population and samples  Sampling distribution of means and variances(definition only)  Central limit theorem (without proof)	From:	Lecture interspersed
43. 44. 45.	Population and samples  Sampling distribution of means and variances(definition only)  Central limit theorem (without proof)  Introduction to t distribution  Introduction to chew square distribution	From: 11-04-2023	interspersed
43. 44. 45. 46.	Population and samples  Sampling distribution of means and variances(definition only)  Central limit theorem (without proof)  Introduction to t distribution  Introduction to chew square distribution  Introduction to,F-distributions	11-04-2023 To:	interspersed with
43. 44. 45. 46. 47.	Population and samples  Sampling distribution of means and variances(definition only)  Central limit theorem (without proof)  Introduction to t distribution  Introduction to chew square distribution  Introduction to,F-distributions  Point and interval distribution	11-04-2023	interspersed
43. 44. 45. 46. 47. 48.	Population and samples  Sampling distribution of means and variances(definition only)  Central limit theorem (without proof)  Introduction to t distribution  Introduction to chew square distribution  Introduction to,F-distributions  Point and interval distribution	11-04-2023 To:	interspersed with
43. 44. 45. 46. 47. 48. 49.	Population and samples Sampling distribution of means and variances(definition only) Central limit theorem (without proof) Introduction to t distribution Introduction to chew square distribution Introduction to,F-distributions Point and interval distribution problems Maximum error of estimate.	11-04-2023 To:	interspersed with
43. 44. 45. 46. 47. 48. 49. 50.	Population and samples  Sampling distribution of means and variances(definition only)  Central limit theorem (without proof)  Introduction to t distribution  Introduction to chew square distribution  Introduction to,F-distributions  Point and interval distribution  problems  Maximum error of estimate.	11-04-2023 To:	interspersed with
43. 44. 45. 46. 47. 48. 49. 50.	Population and samples  Sampling distribution of means and variances(definition only)  Central limit theorem (without proof)  Introduction to t distribution  Introduction to chew square distribution  Introduction to,F-distributions  Point and interval distribution  problems  Maximum error of estimate.  problems  Sampling distribution of means and	11-04-2023 To:	interspersed with
43. 44. 45. 46. 47. 48. 49. 50. 51. 52.	Population and samples  Sampling distribution of means and variances(definition only)  Central limit theorem (without proof)  Introduction to t distribution  Introduction to chew square distribution  Introduction to,F-distributions  Point and interval distribution  problems  Maximum error of estimate.  problems  Sampling distribution of means and variances(definition only)	11-04-2023 To:	interspersed with
43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53.	Population and samples  Sampling distribution of means and variances(definition only)  Central limit theorem (without proof)  Introduction to t distribution  Introduction to chew square distribution  Introduction to,F-distributions  Point and interval distribution  problems  Maximum error of estimate.  problems  Sampling distribution of means and variances(definition only)  problems	11-04-2023 To: 21-04-2021	interspersed with
43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53.	Population and samples  Sampling distribution of means and variances(definition only)  Central limit theorem (without proof)  Introduction to t distribution  Introduction to chew square distribution  Introduction to,F-distributions  Point and interval distribution  problems  Maximum error of estimate.  problems  Sampling distribution of means and variances(definition only)  problems	11-04-2023 To: 21-04-2021	interspersed with
43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54.	Population and samples  Sampling distribution of means and variances(definition only)  Central limit theorem (without proof)  Introduction to t distribution  Introduction to,F-distributions  Point and interval distribution  problems  Maximum error of estimate.  problems  Sampling distribution of means and variances(definition only)  problems  UNIT V:Tests of hypothesis  Ter the statistical inferential methods based of	11-04-2023 To: 21-04-2021	interspersed with
43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54.	Population and samples  Sampling distribution of means and variances(definition only)  Central limit theorem (without proof)  Introduction to t distribution  Introduction to,F-distributions  Point and interval distribution  problems  Maximum error of estimate.  problems  Sampling distribution of means and variances(definition only)  problems  UNIT V:Tests of hypothesis  Ter the statistical inferential methods based of	11-04-2023 To: 21-04-2021	interspersed with
43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. CO6: Informaling "Fundar	Population and samples Sampling distribution of means and variances(definition only) Central limit theorem (without proof) Introduction to t distribution Introduction to,F-distributions Point and interval distribution problems Maximum error of estimate. problems Sampling distribution of means and variances(definition only) problems UNIT V:Tests of hypothesis for the statistical inferential methods based of tests mental Of Mathematical Statistics"By S. C.	11-04-2023 To: 21-04-2021	interspersed with
43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53.  CO6: Inframpling "Fundar Kapoor,	Population and samples Sampling distribution of means and variances(definition only) Central limit theorem (without proof) Introduction to t distribution Introduction to chew square distribution Introduction to,F-distributions Point and interval distribution problems Maximum error of estimate. problems Sampling distribution of means and variances(definition only) problems UNIT V:Tests of hypothesis Fer the statistical inferential methods based of tests mental Of Mathematical Statistics"By S. C.	11-04-2023 To: 21-04-2021 on small and large . Gupta And V.K.	interspersed with
43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53.  CO6: Information of the sampling "Fundar Kapoor, 55.	Population and samples  Sampling distribution of means and variances(definition only)  Central limit theorem (without proof)  Introduction to t distribution  Introduction to,F-distributions  Point and interval distribution  problems  Maximum error of estimate.  problems  Sampling distribution of means and variances(definition only)  problems  UNIT V:Tests of hypothesis  er the statistical inferential methods based of tests  mental Of Mathematical Statistics"By S. C.	To: 21-04-2021  on small and large  Gupta And V.K.  From:	interspersed with
43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53.  54.  CO6: Information of the sampling "Fundar Kapoor, 55. 56.	Population and samples  Sampling distribution of means and variances(definition only)  Central limit theorem (without proof)  Introduction to t distribution  Introduction to,F-distributions  Point and interval distribution  problems  Maximum error of estimate.  problems  Sampling distribution of means and variances(definition only)  problems  UNIT V:Tests of hypothesis  Ter the statistical inferential methods based of tests  mental Of Mathematical Statistics"By S. C.  Introduction  Hypothesis	11-04-2023 To: 21-04-2021  on small and large  Gupta And V.K.  From: 25-04-2023	interspersed with
43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53.  54.  CO6: Inframpling "Fundar Kapoor, 55. 56. 57.	Population and samples Sampling distribution of means and variances(definition only) Central limit theorem (without proof) Introduction to t distribution Introduction to chew square distribution Introduction to,F-distributions Point and interval distribution problems Maximum error of estimate. problems Sampling distribution of means and variances(definition only) problems UNIT V:Tests of hypothesis er the statistical inferential methods based of tests mental Of Mathematical Statistics"By S. C.  Introduction Hypothesis Null and alternative hypothesis	11-04-2023 To: 21-04-2021  on small and large  Gupta And V.K.  From: 25-04-2023 To:	interspersed with
43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53.  54.  CO6: Information of the sampling "Fundar Kapoor, 55. 56.	Population and samples  Sampling distribution of means and variances(definition only)  Central limit theorem (without proof)  Introduction to t distribution  Introduction to,F-distributions  Point and interval distribution  problems  Maximum error of estimate.  problems  Sampling distribution of means and variances(definition only)  problems  UNIT V:Tests of hypothesis  er the statistical inferential methods based of tests  mental Of Mathematical Statistics"By S. C.  Introduction  Hypothesis  Null and alternative hypothesis  Type I&II errors	11-04-2023 To: 21-04-2021  on small and large  Gupta And V.K.  From: 25-04-2023	interspersed with

61.	Tests concerning one mean and two means	
62.	Tests concerning one mean and two means	Lecture
63.	Large and small samples	interspersed
64.	Two means problems(large samples)	with
65.	Two means problems(small samples)	discussions
66.	Single mean problems(large samples)	
67.	Single mean problems(small samples)	
68.	Tests on proportion	The second
69.	Problems	
70.	Tests on proportion	
71.	Problems	Marie Called Committee

G. Kdeswaramma

**Faculty Signature** 

HOD Signature

## TENTATIVE LESSON PLAN: R2022054

Castion	: CSE-B	Date:06-02-2023	Page: 01 of	f 03
Revision No: 00		Prepared By: Dr.Senthil Kumar	Approved By:HOD	
Tools:	Black Boar	d, PP1s	T	Mode of
S.No		TOPIC	Date	Delivery
CO1: A	ble to realize e complete F	Structure in Java: I e the concept of Object Oriented Programming & Java Programming & I geference Java, 8th edition, Herbert Schildt, TMH.  Structure in Java: Introduction, Writing Simple Java	ramming Const	ructs.
1	Programs	Elements or tokens in java program, Java Statements		1.00000
2	Sequences	Line Arguments, User Input to Programs, Escape Comments, Programming Style,		Lecture intersperse with discussion
3	Introducti	on Data Types in Java, Declaration of Variables		
4	Type Cast Symbolic	ing, Scope of Variable Identifier, Literal Constants, Constants, Formatted Output with printf() Method, Static and Methods, Attribute Final	From: 06-	
5	Introduction	on to Operators, Precedence and Associativity of Assignment Operator (=), Basic Arithmetic Operators,	02-2023	
6	Increment	(++) and Decrement () Operators, Ternary Operator, Operators	To: 26-02- 2023	
7	Boolean L	ogical Operators, Bitwise Logical Operators, Control		
8	Nested if I	Expressions, if—else Expressions, Ternary Operator?:, tement		
9	Iteration S	tatements, while Expression, do-while Loop		
10	for Loop, N	Nested for Loop		
11	For-Each f	for Loop, Break Statement, Continue Statement		
11	Tutorial			

Enumeration, and various keywords.

TB: The complete Reference Java, 8th edition, Herbert Schildt, TMH..

13	Classes and Objects: Introduction, Class Declaration and Modifiers, Class Members, Declaration of Class Objects		Ali Caretono
14	Assigning One Object to Another, Access Control for Class Members, Accessing Private Members of Class	From:27-	
15	Constructor Methods for Class	02-2023	Lecture
16	Overloaded Constructor Methods	02-2023	interspersed
17	Nested Classes, Final Class and Methods	To:28-03-	
18	Passing Arguments by Value and by Reference, Keyword this	2023	discussions
19	Methods: Introduction, Defining Methods, Overloaded Methods, Overloaded Constructor Methods		

20	Class Objects as Parameters in Methods, Access Control		
21	Overriding Methods, Attributes Final and Static	Lev Terrica	
JNIT -I	II Arrays:		
CO3: Ap	ply the concept of exception handling and Input/ Output operations.		
B:The c	omplete Reference Java, 8th edition, Herbert Schildt, TMH		
22	Arrays: Introduction, Declaration and Initialization of Arrays		
23	Storage of Array in Computer Memory, Accessing Elements of Arrays		
24	Operations on Array Elements, Assigning Array to Another Array		
25	Dynamic Change of Array Size, Sorting of Arrays	From: 75-4-	
26	Search for Values in Arrays, Class Arrays,		
27	Two-dimensional Arrays, Arrays of Varying Lengths	E20	
28	Three-dimensional Arrays, Arrays as Vectors	From:29- 3-2023	Lecture
29	Inheritance: Introduction, Process of Inheritance, Types of Inheritances	To:11-4- 2023	interspersed
30	Arrays: Introduction, Declaration and Initialization of Arrays	2023	discussions
31	Universal Super Class Object Class, Inhibiting Inheritance of Class Using Final, Access		discussions
32	Control and Inheritance, Multilevel Inheritance, Application of Keyword Super		
30	Constructor Method and Inheritance, Method Overriding, Dynamic Method Dispatch, Abstract Classes, Interfaces		
33	Interfaces: Introduction, Declaration of Interface,		
34	Implementation of Interface, Multiple Interfaces		
35	Nested Interfaces, Inheritance of Interfaces, Default Methods in Interfaces		
36	Static Methods in Interface, Functional Interfaces, Annotations.		
37	Tutorial		
CO4: A	-IV Packages and Java Library: Able to design the applications of Java & Java applet e complete Reference Java, 8th edition, Herbert Schildt, TMH  Packages and Java Library: Introduction, Defining Package, Importing Packages and Classes into Programs		
	Path and Class Path, Access Control, Packages in Java SE	From:19-	Lecture
40	Path and Class Path, Access Control, Packages in Java SE  Java.lang Package and its Classes, Class Object, Enumeration	From:19- 4-2023	Lecture
40	Path and Class Path, Access Control, Packages in Java SE  Java.lang Package and its Classes, Class Object, Enumeration  class Math, Wrapper Classes, Auto-boxing and Auto-unboxing		intersperse
40	Path and Class Path, Access Control, Packages in Java SE Java.lang Package and its Classes, Class Object, Enumeration class Math, Wrapper Classes, Auto-boxing and Auto-unboxing Java util Classes and Interfaces	4-2023	intersperse with
40 41	Path and Class Path, Access Control, Packages in Java SE  Java.lang Package and its Classes, Class Object, Enumeration  class Math, Wrapper Classes, Auto-boxing and Auto-unboxing  Java util Classes and Interfaces  Formatter Class, Random Class, Time Package	4-2023 To:29-4-	intersperse with
40 41 42	Path and Class Path, Access Control, Packages in Java SE  Java.lang Package and its Classes, Class Object, Enumeration  class Math, Wrapper Classes, Auto-boxing and Auto-unboxing  Java util Classes and Interfaces  Formatter Class, Random Class, Time Package  Class Instant (java.time.Instant), Formatting for Date/Time in Java,  Temporal Adjusters Class	4-2023	intersperse
40 41 42 43	Path and Class Path, Access Control, Packages in Java SE Java.lang Package and its Classes, Class Object, Enumeration class Math, Wrapper Classes, Auto-boxing and Auto-unboxing Java util Classes and Interfaces Formatter Class, Random Class, Time Package Class Instant (java.time.Instant), Formatting for Date/Time in Java, Temporal Adjusters Class Exception Handling: Introduction, Hierarchy of Standard Exception Classes	4-2023 To:29-4-	intersperse
40 41 42 43 44	Path and Class Path, Access Control, Packages in Java SE  Java.lang Package and its Classes, Class Object, Enumeration  class Math, Wrapper Classes, Auto-boxing and Auto-unboxing  Java util Classes and Interfaces  Formatter Class, Random Class, Time Package  Class Instant (java.time.Instant), Formatting for Date/Time in Java, Temporal Adjusters Class  Exception Handling: Introduction, Hierarchy of Standard Exception Classes  Keywords throws and throw, try, catch, and finally Blocks	4-2023 To:29-4-	intersperse
40 41 42 43 44 45	Path and Class Path, Access Control, Packages in Java SE Java.lang Package and its Classes, Class Object, Enumeration class Math, Wrapper Classes, Auto-boxing and Auto-unboxing Java util Classes and Interfaces Formatter Class, Random Class, Time Package Class Instant (java.time.Instant), Formatting for Date/Time in Java, Temporal Adjusters Class Exception Handling: Introduction, Hierarchy of Standard Exception Classes	4-2023 To:29-4-	intersperse with
40 41 42 43 44 45 46	Path and Class Path, Access Control, Packages in Java SE  Java.lang Package and its Classes, Class Object, Enumeration  class Math, Wrapper Classes, Auto-boxing and Auto-unboxing  Java util Classes and Interfaces  Formatter Class, Random Class, Time Package  Class Instant (java.time.Instant), Formatting for Date/Time in Java, Temporal Adjusters Class  Exception Handling: Introduction, Hierarchy of Standard Exception Classes  Keywords throws and throw, try, catch, and finally Blocks	4-2023 To:29-4-	intersperse with

50	Custom Exceptions , Nested try and catch Blocks		
51	Rethrowing Exception, Throws		
CO5: At	V String Handling in Java: ole to Analyze & Design the concept of Event Handling and Abstract Wile complete Reference Java, 8th edition, Herbert Schildt, TMH	ndow Toolkit.	TANKY
52	String Handling in Java: Introduction, Interface Char Sequence, Class String		
53	Methods for Extracting Characters from Strings  Methods for Comparison of Strings, Methods for Modifying Strings		
54	Methods for Searching Strings, Data Conversion and Miscellaneous Methods, Class String Buffer		Lecture interspersed
55	Multithreaded Programming: Introduction, Need for Multiple Threads	From: 30-4-	with discussions
56	Multithreaded Programming for Multi-core Processor, Thread Class, Main Thread- Creation of New Threads, Thread States	2023 To: 3-5-	
57	Thread Priority-Synchronization, Deadlock and Race Situations	2023	
58	Inter-thread Communication - Suspending, Resuming, and Stopping of Threads,	2023	
59	Java Database Connectivity: Introduction, JDBC Architecture,		
60	Installing MySQL and MySQL Connector/J, JDBC Environment Setup, JDBC Connection		
61	Inter-thread Communication - Suspending, Resuming, and Stopping of Threads.	20.56ma	

Signature of Faculty

Signature of HOD

## TENTATIVE LESSON PLAN: MANAGERIAL ECONOMICS & FINANCIAL ACCOUNTANCY

Section: CSE	: MANAGERIAL ECONOMICS & FINANCIAL E-B Date: 30/01/2023	Page No: 01	
Revision No:		Approved B	
Tools: Black bo		прричен	<i>y.</i> 110 <i>D</i>
SL. NO.	TOPIC	Date	Mode of Delivery
	INTRODUCTION TO MANAGERIAL ECONO		
CO1: The Lea	arning objectives of this paper are to understand the co	oncept and nature of	Managerial
Economics an	d its relationship with other disciplines and to understa	and the Concept of D	emand and
Demand forec			
	ya Sri, "Managerial Economics & Financial Anal	lysis", 2005, TMH.	
1.	Introduction to Managerial Economics, Definition	S	
2.	Scope of Managerial Economics and its related to		
3.	Other subjects		- incommon a
3.	Introduction to Demand – Meaning & Definition, Features of Demand		No.
4.	Determinants of Demand		diversion.
5.		From	Lecture
6.	Law of Demand & Its exceptions, Demand Function		interspersed
7.	Elasticity of Demand, Types of Elasticity of Dema		with discussions
8.	Types of price Elasticity of Demand	21-02-2023	
9.	Measurement of Price Elasticity of Demand Introduction: Demand Forecasting		
10.	Importance of Demand Forecasting		
10.	importance of Demand Forecasting		
11			
11.	Demand Forecasting Methods		
12.	Demand Forecasting Methods Concept of Supply, Law of supply		
12. <b>UNIT –II</b>	Demand Forecasting Methods Concept of Supply, Law of supply PRODUCTION & COST ANALYSIS	elationship Cost Out	nut relationshi
12. UNIT –II CO2: To farr	Demand Forecasting Methods Concept of Supply, Law of supply PRODUCTION & COST ANALYSIS miliarize about the Production function, Input Output re	elationship, Cost-Out	put relationshi
12. UNIT –II CO2: To fam and Cost-Volu	Demand Forecasting Methods Concept of Supply, Law of supply PRODUCTION & COST ANALYSIS niliarize about the Production function, Input Output reume-Profit Analysis		put relationshi
12. UNIT –II CO2: To farrand Cost-Volu TB: A.R. Ar	Demand Forecasting Methods Concept of Supply, Law of supply PRODUCTION & COST ANALYSIS niliarize about the Production function, Input Output returne-Profit Analysis ya Sri, "Managerial Economics & Financial Anal	ysis", 2005, TMH.	put relationshi
12. UNIT –II CO2: To fam and Cost-Volu	Demand Forecasting Methods Concept of Supply, Law of supply PRODUCTION & COST ANALYSIS miliarize about the Production function, Input Output resume-Profit Analysis ya Sri, "Managerial Economics & Financial Anal Introduction to Production: Meaning & Definition.	ysis", 2005, TMH.	put relationshi
12. UNIT –II CO2: To farr and Cost-Volu TB: A.R. Arg	Demand Forecasting Methods Concept of Supply, Law of supply PRODUCTION & COST ANALYSIS miliarize about the Production function, Input Output resume-Profit Analysis ya Sri, "Managerial Economics & Financial Anal Introduction to Production: Meaning & Definition, Production Function	ysis", 2005, TMH.	put relationshi
12. UNIT –II CO2: To farrand Cost-Volu TB: A.R. Ar	Demand Forecasting Methods Concept of Supply, Law of supply PRODUCTION & COST ANALYSIS miliarize about the Production function, Input Output resume-Profit Analysis ya Sri, "Managerial Economics & Financial Anal Introduction to Production: Meaning & Definition.	ysis", 2005, TMH.	put relationshi
12. UNIT –II CO2: To farr and Cost-Volu TB: A.R. Arg	Demand Forecasting Methods Concept of Supply, Law of supply PRODUCTION & COST ANALYSIS miliarize about the Production function, Input Output resume-Profit Analysis ya Sri, "Managerial Economics & Financial Anal Introduction to Production: Meaning & Definition, Production Function Factors of production, production function with on variable factor	ysis", 2005, TMH.	put relationshi
12. UNIT –II CO2: To fam and Cost-Volu TB: A.R. Ar 13.	Demand Forecasting Methods Concept of Supply, Law of supply PRODUCTION & COST ANALYSIS miliarize about the Production function, Input Output resume-Profit Analysis ya Sri, "Managerial Economics & Financial Anal Introduction to Production: Meaning & Definition, Production Function Factors of production, production function with on variable factor Law of Variable Proportions	ysis", 2005, TMH.	put relationshi
12. UNIT –II CO2: To fam and Cost-Volu TB: A.R. Ar 13.	Demand Forecasting Methods Concept of Supply, Law of supply PRODUCTION & COST ANALYSIS miliarize about the Production function, Input Output resume-Profit Analysis ya Sri, "Managerial Economics & Financial Anal Introduction to Production: Meaning & Definition, Production Function Factors of production, production function with on variable factor	ysis", 2005, TMH.	Mostly of Delivery
12. UNIT –II CO2: To fam and Cost-Volu TB: A.R. Ar 13.	Demand Forecasting Methods Concept of Supply, Law of supply PRODUCTION & COST ANALYSIS miliarize about the Production function, Input Output resume-Profit Analysis ya Sri, "Managerial Economics & Financial Anal Introduction to Production: Meaning & Definition, Production Function Factors of production, production function with on variable factor Law of Variable Proportions Factors of production, production function with two variable factors	ysis", 2005, TMH.	Lecture
12.  UNIT –II  CO2: To farr and Cost-Volu  TB: A.R. Arg  13.  14.  15.  16.	Demand Forecasting Methods Concept of Supply, Law of supply PRODUCTION & COST ANALYSIS miliarize about the Production function, Input Output resume-Profit Analysis ya Sri, "Managerial Economics & Financial Anal Introduction to Production: Meaning & Definition, Production Function Factors of production, production function with on variable factor Law of Variable Proportions Factors of production, production function with two	ysis", 2005, TMH.  To From 22-02-2023	Lecture
12. UNIT –II CO2: To fam and Cost-Volu TB: A.R. Ar 13.  14.  15. 16.	Demand Forecasting Methods Concept of Supply, Law of supply PRODUCTION & COST ANALYSIS miliarize about the Production function, Input Output resume-Profit Analysis ya Sri, "Managerial Economics & Financial Anal Introduction to Production: Meaning & Definition, Production Function Factors of production, production function with on variable factor Law of Variable Proportions Factors of production, production function with two variable factors Concept of Iso-costs, Isoquants	ysis", 2005, TMH.  From 22-02-2023 to	Lecture interspersed with
12. UNIT –II CO2: To fam and Cost-Volu TB: A.R. Ar 13.  14.  15. 16.  17. 18.	Demand Forecasting Methods Concept of Supply, Law of supply PRODUCTION & COST ANALYSIS miliarize about the Production function, Input Output resume-Profit Analysis ya Sri, "Managerial Economics & Financial Anal Introduction to Production: Meaning & Definition, Production Function Factors of production, production function with on variable factor Law of Variable Proportions Factors of production, production function with two variable factors Concept of Iso-costs, Isoquants MRTS, Least Cost Combination	ysis", 2005, TMH.  To From 22-02-2023	Lecture interspersed with
12. UNIT –II CO2: To farrand Cost-Volu TB: A.R. Ary 13. 14. 15. 16. 17. 18. 19.	Demand Forecasting Methods Concept of Supply, Law of supply PRODUCTION & COST ANALYSIS miliarize about the Production function, Input Output resume-Profit Analysis ya Sri, "Managerial Economics & Financial Anal Introduction to Production: Meaning & Definition, Production Function Factors of production, production function with on variable factor Law of Variable Proportions Factors of production, production function with two variable factors Concept of Iso-costs, Isoquants MRTS, Least Cost Combination Cobb-Douglas Production Function	ysis", 2005, TMH.  From 22-02-2023 to	Lecture interspersed with
12. UNIT –II CO2: To farm and Cost-Volument TB: A.R. Arg. 13.  14.  15. 16.  17. 18. 19. 20.	Demand Forecasting Methods Concept of Supply, Law of supply PRODUCTION & COST ANALYSIS miliarize about the Production function, Input Output resume-Profit Analysis ya Sri, "Managerial Economics & Financial Anal Introduction to Production: Meaning & Definition, Production Function Factors of production, production function with on variable factor Law of Variable Proportions Factors of production, production function with twe variable factors Concept of Iso-costs, Isoquants MRTS, Least Cost Combination Cobb-Douglas Production Function Economies of Scale & diseconomies of scale Returns to Scale & returns to factors	ysis", 2005, TMH.  From 22-02-2023 to	Lecture interspersed with
12. UNIT –II CO2: To fam and Cost-Volu TB: A.R. Ar  13.  14.  15.  16.  17.  18.  19.  20.  21.	Demand Forecasting Methods Concept of Supply, Law of supply PRODUCTION & COST ANALYSIS miliarize about the Production function, Input Output resume-Profit Analysis ya Sri, "Managerial Economics & Financial Anal Introduction to Production: Meaning & Definition, Production Function Factors of production, production function with on variable factor Law of Variable Proportions Factors of production, production function with two variable factors Concept of Iso-costs, Isoquants MRTS, Least Cost Combination Cobb-Douglas Production Function Economies of Scale& diseconomies of scale	ysis", 2005, TMH.  From 22-02-2023 to	Lecture interspersed with
12. UNIT –II CO2: To farm and Cost-Volument TB: A.R. Argument A.R. Argument TB: Argument TB: A.R. Argu	Demand Forecasting Methods Concept of Supply, Law of supply PRODUCTION & COST ANALYSIS miliarize about the Production function, Input Output resume-Profit Analysis ya Sri, "Managerial Economics & Financial Anal Introduction to Production: Meaning & Definition, Production Function Factors of production, production function with on variable factor Law of Variable Proportions Factors of production, production function with two variable factors Concept of Iso-costs, Isoquants MRTS, Least Cost Combination Cobb-Douglas Production Function Economies of Scale & diseconomies of scale Returns to Scale & returns to factors Concept of cost & Various Cost Concepts	ysis", 2005, TMH.  From 22-02-2023 to	Lecture interspersed

## UNIT - III INTRODUCTION TO MARKETS, THEORIES OF THE FIRM AND PRICING POLICIES

CO3: To understand the nature of markets, Methods of Pricing in the different market structures and to know the different forms of Business organization and the concept of Business Cycles

TB: A.R. Arya Sri, "Managerial Economics & Financial Analysis", 2005, TMH.

26.	Introduction to Markets: Meaning & Definition,	1	
	Features		
27.	Types of markets, market structure		
28.	Price Determination under perfect competition		
29.	Equilibrium-point of firm and industry		
30.	Price Determination under Monopoly	DATE:	
31.	Equilibrium-point of firm and industry in monopoly		
32.	Price Determination under Monopolistic Competition		
33.	Price Determination under Oligopoly		
34.	Managerial Theories of the Firm	From	Lastura
35.	Marries and Williamson theory of firm	13/03/2023	Lecture interspersed
36.	Pricing, pricing objectives.	To 10/04/2023	with
37.	Various Methods of Pricing	10/04/2023	discussions
38.	Introduction to Business: Definition, Features		
39.	Sole Proprietorship: Features, Merits, Demerits		
40.	Partnership: Features, Merits, Demerits, kinds of partners		
41.	Joint Stock Company: Features, Merits, Demerits		
42.	Public limited and private limited companies, features		
43.	Public Enterprises: Features, Merits, Demerits		
44.	Phases of Business Cycles	The state of the state of	1539

## UNIT - IV INTRODUCTION TO ACCOUNTING & FINANCING ANALYSIS:

CO4: To learn different Accounting Systems, preparation of Financial Statement and uses of different tools for performance evaluation

TB: A.R. Arya Sri, "Managerial Economics & Financial Analysis", 2005, TMH

SL. NO.	TOPIC	DATE	Mode of
45.	Introduction to Accounting: Meaning & Definition, Classification of Accounts		Delivery
46.	Accounting Process		
47.	Principles of accounting (GAAP)		
48.	Accounting cycle		
49.	Preparation of Journal: Problems		Lecture interspersed with discussions
50.	Preparation of Ledger: Problems		
51.	Preparation of Trail Balance: Problems	From	
52.	Final Accounts (Trading, profit & loss A/C, Balance Sheet)	11/04/2023 To	
53.	Final Accounts with Adjustments	30/04/2023	
54.	Treatment of adjustments in preparation of final accounts.		
55,	Introduction to Financial Statement Analysis: Importance, Objectives.		
56.	Classification of Ratios: Liquidity Ratios		
57.	Classification of Ratios: Activity Ratios		

58.	Classification of Ratios: Solvency Ratios	
59.	Classification of Ratios: Profitability Ratios	
60.	Preparation of Changes in Working Capital	
61.	Preparation of Funds Flow Statement	
62.	Preparation of Cash Flow Statement	
TINITE X	CARVELL	

### UNIT - V CAPITAL, CAPITAL BUDGETING

CO5: To understand the concept of Capital, Capital Budgeting and the techniques used to evaluate Capital Budgeting proposals.

TB: A.R. Arya Sri, "Managerial Economics & Financial Analysis", 2005, TMH

SL. NO.	TOPIC	DATE	Mode of Delivery
63.	Introduction to Capital Budgeting: Meaning, Definition, and Need.	From 01/05/2023 To 13/05/2023	Lecture interspersed with discussions
64.	Methods of Capital Budgeting: Pay Back Period (PBP),		
65.	Calculation of Accounting Rate of Return (ARR)		
66.	Calculation of Net Present Value (NPV)		
67.	Calculation of Internal Rate of Return (IRR)		
68.	Calculation of Profitability Index		
69.	Merits and Demerits of Capital Budgeting Techniques.		

Signature of the Faculty

Signature of the HOD