

Jeevandeep Shaikshnik Sanstha
Arts, Commerce and Science College, Khardi
 Tal.Shahapur. Dist.Thane
 (Affiliated to Mumbai University)
Teaching Plan for the Academic Year 2023-24
Term-II

NAME OF THE PROFESSOR: Asst.Prof.Mitali M.Chaudhari
DEPARTMENT: Information Technology
CLASS: MSC IT PART II **SEM: III**
SUBJECT NAME: Technical Writing & Entrepreneurship Development **PAPER :**

Lecture No.	Unit Name	Topic	Teaching Method	ICT Tools Used
1	Unit 1 Introduction to Technical Communication	What Is Technical Communication 2)The Challenges of Producing Technical Communication	Group Discussion, Chart, Problem	Youtube
2	Unit 1 Introduction to Technical Communication	Characteristics of a Technical Document 2)Measures of Excellence in Technical Documents	Group Discussion, Chart, Problem	
3	Unit 1 Introduction to Technical Communication	Skills and Qualities Shared by Successful Workplace Communicators	Group Discussion, Chart, Problem	
4	Unit 1 Introduction to Technical Communication	2)How Communication Skills and Qualities Affect Your Career	Group Discussion, Chart, Problem	
5	Understanding Ethical and Legal Considerations	A Brief Introduction to Ethics 2)Your Ethical Obligations	Group Discussion, Chart, Problem	Youtube
6	Understanding Ethical and Legal Considerations	Your Legal Obligations 2)The Role of Corporate Culture in Ethical and Legal Conduct	Group Discussion, Chart, Problem	
7	Understanding Ethical and Legal Considerations	Understanding Ethical and Legal Issues Related to Social Media 2)Communicating Ethically Across Cultures	Group Discussion, Chart, Problem	
8	Understanding Ethical and Legal Considerations	Principles for Ethical Communication	Group Discussion, Chart, Problem	Youtube



9	Writing Technical Documents	Planning	Group Discussion, Chart, Problem	
10	Writing Technical Documents	Drafting 2)Revising	Group Discussion, Chart, Problem	
11	Writing Technical Documents	Proofreading	Group Discussion, Chart, Problem	
1	Unit II Introduction To Content Writing & Blog Creation	Introduction 2)An Overview 3)What Is Content Writing? & Its Types	Group Discussion, Chart, Problem	
2	Unit II Introduction To Content Writing & Blog Creation	What Is Content Writing? & Its Types	Group Discussion, Chart, Problem	Youtube
3	Unit II Introduction To Content Writing & Blog Creation	Distribution of your content across various channels	Group Discussion, Chart, Problem	
4	Unit II Introduction To Content Writing & Blog Creation	How to create Blogs	Group Discussion, Chart, Problem	
5	Unit II Introduction To Content Writing & Blog Creation	How to create Blogs	Group Discussion, Chart, Problem	
6	Unit II Introduction To Content Writing & Blog Creation	Study different challenges to create blogs.	Group Discussion, Chart, Problem	
7	Unit II Introduction To Content Writing & Blog Creation	Study different challenges to create blogs.	Group Discussion, Chart, Problem	Youtube
8	Unit II Introduction To Content Writing & Blog Creation	Understand the psychology behind your web traffic	Group Discussion, Chart, Problem	
9	Unit II Introduction To Content Writing & Blog Creation	Creating killing landing pages which attract users	Group Discussion, Chart, Problem	



10	Unit II Introduction To Content Writing & Blog Creation	Using Landing Page Creators 2) Setting up Accelerated Mobile PagesIdentifying UI UX Experience of your	Group Discussion, Chart, Problem	
11	Unit II Introduction To Content Writing & Blog Creation	Identifying UI UX Experience of your website or blog	Group Discussion, Chart, Problem	Youtube
12	Unit II Organizing Your Information	What is Information? 2)Understanding Three Principles for Organizing Technical	Group Discussion, Chart, Problem	
13	Unit II Organizing Your Information	Understanding Conventional Organizational Patterns	Group Discussion, Chart, Problem	
1	Unit III Creating Graphics	The Functions of Graphics 2) The Characteristics of an Effective Graphic	Group Discussion, Chart, Problem	
2	Unit III Creating Graphics	Understanding the Process of Creating Graphics 2)Using Color Effectively	Group Discussion, Chart, Problem	
3	Unit III Creating Graphics	Choosing the Appropriate Kind of Graphic	Group Discussion, Chart, Problem	Youtube
4	Unit III Creating Graphics	Creating Effective Graphics for Multicultural Readers	Group Discussion, Chart, Problem	
5	Unit III Research Your Subject	Understanding the Differences Between Academic and Workplace Research 2)3	Group Discussion, Chart, Problem	
6	Unit III Research Your Subject	Conducting Secondary Research	Group Discussion, Chart, Problem	Youtube
7	Unit III Research Your Subject	Conducting Primary Research	Group Discussion, Chart, Problem	
8	Unit III Research Its Documents and Report Components	Introduction and Overview of Report Components 2)Review of Related Literature - Literature Reviews	Group Discussion, Chart, Problem	



9	Unit III Research Its Documents and Report Components	Copyright 2)Paraphrasing 3)Questionnaires	Group Discussion, Chart, Problem	Youtube
10	Unit III Research Its Documents and Report Components	Abstracts2)Introductions	Group Discussion, Chart, Problem	
11	Unit III Research Its Documents and Report Components	Tables of Contents 2)Executive Summaries 3)Feasibility Reports 4) Investigative Reports	Group Discussion, Chart, Problem	
12	Unit III Research Its Documents and Report Components	Laboratory Reports 2)Test Reports 3)Trip Reports 4)Trouble Reports	Group Discussion, Chart, Problem	
1	Unit IV Writing Proposals	Introduction 2)An Understanding the process of Writing Proposals 3)The Logistics of Proposals	Group Discussion, Chart, Problem	Youtube
2	Unit IV Writing Proposals	The "Deliverables" of Proposals 2)5 Persuasion and Proposals	Group Discussion, Chart, Problem	
3	Unit IV Writing Proposals	Writing a Proposal 2)The Structure of the Proposal 3)Writing Informational Reports	Group Discussion, Chart, Problem	
4	Unit IV Writing Proposals	Understanding the Process of Writing Informational Reports 2)Writing Directives 4)Writing Field Reports	Group Discussion, Chart, Problem	
5	Unit IV Writing Proposals	Writing Incident Reports 2)Writing Meeting Minutes 3)Writing Recommendation Reports	Group Discussion, Chart, Problem	
6	Unit IV Writing Proposals	Understanding the Role of Recommendation Reports 2)Using a Problem-Solving Model for Preparing	Group Discussion, Chart, Problem	
7	Unit IV Writing Proposals	Writing Recommendation Reports	Group Discussion, Chart, Problem	Youtube



8	Unit IV Reviewing, Evaluating and Testing Documents And	Understanding Reviewing, Evaluating, and Testing 2)Reviewing Documents and Websites, Conducting	Group Discussion, Chart, Problem	
9	Unit IV Reviewing, Evaluating and Testing Documents And	Conducting Usability Tests	Group Discussion, Chart, Problem	
10	Unit IV Reviewing, Evaluating and Testing Documents And	Using Internet tools to check writing Quality 2)Duplicate Content Detector	Group Discussion, Chart, Problem	
11	Unit IV Reviewing, Evaluating and Testing Documents And	What is Plagiarism? 2)How to avoid writing plagiarism content?	Group Discussion, Chart, Problem	
12	Unit IV Innovation Management An Introduction	The importance of innovation 2) Models of innovation	Group Discussion, Chart, Problem	
13	Unit IV Innovation Management An Introduction	Innovation as a management process 2)Market adoption and technology diffusion	Group Discussion, Chart, Problem	Youtube
14	Unit IV Innovation Management An Introduction	Time lag between innovation and useable product 2) Innovation and the market 3)Innovation and market	Group Discussion, Chart, Problem	
15	Unit IV Innovation Management An Introduction	Analysing internet search data to help adoption and forecasting sales 2)Innovative new products and	Group Discussion, Chart, Problem	
16	Unit IV Innovation Management An introduction	Frugal innovation and ideas from everywhere 2)Innovation diffusion theories	Group Discussion, Chart, Problem	Youtube





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Teaching Plan for the Academic Year 2023-24

Term-I

NAME OF THE PROFESSOR : Asst. prof. Dipti More-Chavhan

DEPARTMENT : Marathi

CLASS : F.Y.B.A

SEM : II

SUBJECT NAME : optional Marathi

PAPER : I

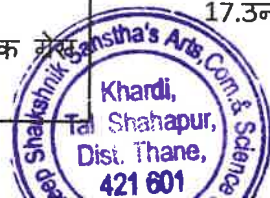
Lecture No.	Unit Name / No.	Topic	Teaching Method	ICT Tools Used
1	घटक 1- ललितगद्य या साहित्यप्रकाराचा सैद्धांतिक परिचय	ललितगद्य: संकल्पना आणि स्वरूप	lecture	youtube
2	घटक 1- ललितगद्य या साहित्यप्रकाराचा सैद्धांतिक परिचय	ललितगद्य निबंधाचे विकसित रूप	lecture	
3	घटक 1- ललितगद्य या साहित्यप्रकाराचा सैद्धांतिक परिचय	ललितगद्यातील 'मी'	lecture	
4	घटक 1- ललितगद्य या साहित्यप्रकाराचा सैद्धांतिक परिचय	ललितगद्याची वैशिष्ट्ये:- 1) कथात्मकता 2) काव्यात्मकता 3) बंदिशविहीनता 4) उत्कटअनुभव	lecture	
5	घटक 1- ललितगद्य या साहित्यप्रकाराचा सैद्धांतिक परिचय	ललितगद्याचे उपप्रकार :- 1) लघुनिबंध 2) प्रवासलेख 3) आठवणी अनुभव 4) व्यक्तिचित्रे 5) ललित लेख	lecture	youtube
6	घटक 1- ललितगद्य या साहित्यप्रकाराचा सैद्धांतिक परिचय	ललितगद्य या वाङ्मय प्रकाराची वाटचाल स्वातंत्र्योत्तर काळातील ललितगद्य -इ.स.1945 ते 1980	lecture	



7	घटक 1- ललितगद्य या साहित्यप्रकाराचा सैद्धांतिक परिचय	इ. स. 1980 ते 2000 पर्यंत ललितगद्याचा इतिहास	lecture	
8	घटक 1- ललितगद्य या साहित्यप्रकाराचा सैद्धांतिक परिचय	ललितगद्याचे गुणविशेष:- 1)'मी' त्वाचा अविष्कार 2) काव्यात्मक 3) चिंतनात्मकता	lecture	
9	घटक 1- ललितगद्य या साहित्यप्रकाराचा सैद्धांतिक परिचय	ललितगद्याच्या मर्यादा	lecture	youtube
2.1	घटक 2-'परिपूर्ति'- लेखिका इरावती कर्वे	इरावती कर्वे यांचा जीवन परिचय	lecture	
2	घटक 2-'परिपूर्ति'- लेखिका इरावती कर्वे	इरावती कर्वे यांचा वाङ् मय परिचय	lecture	youtube
3	घटक 2-'परिपूर्ति'- लेखिका इरावती कर्वे	परिपूर्ति ' या ललित लेखसंग्रहाचे स्वरूप	lecture	
4	घटक 2-'परिपूर्ति'- लेखिका इरावती कर्वे	1.प्रेमाची रीत 2. वेड लागलेले घर 3. जन्मांतरीची भेट	lecture	
5	घटक 2-'परिपूर्ति'- लेखिका इरावती कर्वे	4. स्त्री व संस्कृती 5. बीज - क्षेत्र 6. मारीकुट्टी	lecture	
6	घटक 2-'परिपूर्ति'- लेखिका इरावती कर्वे	7. गौराई 8. एकेश्वरी पंथाचा विजय 9. जुळी मुले	lecture	youtube



7	घटक 2-'परिपूर्ति'- लेखिका इरावती कर्वे	10. मराठ्यांचा मूठपणा 11. महार आणि महाराष्ट्र 12. दिक्काल 13. नवं कलेवर	lecture	
8	घटक 2-'परिपूर्ति'- लेखिका इरावती कर्वे	14. एक प्रयोग 15. सुप्त इच्छा 17. वाटचाल 18. परिपूर्ति	lecture	youtube
3.1	घटक 3. चर्चबेल - लेखक ग्रेस	ग्रेस' यांचा जीवनपरिचय	lecture	
2	घटक 3. चर्चबेल - लेखक ग्रेस	ग्रेस' यांची वांडमयीन जडणघडण	lecture	
3	घटक 3. चर्चबेल - लेखक ग्रेस	चर्चबेल' या ललितगद्य संग्रहाविषयी	lecture	
4	घटक 3. चर्चबेल - लेखक ग्रेस	1. नेपाली चे गॉड प्रॉमिस 2. चिमण्या 3. गुलमोहर 4. देवी 5. कंदील सर्कस	lecture	
5	घटक 3. चर्चबेल - लेखक ग्रेस	6. प्रिस्ट प्रार्थना व पियानो 7. तांदूळ मोजणाऱ्या मुली 8. फ्युनरल ट्रेन 9. आकांताचे देणे 10. घोडे	lecture	
6	घटक 3. चर्चबेल - लेखक ग्रेस	11. टेकडीवरचा पाऊस आणि भोवरा 12. बाहुलीचा मृत्यू 13. रोशनची गाणी 14. घर	lecture	
7	घटक 3. चर्चबेल - लेखक ग्रेस	15. उरलेला चंद्र 16. वेल्लोर हॉस्पिटल व एलिनॉर 17. उन्हातील आई 18. ज्यासी अपंगीता नाही..	lecture	



8	घटक 3. चर्चबेल - लेखक ग्रेस	19. त्वचा आणि तंतू 20. हॉस्पिटल मधील एकांत 21. तारायंत्राचे खांब 22. डब्ल्यू. एस. लॅंडोरची कविता	lecture	
9	घटक 3. चर्चबेल - लेखक ग्रेस	23. 'मर जाना बेहतर है.. परदेस मे जीने से..' 24. हात 25. नूरजहाँ और रिल्के	lecture	
10	घटक 3. चर्चबेल - लेखक ग्रेस	26. एक ऑस्ट्रेलियन स्वगत 27. पल्लवीचे पक्षी 28. यात्रा, शिवानी आणि शिवालय	lecture	
11	घटक 3. चर्चबेल - लेखक ग्रेस	29. काचघरातील वेल 30. संध्याकाळचा फकीर 31. प्रो. सॅम्युअल आलेक्झांडर	lecture	
12	घटक 3. चर्चबेल - लेखक ग्रेस	32. माई 33. वाळूचे माहेर 34. चर्चबेल	lecture	





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Teaching Plan for the Academic Year 2023-24

Term-I

NAME OF THE PROFESSOR : Asst. Prof. Rajani R. Pardeshi

DEPARTMENT : Geography

CLASS : SYBA

SEM : IV

SUBJECT NAME : Geography of Tourism

PAPER : III

Lecture No.	Unit Name / No.	Topic	Teaching Method	ICT Tools Used
1	UNIT - I: Introduction to Geography of Tourism	Tourism Geography: definition, nature	Lecture & Group Discussion	
2	UNIT - I: Introduction to Geography of Tourism	Tourism Geography: scope	Lecture	
3	UNIT - I: Introduction to Geography of Tourism	Tourism: Concept, Significance	Lecture	
4	UNIT - I: Introduction to Geography of Tourism	importance of geography in tourism	Group Discussion	
5	UNIT - I: Introduction to Geography of Tourism	Types of Tourism	Lecture & Group Discussion	
6	UNIT - I: Introduction to Geography of Tourism	Recent trends in tourism	Lecture & Group Discussion	
7	UNIT - I: Introduction to Geography of Tourism	Factors influencing tourism development -Physical	Lecture & Group Discussion	
8	UNIT - I: Introduction to Geography of Tourism	Factors influencing tourism development - economical	Lecture & Group Discussion	
9	UNIT - I: Introduction to Geography of Tourism	Factors influencing tourism development - socio-Political	Lecture & Question answer	



10	UNIT - II: Tourism Infrastructure and Travel Agency	Tourist accommodation: Concept	Lecture & Question answer	
11	UNIT - II: Tourism Infrastructure and Travel Agency	Tourist accommodation: Types	Lecture & Group Discussion	
12	UNIT - II: Tourism Infrastructure and Travel Agency	Transport and tourism development Road, Rail	Lecture & Group Question answer	
13	UNIT - II: Tourism Infrastructure and Travel Agency	Transport and tourism development water and Air Transport	Lecture	
14	UNIT - II: Tourism Infrastructure and Travel Agency	Tourism Organisations: U.N.W.T.O., TAAI	Lecture	
15	UNIT - II: Tourism Infrastructure and Travel Agency	Tourism Organisations: IATO, I.T.D.C.	Lecture	
16	UNIT - II: Tourism Infrastructure and Travel Agency	Tourism Organisations: M.T.D.C	Group Discussion	
17	UNIT - II: Tourism Infrastructure and Travel Agency	Travel Agency: Features	Lecture	
18	UNIT - II: Tourism Infrastructure and Travel Agency	Travel Agency: Functions with reference to documentation	Group Discussion	
19	UNIT - II: Tourism Infrastructure and Travel Agency	Travel Agency: Functions with reference to documentation	Group Discussion	
20	UNIT - III: Tourism Planning, Impacts and Sustainability	Tourism planning: Need, components	Lecture & Group Discussion	
21	UNIT - III: Tourism Planning, Impacts and Sustainability	Tourism planning: levels	Lecture & Group Discussion	



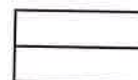
22	UNIT - III: Tourism Planning, Impacts and Sustainability	Impacts of tourism on economy	Lecture & Question answer	
23	UNIT - III: Tourism Planning, Impacts and Sustainability	Impacts of tourism on society	Lecture & Question answer	
24	UNIT - III: Tourism Planning, Impacts and Sustainability	Impacts of tourism on culture	Lecture & Group Discussion	
25	UNIT - III: Tourism Planning, Impacts and Sustainability	Impacts of tourism on environment	Lecture & Group Discussion	
26	UNIT - III: Tourism Planning, Impacts and Sustainability	Sustainable tourism: concept	Lecture & Group Discussion	
27	UNIT - III: Tourism Planning, Impacts and Sustainability	Sustainable tourism: practices	Lecture & Group Discussion	
28	UNIT - III: Tourism Planning, Impacts and Sustainability	Eco-tourism : concepts and need	Lecture & Question answer	
29	UNIT - III: Tourism Planning, Impacts and Sustainability	Responsible tourism: concepts and need	Lecture & Question answer	
30	UNIT - IV: Tourism in India with Special Reference to Maharashtra	Places of physiographic attractions in India and Maharashtra Hill stations	Lecture & Question answer	
31	UNIT - IV: Tourism in India with Special Reference to Maharashtra	Places of physiographic attractions in India and Maharashtra valleys, wild life sanctuaries	Lecture & Group Discussion	
32	UNIT - IV: Tourism in India with Special Reference to Maharashtra	Places of physiographic attractions in India and Maharashtra islands, beaches	Lecture & Group Discussion	
33	UNIT - IV: Tourism in India with Special Reference to Maharashtra	Places of religious importance in India	Lecture & Question answer	



34	UNIT - IV: Tourism in India with Special Reference to Maharashtra	Places of religious importance in Maharashtra	Lecture & Question answer	
35	UNIT - IV: Tourism in India with Special Reference to Maharashtra	Places of cultural importance in India	Lecture & Group Discussion	
36	UNIT - IV: Tourism in India with Special Reference to Maharashtra	Places of cultural importance in Maharashtra	Lecture & Question answer	
37	UNIT - IV: Tourism in India with Special Reference to Maharashtra	Recent tourism policy of India	Lecture & Question answer	
38	UNIT - IV: Tourism in India with Special Reference to Maharashtra	Places of cultural importance in Maharashtra	Lecture & Question answer	
39	UNIT - IV: Tourism in India with Special Reference to Maharashtra	Recent tourism policy of India	Lecture	
40	UNIT - IV: Tourism in India with Special Reference to Maharashtra	Recent tourism policy of Maharashtra	Lecture	
41	UNIT - V: Map-Filling and Thematic Map Reading Practical)	Map-filling on India outline map	Lecture	
42	UNIT - V: Map-Filling and Thematic Map Reading Practical)	Map-filling on India outline map	Lecture	
43	UNIT - V: Map-Filling and Thematic Map Reading Practical)	India thematic map-reading: located circles	Practical Demonstration	
44	UNIT - V: Map-Filling and Thematic Map Reading Practical)	India thematic map-reading: located circles	Practical Demonstration	
45	UNIT - V: Map-Filling and Thematic Map Reading Practical)	India thematic map-reading: located squares	Practical Demonstration	



46	UNIT - V: Map-Filling and Thematic Map Reading Practical)	India thematic map-reading: located squares	Practical Demonstration	
47	UNIT - V: Map-Filling and Thematic Map Reading Practical)	India thematic map-reading: located bars	Lecture / Practical	
48	UNIT - V: Map-Filling and Thematic Map Reading Practical)	India thematic map-reading: located bars	Lecture / Practical	
49	UNIT - V: Map-Filling and Thematic Map Reading Practical)	Map-filling on India outline map	Practical Demonstration	





Jeevandeep Shaikshnik Sanstha
Arts, Commerce and Science College, Khardi
Tal.Shahapur. Dist.Thane
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Teaching Plan for the Academic Year 2023-24
Term-II

NAME OF THE PROFESSOR: Asst.Prof.Mitali Sarode

DEPARTMENT: IT

CLASS: MSC IT PART 1

SEM: II

SUBJECT NAME: Image Processing

PAPER : _____

Lecture No.	Unit Name	Topic	Teaching Method	ICT Tools Used
1	Unit I Introduction	Digital Image Processing 2)Applications and Examples of Digital Image Processing	Group Discussion, Chart, Problem Solving	Youtube
2	Unit I Introduction	Fundamental Steps in Digital Image Processing 2) Components of an Image Processing Systems	Group Discussion, Chart, Problem Solving	
3	Unit I Introduction	Elements of Visual Perception 2)Image Sensing and Acquisition	Group Discussion, Chart, Problem Solving	Youtube
4	Unit I Introduction	Image Sampling and Quantization 2)Basic Relationship between pixels	Group Discussion, Chart, Problem Solving	
5	Unit I Intensity Transformation s and Spatial Filtering	Introduction 2) Basic Intensity Transformation Functions	Group Discussion, Chart, Problem Solving	
6	Unit I Elements Of Modern Networking	Basic Intensity Transformation Functions	Group Discussion, Chart, Problem Solving	
7	Unit I Elements Of Modern Networking	Histogram Processing	Group Discussion, Chart, Problem Solving	Youtube



8	Unit I Elements Of Modern Networking	Fundamentals of Spatial filtering	Group Discussion, Chart, Problem Solving	
9	Unit I Requirements and technology	Highpass, Band reject and Band pass filters from Lowpass filters 2)Spatial Intensity transformation and filtering methods using fuzzy techniques	Group Discussion, Chart, Problem Solving	Youtube
10	Unit I Elements Of Modern Networking	Demand: Big data, cloud computing and mobile traffic	Group Discussion, Chart, Problem Solving	
11	Unit I Elements Of	Practical	Group Discussion,	
12	Unit II Filtering In The Frequency Domain	Introduction 2)Sampling and Fourier transform of sampled functions 3) Discrete Fourier Transform of one variable 4)Discrete Fourier Transform of two variables	Group Discussion, Chart, Problem Solving	Youtube
13				
14	Unit II Filtering In The Frequency Domain	Properties of 2D DFT 2)Basics of filtering in the frequency domain	Group Discussion, Chart, Problem Solving	
15	Unit II Filtering In The Frequency Domain	Smoothing in the Frequency Domain 2)Sharpening in the Frequency Domain	Group Discussion, Chart, Problem Solving	
16	Unit II Filtering In The Frequency Domain	Selective Filtering 2)Fast Fourier Transform Algorithm	Group Discussion, Chart, Problem Solving	Youtube
17	Unit II Filtering In The Frequency Domain	Practical	Group Discussion, Error Solving	



18	Unit II Image Restoration and Reconstruction	Introduction 2)A model of the Image Degradation/Restoration process 3)Noise models	Group Discussion, Chart, Problem Solving	
19	Unit II Filtering In The Frequency Domain	Restoration in Spatial and Noise Reduction in Frequency Domain 2)Inverse Filtering	Group Discussion, Chart, Problem Solving	
20	Unit II Filtering In The Frequency Domain	Minimum Mean Square Error (Wiener) Filtering 2)Geometric Mean filter 3) Image Reconstruction from projection	Group Discussion, Chart, Problem Solving	
21				
22	Unit III Wavelet And Other Image Transform	Preliminaries	Group Discussion, Chart, Problem Solving	
23	Unit III Wavelet And Other Image Transform	Matrix-Based Transforms	Group Discussion, Chart, Problem Solving	Youtube
24	Unit III Wavelet And Other Image Transform	Matrix-Based Transforms	Group Discussion, Chart, Problem Solving	
25	Unit III Wavelet And Other Image Transform	Correlation	Group Discussion, Chart, Problem Solving	
26	Unit III Wavelet And Other Image Transform	Basis Functions in the Time-Frequency Plane	Group Discussion, Chart, Problem Solving	
27	Unit III Wavelet And Other Image Transform	Basis Images 2)Fourier-Related Transforms	Group Discussion, Chart, Problem Solving	Youtube



28	Unit III Wavelet And Other Image Transform	Walsh-Hadamard Transforms 2)Slant Transform	Group Discussion, Chart, Problem Solving	
29	Unit III Wavelet And Other Image Transform	Haar Transform 2)Wavelet Transforms	Group Discussion, Chart, Problem Solving	
30	Unit III Wavelet And Other Image Transform	Colour Fundamentals	Group Discussion, Chart, Problem Solving	Youtube
31	Unit III Wavelet And Other Image Transform	Color model	Group Discussion, Chart, Problem Solving	
32	Unit III Wavelet And Other Image Transform	Pseudocolor Image Processing	Group Discussion, Chart, Problem Solving	
33	Unit III Wavelet And Other Image Transform	Basics of Full-Color Image Processing 2)Colour Transformations	Group Discussion, Chart, Problem Solving	
34				
35	Unit III Wavelet And Other Image Transform	Color Image Smoothing and Sharpening 2)Color Image Compression	Group Discussion, Chart, Problem Solving	Youtube
36	Unit III Wavelet And	Practical	Group Discussion,	
37	Unit IV Image Compression and Watermarking	Fundamentals	Group Discussion, Chart, Problem Solving	
38	Unit IV Image Compression and Watermarking	Huffman coding 2)Golomb Coding	Group Discussion, Chart, Problem Solving	



39	Unit IV Image Compression and Watermarking	Arithmetic coding 2) LZW Coding	Group Discussion, Chart, Problem Solving	Youtube
40	Unit IV Image Compression and Watermarking	Run-Length Coding 2) Symbol-Based Coding	Group Discussion, Chart, Problem Solving	
41	Unit IV Image Compression and Watermarking	Bit-Plane Coding 2) Transform Coding	Group Discussion, Chart, Problem Solving	
42	Unit IV Image Compression and Watermarking	Predictive Coding 2) Wavelet Coding	Group Discussion, Chart, Problem Solving	
43	Unit IV Image Compression and Watermarking	Digital Image Watermarking	Group Discussion, Chart, Problem Solving	
44	IV Morphological Image Processing	Preliminaries 2) Erosion and dilation	Group Discussion, Chart, Problem Solving	Youtube
45	IV Morphological Image Processing	The Hit-or-Miss Transform 2) Morphological Algorithms	Group Discussion, Chart, Problem Solving	
46	IV Morphological Image Processing	The Hit-or-Miss Transform 2) Morphological Algorithms	Group Discussion, Chart, Problem Solving	
47	IV Morphological	Morphological Reconstruction	Group Discussion,	Youtube
48	IV Morphological Image Processing	Summary of Morphological Operations on Binary Images	Group Discussion, Chart, Problem Solving	



49	IV Morphological Image Processing	Some Basic Grayscale Morphological Algorithms	Group Discussion, Chart, Problem Solving	
50				
51	Unit V Image Segmentation	Image Segmentation using Snakes	Group Discussion, Chart, Problem Solving	Youtube
52	Unit V Image Segmentation	Practical	Group Discussion, Error Solving	
53	Unit V Image Segmentation	Image Segmentation using Level Sets	Group Discussion, Chart, Problem Solving	
54	Unit V Feature Extraction	Boundary Preprocessing	Group Discussion, Chart, Problem Solving	
55	Unit V Image Segmentation	Boundary feature descriptors	Group Discussion, Chart, Problem Solving	
56	Unit V Image Segmentation	Region Feature Descriptors	Group Discussion, Chart, Problem Solving	Youtube
57	Unit V Image Segmentation	Whole Image features	Group Discussion, Chart, Problem Solving	
58	Unit V Image Segmentation	Practical	Group Discussion, Error Solving	
59	Unit V Image Segmentation	Scale Invariant Feature Transform (SIFT)	Group Discussion, Chart, Problem Solving	Youtube





Arts, Commerce and Science College, Khardi
Tal. Shahapur. Dist. Thane
(Affiliated to Mumbai University)
Teaching Plan for the Academic Year 2023-24
Term-II

NAME OF THE PROFESSOR: Asst. Prof. Mitali Sarode

DEPARTMENT: IT

CLASS: MSC IT PART 1

SEM: II

SUBJECT NAME: Modern Networking

PAPER : _____

Lecture No.	Unit Name	Topic	Teaching Method	ICT Tools Used
1	Unit I Elements Of Modern	The Networking Ecosystem	Group Discussion, Chart, Problem Solving	Youtube
2	Unit I Elements Of Modern	Example of networking architecture	Group Discussion, Chart, Problem Solving	
3	Unit I Elements Of Modern	Ethernet	Group Discussion, Chart, Problem Solving	
4	Unit I Elements Of Modern	WiFi	Group Discussion, Chart, Problem Solving	
5	Unit I Elements Of Modern	4G/5G cellular	Group Discussion, Chart, Problem Solving	Youtube
6	Unit I Elements Of Modern	Cloud Computing	Group Discussion, Chart, Problem Solving	
7	Unit I Elements Of Modern	Internet Of things 2) networking convergence	Group Discussion, Chart, Problem Solving	
8	Unit I Elements Of Modern	Unified Communication	Group Discussion, Chart, Problem Solving	
9	Unit I Requirements and technology	Types of network and internet traffic	Group Discussion, Chart, Problem Solving	Youtube
10	Unit I Elements Of Modern	Demand: Big data, cloud computing and mobile traffic	Group Discussion, Chart, Problem Solving	
11	Unit I Elements Of Modern	requirements: QOS and QOE	Group Discussion, Chart, Problem Solving	



12	Unit I Elements Of Modern	Routing	Group Discussion, Chart, Problem Solving	
13	Unit I Elements Of Modern	Congestion control	Group Discussion, Chart, Problem Solving	Youtube
14	Unit I Elements Of Modern	SDN and NFV 2)modern networking elements	Group Discussion, Chart, Problem Solving	
15				
16	SDN: Background and Motivation and SDN Data Plane and	Evolving network requirements	Group Discussion, Chart, Problem Solving	Youtube
17	SDN: Background and Motivation and SDN Data Plane and	The SDN approach	Group Discussion, Chart, Problem Solving	
18	SDN: Background and Motivation and SDN Data Plane and	SDN-NFV related standard	Group Discussion, Chart, Problem Solving	
19	SDN: Background and Motivation and SDN Data Plane and	SDN data plane and openflow 2)Openflow logical network device	Group Discussion, Chart, Problem Solving	
20	SDN: Background and Motivation and SDN Data Plane and	Openflow logical network device	Group Discussion, Chart, Problem Solving	Youtube
21	SDN: Background and Motivation and SDN Data Plane and	OpenFlow protocol	Group Discussion, Chart, Problem Solving	
22	Unit II SDN Control Plane and SDN Application Plane	SDN Control Plane Architecture	Group Discussion, Chart, Problem Solving	
23	Unit II SDN Control Plane and SDN Application Plane	ITU-T Model	Group Discussion, Chart, Problem Solving	Youtube
24	Unit II SDN Control Plane and SDN Application Plane	opendaylight	Group Discussion, Chart, Problem Solving	
25	Unit II SDN Control Plane and SDN Application Plane	Rest	Group Discussion, Chart, Problem Solving	



26	Unit II SDN Control Plane and SDN Application Plane	cooperation and coordination among controllers	Group Discussion, Chart, Problem Solving	Youtube
27	Unit II SDN Control Plane and SDN Application Plane	SDN Application plane architecture	Group Discussion, Chart, Problem Solving	
28	Unit II SDN Control Plane and SDN Application Plane	network services abstraction layer	Group Discussion, Chart, Problem Solving	
29	Unit II SDN Control Plane and SDN Application Plane	traffic engineering	Group Discussion, Chart, Problem Solving	Youtube
30	Unit II SDN Control Plane and SDN Application Plane	measurment and monitoring 2)security	Group Discussion, Chart, Problem Solving	
31	Unit II SDN Control Plane and SDN Application Plane	Data center networking	Group Discussion, Chart, Problem Solving	
32	Unit II SDN Control Plane and SDN Application Plane	Mobility and wireless 2)information-centric networking	Group Discussion, Chart, Problem Solving	
33				
34	Unit III Virtualization	Network Function virtualization	Group Discussion, Chart, Problem Solving	Youtube
35	Unit III Virtualization	Network Function virtualization	Group Discussion, Chart, Problem Solving	
36	Unit III Virtualization	Practical	Group Discussion, Error Solving	
37	Unit III Virtualization	NFV principles	Group Discussion, Chart, Problem Solving	
38	Unit III Virtualization	NFV Requirements	Group Discussion, Chart, Problem Solving	
39	Unit III Virtualization	NFV reference architecture	Group Discussion, Chart, Problem Solving	



40	Unit III NFV Functionality	NFV Infrastructure	Group Discussion, Chart, Problem Solving	Youtube
41	Unit III NFV Functionality	Hypervisor domain	Group Discussion, Chart, Problem Solving	
42	Unit III NFV Functionality	Practical	Group Discussion, Error Solving	
43	Unit III NFV Functionality	Virtual Networks	Group Discussion, Chart, Problem Solving	
44				
45	Unit III NFV Functionality	Virtual Networks	Group Discussion, Chart, Problem Solving	
46	Unit III NFV Functionality	Network Virtualization	Group Discussion, Chart, Problem Solving	
47	Unit III NFV Functionality	Defining VLANs	Group Discussion, Chart, Problem Solving	Youtube
48	Unit III NFV Functionality	MPLS Vpns	Group Discussion, Chart, Problem Solving	
49	Unit III NFV Functionality	Network Virtualization Architecture	Group Discussion, Chart, Problem Solving	
50	Unit III NFV Functionality	Practical	Group Discussion, Error Solving	
51	Unit IV Quality Of Service(QoS) and User Quality of Experience(QoE)	Background 2)QoS Architectural network	Group Discussion, Chart, Problem Solving	Youtube
52	Unit IV Quality Of Service(QoS) and User Quality of Experience(QoE)	Integrated service architecture(ISA)	Group Discussion, Chart, Problem Solving	
53	Unit IV Quality Of Service(QoS) and User Quality of Experience(QoE)	Differentiated services	Group Discussion, Chart, Problem Solving	
54	Unit IV Quality Of Service(QoS) and User Quality of Experience(QoE)	Service level agreements 2)IP performance metrics	Group Discussion, Chart, Problem Solving	Youtube
55	Unit IV Quality Of Service(QoS) and User Quality of Experience(QoE)	Openflow QoS support 2)QoE: User Quality of Experience 3)service failures due to inadequate qos	Group Discussion, Chart, Problem Solving	



56	Unit IV Quality Of Service(QoS) and User Quality of Experience(QoE)	QoE-related standardization projects 2)Definition of Quality experience	Group Discussion, Chart, Problem Solving	
57	Unit IV Quality Of Service(QoS) and User Quality of Experience(QoE)	QoE strategies practice 2)factors influencing QOE	Group Discussion, Chart, Problem Solving	
58	Unit IV Quality Of Service(QoS) and User Quality of Experience(QoE)	measurements of QoE	Group Discussion, Chart, Problem Solving	Youtube
59	Unit IV Quality Of Service(QoS) and User Quality of Experience(QoE)	applicationd of QoE	Group Discussion, Chart, Problem Solving	
60	Unit IV Network design implications of QoE and QoS	Classification of QoE/QoS mapping models	Group Discussion, Chart, Problem Solving	
61	Unit IV Network design implications of QoE and QoS	IP-oriented parameter-based QoS/QoE mapping models 2>Actionable QoE	Group Discussion, Chart, Problem Solving	
62	Unit IV Network design implications of QoE and QoS	QoE versus QoS service monitoring	Group Discussion, Chart, Problem Solving	Youtube
63	Unit IV Network design implications of QoE and QoS	QoE based network and service management	Group Discussion, Chart, Problem Solving	
64				
65	Unit V Modern Network Architecture:Cloud s and FogCloud Computing	Basic concepts 2)Cloud services	Group Discussion, Chart, Problem Solving	
66	Unit V Modern Network Architecture:Cloud s and FogCloud Computing	Practical	Group Discussion, Error Solving	
67	Unit V Modern Network Architecture:Cloud s and FogCloud Computing	Cloud deployment models	Group Discussion, Chart, Problem Solving	Youtube



68	Unit V Modern Network Architecture:Cloud s and FogCloud Computing	cloud architecture	Group Discussion, Chart, Problem Solving	
69	Unit V Modern Network Architecture:Cloud s and FogCloud Computing	SDN and NFV	Group Discussion, Chart, Problem Solving	
70	Unit V Modern Network Architecture:Cloud s the internet of things	the IOT ERA begins 2)scope of the internet of things	Group Discussion, Chart, Problem Solving	Youtube
71	Unit V Modern Network Architecture:Cloud s the internet of things	components of IOT enabled things	Group Discussion, Chart, Problem Solving	
72	Unit V Modern Network Architecture:Cloud s the internet of things	IOT architecture	Group Discussion, Chart, Problem Solving	Youtube
73	Unit V Modern Network Architecture:Cloud s the internet of things	IOT implementation	Group Discussion, Chart, Problem Solving	
74	Unit V Modern Network Architecture:Cloud s the internet of things	Practical	Group Discussion, Error Solving	
75	Unit V Modern Network Architecture:Cloud s the internet of things	IOT implementation	Group Discussion, Chart, Problem Solving	Youtube





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Teaching Plan for the Academic Year 2023-24
Term-II

NAME OF THE PROFESSOR: Asst.Prof.Mitali Sarode

DEPARTMENT: IT

CLASS: MSC IT PART 1

SEM: II

SUBJECT NAME: Microservices Architecture

PAPER : _____

Lecture No.	Unit Name	Topic	Teaching Method	ICT Tools Used
1	Unit I Monolith To The Microservice Way	Monolith Application 2) What are Microservices	Group Discussion, Chart, Problem	Youtube
2	Unit I Monolith To The Microservice Way	Deriving Business Value 2) Defining a Goal-oriented, Layered Approach	Group Discussion, Chart, Problem	
3	Unit I Monolith To The Microservice Way	Deriving Business Value 2) Defining a Goal-oriented, Layered Approach	Group Discussion, Chart, Problem Solving	
4	Unit I Designing Microservices System & Establishing	The System Approach to microservices	Group Discussion, Chart, Problem Solving	
5	Unit I Designing Microservices System & Establishing	Embracing change & putting it together 2) Standardization & Co- ordination	Group Discussion, Chart, Problem Solving	Youtube
6	Unit I Designing Microservices System & Establishing	Practical	Group Discussion, Error Solving	
7	Unit I Designing Microservices System & Establishing	A Microservices Design Process	Group Discussion, Chart, Problem Solving	
8	Unit I Designing Microservices System & Establishing	The Microservices System Designer 2) Goals & Principles	Group Discussion, Chart, Problem Solving	
9	Unit I Designing Microservices System & Establishing	Goals & Principles	Group Discussion, Chart, Problem Solving	



10	Unit I Designing Microservices System & Establishing	Platforms	Group Discussion, Chart, Problem Solving	Youtube
11	Unit I Designing Microservices System & Establishing	Practical	Group Discussion, Error Solving	
12	Unit I Designing Microservices System & Establishing	Platforms	Group Discussion, Chart, Problem Solving	
13				
14	Unit II Service Design	microservices boundaries 2)Domain Driven Design 3)Bounded Context	Group Discussion, Chart, Problem	
15	Unit II Service Design	API Design for Microservices 2)Message-Oriented 3)Hypermedia-Driven 4)Data and Microservice	Group Discussion, Chart, Problem	Youtube
16	Unit II Service Design		Group Discussion, Chart, Problem	
17	Unit II Service Design	Shipping, Inc 2)Event Sourcing 3)System Model for Shipping, Inc 4)CQRS 5)Distributed Transaction and Sagas	Group Discussion, Chart, Problem Solving	
18	Unit II Service Design	Asynchronous Message-Passing and Microservices	Group Discussion, Chart, Problem	
19	Unit II Service Design	Independent Deployability 2)Docker and Microservices 3)The Role of Service Discovery	Group Discussion, Chart, Problem	Youtube
20	Unit II Service Design	The Need for an API Gateway 2)Routing	Group Discussion, Chart, Problem	
21	Unit II Adopting Microservices in practice	Solution Architecture Guidance 2)How many bug fixes/features should be included in a single release 3)How do I know our microservice transformation is done	Group Discussion, Chart, Problem Solving	
22	Unit II Adopting Microservices in practice	Organizational Guidance	Group Discussion, Chart, Problem	
23	Unit II Adopting Microservices in practice	Practical	Group Discussion, Error Solving	
24	Unit II Adopting Microservices in practice	Culture Guidance 2)Can I do microservices with outsourced workers? 3)Services Guidance	Group Discussion, Chart, Problem	Youtube



25	Unit II Adopting Microservices in practice	Should all microservices be coded in the same programming language?	Group Discussion, Chart, Problem	
26				
27	Unit III Introduction To ASP.NET Core and Docker	1 Introduction To .Net Core 2) Installing .Net Core	Group Discussion, Chart, Problem	Youtube
28		Practical	Group Discussion, Error Solving	
29	Unit III Introduction To ASP.NET Core and Docker	3) Building A Console App	Group Discussion, Chart, Problem	
30	Unit III Introduction To ASP.NET Core and Docker	Introduction To Docker	Group Discussion, Chart, Problem	
31	Unit III Introduction To ASP.NET Core and Docker	Installing Docker 2) Running Asp.net Core App Using Docker	Group Discussion, Chart, Problem	
32	Unit III Introduction To ASP.NET Core and Docker	Continuous Integration With Wercker	Group Discussion, Chart, Problem	Youtube
33	Unit III Introduction To ASP.NET Core and Docker	Deploying to Docker Hub	Group Discussion, Chart, Problem	
34	Unit III Introduction To ASP.NET Core and Docker	Practical	Group Discussion, Error Solving	
35	Unit III Introduction To Microservices	Introduction to Microservices 2) Introduction to Team Service	Group Discussion, Chart, Problem	
36	Unit III Introduction To Microservices	API First Development for Team Service	Group Discussion, Chart, Problem	
37	Unit III Introduction To Microservices	Creating a CI Pipeline 2) Microservices Ecosystem 3) Building the Location Service	Group Discussion, Chart, Problem	Youtube
38	Unit III Introduction To Microservices	Enhancing Team Service	Group Discussion, Chart, Problem	
39				
40	Unit IV Creating Data Service and Event Sourcing cQRS	Introduction 2) Choosing a Data Store	Group Discussion, Chart, Problem	Youtube



41	Unit IV Creating Data Service and Event Sourcing cqrs	Building a Postgres Repository	Group Discussion, Chart, Problem	
42	Unit IV Creating Data Service and Event Sourcing cqrs	Databases are Backing Services	Group Discussion, Chart, Problem	
43	Unit IV Creating Data Service and Event Sourcing cqrs	Integration Testing Real Repositories	Group Discussion, Chart, Problem	
44	Unit IV Creating Data Service and Event Sourcing cqrs	Exercise the Data Service	Group Discussion, Chart, Problem	Youtube
45	Unit IV Creating Data Service and Event Sourcing cqrs	Introducing Event Sourcing	Group Discussion, Chart, Problem	
46	Unit IV Creating Data Service and Event Sourcing cqrs	The CQRS Pattern	Group Discussion, Chart, Problem	
47	Unit IV Creating Data Service and Event Sourcing cqrs	Event Sourcing and CQRS in Action	Group Discussion, Chart, Problem	
48	Unit IV Creating Data Service and Event Sourcing cqrs	Running the Samples	Group Discussion, Chart, Problem	Youtube
49	Unit IV Building An ASP.NET Core Web Application And Service Discovery	ASP.NET Core Basics	Group Discussion, Chart, Problem Solving	
50	Unit IV Building An ASP.NET Core Web Application And Service Discovery	Building Cloud-Native Web Applications	Group Discussion, Chart, Problem Solving	Youtube
51	Unit IV Building An ASP.NET Core Web Application And Service Discovery	Cloud Native Factors	Group Discussion, Chart, Problem Solving	
52	Unit IV Building An ASP.NET Core Web Application And Service Discovery	Introducing Netflix Eureka	Group Discussion, Chart, Problem Solving	
53	Unit IV Building An ASP.NET Core Web Application And Service Discovery	Discovering and Advertising ASP.NET Core Services 2)DNS and Platform Supported Discovery	Group Discussion, Chart, Problem Solving	Youtube
54				



55	Unit V Configuring Microservice Ecosystems And Secure Application and Microservices	Configuring Microservice Ecosystems 2)Using Environment Variables with Docker 3)Using Spring Cloud Config Server	Group Discussion, Chart, Problem Solving	Youtube
56	Unit V Configuring Microservice Ecosystems And Secure Application and Microservices	Configuring Microservices with etcd 2)Creating an etcd Configuration Provider	Group Discussion, Chart, Problem Solving	
57	Unit V Configuring Microservice Ecosystems And Secure Application and Microservices	Practicals	Group Discussion, Error Solving	
58	Unit V Configuring Microservice Ecosystems And Secure Application and Microservices	Securing Applications and Microservices	Group Discussion, Chart, Problem Solving	
59	Unit V Configuring Microservice Ecosystems And Secure Application and Microservices	Securing ASP.NET Core Web Apps	Group Discussion, Chart, Problem Solving	Youtube
60	Unit V Building Real-Time Apps And Service And Putting It All Together	Real-Time Applications Defined 2)Websockets in the Cloud	Group Discussion, Chart, Problem Solving	
61	Unit V Building Real-Time Apps And Service And Putting It All Together	Utilizing a Cloud Messaging Provider 2)Building the Proximity Monitor	Group Discussion, Chart, Problem Solving	
62	Unit V Building Real-Time Apps And Service And Putting It All Together	Building the Proximity Monitor	Group Discussion, Chart, Problem Solving	Youtube
63	Unit V Building Real-Time Apps And Service And Putting It All Together	Practicals	Group Discussion, Error Solving	
64	Unit V Building Real-Time Apps And Service And Putting It All Together	Assembling It All 2)Recognizing and Fixing Anti-Patterns	Group Discussion, Chart, Problem Solving	



65	Unit V Building Real-Time Apps And Service And Putting It All Together	Proceeding with the Debate over Composite Microservices	Group Discussion, Chart, Problem Solving	Youtube
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Jeevandeep Shaikshnik Sanstha
Arts, Commerce and Science College, Khardi
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Teaching Plan for the Academic Year 2023-24
Term-II

NAME OF THE PROFESSOR: Asst.Prof.Mitali Sarode

DEPARTMENT: IT

CLASS: MSC IT PART 1

SEM: II

SUBJECT NAME: Big Data Analytics

PAPER : _____

Lecture No.	Unit Name	Topic	Teaching Method	ICT Tools Used
1	Unit I Introduction to Big data	Introduction to Big data 2)characteristics of data	Group Discussion, Chart, Problem	Youtube
2	Unit I Introduction to Big data	3)Evolution of big data 4)Definition of BIG DATA	Group Discussion, Chart,	
3	Unit I Introduction to Big data	Challenges with big data 2)Why big data 3)Data ware house environment	Group Discussion, Chart, Problem Solving	
4	Unit I introduction to Big data	4)Traditional business intelligence(BI) versus big data	Group Discussion, Chart, Problem	Youtube
5	Unit I Introduction to Big data	State of the practice in analytics	Group Discussion, Chart,	
6	Unit I Introduction to Big data	Key role for the new big data ecosystem	Group Discussion, Chart, Problem Solving	
7	Unit I Introduction to Big data	Examples of big data analytics	Group Discussion, Chart, Problem	
8	Unit I Introduction to Big data	Introduction to Big data 2)classification of analytics	Group Discussion, Chart, Problem Solving	Youtube



9	Unit I Introduction to Big data	Practical	Group Discussion, Error Solving	
10	Unit I Introduction to Big data	3)Challenges of big data 4)Importance of BIG DATA	Group Discussion, Chart, Problem	
11	Unit I Big data AnalyticsS	Data science 2)responsibilities 3)Soft state eventyal consistency	Group Discussion, Chart, Problem Solving	Youtube
12	Unit I Big data AnalyticsS	Data analytics Life cycle	Group Discussion, Chart, Problem Solving	
13	Unit I Big data AnalyticsS	elements of parallel computing	Group Discussion, Chart, Problem Solving	
14				
15	Unit II Overviews of clustering	overviews of clustering 2)K-means	Group Discussion, Chart, Problem Solving	Youtube
16	Unit II Overviews of clustering	K-Means	Group Discussion, Chart,	
17	Unit II Overviews of clustering	Association rules	Group Discussion, Chart, Problem Solving	
18	Unit II Overviews of	Association rules	Group Discussion,	
19	Unit II Regression Analysis	Objectives 2)Linear Regression	Group Discussion, Chart, Problem Solving	
20	Unit II Regression Analysis	Linear Regression	Group Discussion, Chart,	Youtube



21	Unit II Regression Analysis	Practical	Group Discussion, Error Solving	
22	Unit II Regression Analysis	Logistic Regreassion	Group Discussion, Chart, Problem Solving	
23	Unit II Regression Analysis	Logistic Regreassion	Group Discussion, Chart, Problem Solving	
24	Unit II Regression Analysis	Reasons to choose and cautions	Group Discussion, Chart, Problem Solving	Youtube
25				
26	Unit III Analytical theory and Methods	Decision trees	Group Discussion, Chart, Problem Solving	
27	Unit III Analytical theory and Methods	Decision trees	Group Discussion, Chart, Problem Solving	Youtube
28	Unit III Analytical theory and Methods	Naive Bayes 2)Naive Bayes Theorem 3)Diagnostics	Group Discussion, Chart, Problem Solving	
29	Unit III Analytical theory and Methods	Practical	Group Discussion, Error Solving	
30	Unit III Analytical theory and Methods	Diagnostics of classifiers	Group Discussion, Chart, Problem Solving	
31	Unit III Analytical theory and Methods	Additional Classification Methods	Group Discussion, Chart, Problem Solving	



32	Unit III Time Series Ans Text Analysis	Overviews of time series analysis	Group Discussion, Chart, Problem Solving	Youtube
33	Unit III Time Series Ans Text Analysis	Arima model(Autoregressiv e integrated moving average)	Group Discussion, Chart, Problem Solving	
34	Unit III Time Series Ans Text Analysis	Arima model(Autoregressiv e integrated moving average)	Group Discussion, Chart, Problem Solving	
35	Unit III Time Series Ans Text Analysis	Additional Methods 2)Text Analysis, steps and examples	Group Discussion, Chart, Problem Solving	
36	Unit III Time Series Ans Text Analysis	Collecting raw text 2)representing text	Group Discussion, Chart, Problem Solving	Youtube
37	Unit III Time Series Ans Text Analysis	Term frequency- inverse document frequency(TFIDF)	Group Discussion, Chart, Problem Solving	
38	Unit III Time Series Ans Text Analysis	Categorizing documents by topics 2)Determing Statements	Group Discussion, Chart, Problem Solving	
39				
40	Unit IV Data Product & Big data operating system	Introduction to data product 2)Using hadoop to build data product at scale	Group Discussion, Chart, Problem Solving	Youtube
41	Unit IV Data Product & Big data operating system	Using hadoop to build data product at scale	Group Discussion, Chart, Problem Solving	



42	Unit IV Data Product & Big data operating system	Hadoop	Group Discussion, Chart, Problem Solving	
43	Unit IV Data Product & Big data operating system	Hadoop Architecture	Group Discussion, Chart, Problem Solving	Youtube
44	Unit IV Data Product & Big data operating system	Working with distributed computation	Group Discussion, Chart, Problem Solving	
45	Unit IV Hadoop streaming & In-memory computation with spark	Hadoop streaming	Group Discussion, Chart, Problem Solving	
46	Unit IV Hadoop streaming & In-memory computation with spark	Advanced map reduce concepts	Group Discussion, Chart, Problem Solving	Youtube
47	Unit IV Hadoop streaming & In-memory computation with spark	Spark Basics 2)The spark stack	Group Discussion, Chart, Problem Solving	
48	Unit IV Hadoop streaming & In-memory computation with spark	Practical	Group Discussion, Error Solving	
49	Unit IV Hadoop streaming & in-memory computation with spark	Resilient Distributed Datasets(RDD) 2)Typical Spark Application	Group Discussion, Chart, Problem Solving	



50				
51	Unit V Distributed Analysis and Patterns	Distributed analysis and patterns	Group Discussion, Chart, Problem Solving	Youtube
52	Unit V Distributed Analysis and Patterns	Computing with keys	Group Discussion, Chart, Problem Solving	
53	Unit V Distributed Analysis and Patterns	Computing with keys	Group Discussion, Chart, Problem Solving	
54	Unit V Distributed Analysis and Patterns	Design Patterns	Group Discussion, Chart, Problem Solving	
55	Unit V Distributed Analysis and Patterns	Design Patterns	Group Discussion, Chart, Problem Solving	Youtube
56	Unit V Distributed Analysis and Patterns	Towards Last-Mile analytics	Group Discussion, Chart, Problem Solving	
57	Unit V Data Mining and warehousing	Data mining and warehousing 2) Structured data	Group Discussion, Chart,	
58	Unit V Data Mining and warehousing	Structured data queries with hive	Group Discussion, Chart, Problem Solving	
59	Unit V Data Mining and warehousing	Hbase 2) Data Ingestion	Group Discussion, Chart, Problem Solving	Youtube
60	Unit V Data Mining and warehousing	Practical	Group Discussion, Chart, Problem Solving	



61	Unit V Data Mining and warehousing	Ingesting streaming data with flume	Group Discussion, Chart, Problem Solving	
62	Unit V Data Mining and warehousing	Analytics with Higher level APIS	Group Discussion, Chart, Problem Solving	
63	Unit V Data Mining and warehousing	Spark's Higher level APIS	Group Discussion, Chart, Problem Solving	Youtube





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Teaching Plan for the Academic Year 2023-24
Term-II

NAME OF THE PROFESSOR: Asst.Prof.Mitali M. Chaudhary

DEPARTMENT: IT

CLASS: MSC IT PART 1

SEM: I

SUBJECT NAME: Data Science

PAPER : _____

Lecture No.	Unit Name	Topic	Teaching Method	ICT Tools Used
1	Unit I Data Science Technology Stack	Rapid Information Factory Ecosystem, Data Science Storage Tools,	Group Discussion, Chart, Problem Solving	You-tube
2	Unit I Data Science Technology Stack	Data Lake, Data Vault, Data Warehouse Bus Matrix	Group Discussion, Chart, Problem Solving	
3	Unit I Data Science Technology Stack	Data Science Processing Tools ,Spark, Mesos, Akka	Group Discussion, Chart, Problem Solving	
4	Unit I Data Science Technology Stack	Cassandra, Kafka, Elastic Search, R	Group Discussion, Chart, Problem Solving	You-tube
5	Unit I Vermeulen- krennwallner- Hillman-Clark	Scala, Python, MQTT, The Future	Group Discussion, Chart, Problem Solving	
6	Unit I Layered Framework	Definition of Data Science Framework 2)Cross- Industry Standard Process for Data Mining (CRISP- DM	Group Discussion, Chart, Problem Solving	



7	Unit I Layered Framework	Homogeneous Ontology for Recursive Uniform Schema	Group Discussion, Chart, Problem Solving	
8	Unit I Layered Framework	The Top Layers of a Layered Framework	Group Discussion, Chart, Problem Solving	You-tube
9	Unit I Layered Framework	Layered Framework for High-Level Data Science and Engineering	Group Discussion, Chart, Problem Solving	
10	Unit I Business Layer	Business Layer	Group Discussion, Chart, Problem Solving	
	Unit I Business Layer	Practical	Group Discussion, Error Solving	
11	Unit I Business Layer	Engineering a Practical Business Layer	Group Discussion, Chart, Problem Solving	You-tube
12	Unit I Utility Layer	Basic Utility Design,	Group Discussion, Chart, Problem Solving	
13	Unit I Business Layer	Engineering a Practical Utility Layer	Group Discussion, Chart, Problem Solving	You-tube



1	Unit II Problem Definition	1)Clarity in Research Questions and Hypotheses 2)The ResearchProposal 3)Anticipating Outcomes	Group Discussion, Chart, Problem Solving	
2	Unit II Qualitative Reaserch Tools	Qualitative research	Group Discussion, Chart, Problem Solving	You-tube
3	Unit II Qualitative Reaserch Tools	Qualitative research	Group Discussion, Chart, Problem Solving	
4	Unit II Qualitative Reaserch Tools	Ethnography	Group Discussion, Chart, Problem Solving	
5	Unit II Qualitative Reaserch Tools	Grounded Theory Case Studies	Group Discussion, Chart, Problem Solving	You-tube
6	Unit II Qualitative Reaserch Tools	CommonTechniquesUsed in Qualitative Research	Group Discussion, Chart, Problem Solving	
7	Unit II Qualitative Reaserch Tools	Focus Group Illustration	Group Discussion, Chart, Problem Solving	
8	Unit II Qualitative Reaserch Tools	Focus Groups As DiagnosticTools Video Conferencing And Focus Groups	Group Discussion, Chart, Problem Solving	You-tube
	Unit II Qualitative Reaserch Tools	Practical	Group Discussion, Error Solving	



9	Unit II Qualitative Research Tools	Interactive Media and Online Focus Groups	Group Discussion, Chart, Problem Solving	
10	Unit II Qualitative Research Tools	Projective Research Techniques	Group Discussion, Chart, Problem Solving	
11	Unit II Qualitative Research Tools	Exploratory Research in Science and in Practice	Group Discussion, Chart, Problem Solving	You-tube
12	Unit II Qualitative Research Tools	Scientific Decision Processes	Group Discussion, Chart, Problem Solving	
1	Unit III Observation methods and experimental research	Observation in Business Research 2) The Nature of Observation Studies 3) Direct Observation	Group Discussion, Chart, Problem Solving	You-tube
2	Unit III Observation methods and experimental research	Content Analysis 2) Mechanical Observation	Group Discussion, Chart, Problem Solving	
3	Unit III Observation methods and experimental research	Experimental Research 2) Manipulation of the Independent Variable	Group Discussion, Chart, Problem Solving	
4	Unit III Observation methods and experimental research	3) Selection and Assignment of Test Units	Group Discussion, Chart, Problem Solving	You-tube



5	Unit III Observation methods and experimental research	Demand Characteristics	Group Discussion, Chart, Problem Solving	
6	Unit III Observation methods and experimental research	Establishing Control2)4 Practical Experimental Design Issues	Group Discussion, Chart, Problem Solving	You-tube
7	Unit III Observation methods and experimental research	Classification of Experimental Designs	Group Discussion, Chart, Problem Solving	
8	Unit III Survey Research	Surveys Research	Group Discussion, Chart, Problem Solving	You-tube
9	Unit III Survey Research	Types of Response Bias	Group Discussion, Chart, Problem Solving	
10	Unit III Survey Research	Classifying Survey Research Methods	Group Discussion, Chart, Problem Solving	You-tube
11	Unit III Survey Research	Personal Interviews	Group Discussion, Chart, Problem Solving	
12	Unit III Survey Research	Door-to-Door Interviews and Shopping Mall Intercepts	Group Discussion, Chart, Problem Solving	You-tube
13	Unit III Survey Research	Telephone Interviews	Group Discussion, Chart, Problem Solving	
14	Unit III Survey Research	Self-Administered Questionnaires	Group Discussion, Chart, Problem Solving	
15	Unit III Survey Research	Self-Administered Questionnaires Using Other Forms of Distribution	Group Discussion, Chart, Problem Solving	You-tube



1	Unit IV Measurement concepts,sampling and field work	Levels of Measurement	Group Discussion, Chart, Problem Solving	You-tube
2	Unit IV Measurement concepts,sampling and field work	Analysis of Scales	Group Discussion, Chart, Problem Solving	
3	Unit IV Measurement concepts,sampling and field work	Index measures	Group Discussion, Chart, Problem Solving	You-tube
4	Unit IV Measurement concepts,sampling and field work	Criteria for Good Measurement	Group Discussion, Chart, Problem Solving	
5	Unit IV Measurement concepts,sampling and field work	1)Validity	Group Discussion, Chart, Problem Solving	You-tube
6	Unit IV Measurement concepts,sampling and field work	1)Sensitivity	Group Discussion, Chart, Problem Solving	
7	Unit IV Measurement concepts,sampling and field work	Attitude Rating Scale	Group Discussion, Chart, Problem Solving	You-tube
8	Unit IV Measurement concepts,sampling and field work	Questionnaire Design	Group Discussion, Chart, Problem Solving	You-tube
9	Unit IV Measurement concepts,sampling and field work	Questionnaire Design	Group Discussion, Chart, Problem Solving	You-tube



10	Unit IV Measurement concepts,sampling and field work	Sampling Terminologies	Group Discussion, Chart, Problem Solving	You-tube
11	Unit IV Measurement concepts,sampling and field work	Purpose of Sampling	Group Discussion, Chart, Problem Solving	You-tube
12	Unit IV Measurement concepts,sampling and field work	1)Stages of Sampling Process	Group Discussion, Chart, Problem Solving	You-tube
13	Unit IV Measurement concepts,sampling and field work	Techniques of Sampling	Group Discussion, Chart, Problem Solving	You-tube
14	Unit IV Measurement concepts,sampling and field work	Techniques of Sampling	Group Discussion, Chart, Problem Solving	You-tube
15	Unit IV Measurement concepts,sampling and field work	Stage 1	Group Discussion, Chart, Problem Solving	You-tube
16	Unit IV Measurement concepts,sampling and field work	Stage 2	Group Discussion, Chart, Problem Solving	You-tube
17	Unit IV Measurement concepts,sampling and field work	Advantages and disadvantages	Group Discussion, Chart, Problem Solving	You-tube
18	Unit IV Measurement concepts,sampling and field work	Some more types of Non- Probability Sampling Techniques	Group Discussion, Chart, Problem Solving	You-tube



19	Unit IV Measurement concepts,sampling and field work	Some more types of Non- Probability Sampling Techniques	Group Discussion, Chart, Problem Solving	You-tube
1	Unit V Data Analysis ans Presentation	Stages of Data Analysis	Group Discussion, Chart, Problem Solving	You-tube
2	Unit V Data Analysis ans Presentation	Code Construction	Group Discussion, Chart, Problem Solving	
3	Unit V Data Analysis ans Presentation	Precoding Fixed- Alternative Questions2)Editing and Coding Combined3)Computerized	Group Discussion, Chart, Problem Solving	You-tube
4	Unit V Basic Data Analysis	The Nature of Descriptive Analysis 2)Tabulation	Group Discussion, Chart, Problem Solving	
5	Unit V Basic Data Analysis	Elaboration and Refinement 2)Quadrant Analysis	Group Discussion, Chart, Problem Solving	You-tube
6	Unit V Basic Data Analysis	Data Transformation	Group Discussion, Chart, Problem Solving	You-tube
7	Unit V Basic Data Analysis	Calculating Rank Order 2)Tabular and Graphic Method of Displaying Data 3)Computer Programs for Analysis	Group Discussion, Chart, Problem Solving	



8	Unit V Basic Data Analysis	SPSS Statistics 2) SAS/STAT 3)Computer Graphics and Computer Mapping	Group Discussion, Chart, Problem Solving	You-tube
9	Unit V Basic Data Analysis	Interpretation	Group Discussion, Chart, Problem Solving	
10	Unit V Univariate Statistical Analysis	Hypothesis Testing	Group Discussion, Chart, Problem Solving	
11	Unit V Univariate Statistical Analysis	Choosing the Appropriate Statistical Technique	Group Discussion, Chart, Problem Solving	You-tube
12	Unit V Univariate Statistical Analysis	The t-Distribution 2)The Chi-Square Test for Goodness of Fit 3)Hypothesis Test of a Proportion	Group Discussion, Chart, Problem Solving	
13	Unit V Bivariate Statistical Analysis	What is the appropriate Test of Difference? 2)Cross Tabulation Tables	Group Discussion, Chart, Problem Solving	You-tube
14	Unit V Bivariate Statistical Analysis	The T-Test for Comparing Two Means 2)Analysis Of Variance (ANOVA).	Group Discussion, Chart, Problem Solving	
15	Unit V Multivariate Statistical Analysis	The "Variate" in Multivariate 2)Classifying Multivariate Techniques 3)Analysis of Dependence	Group Discussion, Chart, Problem Solving	
16	Unit V Bivariate Statistical Analysis	ANOVA (n-Way) and MANOVA	Group Discussion, Chart, Problem Solving	You-tube



17	Unit V Bivariate Statistical Analysis	Analysis of Interdependence	Group Discussion, Chart, Problem Solving	
18	Unit V Bivariate Statistical Analysis	Cluster Analysis 2) Multidimensional Scaling	Group Discussion, Chart, Problem Solving	You-tube





Jeevandeep Shaikshnik Sanstha
Arts, Commerce and Science College, Khardi
Tal. Shahapur. Dist. Thane
(Affiliated to Mumbai University)
Teaching Plan for the Academic Year 2023-24
Term-II

NAME OF THE PROFESSOR: Asst.Prof.Mitali Sarode

DEPARTMENT: IT

CLASS: MSC IT PART 1

SEM: I

SUBJECT NAME: Cloud Computing

PAPER : _____

Lecture No.	Unit Name	Topic	Teaching Method	ICT Tools Used
1	Unit I Introduction to Cloud Computing	Introduction 2)Cloud computing at a glance	Group Discussion, Chart, Problem Solving	Youtube
2	Unit I Introduction to Cloud Computing	Historical developments	Group Discussion, Chart, Problem Solving	
3	Unit I Introduction to Cloud Computing	Building Cloud Computing	Group Discussion, Chart, Problem Solving	
4	Unit I Introduction to Cloud Computing	Environments,	Group Discussion, Chart, Problem Solving	Youtube



5	Unit I Introduction to Cloud Computing	Computing platforms and technologies	Group Discussion, Chart, Problem Solving	
6	Unit I Principle of parallel and distributed computing	Eras of Computing, Parallel computing and distributed computing	Group Discussion, Chart, Problem Solving	
7	Unit I Principle of parallel and distributed computing	elements of parallel computing	Group Discussion, Chart, Problem Solving	
8	Unit I Principle of parallel and distributed computing	elements of distributed computing	Group Discussion, Chart, Problem Solving	Youtube
9	Unit I Principle of parallel and distributed computing	technologies for distributed computing	Group Discussion, Chart, Problem Solving	Youtube
10	Unit I Principle of parallel and distributed computing	Why do you need a Web Service? 2) Type of Web Service	Group Discussion, Chart, Problem Solving	
11	Unit I Principle of parallel and distributed computing	Universal Description, Discovery, and Integration (UDDI) 2) Service orientation and cloud computing	Group Discussion, Chart, Problem Solving	



12	Unit I Virtualization	Increased performance and computing capacity 2) Underutilized hardware and software resources 3) Lack of space 4) Greening initiatives 5) Rise of administrative	Group Discussion, Chart, Problem Solving	Youtube
13	Unit I Virtualization	Major components of virtualization environment 2) Characteristics of Virtualization	Group Discussion, Chart, Problem Solving	
14	Unit I Virtualization	Taxonomy of virtualization techniques	Group Discussion, Chart, Problem Solving	
15	Unit I Virtualization	Security rings and privilege mode 2) Hypervisors	Group Discussion, Chart, Problem Solving	
16	Unit I Virtualization	Hypervisor Reference Model	Group Discussion, Chart, Problem Solving	
17	Unit I Virtualization	Hardware virtualization techniques	Group Discussion, Chart, Problem Solving	Youtube
18	Unit I Virtualization	Full Virtualization 2) Paravirtualization	Group Discussion, Chart, Problem Solving	
19	Unit I Virtualization	Programming Language level virtualization	Group Discussion, Chart, Problem Solving	
20	Unit I Virtualization	Other types of virtualization	Group Discussion, Chart, Problem Solving	



21	Unit I Virtualization	Virtualization and cloud computing	Group Discussion, Chart, Problem Solving	
22	Unit I Virtualization	Technology Examples	Group Discussion, Chart, Problem Solving	Youtube
23				
24	Unit II Cloud Computing Architecture	Prologue to cloud computing architecture 2) Essential ideas and models.	Group Discussion, Chart, Problem Solving	Youtube
25	Unit II Cloud Computing Architecture	Jobs and cutoff points	Group Discussion, Chart, Problem Solving	
26	Unit II Cloud Computing Architecture	Limit 2) Cloud Characteristics	Group Discussion, Chart, Problem Solving	
27	Unit II Cloud Computing Architecture	Cloud Conveyance model	Group Discussion, Chart, Problem Solving	
28	Unit II Cloud Computing Architecture	Cloud deployment models	Group Discussion, Chart, Problem Solving	Youtube
29	Unit II Cloud Computing Architecture	Financial Matters of the cloud	Group Discussion, Chart, Problem Solving	



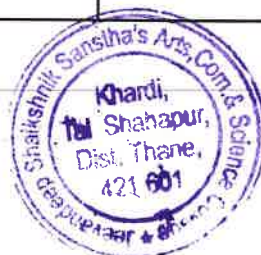
30	UnitII Fundamental Cloud security and industrial platforms and new developments	Fundamental cloud security	Group Discussion, Chart, Problem Solving	Youtube
31	UnitII Fundamental Cloud security and industrial platforms and new developments	Cloud security threats	Group Discussion, Chart, Problem Solving	
32	UnitII Fundamental Cloud security and industrial platforms and new developments	Practical	Group Discussion, Chart, Error Solving	
33	UnitII Fundamental Cloud security and industrial platforms and new developments	Amazon Web Administration(AWS)	Group Discussion, Chart, Problem Solving	Youtube
34	UnitII Fundamental Cloud security and industrial platforms and new developments	Google App Engine	Group Discussion, Chart, Problem Solving	
35	UnitII Fundamental Cloud security and industrial platforms and new developments	Microsoft Azure	Group Discussion, Chart, Problem Solving	
36				



37	Unit III Specialized Cloud Mechanism	Automated Scaling Listener	Group Discussion, Chart, Problem Solving	Youtube
38	Unit III Specialized Cloud Mechanism	Load Balancer 2)SLA Monitor 3)Pay-per-use Monitor	Group Discussion, Chart, Problem Solving	
39	Unit III Specialized Cloud Mechanism	Audit Monitor 2)Failover System	Group Discussion, Chart, Problem Solving	
40	Unit III Specialized Cloud Mechanism	Hypervisor	Group Discussion, Chart, Problem Solving	
41	Unit III Specialized Cloud Mechanism	Resource Cluster 2)Multi Device broker	Group Discussion, Chart, Problem Solving	Youtube
42	Unit III Specialized Cloud Mechanism	State Management Database	Group Discussion, Chart, Problem Solving	
43	Unit III Specialized Cloud Mechanism	Automated Scaling Listener	Group Discussion, Chart, Problem Solving	
44	Unit III Cloud management mechanisms and security mechanism	Introduction 2)Remote administration System	Group Discussion, Chart, Problem Solving	



45	Unit III Cloud management mechanisms and security mechanism	Resource Management System 2)SLA Management System 3)Billing Management System	Group Discussion, Chart, Problem Solving	Youtube
46	Unit III Cloud management mechanisms and security mechanism	Encryption 2)Hashing	Group Discussion, Chart, Problem Solving	
47	Unit III Cloud management mechanisms and security mechanism	Practical	Group Discussion, Error Solving	
48	Unit III Cloud management mechanisms and security mechanism	Digital Sugnature 2)Public key Infrastructure(PKI) 3)IAM	Group Discussion, Chart, Problem Solving	
49	Unit III Cloud management mechanisms and security mechanism	Single Sign On(SSO) 2)Cloud Base Security groups 3)Hardened virtual server image	Group Discussion, Chart, Problem Solving	Youtube
50				
51	Unit IV Fundamental Cloud Architectures	Workload Distribution Architecture 2)Resource Pooling Architecture	Group Discussion, Chart, Problem Solving	Youtube
52	Unit IV Fundamental Cloud Architectures	Dynamic Scalability Architecture	Group Discussion, Chart, Problem Solving	
53	Unit IV Fundamental Cloud Architectures	Elastics resource capacity architecture 2)Sevice load baancing architecture 3)Cloud Bursting Architecture	Group Discussion, Chart, Problem Solving	



54	Unit IV Fundamental Cloud Architectures	Elastic Disk provisioning architecture 2) redundant storage architecture	Group Discussion, Chart, Problem Solving	
55	Unit IV Advanced Cloud Architectures	Hypervisor Clustering Architecture 2) Load balancing virtual server instances architecture	Group Discussion, Chart, Problem Solving	Youtube
56	Unit IV Advanced Cloud Architectures	Non-disruptive service relocation architecture 2) Zero downtime architecture	Group Discussion, Chart, Problem Solving	
57	Unit IV Advanced Cloud Architectures	Practical	Group Discussion, Error Solving	
58	Unit IV Advanced Cloud Architectures	Cloud balancing architecture	Group Discussion, Chart, Problem Solving	
59	Unit IV Advanced Cloud Architectures	resources reservation architecture 2) Dynamic failure detection and recovery architecture 3) Bare-metal provisioning architecture	Group Discussion, Chart, Problem Solving	
60	Unit IV Advanced Cloud Architectures	Rapid provisioning architecture 2) Storage workload management architecture	Group Discussion, Chart, Problem Solving	Youtube
61	Unit IV Advanced Cloud Architectures	Glossary	Group Discussion, Chart, Problem Solving	
62				



63	Unit V Cloud Delivery Model Consideration	Cloud Delivery model: The Cloud Provider perspective	Group Discussion, Chart, Problem Solving	
64	Unit V Cloud Delivery Model Consideration	Cloud Delivery model: The Cloud Provider perspective	Group Discussion, Chart, Problem Solving	Youtube
65	Unit V Cloud Delivery Model Consideration	Cloud Delivery model: The Cloud Consumer perspective	Group Discussion, Chart, Problem Solving	
66	Unit V Cloud Delivery Model Consideration	Cloud Delivery model: The Cloud Consumer perspective	Group Discussion, Chart, Problem Solving	
67	Unit V Cloud Delivery Model Consideration	Practical	Group Discussion, Error Solving	
68	Unit V Cost metrics and pricing models and service quality metrics and slas	Business cost metrics	Group Discussion, Chart, Problem Solving	
69	Unit V Cost metrics and pricing models and service quality metrics and slas	Cloud usage cost metrics	Group Discussion, Chart, Problem Solving	Youtube
70	Unit V Cost metrics and pricing models and service quality metrics and slas	Cost management consideration	Group Discussion, Chart, Problem Solving	



71	Unit V Cost metrices and pricing models and service quality metrices and slas	Practical	Group Discussion, Error Solving	
72	Unit V Cost metrices and pricing models and service quality metrices and slas	Service level agreements(SLAS) 2)Service Quality metrices	Group Discussion, Chart, Problem Solving	
73	Unit V Cost metrices and pricing models and service quality metrices and slas	Service Quality metrices	Group Discussion, Chart, Problem Solving	
74	Unit V Cost metrices and pricing models and service quality metrices and slas	SLA guidelines	Group Discussion, Chart, Problem Solving	Youtube





Jeevandeep Shaikshnik Sanstha
Arts, Commerce and Science College, Khardi
Tal. Shahapur. Dist. Thane
(Affiliated to Mumbai University)
Teaching Plan for the Academic Year 2023-24
Term-II

NAME OF THE PROFESSOR: Asst.Prof.Mitali M. Chaudhary

DEPARTMENT: IT

CLASS: MSC IT PART 1

SEM: I

SUBJECT NAME: Soft Computing Techniques

PAPER :

Lecture No.	Unit Name	Topic	Teaching Method	ICT Tools Used
1	Unit I Introduction to Soft Computing	Computational Paradigm	Group Discussion, Problem Solving	YouTube
2	Unit I Introduction to Soft Computing	1)Introduction to Soft Computing 2)Guidelines of Soft Computing	Group Discussion, Problem Solving	
3	Unit I Introduction to Soft Computing	3)Uncertainty of AI 2)Application of Soft Computing	Group Discussion, Problem Solving	
4	Unit I Introduction to Soft Computing	Types of Soft Computing Techniques 1)Fuzzy Computing 2. Neural Network	Group Discussion, Problem Solving	
5	Unit I Introduction to Soft Computing	1)Genetic Algorithms	Group Discussion, Problem Solving	
6	Unit I Introduction to Soft Computing	1)Associative memory 2)Adaptive Resonance Theory	Group Discussion, Problem Solving	
7	Unit I Introduction to Soft Computing	Practical	Group Discussion, Error Solving	YouTube
8	Unit I Introduction to Soft Computing	Methods of Learning	Group Discussion, Problem Solving	
9	Unit I Introduction to Soft Computing	1)Types of ART Systems 2)Classification	Group Discussion, Problem Solving	



10	Unit I Introduction to Soft Computing	Clustering 2) Probabilistic Reasoning	Group Discussion, Problem Solving	YouTube
11	Unit I Introduction to Soft Computing	Practical	Group Discussion, Error Solving	
12	Unit I Introduction to Soft Computing	1) Bayesian Networks	Group Discussion, Problem Solving	YouTube
13				
14	Unit II Introduction to Artificial neural network & supervised learning network I	Introduction to Artificial Neural Network	Group Discussion, Problem Solving	YouTube
15	Unit II Introduction to Artificial neural network & supervised learning network I	Characteristics of Artificial Neural Networks	Group Discussion, Problem Solving	
16	Unit II Introduction to Artificial neural network & supervised learning network I	Basic Models of Artificial Neural Network	Group Discussion, Problem Solving	YouTube
17	Unit II Introduction to Artificial neural network & supervised learning network I	Learning	Group Discussion, Problem Solving	



18	Unit II Introduction to Artificial neural network & supervised learning network I	Practical		YouTube
19	Unit II Introduction to Artificial neural network & supervised learning network I	Terminologies of ANN	Group Discussion, Problem Solving	
20	Unit II Introduction to Artificial neural network & supervised learning network I	McCulloch- Pitts Neuron (MP neuron model) 2) Concept of Linear Separability	Group Discussion, Problem Solving	YouTube
21	Unit II Introduction to Artificial neural network & supervised learning network I	Hebb Network 2) Perceptron Networks 3) Adaptive Linear Neuron (ADALINE)	Group Discussion, Error Solving	
22	Unit II Introduction to Artificial neural network & supervised learning network I	Training Algorithm 2) Testing Algorithm 3) 9 Multiple Adaptive Linear Neurons (Madaline)	Group Discussion, Problem Solving	
23	Unit II Introduction to Artificial neural network & supervised learning network I	Backpropagation networks 2) Radial Basis Function network 3) Time Delay Neural Networks	Group Discussion, Problem Solving	YouTube



24	Unit II Introduction to Artificial neural network & supervised learning network I	Functional Link networks 2) Tree Neural Network 3) Wavelet Neural Networks 4) Associative Memory Networks-Overview	Group Discussion, Problem Solving	
25	Unit II Introduction to Artificial neural network & supervised learning network I	Heteroassociative memory network 2) Bidirectional Associative Memory (BAM) 3) Hopfield Networks	Group Discussion, Problem Solving	YouTube
26				
27	Unit III Unsupervised Learning	1) Introduction	Group Discussion, Problem Solving	YouTube
28	Unit III Unsupervised Learning	Fixed Weight Competitive Nets 2) Mexican Hat Net	Group Discussion, Error Solving	
29	Unit III Unsupervised Learning	Architecture of Mexican Hat Net 2) Flowchart of Mexican Hat Net 3) Algorithm of Mexican Hat Net	Group Discussion, Problem Solving	YouTube
30	Unit III Unsupervised Learning	Hamming Network 2) Architecture of Hamming Network	Group Discussion, Error Solving	
31	Unit III Unsupervised Learning	Testing Algorithm of Hamming Network 2) Kohonen Self-Organizing Feature Maps	Group Discussion, Problem Solving	
32	Unit III Unsupervised Learning	Architecture of Kohonen Self-Organizing Feature Maps 2) Flowchart of Kohonen Self-Organizing Feature Maps 3) Training Algorithm of Kohonen Self-Organizing Feature Maps	Group Discussion, problem Solving	YouTube
33	Unit III Unsupervised Learning	Training Algorithm of LVQ 2) Counter propagation Networks 3) Full Counter propagation Net	Group Discussion, Problem Solving	



34	Unit III Unsupervised Learning	Adaptive Resonance Theory Network 2) Fundamental architecture of ART	Group Discussion, Problem Solving	YouTube
35	Unit III Unsupervised Learning	Adaptive Resonance Theory 2 (ART2) 2) Fundamental architecture of ART2	Group Discussion, Problem Solving	
36	Unit III Unsupervised Learning	Training Algorithm of ART2 2) Simulated Annealing Network	Group Discussion, Problem Solving	
37	Unit III Unsupervised Learning	Boltzmann Machine 2) Gaussian Machine 3) Cauchy Machine	Group Discussion, Error Solving	
38	Unit III Unsupervised Learning	Probabilistic Neural Net 2) Cascade Correlation Network:	Group Discussion, Problem Solving	YouTube
39	Unit III Unsupervised Learning	Cognitron Network 2) Neocognitron Network 3) Cellular Neural Network 4) Optical Neural Networks	Group Discussion, Problem Solving	
40	Unit III Unsupervised Learning	Architecture of SNN Model	Group Discussion, Problem Solving	YouTube
41	Unit III Unsupervised Learning	Designing the Layers in CNN Model	Group Discussion, Problem Solving	
42				
43	Unit IV Introduction to fuzzy logic and fuzzy	Introduction to Fuzzy Logic	Group Discussion, Problem Solving	YouTube
44	Unit IV Introduction to fuzzy logic and fuzzy	Classical Sets (Crisp Sets) 2) Fuzzy Sets 3) Classical Sets v/s Fuzzy Sets	Group Discussion, Problem Solving	
45	Unit IV Introduction to fuzzy logic and fuzzy	Properties 2) Functional Mapping of Classical Sets	Group Discussion, Problem Solving	
46	Unit IV Introduction to fuzzy logic and fuzzy	Functional Mapping of Classical Sets 2) Cartesian Product of the Relation	Group Discussion, Problem Solving	
47	Unit IV Introduction to fuzzy logic and fuzzy	Classical Composition and Fuzzy Composition 2) Non-Interactive Fuzzy Set	Group Discussion, Error Solving	YouTube



48	Unit IV Introduction to fuzzy logic and fuzzy	Features of the Membership Function	Group Discussion, Problem Solving	
49	Unit IV Introduction to fuzzy logic and fuzzy	Overview of Fuzzification 2) Methods of Membership Value Assignment	Group Discussion, Problem Solving	
50	Unit IV Introduction to fuzzy logic and fuzzy	Neural Network 2) Genetic Algorithm	Group Discussion, Problem Solving	
51	Unit IV Introduction to fuzzy logic and fuzzy	Overview of Defuzzification 2) Concept of Lambda-Cuts for Fuzzy Sets (Alpha-Cuts)	Group Discussion, Problem Solving	
52	Unit IV Introduction to fuzzy logic and fuzzy	Practical	Group Discussion, Error Solving	YouTube
53	Unit IV Introduction to fuzzy logic and fuzzy	Methods of Defuzzification	Group Discussion, Problem Solving	
54	Unit IV Introduction to fuzzy logic and fuzzy	Overview of Fuzzy Arithmetic 2) Interval Analysis of Uncertain Values 3) Mathematical operations on Intervals	Group Discussion, Problem Solving	
55	Unit IV Introduction to fuzzy logic and fuzzy	1) Parametric Cubic Curves 2) Quadratic Surface 3) Bezier Surface	Group Discussion, Problem Solving	
56	Unit IV Introduction to fuzzy logic and fuzzy	Fuzzy Number 2) Fuzzy Ordering 3) Fuzzy Vectors	Group Discussion, Problem Solving	
57	Unit IV Introduction to fuzzy logic and fuzzy	Probability Measures 2) Possibility & Necessity Measures 3) Fuzzy Integrals	Group Discussion, Problem Solving	YouTube
58				
59	Unit V Genetic Algorithm	What are Genetic Algorithms? 2) Why Genetic Algorithms? 3) Biological Background	Group Discussion, Problem Solving	YouTube
60	Unit V Genetic Algorithm	The Cell 2) Genetics 3) Reproduction 4) Natural Selection	Group Discussion, Problem Solving	
61	Unit V Genetic Algorithm	Traditional Optimization and Search Techniques 2) Random Search	Group Discussion, Problem Solving	YouTube



62	Unit V Genetic Algorithm	Stochastic Hill Climbing 2) Simulated Annealing	Group Discussion, Error Solving	
63	Unit V Genetic Algorithm	Symbolic Artificial Intelligence 2) Genetic Algorithm and Search Space	Group Discussion, Problem Solving	
64	Unit V Genetic Algorithm	Evolution and Optimization 2) Evolution and Genetic Algorithms	Group Discussion, Problem Solving	Youtube
65	Unit V Genetic Algorithm	Genetic Algorithm vs. Traditional Algorithms	Group Discussion, Problem Solving	
66	Unit V Genetic Algorithm	Basic Terminologies in Genetic Algorithm	Group Discussion, Problem Solving	
67	Unit V Genetic Algorithm	Simple GA	Group Discussion, Problem Solving	YouTube
68	Unit V Genetic Algorithm	General Genetic Algorithm	Group Discussion, Problem Solving	
69	Unit V Genetic Algorithm	Operators in Genetic Algorithm	Group Discussion, Problem Solving	
70	Unit V Genetic Algorithm	Mutation 2) Flipping 3) Interchanging	Group Discussion, Problem Solving	
71	Unit V Genetic Algorithm	Stopping Condition for Genetic Algorithm Flow 2) Constraints in Genetic Algorithm	Group Discussion, Problem Solving	
72	Unit V Genetic Algorithm	Problem Solving Using Genetic Algorithm	Group Discussion, Problem Solving	
73	Unit V Genetic Algorithm	Practical	Group Discussion, Error Solving	YouTube
74	Unit V Genetic Algorithm	Independent Sampling Genetic Algorithm (ISGA)	Group Discussion, Problem Solving	
75	Unit V Genetic Algorithm	Holland Classifier System	Group Discussion, Problem Solving	
76	Unit V Genetic Algorithm	Genetic Programming	Group Discussion, Problem Solving	
77	Unit V Genetic Algorithm	Machine Intelligence	Group Discussion, Problem Solving	



78	Unit V Genetic Algorithm	Genetic Learning of Rule Bases	Group Discussion, Problem Solving	YouTube
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Jeevandeep Shaikshnik Sanstha
Commerce and Science College, Khardi
Tal. Shahapur. Dist. Thane
(Affiliated to Mumbai University)
Syllabus Plan for the Academic Year 2023-24
Term-II

NAME OF THE PROFESSOR: Asst.Prof.Mitali M. Chaudhary

DEPARTMENT: IT

CLASS: MSC IT PART 1

SEM: I

SUBJECT NAME: Research In Computing

PAPER: _____

Lecture No.	Unit Name	Topic	Teaching Method	ICT Tools Used
1	Unit I Role of Business Research	The Nature of Business Research	Group Discussion, Problem Solving	youtube
2	Unit I Role of Business Research	The Nature of Business Research	Group Discussion, Problem Solving	
3	Unit I Role of Business Research	Managerial Value of Business Research	Group Discussion, Problem Solving	
4	Unit I Role of Business Research	Managerial Value of Business Research	Group Discussion, Problem Solving	
5	Unit I Role of Business Research	When is Business Research Needed?	Group Discussion, Problem Solving	
6	Unit I Role of Business Research	When is Business Research Needed?	Group Discussion, Problem Solving	
7	Unit I Role of Business Research	Business Research in the Twenty-First Century	Group Discussion, Problem Solving	youtube
8	Unit I Role of Business Research	Business Research in the Twenty-First Century	Group Discussion, Problem Solving	



	Unit I Role of Business Research	Practical	Group Discussio, Error Solving	youtube
9	Unit I Role of Business Research	Information Systems and Knowledge Management	Group Discussion, Problem Solving	
10	Unit I Role of Business Research	Information Systems and Knowledge Management	Group Discussion, Problem Solving	
1	Unit II Problem Definition	1)Theory Building 2)Organization Ethics and Issues	Group Discussion, Problem Solving	youtube
2	Unit II Problem Definition	1)Importance of Starting with a Good Problem Definition 2)Problem Complexity	Group Discussion, Problem Solving	
3	Unit II Problem Definition	1)The Problem- DefinitionProcess 2)The Problem-Definition Process Steps	Group Discussion, Problem Solving	
	Unit II Problem Definition	Practical	Group Discussion, Error Solving	
4	Unit II Problem Definition	1)Clarity in Research Questions and Hypotheses 2)The ResearchProposal 3)Anticipating Outcomes	Group Discussion, Problem Solving	
5	Unit II Qualitative Reaserch Tools	Qualitative research	Group Discussion, Problem Solving	youtube
6	Unit II Qualitative Reaserch Tools	Qualitative research	Group Discussion, Problem Solving	
7	Unit II Qualitative Reaserch Tools	Ethnography	Group Discussion, Problem Solving	



8	Unit II Qualitative Research Tools	Grounded Theory Case Studies	Group Discussion, Problem Solving	
9	Unit II Qualitative Research Tools	Common Techniques Used in Qualitative Research	Group Discussion, Problem Solving	
10	Unit II Qualitative Research Tools	Focus Group Illustration	Group Discussion, Problem Solving	youtube
11	Unit II Qualitative Research Tools	Focus Groups As Diagnostic Tools Video Conferencing And Focus Groups	Group Discussion, Problem Solving	
12	Unit II Qualitative Research Tools	Interactive Media and Online Focus Groups	Group Discussion, Problem Solving	
13	Unit II Qualitative Research Tools	Projective Research Techniques	Group Discussion, Problem Solving	
14	Unit II Qualitative Research Tools	Exploratory Research in Science and in Practice	Group Discussion, Problem Solving	youtube
15	Unit II Qualitative Research Tools	Scientific Decision Processes	Group Discussion, Problem Solving	
1	Unit III Observation methods and experimental research	Observation in Business Research 2) The Nature of Observation Studies 3) Direct Observation	Group Discussion, Problem Solving	youtube
2	Unit III Observation methods and experimental research	Content Analysis 2) Mechanical Observation	Group Discussion, Problem Solving	



3	Unit III Observation methods and experimental research	Experimental Research2)Manipulation of the Independent Variable	Group Discussion, Problem Solving	
4	Unit III Observation methods and experimental research	3)Selection and Assignment of Test Units	Group Discussion, Problem Solving	
5	Unit III Observation methods and experimental research	Demand Characteristics	Group Discussion, Problem Solving	youtube
6	Unit III Observation methods and experimental research	Establishing Control2)4 Practical Experimental Design Issues	Group Discussion, Problem Solving	
7	Unit III Observation methods and experimental research	Classification of Experimental Designs	Group Discussion, Problem Solving	youtube
8	Unit III Survey Research	Surveys Research	Group Discussion, Problem Solving	
9	Unit III Survey Research	Types of Response Bias	Group Discussion, Problem Solving	
10	Unit III Survey Research	Classifying Survey Research Methods	Group Discussion, Problem Solving	
11	Unit III Survey Research	Personal Interviews	Group Discussion, Problem Solving	youtube
12	Unit III Survey Research	Door-to-Door Interviews and Shopping Mall Intercepts	Group Discussion, Problem Solving	



13	Unit III Survey Research	Telephone Interviews	Group Discussion, Problem Solving	
14	Unit III Survey Research	Self-Administered Questionnaires	Group Discussion, Problem Solving	
15	Unit III Survey Research	Self-Administered Questionnaires Using Other Forms of Distribution	Group Discussion, Problem Solving	youtube
1	Unit IV Measurement concepts,sampling and field work	Levels of Measurement	Group Discussion, Problem Solving	
2	Unit IV Measurement concepts,sampling and field work	Analysis of Scales	Group Discussion, Problem Solving	youtube
3	Unit IV Measurement concepts,sampling and field work	Index measures	Group Discussion, Problem Solving	
4	Unit IV Measurement concepts,sampling and field work	Criteria for Good Measurement	Group Discussion, Problem Solving	youtube
5	Unit IV Measurement concepts,sampling and field work	1)Validity	Group Discussion, Problem Solving	
6	Unit IV Measurement concepts,sampling and field work	1)Sensitivity	Group Discussion, Problem Solving	youtube
7	Unit IV Measurement concepts,sampling and field work	Attitude Rating Scale	Group Discussion, Problem Solving	
8	Unit IV Measurement concepts,sampling and field work	Questionnaire Design	Group Discussion, Problem Solving	youtube



9	Unit IV Measurement concepts,sampling and field work	Questionnaire Design	Group Discussion, Problem Solving	
10	Unit IV Measurement concepts,sampling and field work	Sampling Terminologies	Group Discussion, Problem Solving	youtube
11	Unit IV Measurement concepts,sampling and field work	Purpose of Sampling	Group Discussion, Problem Solving	youtube
12	Unit IV Measurement concepts,sampling and field work	1)Stages of Sampling Process	Group Discussion, Problem Solving	
13	Unit IV Measurement concepts,sampling and field work	Techniques of Sampling	Group Discussion, Problem Solving	youtube
14	Unit IV Measurement concepts,sampling and field work	Techniques of Sampling	Group Discussion, Problem Solving	
15	Unit IV Measurement concepts,sampling and field work	Stage 1	Group Discussion, Problem Solving	
16	Unit IV Measurement concepts,sampling and field work	Stage 2	Group Discussion, Problem Solving	youtube
17	Unit IV Measurement concepts,sampling and field work	Advantages and disadvantages	Group Discussion, Problem Solving	
18	Unit IV Measurement concepts,sampling and field work	Some more types of Non- Probability Sampling Techniques	Group Discussion, Problem Solving	
19	Unit IV Measurement concepts,sampling and field work	Some more types of Non- Probability Sampling Techniques	Group Discussion, Problem Solving	youtube
1	Unit V Data Analysis and Presentation	Stages of Data Analysis	Group Discussion, Problem Solving	youtube



2	Unit V Data Analysis and Presentation	Code Construction	Group Discussion, Problem Solving	
3	Unit V Data Analysis and Presentation	Precoding Fixed- Alternative Questions2)Editing and Coding Combined3)Computerized Survey Data Processing4)Error Checking	Group Discussion, Problem Solving	
4	Unit V Basic Data Analysis	The Nature of Descriptive Analysis 2)Tabulation	Group Discussion, Problem Solving	
5	Unit V Basic Data Analysis	Elaboration and Refinement 2)Quadrant Analysis	Group Discussion, Problem Solving	youtube
6	Unit V Basic Data Analysis	Data Transformation	Group Discussion, Problem Solving	
7	Unit V Basic Data Analysis	Calculating Rank Order 2)Tabular and Graphic Method of Displaying Data 3)Computer Programs for Analysis	Group Discussion, Problem Solving	
8	Unit V Basic Data Analysis	SPSS Statistics 2) SAS/STAT 3)Computer Graphics and Computer Mapping	Group Discussion, Problem Solving	youtube
9	Unit V Basic Data Analysis	Interpretation	Group Discussion, Problem Solving	
10	Unit V Univariate Statistical Analysis	Hypothesis Testing	Group Discussion, Problem Solving	
11	Unit V Univariate Statistical Analysis	Choosing the Appropriate Statistical Technique	Group Discussion, Problem Solving	youtube



12	Unit V Univariate Statistical Analysis	The t-Distribution 2)The Chi-Square Test for Goodness of Fit 3)Hypothesis Test of a Proportion .	Group Discussion, Problem Solving	
13	Unit V Bivariate Statistical Analysis	What is the appropriate Test of Difference? 2)Cross Tabulation Tables	Group Discussion, Problem Solving	
14	Unit V Bivariate Statistical Analysis	The T-Test for Comparing Two Means 2)Analysis Of Variance (ANOVA)	Group Discussion, Problem Solving	youtube
15	Unit V Multivariate Statistical Analysis	The "Variate" in Multivariate 2)Classifying Multivariate Techniques 3)Analysis of Dependence	Group Discussion, Problem Solving	
16	Unit V Bivariate Statistical Analysis	ANOVA (n-Way) and MANOVA	Group Discussion, Problem Solving	
17	Unit V Bivariate Statistical Analysis	Analysis of Interdependence	Group Discussion, Problem Solving	
18	Unit V Bivariate Statistical Analysis	Cluster Analysis 2)Multidimensional Scaling	Group Discussion, Problem Solving	youtube





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Teaching Plan for the Academic Year 2023-24

Term-II

NAME OF THE PROFESSOR : Asst. Prof. Vishal S. Bhosale

DEPARTMENT : Geography

CLASS : SYBA

SUBJECT NAME : Geography of India

SEM : III

PAPER : IV

Lecture No.	Unit Name / No.	Topic	Teaching Method	ICT Tools Used
1	Unit : 01 - India : Location, Physiography and Climate	Location and origin of Indian subcontinent	Lecture, Group Discussion & Question answer	PPT
2	Unit : 01 - India : Location, Physiography and Climate	Location and origin of Indian subcontinent	Lecture	PPT & Google Earth
3	Unit : 01 - India : Location, Physiography and Climate	Physiographic divisions of India	Lecture & Group Discussion	PPT & Videos
4	Unit : 01 - India : Location, Physiography and Climate	Physiographic divisions of India	Lecture & Group Discussion	PPT & Videos
5	Unit : 01 - India : Location, Physiography and Climate	Major River-basins of India	Lecture & Question answer	PPT & Videos / Documentry
6	Unit : 01 - India : Location, Physiography and Climate	Major River-basins of India	Lecture & Question answer	PPT & Videos / Documentry



7	Unit : 01 - India : Location, Physiography and Climate	Climate of India : Seasons and Origin	Lecture, Group Discussion & Question answer	PPT
8	Unit : 01 - India : Location, Physiography and Climate	Climate of India : Seasons and Origin	Lecture, Group Discussion & Question answer	PPT
9	Unit : 01 - India : Location, Physiography and Climate	Pattern of Monsoon distribution	Lecture, Group Discussion	PPT & Videos / Documentry
10	Unit : 02 - India : Soils, Vegetation and Minerals	Soils : types and regional distribution	Lecture & Group Discussion	PPT
11	Unit : 02 - India : Soils, Vegetation and Minerals	Soils : types and regional distribution	Lecture & Group Discussion	PPT
12	Unit : 02 - India : Soils, Vegetation and Minerals	Forest : types & regional distribution	Lecture, Group Discussion & Question answer	PPT & Videos / Documentry
13	Unit : 02 - India : Soils, Vegetation and Minerals	Forest : types & regional distribution	Lecture, Group Discussion & Question answer	PPT & Videos / Documentry
14	Unit : 02 - India : Soils, Vegetation and Minerals	Minerals : types and distribution	Lecture	PPT
15	Unit : 02 - India : Soils, Vegetation and Minerals	Minerals : types and distribution	Lecture	PPT
16	Unit : 02 - India : Soils, Vegetation and Minerals	Issues related with soil	Lecture, Group Discussion & Question answer	PPT



17	Unit : 02 - India : Soils, Vegetation and Minerals	Issues related with forest & mineral	Lecture, Group Discussion & Question answer	PPT
18	Unit : 02 - India : Soils, Vegetation and Minerals	Conservation and management of soil	Lecture, Group Discussion & Question answer	PPT
19	Unit : 02 - India : Soils, Vegetation and Minerals	forest and mineral resources	Lecture, Group Discussion & Question answer	PPT
21	Unit : 03 - India : Agriculture, Livestock and Fishery resources	Importance and characteristics of Indian agriculture	Group Discussion & Question answer	PPT
22	Unit : 03 - India : Agriculture, Livestock and Fishery resources	Agriculture types and distribution of major crops	Group Discussion & Question answer	PPT & Videos / Documentary
23	Unit : 03 - India : Agriculture, Livestock and Fishery resources	Agriculture related issues	Lecture & Group Discussion	PPT
24	Unit : 03 - India : Agriculture, Livestock and Fishery resources	Agriculture related policies and programmes	Lecture & Group Discussion	PPT
25	Unit : 03 - India : Agriculture, Livestock and Fishery resources	Livestock resources : types and distribution	Lecture & Group Discussion	PPT
26	Unit : 03 - India : Agriculture, Livestock and Fishery resources	White revolution	Lecture & Group Discussion	PPT
27	Unit : 03 - India : Agriculture, Livestock and Fishery resources	Livestock resources related issues- policies and programmes	Lecture, Group Discussion & Question answer	PPT



28	Unit : 03 - India : Agriculture, Livestock and Fishery resources	Fisheries : types and production	Lecture & Group Discussion	PPT
29	Unit : 03 - India : Agriculture, Livestock and Fishery resources	Blue revolution	Lecture & Group Discussion	PPT
30	Unit : 03 - India : Agriculture, Livestock and Fishery resources	Fisheries : related issues-policies and programmes	Lecture & Group Discussion	PPT
31	Unit : 04 - India : Energy resources, Industries, Transport and Trade	Energy resources : types and distribution	Lecture, Group Discussion & Question answer	PPT
32	Unit : 04 - India : Energy resources, Industries, Transport and Trade	Energy resources : related issues- policies and programmes	Lecture & Question answer	PPT
33	Unit : 04 - India : Energy resources, Industries, Transport and Trade	Industries : types, location of major industrial regions	Lecture	PPT
34	Unit : 04 - India : Energy resources, Industries, Transport and Trade	Industries : related issues and solutions	Lecture & Question answer	PPT
35	Unit : 04 - India : Energy resources, Industries, Transport and Trade	Transport and communication network : types and spatial distribution	Lecture, Group Discussion & Question answer	PPT
36	Unit : 04 - India : Energy resources, Industries, Transport and Trade	Transport and communication network : related issues and solutions	Lecture, Group Discussion & Question answer	PPT & Videos / Documentry
37	Unit : 04 - India : Energy resources, Industries, Transport and Trade	Define trade : types of trade	Lecture	PPT



38	Unit : 04 - India : Energy resources, Industries, Transport and Trade	Trade : Domestic and international trade	Lecture & Group Discussion	PPT & Videos / Documentry
39	Unit : 04 - India : Energy resources, Industries, Transport and Trade	Trade : Domestic and international trade	Lecture & Group Discussion	PPT & Videos / Documentry
40	Unit : 05 - Practical	Map Filling of important Geographical features on outline map of Maharashtra	Lecture & Group Discussion & Practical	
41	Unit : 05 - Practical	Construction of Map - <u>Choropleth Map</u>	Lecture and Practical	
42	Unit : 05 - Practical	Construction of Map - <u>Isopleth Map</u>	Lecture and Practical	
43	Unit : 05 - Practical	Construction of Map - <u>Choropleth Map</u>	Lecture and Practical	
44	Unit : 05 - Practical	Construction of Map - <u>Dot Map</u>	Lecture and Practical	
45	Unit : 05 - Practical	Construction of Map - <u>Pictogram Map</u> & <u>Flow Map</u>	Lecture and Practical	



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Teaching Plan for the Academic Year 2023-24

Term-I

NAME OF THE PROFESSOR : Asst. Prof. Vishal S. Bhosale

DEPARTMENT : Geography

CLASS : TYBA

SUBJECT NAME : INTRODUCTION TO GEOMORPHOLOGY

SEM : V

PAPER : IV

Lecture No.	Unit Name / No.	Topic	Teaching Method	ICT Tools Used
1	Unit : 01 - Introduction to Geomorphology	Introduction to Geomorphology	Lecture & Group Discussion	PPT
2	Unit : 01 - Introduction to Geomorphology	Definition, Nature and Scope Of Geomorphology	Lecture	PPT
3	Unit : 01 - Introduction to Geomorphology	Earth : Interior Structure	Lecture & Group Discussion	PPT & Videos / Documentry
4	Unit : 01 - Introduction to Geomorphology	Earth : Interior Structure	Lecture & Group Discussion	PPT & Videos / Documentry
5	Unit : 01 - Introduction to Geomorphology	Earth : Composition	Lecture & Group Discussion	PPT
6	Unit : 01 - Introduction to Geomorphology	Earth : Composition	Lecture & Question answer	PPT
7	Unit : 01 - Introduction to Geomorphology	Wegner's Continental Drift Theory : Concept	Lecture & Group Discussion	PPT & Videos / Documentry
8	Unit : 01 - Introduction to Geomorphology	Wegner's Continental Drift Theory	Lecture	PPT & Videos / Documentry



9	Unit : 01 - Introduction to Geomorphology	Wegner's Continental Drift Theory and Related Evidence	Lecture	PPT & Videos / Documentry
10	Unit : 01 - Introduction to Geomorphology	Wegner's Continental Drift Theory : Importance and objections	Lecture & Group Discussion	PPT
11	Unit : 01 - Introduction to Geomorphology	Plate Tectonic Theory	Lecture & Group Discussion	PPT & Videos / Documentry
12	Unit : 01 - Introduction to Geomorphology	Plate Tectonic Theory	Lecture & Group Discussion	PPT & Videos / Documentry
13	Unit : 02 - : Earth movements	Endogenic forces : Concept & Meaning	Lecture	PPT
14	Unit : 02 - : Earth movements	Endogenic forces : process and impact	Lecture	PPT
15	Unit : 02 - : Earth movements	Concept of folds and faults	Lecture	PPT
16	Unit : 02 - : Earth movements	Types of folds	Lecture	PPT & Videos / Documentry
17	Unit : 02 - : Earth movements	Types of faults	Lecture	PPT & Videos / Documentry
18	Unit : 02 - : Earth movements	Earthquake : Concept, Causes and effects	Lecture, Group Discussion & Question answer	PPT & Videos / Documentry
19	Unit : 02 - : Earth movements	Earthquake : Distribution	Lecture & Question answer	PPT



20	Unit : 02 - : Earth movements	Earthquakes in India	Lecture & Question answer	PPT
21	Unit : 02 - : Earth movements	Earthquakes in India	Lecture & Question answer	PPT
22	Unit : 02 - : Earth movements	volcanoes : Concept, Causes and effects	Lecture, Group Discussion & Question answer	PPT & Videos / Documentry
23	Unit : 02 - : Earth movements	volcanoes : Distribution	Lecture & Question answer	PPT
24	Unit : 03 - Weathering and Mass Movement	Weathering - Meaning and Concept	Lecture	PPT
25	Unit : 03 - Weathering and Mass Movement	Controlling factors of weathering	Lecture & Group Discussion	PPT
26	Unit : 03 - Weathering and Mass Movement	Controlling factors of weathering	Lecture & Group Discussion	PPT
27	Unit : 03 - Weathering and Mass Movement	Types of Weathering - <u>Physical</u>	Lecture, Group Discussion & Question answer	PPT
28	Unit : 03 - Weathering and Mass Movement	Types of Weathering - <u>Physical</u>	Lecture, Group Discussion & Question answer	PPT
29	Unit : 03 - Weathering and Mass Movement	Types of Weathering - <u>Chemical</u>	Lecture, Group Discussion & Question answer	PPT
30	Unit : 03 - Weathering and Mass Movement	Types of Weathering - <u>Biological</u>	Lecture, Group Discussion & Question answer	PPT



31	Unit : 03 - Weathering and Mass Movement	Mass Movement : Concept & Meaning	Lecture & Question answer	PPT
32	Unit : 03 - Weathering and Mass Movement	factors of Mass Movement	Lecture	PPT
33	Unit : 03 - Weathering and Mass Movement	factors of Mass Movement	Lecture	PPT
34	Unit : 03 - Weathering and Mass Movement	Classification of Mass Movement	Lecture	PPT
35	Unit : 03 - Weathering and Mass Movement	Classification of Mass Movement	Lecture	PPT
36	Unit : 04 - Rocks and Minerals	Definition of rocks and minerals	Lecture & Question answer	PPT
37	Unit : 04 - Rocks and Minerals	Difference between rocks and minerals	Lecture & Question answer	PPT & Videos / Documentry
38	Unit : 04 - Rocks and Minerals	Composition of rocks	Lecture & Group Discussion	PPT
39	Unit : 04 - Rocks and Minerals	Composition of minerals	Lecture & Group Discussion	PPT
40	Unit : 04 - Rocks and Minerals	Rock types	Lecture & Question answer	PPT
41	Unit : 04 - Rocks and Minerals	Igneous rocks : characteristics and classification	Lecture & Group Discussion	PPT



42	Unit : 04 - Rocks and Minerals	Igneous rocks : characteristics and classification	Lecture & Group Discussion	PPT
43	Unit : 04 - Rocks and Minerals	Sedimentary rocks : characteristics and classification	Lecture & Group Discussion	PPT
44	Unit : 04 - Rocks and Minerals	Sedimentary rocks : characteristics and classification	Lecture & Group Discussion	PPT
45	Unit : 04 - Rocks and Minerals	Metamorphic rocks : characteristics and classification	Lecture & Group Discussion	PPT & Videos / Documentary
46	Unit : 04 - Rocks and Minerals	Metamorphic rocks : characteristics and classification	Lecture & Group Discussion	PPT
47	Unit : 05 - Evolution of Landforms (Erosional and Depositional)	Evolution of Landforms : Concept	Lecture, Group Discussion & Question answer	PPT
48	Unit : 05 - Evolution of Landforms (Erosional and Depositional)	Erosional features of River (Fluvial)	Lecture & Group Discussion	PPT & Videos
49	Unit : 05 - Evolution of Landforms (Erosional and Depositional) .	Erosional features of River (Fluvial)	Lecture & Question answer	PPT & Videos
50	Unit : 05 - Evolution of Landforms (Erosional and Depositional)	Erosional features of River (Fluvial)	Lecture & Question answer	PPT & Videos
51	Unit : 05 - Evolution of Landforms (Erosional and Depositional)	Depositional features of River (Fluvial)	Lecture & Question answer	PPT & Videos
52	Unit : 05 - Evolution of Landforms (Erosional and Depositional)	Depositional features of River (Fluvial)	Lecture & Question answer	PPT & Videos



53	Unit : 05 - Evolution of Landforms (Erosional and Depositional)	Erosional features of wind (Aeolian)	Lecture & Group Discussion	PPT & Videos
54	Unit : 05 - Evolution of Landforms (Erosional and Depositional)	Depositional features of wind (Aeolian)	Lecture & Group Discussion	PPT
55	Unit : 05 - Evolution of Landforms (Erosional and Depositional)	Erosional features of glacier (Glacial)	Lecture & Group Discussion	PPT & Videos
56	Unit : 05 - Evolution of Landforms (Erosional and Depositional)	Depositional features of glacier (Glacial)	Lecture & Group Discussion	PPT & Videos
57	Unit : 05 - Evolution of Landforms (Erosional and Depositional)	Erosional features of sea waves (Coastal)	Lecture & Group Discussion	PPT & Videos
58	Unit : 05 - Evolution of Landforms (Erosional and Depositional)	Depositional features of sea waves (Coastal)	Lecture & Group Discussion	PPT & Videos



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Teaching Plan for the Academic Year 2023-24

Term-II

NAME OF THE PROFESSOR : Asst. Prof. Vishal S. Bhosale

DEPARTMENT : Geography

CLASS : TYBA

SUBJECT NAME : Introduction to Climatology and Oceanography

SEM : VI

PAPER : IV

Lecture No.	Unit Name / No.	Topic	Teaching Method	ICT Tools Used
1	Unit : 01 - Introduction to Climatology	Introduction of Climatology	Lecture & Question answer	PPT
2	Unit : 01 - Introduction to Climatology	Concept and elements of Weather	Lecture, Group Discussion & Question answer	PPT
3	Unit : 01 - Introduction to Climatology	Concept and elements of Climate	Lecture, Group Discussion & Question answer	PPT
4	Unit : 01 - Introduction to Climatology	Evolution of atmosphere	Lecture	PPT
5	Unit : 01 - Introduction to Climatology	Composition of atmosphere	Lecture & Question answer	PPT & Videos / Documentry
6	Unit : 01 - Introduction to Climatology	Structure of atmosphere	Lecture & Question answer	PPT & Videos / Documentry
7	Unit : 01 - Introduction to Climatology	Concept of Insolation and its Characteristic	Lecture, Group Discussion & Question answer	PPT
8	Unit : 01 - Introduction to Climatology	Heat budget of the earth : Concept and importance	Lecture	PPT



9	Unit : 01 - Introduction to Climatology	Heat budget of the earth : Concept and importance	Lecture	PPT
10	Unit : 01 - Introduction to Climatology	Factors Affecting on Temperature	Lecture & Question answer	PPT
11	Unit : 01 - Introduction to Climatology	Vertical distribution of Temperature	Lecture	PPT
12	Unit : 01 - Introduction to Climatology	Horizontal distribution of Temperature	Lecture	PPT
13	Unit : 02 - Air Pressure, Atmospheric Circulation, Precipitation	Measurement of air pressure	Lecture	PPT
14	Unit : 02 - Air Pressure, Atmospheric Circulation, Precipitation	Distribution of pressure belts	Lecture	PPT
15	Unit : 02 - Air Pressure, Atmospheric Circulation, Precipitation	Distribution of pressure belts	Lecture	PPT
16	Unit : 02 - Air Pressure, Atmospheric Circulation, Precipitation	Concept and Characteristic of Winds	Lecture, Group Discussion & Question answer	PPT
17	Unit : 02 - Air Pressure, Atmospheric Circulation, Precipitation	Types of Winds : <u>Global Winds</u>	Lecture	PPT
18	Unit : 02 - Air Pressure, Atmospheric Circulation, Precipitation	Types of Winds : <u>Regional Winds</u>	Lecture	PPT



19	Unit : 02 - Air Pressure, Atmospheric Circulation, Precipitation	Types of Winds : <u>local Winds</u>	Lecture	PPT
20	Unit : 02 - Air Pressure, Atmospheric Circulation, Precipitation	Upper air circulation - Jet stream	Lecture	PPT
21	Unit : 02 - Air Pressure, Atmospheric Circulation, Precipitation	Concept and Meaning of Condensation and Precipitation	Lecture, Group Discussion & Question answer	PPT
22	Unit : 02 - Air Pressure, Atmospheric Circulation, Precipitation	process and Characteristic of Condensation	Lecture, Group Discussion & Question answer	PPT
23	Unit : 02 - Air Pressure, Atmospheric Circulation, Precipitation	process and Characteristic of Precipitation	Lecture, Group Discussion & Question answer	PPT
24	Unit : 03 - Special Weather Phenomena	Cyclone : types and origin (Tropical and Subtropical)	Lecture	PPT & Videos / Documentry
25	Unit : 03 - Special Weather Phenomena	Cyclone : Structure	Lecture	PPT
26	Unit : 03 - Special Weather Phenomena	Cyclone : Global distribution and associate weather	Lecture	PPT
27	Unit : 03 - Special Weather Phenomena	Cyclone : Global distribution and associate weather	Lecture & Question answer	PPT
28	Unit : 03 - Special Weather Phenomena	Tornados : Origin and structure	Lecture	PPT & Videos / Documentry



29	Unit : 03 - Special Weather Phenomena	Tornados : Distribution and associate weather	Lecture	PPT
30	Unit : 03 - Special Weather Phenomena	Anti-cyclones : Origin and structure	Lecture, Group Discussion & Question answer	PPT
31	Unit : 03 - Special Weather Phenomena	Anti-cyclones : Characteristic	Lecture	PPT
32	Unit : 03 - Special Weather Phenomena	Anti-cyclones : Global distribution	Lecture	PPT
33	Unit : 03 - Special Weather Phenomena	Anti-cyclones : associate weather	Lecture	PPT
34	Unit : 03 - Special Weather Phenomena	Global Warming : Concept and Causes	Lecture, Group Discussion & Question answer	PPT & Videos / Documentry
35	Unit : 03 - Special Weather Phenomena	Global Warming and its impact on weather	Lecture, Group Discussion & Question answer	PPT
36	Unit : 04 - Introduction to Oceanography	Concept, Origin and Development of Oceanography	Lecture	PPT
37	Unit : 04 - Introduction to Oceanography	Branches of oceanography	Lecture	PPT
38	Unit : 04 - Introduction to Oceanography	Ocean floor relief : Concept	Lecture	PPT & Videos / Documentry
39	Unit : 04 - Introduction to Oceanography	Characteristics of Ocean floor relief	Lecture	PPT



40	Unit : 04 - Introduction to Oceanography	Characteristics of Ocean floor relief	Lecture	PPT
41	Unit : 04 - Introduction to Oceanography	distribution of Ocean floor relief	Lecture	PPT
42	Unit : 04 - Introduction to Oceanography	Composition of Ocean water	Lecture	PPT
43	Unit : 04 - Introduction to Oceanography	Distribution of Salinity	Lecture	PPT
44	Unit : 04 - Introduction to Oceanography	Distribution of salinity and affecting factors	Lecture & Question answer	PPT
45	Unit : 04 - Introduction to Oceanography	Ocean waves : Formation	Lecture	PPT
46	Unit : 04 - Introduction to Oceanography	Ocean waves : Types	Lecture & Question answer	PPT
47	Unit : 05 - Concept of tides, Ocean currents and marine pollution	Concept and types of Tides	Lecture, Group Discussion & Question answer	PPT & Videos / Documentry
48	Unit : 05 - Concept of tides, Ocean currents and marine pollution	Concept and types of Tides	Lecture, Group Discussion & Question answer	PPT & Videos / Documentry
49	Unit : 05 - Concept of tides, Ocean currents and marine pollution	Ocean Currents : Concept, Types and their effects	Lecture & Question answer	PPT
50	Unit : 05 - Concept of tides, Ocean currents and marine pollution	Ocean Currents : Concept, Types and their effects	Lecture & Question answer	PPT



51	Unit : 05 - Concept of tides, Ocean currents and marine pollution	Concept and Mining of Coral reefs	Lecture & Question answer	PPT & Videos / Documentary
52	Unit : 05 - Concept of tides, Ocean currents and marine pollution	Coral reefs and their importance	Lecture & Question answer	PPT
53	Unit : 05 - Concept of tides, Ocean currents and marine pollution	Global distribution of Coral reefs	Lecture	PPT
54	Unit : 05 - Concept of tides, Ocean currents and marine pollution	Marine pollution : Concept	Lecture, Group Discussion & Question answer	PPT
55	Unit : 05 - Concept of tides, Ocean currents and marine pollution	Marine pollution : Meaning, Types and Causes	Lecture, Group Discussion & Question answer	PPT
56	Unit : 05 - Concept of tides, Ocean currents and marine pollution	Marine pollution : impact on marine Ecosystem	Lecture, Group Discussion & Question answer	PPT
57	Unit : 05 - Concept of tides, Ocean currents and marine pollution	Marine pollution : impact on marine Ecosystem and measures	Lecture, Group Discussion & Question answer	PPT



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Teaching Plan for the Academic Year 2023-24

Term-I

NAME OF THE PROFESSOR : Asst. Prof. Vishal S. Bhosale

DEPARTMENT : Geography

CLASS : TYBA

SUBJECT NAME : TOOLS & TECHNIQUES IN GEOGRAPHY FOR SPATIAL ANALYSIS-I

SEM : V

PAPER : VI

Lecture No.	Unit Name / No.	Topic	Teaching Method	ICT Tools Used
1	Unit : 01 - Map Projections	Map Projections - Basic Concept and Definition	Lecture	PPT
2	Unit : 01 - Map Projections	Concepts of Scale, Direction and Azimuth	Lecture	PPT
3	Unit : 01 - Map Projections	Concepts of Great Circle & True meridian	Lecture	PPT
4	Unit : 01 - Map Projections	Types and Choice of projections	Lecture	PPT
5	Unit : 01 - Map Projections	Zenithal Polar Projections : <u>Equal Area</u>	Lecture and Demonstration	PPT
6	Unit : 01 - Map Projections	Zenithal Polar Projections : <u>Equidistant</u>	Lecture and Demonstration	PPT
7	Unit : 01 - Map Projections	Cylindrical Projections : <u>Equal Area</u>	Lecture and Demonstration	PPT
8	Unit : 01 - Map Projections	Cylindrical Projections : <u>Equidistant</u>	Lecture and Demonstration	PPT



9	Unit : 01 - Map Projections	Conical Projections : <u>One standard parallel</u>	Lecture and Demonstration	PPT
10	Unit : 01 - Map Projections	Conical Projections : <u>Two standards parallel</u>	Lecture and Demonstration	PPT
11	Unit : 02 - Map Basic	Basic elements of map	Lecture and Demonstration	PPT
12	Unit : 02 - Map Basic	Calculation of relief, direction, bearing and distance	Lecture and Demonstration	
13	Unit : 02 - Map Basic	Area Calculation - <u>Square Method</u>	Lecture and Demonstration	
14	Unit : 02 - Map Basic	Area Calculation - <u>Strip Method</u>	Lecture and Demonstration	
15	Unit : 02 - Map Basic	Demarcation of watershed	Lecture and Demonstration	
16	Unit : 02 - Map Basic	S.O.I. Topographical Maps : Concept	Lecture, Group Discussion & Question answer	PPT
17	Unit : 02 - Map Basic	S.O.I. Topographical Maps : Study of physiography, drainage and vegetation	Lecture, Question answer and Demonstration	
18	Unit : 02 - Map Basic	S.O.I. Topographical Maps : Study of Physiography, Drainage and Vegetation	Lecture, Question answer and Demonstration	
19	Unit : 02 - Map Basic	S.O.I. Topographical Maps : Study of Settlements size, Pattern and Utilities	Lecture, Question answer and Demonstration	



20	Unit : 02 - Map Basic	S.O.I. Topographical Maps : Study of Study of transport network	Lecture, Question answer and Demonstration	
21	Unit : 03 - Preparation of Thematic maps	Thematic Map : Concept and Basics	Lecture	PPT
22	Unit : 03 - Preparation of Thematic maps	Preparation of a district thematic Map : Dot Map	Lecture and Demonstration	
23	Unit : 03 - Preparation of Thematic maps	Preparation of a district thematic Map : Dot Map	Lecture and Demonstration	
24	Unit : 03 - Preparation of Thematic maps	Preparation of a district thematic Map : Choropleth	Lecture and Demonstration	
25	Unit : 03 - Preparation of Thematic maps	Preparation of a district thematic Map : Choropleth	Lecture and Demonstration	
26	Unit : 03 - Preparation of Thematic maps	Preparation of a district thematic Map : Isopleth	Lecture and Demonstration	
27	Unit : 03 - Preparation of Thematic maps	Preparation of a district thematic Map : Isopleth	Lecture and Demonstration	
28	Unit : 03 - Preparation of Thematic maps	Preparation of a district thematic Map : Located Circle	Lecture and Demonstration	
29	Unit : 03 - Preparation of Thematic maps	Preparation of a district thematic Map : pie chart	Lecture and Demonstration	
30	Unit : 04 - Weather map - reading and interpretation	Concept of Weather map, Map Reading and interpretation	Lecture, Group Discussion & Question answer	



31	Unit : 04 - Weather map - reading and interpretation	Weather Instrument information : Thermometer	Lecture and Demonstration	PPT
32	Unit : 04 - Weather map - reading and interpretation	Weather Instrument information : Barometer and Hygrometer	Lecture and Demonstration	PPT
33	Unit : 04 - Weather map - reading and interpretation	Weather Instrument information : Anemometer and Rain gauge	Lecture and Demonstration	PPT
34	Unit : 04 - Weather map - reading and interpretation	Weather signs and Symbol reading	Lecture & Question answer	PPT
35	Unit : 04 - Weather map - reading and interpretation	Weather Map interpretation : Concept and Factors	Lecture & Question answer	PPT
36	Unit : 04 - Weather map - reading and interpretation	Weather Map : interpretation	Lecture & Group Discussion	
37	Unit : 04 - Weather map - reading and interpretation	Weather Map : interpretation	Lecture & Group Discussion	
38	Unit : 05 - Computer Section for practical - Google Earth	Introduction of Google earth Pro Software	Group Discussion and Computer Assisted	Live Google Earth
39	Unit : 05 - Computer Section for practical - Google Earth	Download Google earth Pro and Identify location and its latitude	Computer Assisted Demonstration	Live Google Earth
40	Unit : 05 - Computer Section for practical - Google Earth	Practically use of Google earth tool : Add Placement and polygon	Computer Assisted Demonstration	Live Google Earth
41	Unit : 05 - Computer Section for practical - Google Earth	Practically use of Google earth tool : Add path and Add Image	Computer Assisted Demonstration	Live Google Earth



42	Unit : 05 - Computer Section for practical - Google Earth	Practically use of Google earth tool : Add over layer and Historical image	Computer Assisted Demonstration	Live Google Earth
43	Unit : 05 - Computer Section for practical - Google Earth	Practically use of Google earth tool : Add over layer and Historical image	Computer Assisted Demonstration	Live Google Earth
44	Unit : 05 - Computer Section for practical - Google Earth	Practically use of Google earth tool : Show rules	Computer Assisted Demonstration and projects	Live Google Earth
45	Unit : 05 - Computer Section for practical - Google Earth	Google Map : Evaluation profile	Lecture and Demonstration	Live Google Earth





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Teaching Plan for the Academic Year 2023-24

Term-II

NAME OF THE PROFESSOR : Asst. Prof. Vishal S. Bhosale

DEPARTMENT : Geography

CLASS : TYBA

SUBJECT NAME : TOOLS & TECHNIQUES IN GEOGRAPHY FOR SPATIAL ANALYSIS-II

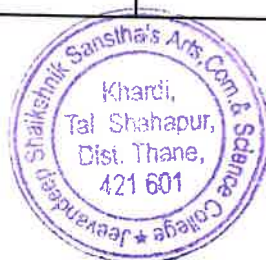
SEM : VI

PAPER : VI

Lecture No.	Unit Name / No.	Topic	Teaching Method	ICT Tools Used
1	Unit : 01 - Nature of data and central tendency	Meaning and types of data, Variable, observation and observation value	Lecture	PPT
2	Unit : 01 - Nature of data and central tendency	Meaning and types of simple data, discrete data and continuous data	Lecture	PPT
3	Unit : 01 - Nature of data and central tendency	Frequency Distribution and Histogram	Lecture and Demonstration	PPT
4	Unit : 01 - Nature of data and central tendency	Frequency Polygon and Ogive	Lecture and Demonstration	PPT
5	Unit : 01 - Nature of data and central tendency	Measures of Central Tendency : Meaning and types	Lecture	PPT
6	Unit : 01 - Nature of data and central tendency	Measures of Central Tendency : <u>Mean</u>	problem-solving	PPT
7	Unit : 01 - Nature of data and central tendency	Measures of Central Tendency : <u>Median</u>	problem-solving	
8	Unit : 01 - Nature of data and central tendency	Measures of Central Tendency : <u>Mode</u>	problem-solving	



9	Unit : 02 - Dispersion and Deviation	Concept of Mean Deviation, Quartile Deviation & Standard Deviation	Lecture	PPT
10	Unit : 02 - Dispersion and Deviation	Mean Deviation (unclassified)	problem-solving	
11	Unit : 02 - Dispersion and Deviation	Mean Deviation (Classified)	problem-solving	
12	Unit : 02 - Dispersion and Deviation	Quartile Deviation (unclassified)	problem-solving	
13	Unit : 02 - Dispersion and Deviation	Quartile Deviation (Classified)	problem-solving	
14	Unit : 02 - Dispersion and Deviation	Standard Deviation (unclassified)	problem-solving	
15	Unit : 02 - Dispersion and Deviation	Standard Deviation (Classified)	problem-solving	
16	Unit : 02 - Dispersion and Deviation	Moving Averages (3 years years)	problem-solving	
17	Unit : 02 - Dispersion and Deviation	Moving Averages (5 years)	problem-solving	
18	Unit : 03 - Correlation, Regression & Hypothesis Testing	Meaning of Correlation coefficient	Lecture	
19	Unit : 03 - Correlation, Regression & Hypothesis Testing	Calculation of correlation coefficient : Pearson's methods	Lecture and problem-solving	



20	Unit : 03 - Correlation, Regression & Hypothesis Testing	Calculation of correlation coefficient : Spearman's methods	Lecture and problem-solving	
21	Unit : 03 - Correlation, Regression & Hypothesis Testing	Meaning and types of Regression	Lecture and problem-solving	
22	Unit : 03 - Correlation, Regression & Hypothesis Testing	Regression analysis	Lecture and problem-solving	
23	Unit : 03 - Correlation, Regression & Hypothesis Testing	Regression analysis	Lecture and problem-solving	
24	Unit : 03 - Correlation, Regression & Hypothesis Testing	Concept of Systematic and random Sampling	Lecture	PPT & Videos
25	Unit : 03 - Correlation, Regression & Hypothesis Testing	Systematic and random Sampling with <u>Point</u>	Lecture and problem-solving	
26	Unit : 03 - Correlation, Regression & Hypothesis Testing	Systematic and random Sampling with <u>Line</u>	Lecture and problem-solving	
27	Unit : 03 - Correlation, Regression & Hypothesis Testing	Systematic and random Sampling with <u>Area</u>	Lecture and problem-solving	
28	Unit : 04 - Surveying	Concept and Process of Plane Table Surveying	Lecture, Group Discussion & Question answer	PPT & Videos
29	Unit : 04 - Surveying	Required equipment of Plane Table Surveying and importance of Plane Table Surveying	Lecture and Demonstration	PPT & Videos
30	Unit : 04 - Surveying	Plane Table Surveying	Lecture and Demonstration / Field Work	



31	Unit : 04 - Surveying	Plane Table Surveying	Lecture and Demonstration / Field Work	
32	Unit : 04 - Surveying	Abney level Surveying : Concept, Process and Importance	Lecture and Group Discussion	
33	Unit : 04 - Surveying	Abney level Surveying	Lecture and Demonstration / Field Work	
34	Unit : 04 - Surveying	Prismatic Compass surveying : Concept and Process	Lecture & Group Discussion	
35	Unit : 04 - Surveying	Prismatic Compass surveying	Lecture and Demonstration / Field Work	
36	Unit : 05 - Field work in Geography	Report writing : Concept, Process and Importance	Group Discussion and Computer Assisted	
37	Unit : 05 - Field work in Geography	Types and Structure of Report writing	Lecture & Group Discussion	
38	Unit : 05 - Field work in Geography	Study tour and report writing or Village Survey and report writing (preparation)	Group Discussion	
39	Unit : 05 - Field work in Geography	Report writing preparation	Computer Assisted	
40	Unit : 05 - Field work in Geography	Report writing preparation	Computer Assisted	
41	Unit : 05 - Field work in Geography	Report writing preparation	Computer Assisted	



42	Unit : 05 - Field work in Geography	Report writing preparation	Computer Assisted	
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Teaching Plan for the Academic Year 2023-24

Term-I

NAME OF THE PROFESSOR : Asst. Prof. Vishal S. Bhosale

DEPARTMENT : Geography

CLASS : TYBA

SUBJECT NAME : GEOSPATIAL TECHNOLOGY

SEM : V

PAPER : XI

Lecture No.	Unit Name / No.	Topic	Teaching Method	ICT Tools Used
1	Unit : 01 - Remote Sensing - I	Geospatial Technology : Concept, Components and Importance	Lecture & Group Discussion	PPT
2	Unit : 01 - Remote Sensing - I	Remote Sensing Technology : Concept, Process and Geographical Applications	Lecture & Group Discussion	PPT
3	Unit : 01 - Remote Sensing - I	Concept of Electro Magnetic Radiation and Electro Magnetic Spectrom	Lecture	PPT
4	Unit : 01 - Remote Sensing - I	Concept of Spectral Reflectance and Spectral Signature (Curve)	Lecture	PPT
5	Unit : 01 - Remote Sensing - I	Platforms : Concept and Types	Lecture and Group Discussion	PPT
6	Unit : 01 - Remote Sensing - I	Sensors and Resolution : Concept and Types	Lecture and Group Discussion	PPT
7	Unit : 01 - Remote Sensing - I	Elements of Visual Image Interpretation	Lecture and Group Discussion	PPT
8	Unit : 01 - Remote Sensing - I	Mapping of Thematic Layers : Concept and Factors	Lecture and Group Discussion	PPT



9	Unit : 01 - Remote Sensing - I	Visual Image Interpretation of Physical Features	Lecture, Question answer and Demonstration	PPT
10	Unit : 01 - Remote Sensing - I	Visual Image Interpretation of Manmade Features	Lecture, Question answer and Demonstration	PPT
11	Unit : 02 - Remote Sensing - II	Digital image analysis : Concept and Factors	Lecture and Group Discussion	PPT
12	Unit : 02 - Remote Sensing - II	Concept of land use, landform classification and their types	Lecture and Group Discussion	PPT
13	Unit : 02 - Remote Sensing - II	land use and landform classification	Lecture, Group Discussion & Question answer	PPT
14	Unit : 02 - Remote Sensing - II	Bhuvan Website and Downlod process of Dem File	Lecture and Demonstration	PPT
15	Unit : 02 - Remote Sensing - II	Different Types of 3D DEM Map and Histogram Creatioin	Lecture and Demonstration	PPT & Videos
16	Unit : 02 - Remote Sensing - II	Interpretation of 3D DEM Map and Histogram	Lecture and Demonstration	PPT
17	Unit : 02 - Remote Sensing - II	Aerial Photographs : Concept and process	Lecture and Group Discussion	PPT
18	Unit : 02 - Remote Sensing - II	Aerial Photographs : Types and characteristics	Lecture, Question answer and Group Discussion	PPT
19	Unit : 02 - Remote Sensing - II	Aerial Photographs : Factors Affecting and Precautionary	Lecture, Question answer and Group Discussion	PPT



20	Unit : 03 - Globle Positioning System	GPS : Concept, Segments and Applications	Lecture and Group Discussion	PPT
21	Unit : 03 - Globle Positioning System	GPS : Applications	Lecture and Group Discussion	PPT
22	Unit : 03 - Globle Positioning System	Types of GPS and characteristics	Lecture and Group Discussion	PPT
23	Unit : 03 - Globle Positioning System	GPS Data Accuracy and Errors	Lecture and Group Discussion	PPT
24	Unit : 03 - Globle Positioning System	Factors Affecting GPS Data	Lecture and Group Discussion	PPT
25	Unit : 03 - Globle Positioning System	Global Navigation System	Lecture	PPT
26	Unit : 03 - Globle Positioning System	Ground Survey and Demarcation of Point, Line and Polygon Features with GPS Device	Lecture and Demonstration	PPT and field Work
27	Unit : 03 - Globle Positioning System	Ground Survey and Demarcation of Point, Line and Polygon Features with GPS Device	Lecture and Demonstration	PPT and field Work
28	Unit : 03 - Globle Positioning System	Transfer GPS Data to Computer with Software's	Lecture, Computer Assisted Demonstration and projects	PPT
29	Unit : 04 - Geographical Information System-I	GIS : Concept and Components	Lecture, Group Discussion & Question answer	PPT
30	Unit : 04 - Geographical Information System-I	GIS : Applications	Lecture & Group Discussion	PPT



31	Unit : 04 - Geographical Information System-I	Map Projection and Coordinate System	Lecture & Group Discussion	PPT
32	Unit : 04 - Geographical Information System-I	Cxconcept of GIS Data Acquisition	Lecture & Group Discussion	PPT
33	Unit : 04 - Geographical Information System-I	GIS Data Acquisition and Types	Lecture & Group Discussion	PPT
34	Unit : 04 - Geographical Information System-I	Importing Image into GIS Software and Geo - referencing	Computer Assisted Demonstration and projects	PPT & Videos
35	Unit : 04 - Geographical Information System-I	Creating Layers of Point, Line and Polygon Features	Computer Assisted Demonstration and projects	PPT & Videos
36	Unit : 04 - Geographical Information System-I	Creating Layers of Point, Line and Polygon Features	Computer Assisted Demonstration and projects	PPT & Videos
37	Unit : 05 - Geographical Information System- II	Concept and Functions of Database Creation	Computer Assisted Demonstration	PPT
38	Unit : 05 - Geographical Information System- II	Functions of Database Creation : Input and Editing	Computer Assisted Demonstration	PPT & Videos
39	Unit : 05 - Geographical Information System- II	Functions of Database Creation : Linking	Computer Assisted Demonstration	PPT & Videos
40	Unit : 05 - Geographical Information System- II	Spatial Database Analysis : Overlay and Merge	Computer Assisted Demonstration	PPT & Videos
41	Unit : 05 - Geographical Information System- II	Spatial Database Analysis : Query	Computer Assisted Demonstration	PPT & Videos



42	Unit : 05 - Geographical Information System- II	Using Map-Composer for Map Layout and Design	Computer Assisted Demonstration and projects	PPT & Videos
43	Unit : 05 - Geographical Information System- II	Using Map-Composer for Map Layout and Design	Computer Assisted Demonstration and projects	PPT & Videos
44	Unit : 05 - Geographical Information System- II	Preparation of Thematic Maps	Computer Assisted Demonstration and projects	PPT
45	Unit : 05 - Geographical Information System- II	Preparation of Thematic Maps	Lecture and Demonstration	



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Teaching Plan for the Academic Year 2023-24

Term-II

NAME OF THE PROFESSOR : Asst. Prof. Vishal S. Bhosale

DEPARTMENT : Geography

CLASS : TYBA

SUBJECT NAME : Research Methodology in Geography (Practical)

SEM : VI

PAPER : XI

Lecture No.	Unit Name / No.	Topic	Teaching Method	ICT Tools Used
1	Unit : 01 - Research Methodology in Geography	Research in Geography : Concept and Types	Lecture, Question answer and Demonstration	PPT
2	Unit : 01 - Research Methodology in Geography	Research in Geography : Steps and Significance	Lecture & Group Discussion	PPT
3	Unit : 01 - Research Methodology in Geography	Research Methodology : Meaning and Types (Qualitative)	Lecture	PPT
4	Unit : 01 - Research Methodology in Geography	Research Methodology : Meaning and Types (Quantitative)	Lecture	PPT
5	Unit : 01 - Research Methodology in Geography	Defining the Research Problem : Meaning and Need	Lecture	PPT
6	Unit : 01 - Research Methodology in Geography	Defining the Research Problem : Techniques	Lecture & Group Discussion	PPT
7	Unit : 01 - Research Methodology in Geography	Research Designs : Concept and Need	Lecture & Group Discussion	PPT
8	Unit : 01 - Research Methodology in Geography	Research Designs : Features	Lecture & Group Discussion	PPT



9	Unit : 01 - Research Methodology in Geography	Research Designs : Features	Lecture & Group Discussion	PPT
10	Unit : 02 - Data Collection and Processing	Concept and Meaning of Sample Design	Lecture	PPT
11	Unit : 02 - Data Collection and Processing	Measurement and Scaling	Lecture	PPT
12	Unit : 02 - Data Collection and Processing	Measurement and Scaling	Lecture	PPT
13	Unit : 02 - Data Collection and Processing	Data Collection in Geography : Types s (Primary and Secondary)	Lecture, Question answer and Group Discussion	PPT
14	Unit : 02 - Data Collection and Processing	Data Collection in Geography : Methods - Observation	Lecture, Question answer and Group Discussion	PPT
15	Unit : 02 - Data Collection and Processing	Data Collection in Geography : Methods - Questionnaire	Lecture, Question answer and Group Discussion	PPT
16	Unit : 02 - Data Collection and Processing	Data Collection in Geography : Methods - Schedule and Interview	Lecture, Question answer and Group Discussion	PPT
17	Unit : 02 - Data Collection and Processing	Role of Internet in Research : Online Research Referencing (Shodhganga, INFLIBNET)	Lecture and Group Discussion	PPT
18	Unit : 02 - Data Collection and Processing	Role of Internet in Research: Online Research Referencing (ResearchGate, Academia, Mendeley)	Lecture and Group Discussion	PPT
19	Unit : 02 - Data Collection and Processing	Data Processing : Editing, Coding, Classification and Tabulation	Group Discussion and Computer Assisted	



20	Unit : 03 - Data Analysis	Data Analysis : Meaning, Significance and Types	Lecture	PPT
21	Unit : 03 - Data Analysis	Using MS-Excel for Data Analysis : Graphical Representation	Lecture & Group Discussion	
22	Unit : 03 - Data Analysis	Using MS-Excel for Data Analysis : Descriptive and Inferential Statistical Representation	Lecture and Computer Assisted	
23	Unit : 03 - Data Analysis	Using SPSS for Data Analysis : Graphical Representation	Lecture and Computer Assisted	
24	Unit : 03 - Data Analysis	Using SPSS for Data Analysis : Descriptive and Inferential Statistical Representation	Lecture and Computer Assisted	
25	Unit : 03 - Data Analysis	Hypothesis : Meaning and Types	Lecture	PPT
26	Unit : 03 - Data Analysis	Hypothesis : Levels of Significance	Lecture and Demonstration	
27	Unit : 03 - Data Analysis	Hypothesis : Degrees of Freedom and Errors	Lecture and Demonstration	
28	Unit : 03 - Data Analysis	Statistical Techniques for Hypothesis Testing	Lecture and Demonstration	
29	Unit : 03 - Data Analysis	Statistical Techniques for Hypothesis Testing	Lecture and Demonstration	
30	Unit : 04 - Digital Data Analysis and Research Report Writing	Techniques of Spatial and Non-spatial data Analysis in GIS Softwares (Q GIS)	Lecture, Group Discussion & Question answer	



31	Unit : 04 - Digital Data Analysis and Research Report Writing	Techniques of Spatial and Non-spatial data Analysis in GIS Softwares (Q GIS)	Lecture and Computer Assisted	
32	Unit : 04 - Digital Data Analysis and Research Report Writing	Techniques of Spatial and Non-spatial data Analysis in GIS Softwares (Q GIS)	Lecture and Computer Assisted	
33	Unit : 04 - Digital Data Analysis and Research Report Writing	Techniques of Data Analysis in Satellite Image Processing Softwares (SAGA)	Lecture & Group Discussion	
34	Unit : 04 - Digital Data Analysis and Research Report Writing	Techniques of Data Analysis in Satellite Image Processing Softwares (SAGA)	Lecture and Computer Assisted	
35	Unit : 04 - Digital Data Analysis and Research Report Writing	Basics of Research Report Writing : Layout, Structure and Language	Lecture & Group Discussion	
36	Unit : 04 - Digital Data Analysis and Research Report Writing	Basics of Research Report Writing : Bibliography, References and Footnotes	Lecture & Group Discussion	
37	Unit : 04 - Digital Data Analysis and Research Report Writing	Ethics in Research : Plagiarism	Lecture, Question answer and Group Discussion	
38	Unit : 05 - Preparation of Research Report	Research Report on any One Theme in Physical Geography or Human Geography	Lecture	
39	Unit : 05 - Preparation of Research Report	Report writing preparation	Computer Assisted Demonstration	
40	Unit : 05 - Preparation of Research Report	Report writing preparation	Computer Assisted Demonstration	
41	Unit : 05 - Preparation of Research Report	Report writing preparation	Computer Assisted Demonstration	



42	Unit : 05 - Preparation of Research Report	Report writing preparation		
43	Unit : 05 - Preparation of Research Report	Report writing preparation		
44	Unit : 05 - Preparation of Research Report	Report writing preparation		

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Teaching Plan for the Academic Year 2023-24
Term-I

NAME OF THE PROFESSOR: Asst.Prof.Sonam More

DEPARTMENT: Commerce

CLASS: SYBCOM

SEM: III

SUBJECT NAME: Foundtion Course **PAPER :** _____

Lecture No.	Unit Name	Topic	Teaching Method	ICT Tools Used
1	Unit-I:Human Rights Provisions, Violations and Redressal	Scheduled Castes- Constitutional rights,	Group Discussion	PPT, Videos
2	Unit-I:Human Rights Provisions, Violations and Redressal	Scheduled Castes- Legal rights,	Group Discussion	PPT, Videos
3	Unit-I:Human Rights Provisions, Violations and Redressal	Scheduled Castes- Forms of violations	Group Discussion,chart	PPT
4	Unit-I:Human Rights Provisions, Violations and Redressal	Scheduled Castes- Redressal mechanisms.	Group Discussion	You-tube, Videos
5	Unit-I:Human Rights Provisions, Violations and Redressal	Scheduled tribes- Constitutional Rights,	Group Discussion	
6	Unit-I:Human Rights Provisions, Violations and Redressal	Scheduled tribes- Legal rights,	Group Discussion	
	Unit-I:Human Rights Provisions, Violations and Redressal	Scheduled tribes- Forms of violations, Redressal mechanisms.	Group Discussion,Question Answer	
7	Unit-I:Human Rights Provisions, Violations and Redressal	Women- Constitutional Rights,	Group Discussion,Question Answer	



8	Unit-I:Human Rights Provisions, Violations and	Women- Legal rights	Group Discussion,Question Answer	
9	Unit-I:Human Rights Provisions, Violations and Redressal	Women- Forms of violations, F	Group Discussion,Question Answer	
10	Unit-I:Human Rights Provisions, Violations and Redressal	Children- Constitutional and legal rights	Group Discussion,Question Answer	
11	Unit-I:Human Rights Provisions, Violations and Redressal	Children- Constitutional and legal rights, Forms of violations, Redressal mechanisms.	Group Discussion	
12	Unit-I:Human Rights Provisions, Violations and Redressal	People with Disabilities, Minorities, and the Elderly population-	Group Discussion	
13	Unit-I:Human Rights Provisions, Violations and Redressal	Disabled Persons:Constitutional and legal rights, Forms of violations, Redressal	Group Discussion,Chart	
14	Unit-II:Dealing With Environmental Concerns	Concept of Disaster and general effects of Disasters on human life	Group Discussion,Chart, Problem Solving	
15	Unit-II:Dealing With Environmental Concerns	Disaster:Physical, psychological, economic and social effects.	Group Discussion	
16	Unit-II:Dealing With Environmental Concerns	Some locally relevant case studies of environmental disasters	Group Discussion,Case Study	
17	Unit-II:Dealing With Environmental Concerns	Dealing with Disasters - Factors to be considered in Prevention	Group Discussion,Question Answer	
18	Unit-II:Dealing With Environmental Concerns	Mitigation	Group Discussion,Question Answer	
19	Unit-II:Dealing With Environmental	Disaster Preparedness	Group Discussion,Question	
20	Unit-II:Dealing With Environmental Concerns	Human Rights issues in addressing disasters	Group Discussion,Question Answer	



21	Unit-II:Dealing With Environmental Concerns	Issues related to compensation,	Group Discussion,Question Answer	
22	Unit-II:Dealing With Environmental Concerns	Equitable and fair distribution of relief	Group Discussion,Question Answer	
23	Unit-II:Dealing With Environmental Concerns	Humanitarian approach to resettlement and rehabilitation	Group Discussion,Question Answer	
24	Unit-III:Science and Technology – I	Development of Science- the ancient cultures	Group Discussion,Question Answer	
25	Unit-III:Science and Technology – I	Development of Science- the Classical era, the Middle Ages	Group Discussion,Question Answer	
26	Unit-III:Science and Technology – I	Renaissance, the Age of Reason and Enlightenment.	Group Discussion,Question Answer	
27	Unit-III:Science and Technology – I	Nature of science- its principles and characteristics	Group Discussion,Question Answer	
28	Unit-III:Science and Technology – I	Science as empirical, practical, theoretical, validated knowledge	Group Discussion,Question Answer	Videos, PPT
29	Unit-III:Science and Technology – I	Science and superstition- the role of science in exploding myths	Group Discussion,Question Answer	Videos, PPT
30	Unit-III:Science and Technology – I	Blind beliefs and prejudices; Science and scientific temper-	Group Discussion,Question Answer	Videos, PPT
31	Unit-III:Science and Technology – I	scientific temper as a fundamental duty of the Indian citizen	Group Discussion,Question Answer	Videos, PPT
32	Unit-III:Science and Technology – I	Science in everyday life- technology, its meaning	Group Discussion,Question Answer	Videos, PPT
33	Unit-III:Science and Technology – I	Science in everyday life- role in development;	Group Discussion,Question Answer	Videos, PPT
34	Unit-III:Science and Technology – I	Interrelation and distinction between science and technology	Group Discussion,Question Answer	
35	Unit-IV:Soft Skills for Effective Interpersonal	Effective Listening - Importance and Features.	Group Discussion,Question Answer	



36	Unit-IV:Soft Skills for Effective Interpersonal Communication	Verbal Communication;	Group Discussion,Question Answer	
37	Unit-IV:Soft Skills for Effective Interpersonal Communication	Non-Verbal Communication;	Group Discussion,Question Answer	
38	Unit-IV:Soft Skills for Effective Interpersonal Communication	Public-Speaking and Presentation Skills.	Group Discussion,Question Answer	
39	Unit-IV:Soft Skills for Effective Interpersonal Communication	Barriers to Effective Communication	Group Discussion,Question Answer	
40	Effective Interpersonal Communication	Importance of Self-Awareness and Body Language	Group Discussion,Question Answer	
41	Unit-IV:Soft Skills for Effective Interpersonal Communication	Formal Communication - Purpose and Types.	Group Discussion,Question Answer	
42	Effective Interpersonal Communication	Informal Communication - Purpose and Types.	Group Discussion,Question Answer	
42	Unit-IV:Soft Skills for Effective Interpersonal Communication	Writing Formal Applications, Statement of Purpose (SOP) and Resume.	Group Discussion,Question Answer	
42	Effective Interpersonal Communication	Preparing for Group Discussions, Interviews and Presentations.	Group Discussion,Question Answer	
42	Unit-IV:Soft Skills for Effective Interpersonal Communication	Leadership Skills - Characteristics of Effective Leadership.	Group Discussion,Question Answer	
42	Unit-IV:Soft Skills for Effective Interpersonal Communication	Leadership Skills - Characteristics of Effective Leadership.	Group Discussion,Question Answer	
42	Unit-IV:Soft Skills for Effective Interpersonal Communication	Styles of Leadership and Team-Building.	Group Discussion,Question Answer	



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Teaching Plan for the Academic Year 2023-24
Term-II

NAME OF THE PROFESSOR: Asst.Prof.Sonam More

DEPARTMENT: Commerce

CLASS: TYBCOM

SEM: VI

SUBJECT NAME: Business Economics-VI **PAPER :** _____

Lecture No.	Unit Name	Topic	Teaching Method	ICT Tools Used
1	Unit-I: Introduction to International Trade	Ricardian Theory of Comparative Cost Advantage Evaluation Criticism	Group Discussion, Question Answer, Chart	
2		Heckscher-Ohlin Theory of Factor Endowment Limitations	Group Discussion, Chart, Question Answer	
3		Terms of Trade: 1) Net Barter Terms of Trade 2) Gross Barter Terms of Trade 3) Income Terms of Trade	Group Discussion, Chart, Question Answer, Problem Solving	
4		Terms of Trade: 1) Single Factoral Terms of Trade 2) Double Factoral Terms of Trade	Group Discussion, Chart, Question Answer, Problem Solving	
5		Gains From International Trade: Reciprocal Demand, Offer Curves	Group Discussion, Question Answer, Chart, Problem Solving	
6		Gains From International Trade: 1) Increase in World Production 2) Increase in Consumption 3) Higher Economic Welfare 4) Dynamic Gains	Group Discussion, Question Answer	
7		Factors Determining the gains	Group Discussion, Question Answer	You-tube
8		Meaning, Types of Commercial Policy 1) Free Trade Policy- Advantages and disadvantages	Group Discussion, Question Answer	PPT
9		Protectionist Trade Policy- Advantages and Disadvantages	Group Discussion, Question Answer	PPT



10	Unit II: Commercial Policy	Tariff: Meaning, Types of Tariffs	Group Discussion, Question Answer	PPT
11		Tariff: Effects of Tariffs	Group Discussion, Question Answer, Chart, Case Studies	You-tube
12		Non-tariff Barriers: Import Quota-Types and Effects of Import Quota	Group Discussion, Question Answer, Chart, Case Studies	You-tube
13		International Economic Integration: Types of International Economic Integration	Group Discussion, Question Answer, Chart, Case Studies	PPT, You-tube
14		Objective of Economic Integration	Group Discussion, Question Answer, Chart	PPT, You-tube
15		ASEAN: aims and purpose of ASEAN	Group Discussion, Question Answer	PPT, You-tube
16	Unit III: Balance of Payments	Meaning and Structure of Balance of Payments	Group Discussion, Question Answer	PPT, You-tube
17		Balance of Payments Disequilibrium: Meaning and Types	Group Discussion, Question Answer	PPT, You-tube
18		Balance of Payments Disequilibrium: Causes of Disequilibrium	Group Discussion, Question Answer	
19		Balance of Payments Disequilibrium: Measures to correct Disequilibrium	Group Discussion, Question Answer	PPT
20		World Trade Organisation: Principles of WTO	Group Discussion, Question Answer	
21		World Trade Organisation: Functions of WTO	Group Discussion, Question Answer	
22		TRIMS & TRIPS	Group Discussion, Question Answer	
23		GATS: Objectives and agreements	Group Discussion, Question Answer, Chart, Problem Solving	
24		Participants in foreign exchange market	Group Discussion, Question Answer	
25		Functions of foreign exchange market	Group Discussion, Question Answer	



26	Unit IV: Foreign Exchange Market	Transaction in Foreign Exchange Market: 1) Arbitrage 2) Hedging 3) Speculation	Group Discussion, Question Answer	
27		Determination of Equilibrium Rate of Exchange	Group Discussion, Question Answer	You-tube
28		Changes in Exchange Rate	Group Discussion, Question Answer, Chart	
29		Spot and Forward Exchange Rate	Group Discussion, Question Answer	You-tube
30		Factors Responsible for Change in Exchange Rate	Group Discussion, Question Answer	
31		Purchasing Power Parity Theory	Group Discussion, Question Answer	You-tube
32		Role of Central Bank in Foreign Exchange Rate Management	Group Discussion, Question Answer	
33		Exchange Rate System of India	Group Discussion, Question Answer	

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(Affiliated to Mumbai University)
Teaching Plan for the Academic Year 2023-24
Term-I

NAME OF THE PROFESSOR: Asst.Prof.Sonam More

DEPARTMENT: Commerce

CLASS: TYBCOM

SEM: V

SUBJECT NAME: Business Economics-V **PAPER :** _____

Lecture No.	Unit Name	Topic	Teaching Method	ICT Tools Used
1	Unit-I:Macro Economic overview of India	Overview of New Economic Policy-1991	Group Discussion, Question Answer	You-tube
2		Role of Social Infrastructure with reference to education	Group Discussion, Chart, Question Answer	You-tube
3		Health and family welfare	Group Discussion, Chart, Question Answer	You-tube
4		Sustainable Development Goals and Policy measures	Group Discussion, Chart, Question Answer	
5		Make in India	Lecture method	You-tube
6		Invest in India: FDI in India	Group Discussion, Question Answer	
7		Skill Development and Training Programmes	Group Discussion, Question Answer	You-tube
8		Foreign Investment Policy Measures in India –	Group Discussion, Question Answer	
9		Foreign Investment Promotion Board	Group Discussion, Question Answer	
10		FDI- Positive and Negative Impact of FDI	Group Discussion, Question Answer	
11		- MNCs: Role of MNCs in India	Group Discussion, Question Answer, Chart	



12		MNCs: Impact of MNCs on Developing Economy	Group Discussion, Question Answer, Chart	
13	Unit-II: Agriculture During Post Reform Period	National Agricultural Policy 2000: Objectives	Group Discussion, Question Answer, Chart	
14		National Agricultural Policy 2000: Features	Group Discussion, Question Answer, Chart	
15		National Agricultural Policy 2000: Implications	Group Discussion, Question Answer	
16		Agricultural Price Policy	Group Discussion, Question Answer	
17		Agricultural finance: Meaning, Institutional Sources of Agricultural Finance	Group Discussion, Question Answer	
18		Agricultural finance: Meaning, Non-institutional Sources of Agricultural Finance	Group Discussion, Question Answer	PPT, You-tube
19		Agricultural Marketing Development-Agricultural Market infrastructure	Group Discussion, Question Answer	PPT, You-tube
20		Market information- Marketing training	Group Discussion, Question Answer	
21		Marketing training- Enabling environments	Group Discussion, Question Answer	
22		Agricultural Marketing-Recent developments	Group Discussion, Question Answer	
23		Policy Measures- Competition Act 2003	Group Discussion, Question Answer, Chart, Problem Solving	
24		Disinvestment Policy	Group Discussion, Question Answer	You-tube



25	Unit-III: The Industry And Service Sector During Post Reform Period	Micro, Small and Medium Enterprises [MSME sector] since 2007	Group Discussion, Question Answer	
26		Industrial Pollution in India: Meaning, Types	Group Discussion, Question Answer	PPT, You-tube
27		Industrial Pollution in India: Effects	Group Discussion, Question Answer	You-tube
28		Industrial Pollution in India: Control	Group Discussion, Question Answer, Chart	You-tube
29		Service Sector: Recent trends	Group Discussion, Question Answer	
30		Service Sector: Recent trends in Healthcare Industry	Group Discussion, Question Answer	
31		Service Sector: Role of Healthcare Industry	Group Discussion, Question Answer	
32		Service Sector: Recent trends in Tourism Industry	Group Discussion, Question Answer	
33	Unit-IV: Banking and Financial Market	Banking Sector- Recent trends	Group Discussion, Question Answer	You-tube
34		Structure of Indian Banking System	Group Discussion, Question Answer	You-tube
35		Issues and challenges in Banking Industry	Group Discussion, Question Answer	You-tube
36		Issues and challenges in Insurance Industry	Group Discussion, Question Answer	You-tube
37		Money Market – Structure of Indian Money Market	Group Discussion, Question Answer	You-tube
38		Instruments Traded in Indian Money Market	Group Discussion, Question Answer	You-tube
39		Money Market – Limitations of Money Market	Group Discussion, Question Answer	You-tube



40	Money Market – Reforms in Money Market	Group Discussion, Question Answer	You-tube
41	Capital Market – Structure of Indian Capital Market	Group Discussion, Question Answer	You-tube
42	Capital Market – Growth and Reforms in Indian Capital Market	Group Discussion, Question Answer	

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Teaching Plan for the Academic Year 2023-24
Term-II

NAME OF THE PROFESSOR: Asst.Prof.Sonam More

DEPARTMENT: Commerce

CLASS: TYBAF

SEM: VI

SUBJECT NAME: Economics Paper III **PAPER :** _____

Lecture No.	Unit Name	Topic	Teaching Method	ICT Tools Used
1	Unit I: Agriculture Sector	Demographic Features of Indias Population 1)Size and growth rate of population 2) Density of Population 3) Sex Ratio 4)Age composition 5) Urbanisation 6) Life Expectancy	Lecture Method	
2		Population Policy of India 1) Objectives of NPP 2000 2)Strategies and Initiatives	Group Discussion, Question Answer , Chart	PPT, Youtube
3		Poverty: Meaning Measurement Poverty Alleviation Programmes 1) PMGY 2)PMGSY 3)AAY 4)IAY 5) VAMBAY	Group Discussion, Question Answer , Chart	Youtube
4		Income Inequality:Meaning Causes of Income Inequality 1)Unequal Distribution of Assets 2) Social Discrimination 3)Natural Difference in Abilities 4)Government Schemes 5)Corruption	Group Discussion, Question Answer , Chart	
5		Unemployment: Meaning Types: 1)Disguised 2)Seasonal 3)Open 4)Industrial 5)Educated Extent of Unemployment in India	Group Discussion, Question Answer	PPT, Youtube



6		Land Reforms: Objectives of Land Reforms Land Reforms Measures	Group Discussion, Question Answer	PPT
7		Agricultural Price Policy Features: 1) Non-remunerative Prices 2) Uncertainty 3) Distress Sale 4) Incomplete Information 5) Poor Infrastructure Need for Agricultural Price Policy	Group Discussion, Question Answer, Chart	PPT, Youtube
8		Agricultural Finance: Meaning Sources of Agricultural Finance 1) Institutional Finance 2) Non-institutional Finance	Group Discussion, Question Answer, Chart	Youtube
9	Unit II: Industrial Sector	Industrial Growth Since 1991 Major Problems in Industrial Sector	Group Discussion, Question Answer, Chart	
10		Disinvestment Policy Objectives Government Policies on Disinvestment Limitation of Disinvestment	Group Discussion, Question Answer Case Study	
11		Small Scale Industries: Role and Performance of SSI Problems of small scale industries Government Policies and Measures	Group Discussion, Question Answer	
12		Scope and Role of Service Industry in India 1) Driver of Economic Growth 2) Raising contribution to GDP 3) Contribution to exports 4) FDI in Service Sector	Group Discussion, Question Answer, Chart	PPT
13		Insurance Sector: Recent Trends in Insurance Sector IRDA	Group Discussion, Question Answer, Chart	
14		Health & Tourism Industry: Important Trends in Health Industry Important Trends in Tourism Industry in India	Group Discussion, Chart	PPT
15	Unit III: External	Indias BOP Since 1991 : Emerging Trends Since 1991	Group Discussion, Chart, Question Answer	
16		Foreign Capital: Need for Foreign Capital	Group Discussion, Chart, Question Answer	



17	Sector	Foreign Direct Investment Advantages and Disadvantages of FDI Role of MNCs	Group Discussion, Chart, Question Answer	Youtube
18		SAARC, ASEAN, WTO: Principles of WTO	Group Discussion, Question Answer	PPT, youtube
19	Unit IV: Money and Banking	Money Market: Structure of Indian Money Market 1) Organised 2) Unorganised Money Market	Group Discussion, Question Answer	Youtube
20		Money Market: Instruments of Money Market Reforms in Indian Money Market	Group Discussion, Question Answer	Youtube
21		RBI's Monetary Policy: Meaning Objectives of Monetary Policy Instruments of Monetary Policy	Group Discussion, Question Answer	
22		Commercial Banking in India: Recent Trends and Progress in Commercial Banking	Group Discussion, Question Answer	Youtube
23		Capital Market in India: Structure of Capital Market in India Growth of Capital Market	Group Discussion, Question Answer	Youtube
24		SEBI: Role of SEBI Policy Measures Introduced by SEBI	Group Discussion, Question Answer	Youtube
25		SEBI: Reforms Introduced by SEBI	Group Discussion, Question Answer	

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Teaching Plan for the Academic Year 2023-24
Term-II

NAME OF THE PROFESSOR: Asst.Prof.Sonam More

DEPARTMENT: Commerce

CLASS: SYBCOM

SEM: IV

SUBJECT NAME: Foundtion Course

PAPER : _____

Lecture No.	Unit Name	Topic	Teaching Method	ICT Tools Used
1	Unit-I:Significant, Contemporary Rights of Citizens	Rights of Consumers	Lecture Method	PPT
2		Violations of consumer rights	Lecture Method	PPT, Videos
3		important provisions of the Consumer Protection Act, 2016	Group Discussion, Question Answer	PPT
4		Other important laws to protect consumers; Consumer courts and consumer movements.	Lecture Method	You-tube, Videos
5		Right to Information- Genesis and relation with transparency and accountability;	Group Discussion, Question Answer	
6		Right to Information- Genesis and relation with transparency and accountability;	Group Discussion, Question Answer	
7		Right to Information- some success stories.	Group Discussion, Question Answer	
		Protection of Citizens'/Public Interest-Public Interest Litigation,	Group Discussion, Question Answer	



8		Need and procedure to file a PIL	Group Discussion, Question Answer	
9		Protection of Citizens'/Public Interest-some landmark cases	Group Discussion, Question Answer	
10		Citizens' Charters, Public Service Guarantee Acts.	Group Discussion, Question Answer	
11	Unit-II: Approaches to understanding Ecology	Understanding approaches to ecology- Anthropocentrism,	Lecture Method	
12		Understanding approaches to ecology- Biocentrism and Ecocentrism	Lecture Method	
13		Understanding approaches to ecology- Ecofeminism and Deep Ecology	Lecture Method	
14		Environmental Principles-1: the sustainability principle	Lecture Method	
15		Polluter pays principle	Group Discussion, Question Answer	
16		Precautionary principle	Lecture Method	
17		Environmental Principles-2: the equity principle	Group Discussion, Question Answer	
18		Human rights principles	Lecture Method	
19		The participation principle	Lecture Method	
20		Laser Technology- Light Amplification by Stimulated Emission of Radiation;	Lecture Method	You-tube



21	Unit-III: Science and Technology –II	Use of laser in remote sensing, GIS/GPS mapping, medical use	Group Discussion, Question Answer	You-tube
22		Satellite Technology- various uses in satellite navigation systems, GPS, and imprecise climate and weather analyses.	Group Discussion, Question Answer	You-tube
23		Information and Communication Technology- convergence of various technologies like satellite	Group Discussion, Question Answer	You-tube
24		Computer and digital in the information revolution of today's society	Group Discussion, Question Answer	
25		Biotechnology and Genetic engineering- applied biology and uses in medicine, pharmaceuticals and agriculture; genetically modified plant, animal and human life	Lecture Method	You-tube
26		Nanotechnology- definition: the study	Lecture Method	You-tube
27		Nanotechnology- control and application of phenomena and materials at length scales below 100 nm	Lecture Method	
28		Uses in medicine, military intelligence and consumer products.	Lecture Method	
29		Issues of Control, Access	Group Discussion, Question Answer	
30		Misuse of Technology.	Lecture Method	
31		Basic information on Competitive Examinations- the pattern, eligibility criteria and local centres: Examinations conducted for entry into professional courses - Graduate Record Examinations (GRE)	Group Discussion, Question Answer	You-tube



32	Unit-IV: Introduction to Competitive Exams	Basic information on Competitive Examinations- the pattern, eligibility criteria and local centres: - Common Admission Test (CAT) and Scholastic Aptitude Test (SAT).	Group Discussion, Question Answer	You-tube
33		Examinations conducted for entry into jobs by Union Public Service Commission	Group Discussion, Question Answer	You-tube
34		Staff Selection Commission (SSC), State Public Service Commissions	Group Discussion, Question Answer	You-tube
35		Banking and Insurance sectors, and the National and State Eligibility Tests (NET / SET) for entry into teaching profession.	Group Discussion, Question Answer	You-tube
36		examinations: Information on areas tested: Quantitative Ability, Data Interpretation, Verbal Ability and Logical Reasoning, Creativity and Lateral Thinking	Group Discussion, Question Answer	You-tube
37		Motivation: Concept, Theories	Group Discussion, Question Answer	You-tube
38		Types of Motivation	Lecture Method	
39		Goal-Setting: Types of Goals	Group Discussion, Question Answer	
40		SMART Goals, Stephen Covey's concept of human endowment	Lecture Method	
41		Time Management: Effective Strategies for Time Management	Group Discussion, Question Answer	
42		Writing Skills: Paragraph Writing,	Group Discussion, Question Answer	



42	Report Writing, Filing an application under the RTI Act,	Lecture Method	PPT
42	Consumer Grievance Letter	Lecture Method	

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Teaching Plan for the Academic Year 2023-24
Term-II

NAME OF THE PROFESSOR: Asst.Prof.Sonam More

DEPARTMENT: Commerce

CLASS: SYBCOM

SEM: IV

SUBJECT NAME: Business Economics

PAPER : _____

Lecture No.	Unit Name	Topic	Teaching Method	ICT Tools Used
1	Unit-I: Introduction to Public Finance	Meaning and Scope of Public finance	Group Discussion	You-tube
2		Major fiscal functions : allocation function, distribution function & stabilization function	Group Discussion	You-tube
3		Principle of Maximum Social Advantage: Dalton Views - the Principle in Practice, Limitations	Group Discussion, chart	
4		Principle of Maximum Social Advantage: Musgrave Views - the Principle in Practice, Limitations	Group Discussion	
5		Principle of Maximum Social Advantage: Musgrave Views - Limitations	Group Discussion	
6		Relation between Efficiency: Productive and Allocative Efficiency	Group Discussion	
		Market Failure: Causes	Group Discussion, Question Answer	
7		Public Goods: Features	Group Discussion, Question Answer	
8		Role of Government to Correct Market Failure	Group Discussion, Question Answer	



9	Unit-II-Public Revenue	Sources of Public Revenue : tax revenue	Group Discussion, Question Answer	
10		Sources of Public Revenue : Non-tax revenues	Group Discussion, Question Answer	
11		Objectives of taxation	Group Discussion	
12		Canons of taxation	Group Discussion	
13		Types of taxes : direct and indirect	Group Discussion, Chart	
14		Rates of taxation : proportional, progressive and regressive taxation	Group Discussion, Chart, Problem Solving	
15		Shifting of tax burden: Impact and incidence of taxation	Group Discussion	
16		Cost Conditions	Group Discussion, Chart, Problem Solving	
17		factors influencing incidence of taxation	Group Discussion, Question Answer	PPT
18		Redistributive and Anti – Inflationary nature of taxation and their implications	Group Discussion, Question Answer	PPT
19		Public Expenditure: Canons	Group Discussion, Question	
20		Public Expenditure: Classification	Group Discussion, Question Answer	
21		Economic effects of public spending - on production, consumption, distribution, employment and stabilization -	Group Discussion, Question Answer	
22		Theories of Public Expenditure: Wagner's Hypothesis	Group Discussion, Question Answer	



23	Unit-III-Public Expenditure and Debt	Theories of Public Expenditure: Wiseman Peacock Hypothesis -	Group Discussion, Question Answer	
24		- Causes for Public Expenditure Growth	Group Discussion, Question Answer	
25		- Significance of Public Expenditure	Group Discussion, Question Answer	
26		Social Insurance Programmes.	Group Discussion, Question Answer	
27		Public Debt : Classification	Group Discussion, Question Answer	
28		Burden of Debt Finance: Internal and External-	Group Discussion, Question Answer	
29		Public Debt and Fiscal Solvency	Group Discussion, Question Answer	
30	Unit-IV:Fiscal policy and Management	Fiscal Policy: Meaning, Objectives	Group Discussion, Question Answer	
31		Fiscal Policy: constituents	Group Discussion, Question Answer	
32		Fiscal Policy: Limitations	Group Discussion, Question Answer	
33		Contra cyclical Fiscal Policy and Discretionary Fiscal Policy	Group Discussion, Question Answer	
34		Principles of Sound Finance	Group Discussion, Question Answer	
35		Principles of Functional Finance	Group Discussion, Question Answer	
36		Budget- Meaning ,objectives	Group Discussion, Question Answer	
37		Budget- Types	Group Discussion, Question Answer	
38		- Structure of Union budget	Group Discussion, Question Answer	



39	Budget Deficit: Meaning, Types of Budget Deficit	Group Discussion, Question Answer	
40	Measures to correct budget deficit	Group Discussion, Question Answer	
41	Intergovernmental Fiscal Relations : fiscal federalism	Group Discussion, Question Answer	
42	Fiscal decentralization - central state financial relation	Group Discussion, Question Answer	

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Teaching Plan for the Academic Year 2023-24
Term-I

NAME OF THE PROFESSOR: Asst.Prof.Sonam More

DEPARTMENT: Commerce

CLASS: SYBCOM

SEM: III

SUBJECT NAME: Business Economics

PAPER : _____

Lecture No.	Unit Name	Topic	Teaching Method	ICT Tools Used
1	Unit-I Overview of Macroeconomics	Macroeconomics: Meaning, Scope and Importance	Lecture Method	
2		Circular flow of aggregate income and expenditure and its Importance	Group Discussion, Question Answer	
3		Circular flow of aggregate income and expenditure in two sector closed economy	Group Discussion, Question Answer	
4		Circular flow of aggregate income and expenditure in three sector closed economy	Group Discussion, Question Answer	
5		Circular flow of aggregate income and expenditure in Four sector Open economy	Group Discussion, Question Answer	
6		Measurement of National Product: Meaning and Importance of National Income Accounting	Group Discussion, Question Answer	
		Methods of Measuring National Income: Product Method, Output Method, Expenditure Method	Group Discussion, Question Answer	
7		Concepts Related to National Income: GDPMP, GDPFC, NDPMP, NNDFC, NNPMP, NNPFC	Group Discussion, Question Answer	



8		Green GNP and NNP concepts - National Income and Economic Welfare.	Group Discussion, Problem Solvig	
9		Trade Cycles: Meaning and Features	Group Discussion, Question Answer	
10		Trade Cycles: Phases- Prosperity, Recession, Depression, Recovery	Group Discussion, Question Answer	
11		Classical Macro economics : Say's law of Markets - Features, Implications	Group Discussion, Question Answer	
12		Say's law of Markets - Criticism	Group Discussion, Question Answer	
13	Unit-II-Basic Concepts of Keynesian Economics	Principle of Effective Demand: Aggregate Demand and Aggregate Supply	Group Discussion, Question Answer	
14		Consumption Function: Properties	Group Discussion, Question Answer	
15		Consumption Function: Assumptions and Implications	Group Discussion, Question Answer	
16		Keynes Psychological Law of Consumption	Group Discussion, Question Answer	
17		Investment function and Marginal Efficiency of capital	Group Discussion	
18		Investment Multiplier effect on Income and Output: Assumptions, Working	Group Discussion	
19		Investment Multiplier effect on Income and Output: Leakages, Criticism and Importance	Group Discussion	
20		Relevance of Keynesian theory tools to the developing countries	Group Discussion, Question Answer	



21	Unit-III-Post Keynesian developments in Macro economics	IS Model: Equilibrium of Commodity Market	Group Discussion, Question Answer	
22		LM Model: Equilibrium of Factor Market	Group Discussion	
23		Equilibrium of IS and LM	Group Discussion, Question Answer	
24		Shifts in IS and LM Curve	Group Discussion	
25		Trade-off between Inflation and unemployment : Philips curve	Group Discussion, Question Answer	
26		Long-run Philips curve	Group Discussion	
27		Stagflation : meaning, causes	Group Discussion, Question Answer	
28		Stagflation : consequences	Group Discussion, Question Answer	
29		Supply side economics : Basic propositions	Group Discussion	
30		Supply side economics : critical appraisal	Group Discussion	
31		Money Supply: Determinants of Money Supply	Group Discussion, Question Answer	You-tube
32		Factors influencing Velocity of Circulation of Money	Group Discussion, Question Answer	
33		Demand for Money : Classical and Keynesian approaches	Group Discussion	
34		Keynes' liquidity preference theory of interest -	Group Discussion	You-tube
35		Friedman's restatement of Demand for money	Group Discussion, Question	



36	Unit-IV-Money, Prices and Inflation	Money and prices : Quantity theory of money	Group Discussion	
37		Fisher's equation of exchange	Group Discussion	
38		Cambridge cash balance approach	Group Discussion	
39		Inflation : Demand Pull Inflation: Meaning and Causes	Group Discussion, Question Answer	
40		Cost Push Inflation -Meaning and Causes	Group Discussion, Question Answer	
41		Effects of Inflation	Group Discussion	
42		Nature of inflation in a developing economy -	Group Discussion	
43		Policy measures to curb inflation- monetary policy	Group Discussion	
44		Liquidity measures to curb inflation	Group Discussion	
45		Inflation targeting	Group Discussion, Question Answer	

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(Affiliated to Mumbai University)
Teaching Plan for the Academic Year 2023-24
Term-II

NAME OF THE PROFESSOR: Asst.Prof.Sonam More

DEPARTMENT: Commerce

CLASS: SYBAF

SEM: IV

SUBJECT NAME: Research Methodology in Accountancy and Finance

PAPER : _____

Lecture No.	Unit Name	Topic	Teaching Method	ICT Tools Used
1	Unit I: Introduction to Research	Introduction and Meaning of Research , Objective of Research	Group Discussion, Question Answer	You-tube
2		Features of Research in accounting and finance	Group Discussion, Question Answer	You-tube
3		Importance of Research in Accounting and Finance	Group Discussion, Question Answer	You-tube
4		Types of Research: 1) Basic Reserach 2) Applied Research 3) Analytical Research 4) Descriptive Research 6) Qualitative Research	Group Discussion, Question Answer	You-tube
5		Stages in Research Process: 1) Selection of Research Problem 2) Review of Literature 3) Formulation of Hypothesis 4) Research design 5) Designing the Questionnaire	Group Discussion, Question Answer	You-tube
6		Stages in Research Process: 1) Sampling design 2) Collection of data 3) Processing of data 4) Data analysis and data interpretation 5) Hypothesis testing	Group Discussion, Question Answer	You-tube
7		Factors Influencing Selection of Research Problem: Internal Factors	Group Discussion, Question Answer	
8		Factors Influencing Selection of Research Problem: External Factors	Group Discussion, Question Answer	



9		Steps in Formulation of Research Problem: Meaning and Selection	Group Discussion, Question Answer	
10		Sources of Research Problem: 1) Research Guide 2) Reading 3) Academic Sessions 4) Brainstorming Sessions	Group Discussion, Question Answer	
11		Review of Literature: Meaning and Importance of Literature Review	Group Discussion, Question Answer	
12		Review of Literature: Steps in Review of Literature	Group Discussion, Question Answer	
13	Unit II: Research Design in Accounting and Finance	Meaning and Introduction of Research Design , Need of Research Design	Group Discussion, Question Answer	
14		Essentials of a good research design	Group Discussion, Question Answer	
15		Steps in Research Design	Group Discussion, Question Answer, Problem Solving	
16		Types of Research Design: Exploratory Research: Uses and Methods of Exploratory Research	Group Discussion, Question Answer	
17		Types of Research Design: Descriptive Research: Types of Descriptive Research	Group Discussion, Question Answer	
18		Hypothesis: Meaning and Nature of Hypothesis	Group Discussion, Question Answer	
19		Hypothesis: Sources of Hypothesis	Group Discussion, Question Answer	
20		Steps in Formulation of Hypothesis: Sources and Importance	Group Discussion, Question Answer	
21		Hypothesis: Importance of Hypothesis	Group Discussion, Question Answer, Problem Solving	
22		Hypothesis: Types of Hypothesis: 1) On the basis of Level of Abstraction	Group Discussion, Question Answer	
23		Hypothesis: Types of Hypothesis: 1) On the basis of Level of Functions 2) On the basis of nature of hypothesis	Group Discussion, Question Answer	



24	Unit III: Data Collection and Processing	Data Collection: Introduction and Meaning, Types	Group Discussion, Question Answer, Chart, Case Studies	
25		Primary Data: Sources of Primary Data 1) Observation 2) Experimentation 3) Interview 4) Schedules 5) Survey 6) Questionnaires	Group Discussion, Question Answer, Chart, Case Studies	
26		Limitations of Primary Data	Group Discussion, Question Answer	
27		Secondary Data: Sources of Secondary Data	Group Discussion, Question Answer,	
28		Secondary Data: Limitations of Primary Data	Group Discussion, Question Answer	
29		Factors Affecting the Choice of Method of Data Collection	Group Discussion, Question Answer	
30		Sampling: Significance and Methods of Sampling	Group Discussion, Question Answer	
31		Sampling: Factors determining sample size	Group Discussion, Question Answer	
32		Data Presentation: Significance in Research	Group Discussion, Question Answer	
33		Data Presentation: Stages in Data Processing	Group Discussion, Question Answer	
34		Coding, Classification, Tabulation, Graphic Presentation	Group Discussion, Question Answer	PPT, You-tube
35		Statistical Analysis: Tools and Techniques	Group Discussion, Question Answer	PPT, You-tube
36		Measures of Central Tendency: Meaning and Importance of Central Tendency	Group Discussion, Question Answer, Chart, Problem Solving	



37	Measure of Central Tendency: Mean 1) Aithmetic Mean , Meaning and Method of Aithmethic Means Direct Method Short-Cut Method	Group Discussion, Question Answer, Chart, Problem Solving	
38	Calculation of Airthmetic Mean: Direct Method Short-Cut Method	Group Discussion, Question Answer, Chart, Problem Solving	
39	Median : Calculation of Median	Group Discussion, Question Answer, Chart, Problem Solving	PPT
40	Mode : Calculation of Mode	Group Discussion, Question Answer, Chart, Problem Solving	PPT
41	Measures of Dispersion	Group Discussion, Question Answer, Chart, Problem Solving	PPT, You-tube
42	Correlation Analysis	Group Discussion, Question Answer, Chart, Problem Solving	PPT
43	Regresion Analysis	Group Discussion, Question Answer, Chart, Problem Solving	PPT
44	Use of Computer and Internet in data collection and processing	Group Discussion, Question Answer	PPT
45	Meaning and techniques of interpretation : 1) Induction Method , Essentials Conditions	Group Discussion, Question Answer	
46	1) Induction Method : Types of Induction, Merits and Demerits	Group Discussion, Question Answer	
47	2) Deduction Method : Essential Conditions, Merits and Demerits	Group Discussion, Question Answer	



48	Unit IV: Interpretation and Report Writing	Reserach Report Writing: Importance: 1) Up-to-date information 2) Planning 3) Solves Problem 4) Feedback to employees 5) Coordination	Group Discussion, Question Answer	
49		Reserach Report Writing: Importance: 1) Approval of Research Report 2) Reference 3) Legal Action 4) Tool of Communication	Group Discussion, Question Answer	
50		Essentails of Report Writing: 1) Informative 2) Clarity 3) Concise 4) Accuracy 5) Reliability	Group Discussion, Question Answer	
51		Essentails of Report Writing: 1) Objectivity 2) Logical Arrangement 3) Secrecy 4) Timely Submission of Reports 5) References 6) Interpersonal Style	Group Discussion, Question Answer	
52		Structure of Report Writing: 1) Title of the Report 2) Letter of Authorization 3) Letter of Transmittal 4) Table of Contents	Group Discussion, Question Answer	
53		Types of Report Writing: 1) Technical Report 2) Popular Report 3) Interim Report 4) Summary of Report 5) Research Abstract	Group Discussion, Question Answer	

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Arts, Commerce and Science College, Khardi
 Tal.Shahapur. Dist.Thane
 (Affiliated to Mumbai University)
Teaching Plan for the Academic Year 2023-24
Term-II

NAME OF THE PROFESSOR: Asst.Prof.Sonam More

DEPARTMENT: Commerce

CLASS: SYBAF

SEM: III

SUBJECT NAME: Business Economics-II **PAPER :** _____

Lecture No.	Unit Name	Topic	Teaching Method	ICT Tools Used
1	Unit I: Overview of Macroeconomics	Macroeconomics: Meaning, Scope and Importance	Lecture Method	PPT, You-tube
2		Circular Flow of Income: Feature Importance Circular Flow of Income in Two Sector Closed Economy	Lecture Method	PPT, You-tube
3		Circular Flow of Income in Three Sector Closed Economy Circular Flow of Income in Four Sector Open Economy	Lecture Method	
4		Measurement of National Income: Meaning, Importance of National Income Accounting	Group Discussion, Chart, Question Answer	
5		National Income Related Concepts: GDP, GNP, NNP, NDP, Per Capita Income, Green GNP and GDP	Group Discussion, Question Answer, Chart, Problem Solving	
6		Trade Cycle: Meaning and Phases	Lecture Method	
7		Classical Macroeconomics: Say's Law of Market: Features, Implications and Criticisms	Lecture Method	
8		Money Supply: Determinants of Money Supply, Factors Influencing Velocity of Circulation of Money	Lecture Method	



9	Unit II: Money, Prices and Inflation	Demand For Money: Meaning, Classical and Keynesian approaches, Keynes Liquidity Preference Theory of Interest	Lecture Method	
10		Money and Prices: Quantity Theory of Money Fishers equation of exchange	Lecture Method	
11		Inflation: Meaning, Features, Effects	Group Discussion, Question Answer, Chart, Case Studies	
12		Inflation: Demand Pull Inflation- Meaning, Causes	Group Discussion, Question Answer, Chart, Case Studies	
13		Inflation: Cost Push Inflation- Meaning, Causes	Group Discussion, Question Answer, Chart, Case Studies	
14		Monetary Measures to Control Inflation 1) Bank Rate 2) CRR 3) SLR 4) Open Market Operations	Group Discussion, Question Answer, Chart	
15		Public Finance: Meaning and Scope i) Functional Finance ii) Fiscal Finance	Group Discussion, Question Answer	
16		Major Fiscal Functions:- Allocation Function, Distribution Function, Stabilization Function	Group Discussion, Question Answer	
17		Principal of Maximum Social Advantage: Dalton and Musgrave Views	Group Discussion, Question Answer	
18		Relation Between Efficiency, Market Failure and Causes of Market Failure	Group Discussion, Question Answer	
19		The concept of Public goods and role of government	Group Discussion, Question Answer	
20		Public Revenue: Meaning, Objectives, Sources of Public Revenue	Group Discussion, Question Answer	



21	Unit III: Introduction to Public Finance	Sources of Revenue 1) Tax Revenue Objective of Taxation Direct Tax : Merits and Demerits of Direct Tax	Group Discussion, Question Answer	
22		Non-Tax Revenue : Fees, Penalties Administration Charges	Group Discussion, Question Answer	
23		Tax Base and types of tax rates : 1) Progressive taxation 2) Proportional taxation 3) regressive taxation 4) degressive taxation	Group Discussion, Question Answer, Chart, Problem Solving	PPT
24		Shifting of Taxation Economic Effects of Taxation	Group Discussion, Question Answer	PPT
25		Public Expenditure : Canons of Taxation, Economic Effects of Taxation	Group Discussion, Question Answer	PPT
26		Theories of Public Expenditure Causes of Growth of Public Expenditure	Group Discussion, Question Answer	PPT
27		Significance of Public Expenditure : Social Security Contributions-low income support and social insurance programmes	Group Discussion, Question Answer	PPT
28		Classification : Burden of Debt Finance Internal and External Public Debt and Fiscal Solvency	Group Discussion, Question Answer	PPT
29	Unit IV: Fiscal Management and Financial Administration	Fiscal Policy : Meaning, Objectives, Constituents and Limitations	Group Discussion, Question Answer	PPT
30		Types of Fiscal Policy : 1) Contra Cyclical Fiscal Policy 2) Discretionary Fiscal Policy	Group Discussion, Question Answer	
31		Principles of Sound and Functional Finance	Group Discussion, Question Answer	
32		Budget : Meaning, Objectives and Types	Group Discussion, Question Answer, Debate Competition	You-tube
33		Types of Deficit : 1) Fiscal Deficit 2) Primary Deficit 3) Revenue Deficit 4) Revenue Deficit	Group Discussion, Question Answer	



34	Fiscal Responsibility and Budget Management Act, 2003	Group Discussion, Question Answer	
35	Intergovernmental Fiscal Relations: Fiscal Federalism and Fiscal Decentralisation	Group Discussion, Question Answer	
36	14th Finance Commission	Group Discussion, Question Answer	

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Teaching Plan for the Academic Year 2023-24
Term-II

DEPARTMENT: Commerce
CLASS: MCOM PART-I
SUBJECT NAME: Research Methodology in Commerce and Management
SEM: I
PAPER

Lecture No.	Unit Name	Topic	Teaching Method	ICT Tools Used
1	Unit-I: Introduction to Research	Meaning of Research , Need and Importance of Research in Social Sciences	Group Discussion, Question Answer	
2		Nature and Features of Research	Group Discussion, Question Answer	
3		Objective of Research	Group Discussion, Question Answer	
4		Types of Research: 1) Basic Research 2) Applied Research 3) Analytical Research 4) Descriptive Research 6) Qualitative Research 6) Quantitative Research	Group Discussion, Question Answer	You-tube
5		Stages in Research Process: 1) Selection of Research Problem 2) Review of Literature 3) Formulation of Hypothesis 4) Research design 5) Designing the Questionnaire	Group Discussion, Question Answer	
6		Selection of Research Problem	Group Discussion, Question Answer	
7		Research Design: Meaning Essentials of a Good Research Design	Group Discussion, Question Answer	
8		Significance of Research Design Steps in Research Design	Group Discussion, Question Answer	
9		Types of Research Design	Group Discussion, Question Answer	



10		Review of Literature: Meaning and Importance of Literature Review	Group Discussion, Question Answer	
11		Steps in Formulation of Hypothesis: Sources and Importance	Group Discussion, Question Answer	
12		Hypothesis: Types of Hypothesis: 1) On the basis of Level of Functions 2) On the basis of nature of hypothesis	Group Discussion, Question Answer	
13		Significance of Sampling Essential of a good Sampling	Group Discussion, Question Answer	
14		Methods of Sampling: 1)Probability Methods 2)Non-probability Methods	Group Discussion, Question Answer	
15		Stages in Sampling Design	Group Discussion,	
16	Unit-II: Research Process	Stages in Research Process: 1)Selection of Research Problem 2) Review of Literature 3)Formulation of Hypothesis 4) Research design 5) Designing the Questionnaire	Group Discussion, Question Answer	
17		Data Collection: Introduction and Meaning, Types	Group Discussion, Question Answer	
18		Primary Data: Sources of Primary Data 1)Observation 2) Experimentation 3) Interview 4)Schedules 5)Survey6) Questionnaires	Group Discussion, Question Answer	
19		Primary Data: Significance and limitations	Group Discussion, Question Answer	
20		Secondary Data: Significance and Limitations	Group Discussion, Question Answer	
21		Secondary Data: Sources of Secondary Data	Group Discussion, Question Answer	
22		Questionnaire: Types and Steps	Group Discussion, Question Answer	
23		Questionnaire: Essentials of a good questionnaire	Group Discussion, Question Answer	



24	Unit-III: Data Processing and Statistical Analysis	Data Processing: Significance in Research Data Stages in Data Processing	Group Discussion, Question Answer	
25		Coding, Classification, Tabulation, Graphic Presentation	Group Discussion, Question Answer	You-tube
26		Measures of Central Tendency: Meaning and Importance of Central Tendency	Group Discussion, Question Answer, Chart, Problem Solving	
27		Mean 1) Aithmetic Mean , Meaning and Method of Aithmethic Means Direct Method Short-Cut Method	Group Discussion, Question Answer, Chart, Problem Solving	You-tube
28		Calculation of Airthmetic Mean: Direct Method Short-Cut Method	Group Discussion, Question Answer, Chart, Problem Solving	You-tube
29		Median : Calculation of Median	Group Discussion, Question Answer, Chart, Problem Solving	You-tube
30		Mode : Calculation of Mode	Group Discussion, Question Answer, Chart, Problem Solving	You-tube
31		Measures of Dispersion	Group Discussion, Question Answer, Chart, Problem Solving	You-tube
32		Correlation Analysis	Group Discussion, Question Answer, Chart, Problem Solving	You-tube
33		Regresion Analysis	Group Discussion, Question Answer, Chart, Problem Solving	You-tube
34		Testing of Hypothesis	Group Discussion, Question Answer, Chart, Problem Solving	



35		Meaning and techniques of interpretation : 1) Induction Method , Essentials Conditions	Group Discussion, Question Answer, Debate Competition	
36		1) Induction Method: Types of Induction, Merits and Demerits	Group Discussion, Question Answer	
37		2) Deduction Method: Essential Conditions, Merits and Demerits	Group Discussion, Question Answer	
38	Unit-IV: Research Reporting and Modern Practices in Research	Reserach Report Writing: Importance:1) Up-to-date information 2) Planning 3) Solves Problem 4) Feedback to employees 5) Coordination	Group Discussion, Question Answer	
39		Essentials of Report Writing	Group Discussion, Question Answer	
40		Structure of Report Writing: 1) Title of the Report 2) Letter of Authorization 3) Letter of Transmittal 4) Table of Contents	Group Discussion, Question Answer	
41		Types of Report Writing: 1) Technical Report 2) Popular Report 3) Interim Report 4) Summary of Report 5) Research Abstract	Group Discussion, Question Answer	

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Teaching Plan for the Academic Year 2023-24
Term-II

NAME OF THE PROFESSOR: Asst.Prof.Sonam More

DEPARTMENT: Commerce

CLASS: FYBCOM

SEM: II

SUBJECT NAME: Foundation Course-II **PAPER :** _____

Lecture No.	Unit Name	Topic	Teaching Method	ICT Tools Used
1	Unit I: Globalisation and Indian Society	Understanding the Concept of Liberalisation: Meaning and Measures	Group Discussion, Question Answer	
2		Understanding the Concept of Privatisation: Meaning and Elements	Group Discussion, Question Answer	
3		Understanding the Concept of Globalisation: Meaning and Positive and Negative Impact of Globalisation on Indian Economy	Group Discussion, Question Answer	PPT
4		Impact of Globalisation on Industry: Positive and Negative	Group Discussion, Question Answer	PPT
5		Migration: Meaning, Types and Causes	Group Discussion, Question Answer	PPT
6		Changes in Agrarian Sector due to globalisation	Group Discussion, Question Answer	PPT
7		Corporate Farming: Arguments against and in favour of corporate farming	Group Discussion, Question Answer	PPT
8		Concept of Human Right	Group Discussion, Question Answer	
9		Origin of Human Right	Group Discussion, Question Answer	



10	Unit II: Human Rights	Developmet of Human rights	Group Discussion, Question Answer	
11		Characteristics of Human Rights	Group Discussion, Question Answer	
12		Universal declaration of human rights	Group Discussion, Question Answer	
13		Fundamental Rights of Human	Group Discussion, Question Answer	
14		Rights of Information	Group Discussion, Question Answer	
15		Rights of Equality	Group Discussion, Question Answer	
16	Unit III: Ecology	Concept of Environment: Elements of Environment	Group Discussion, Question Answer	
17		Ecosystem: Meaning and Nature of Ecosystem	Group Discussion, Question Answer	
18		Types of Ecology	Group Discussion, Question Answer	
19		Environmental Degradation: Meaning and Types of Environmental Degradation	Group Discussion, Question Answer	You-tube
20		Environmental Degradation: Causes	Group Discussion, Question Answer	You-tube
21		Environmental Degradation: Impact on Human Life	Group Discussion, Question Answer	You-tube
22		Sustainable Development: Meaning and Components	Group Discussion, Question Answer	You-tube



38		Methods of Responding to Conflicts	Group Discussion, Question Answer	
39		Conflict Resolution	Group Discussion, Question Answer	

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Teaching Plan for the Academic Year 2023-24
Term-I

NAME OF THE PROFESSOR: Asst.Prof.Sonam More

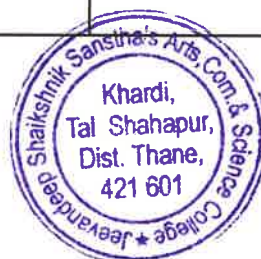
DEPARTMENT: Commerce

CLASS: FYBCOM

SEM: I

SUBJECT NAME: Foundation Course-I **PAPER :** _____

Lecture No.	Unit Name	Topic	Teaching Method	ICT Tools Used
1	Unit I: Overview of Indian Society	Multi-cultural Nature of Indian Society Demographic Features of Indian Society	Group Discussion, Chart, Question Answer	
2		Linguistic diversity in relation to Indian Situation	Group Discussion, Chart, Question Answer	
3		Regional Variations in relation to rural, urban and tribal characteristics	Group Discussion, Chart, Question Answer	
4		Understand the concept of diversity as difference	Group Discussion, Chart, Question Answer	
5	Unit II: Concept of Diversity-I	Concept of disparity arising out of stratification and inequality	Group Discussion, Question Answer	You-tube, PPT
6		Gender Disparity , Violence against Women	Group Discussion, Question Answer	
7		Causes of Declining Sex Ratio	Group Discussion, Question Answer	
8		Physical Disability: Causes of Physical Disability Problems of Physical Disability	Group Discussion, Question Answer	
9		Inequalities due to caste system	Group Discussion, Question Answer	
10		Understand inter-group conflict arising out of communalism	Group Discussion, Question Answer	



11		Regionalism:-Causes of conflicts arising from Regionalism	Group Discussion, Question Answer	
12		Causes and Effects of conflicts arising out of linguistics differences	Group Discussion, Question Answer	PPT
	Unit-III: Concept of Disparity -II	Inequalities manifested due to the caste system	Group Discussion, Question Answer	
		Inter-group conflicts	Group Discussion, Question Answer	
		Understand inter-group conflicts arising out of communalism	Group Discussion, Question Answer	
		Causes and effects of conflicts arising out of regionalism	Group Discussion, Question Answer	
13		Linguistic differences	Group Discussion, Question Answer	
14		Structure of Indian Constitution:-Preamble, Main Body and Schedule	Group Discussion, Question Answer	
15	Unit IV: Indian Constitution	Fundamental Duties of the Indian Citizen	Group Discussion, Question Answer	
16		Basic Features of the Indian Constitution	Group Discussion, Question Answer	
17		Rights in the Indian Constitution	Group Discussion, Question Answer	
18	Unit V: Significant Aspect of Political	Party System in Indian Politics	Group Discussion, Question Answer	
19		Local Self government in urban and rural areas	Group Discussion, Question Answer	



20	Processes	73rd and 74th Amendments and their implications for Inclusive politics	Group Discussion, Question Answer	
21		Role and importance of women in politics	Group Discussion, Question Answer	

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Teaching Plan for the Academic Year 2023-24
Term-I

NAME OF THE PROFESSOR: Asst.Prof.Sonam More

DEPARTMENT: Commerce

CLASS: FYBCOM

SEM: I

SUBJECT NAME: Business Economics

PAPER : _____

Lecture No.	Unit Name	Topic	Teaching Method	ICT Tools Used
1	Unit-I: Introduction to Business Economics	Scope and Importance of Business Economics	Group Discussion	
1		Opportunity cost, Incremental and Marginal Concept	Group Discussion, Chart, Problem Solving, Case Study	
3		Basic economic relations: Total, Average and Marginal	Group Discussion, Problem Solving	You-tube
4		Basic Tools: Functions, graphs, equations, slope	Group Discussion, Problem Solving, Charts, Models	You-tube
5		Market Demand: Meaning, Types of Demand	Group Discussion	You-tube
6		Law of Demand: Assumptions and Exceptions	Group Discussion	You-tube
7		Demand: Shifts and changes in demand curve	Group Discussion	You-tube
8		Market Supply: Meaning and Types	Group Discussion	You-tube
9		Law of Supply: Assumptions and Exceptions	Group Discussion	You-tube
10		Supply: Shifts and changes in supply curve	Group Discussion, Case Study	
11		Nature of Demand Curve under Different Markets	Group Discussion, Question Answer	



12	Unit-II: Demand Analysis	Elasticity of Demand: Meaning and Types	Group Discussion, Question Answer	
13		Elasticity of Demand: Significance	Question Answer, Chart, group discussion	
14		Measurement of Elasticity of Demand: Price Elasticity of Demand	Question Answer Chart, Problem Solving	
15		Measurement of Elasticity of Demand: Income Elasticity of Demand	Question Answer Chart, Problem Solving	
15		Degrees of Elasticity of Demand	Question Answer	
16		Relation between elasticity of demand and revenue	Chart, Problem Solving	
17		Demand Forecasting: Meaning and Significance	Question Answer	You-tube
18		Method of Demand Forecasting: Survey Method	Question Answer Chart, Problem Solving	You-tube
19		Method of Demand Forecasting: Statistical Method	Question Answer Chart, Problem Solving	You-tube
20		Production Function: Meaning and Types	Question Answer Chart	You-tube
21		Law of Variable Proportions	Question Answer Chart	
22		Production function with two variable inputs	Question Answer Chart, Problem Solving	
23		Iso-quant: Meaning, types and Properties	Question Answer	
24		Ridge Lines	Question Answer Chart	
25		Long-run production function	Chart, Problem Solving	
26		Laws of Returns to Scale	Chart, Problem Solving	
27		Expansion Path	Question Answer Chart, Problem Solving	



28	Unit-III: Supply and Production Decision	Economies of Scale: Meaning and Types	Question Answer, Chart	
		Diseconomies of Scale: Meaning and Types	Question Answer Chart, Problem	
31	Unit-IV: Cost of Production	Types of Cost	Group Discussion, Question Answer	
32		Relationship between fixed, variable, average and total	Question Answer	
33		Cost-output relationship in the short run	Question Answer	
34		Cost-output relationship in the long run	Question Answer	
35		Long run Average Cost	Question Answer	
36		Learning Curve	Question Answer	
37		Break-even Analysis: Meaning and Uses	Chart, Problem Solving	
38		Break-even Analysis: Limitations	Group Discussion, Question Answer	

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Teaching Plan for the Academic Year 2023-24
Term-II

NAME OF THE PROFESSOR: Asst.Prof.Sonam More

DEPARTMENT: Commerce

CLASS: FYBCOM

SEM: II

SUBJECT NAME: Business Economics-II **PAPER :** _____

Lecture No.	Unit Name	Topic	Teaching Method	ICT Tools Used
1	Unit I:Market Structure	Types of Markets 1) Perfect Competition 2) Monopoly 3) Monopolistic Competition 4)	Group Discussion	PPT
2		Perfect Competition: Meaning of Perfect Competition Features of Perfect Competition 1) No. of Buyers	Group Discussion, Question Answer	PPT
3		Perfect Competition: Profit Maximization Behaviour of Price, TR, AR, and MR	Group Discussion, Problem Solving	
4		Perfect Competition: Short-run Equilibrium under Perfect Competition	Group Discussion, Problem Solving	
5		Perfect Competition: Long-run Equilibrium under Perfect Competition	Group Discussion, Problem Solving	
6		Monopoly: Meaning of Monopoly Features of Monopoly 1) Single Seller 2)	Group Discussion, Question Answer	You-tube, PPT
7		Monopoly: Sources of Monopoly	Group Discussion, Question Answer	You-tube, PPT
8		Monopoly: Short-run equilibrium of a firm under monopoly	Group Discussion, Problem Solving	



9		Monopoly: Long-run equilibrium of a firm under monopoly	Group Discussion, Problem Solving	
10		Differentiate between monopoly and perfect competition		
11	Unit II:Imperfect Competition	Monopolistic Competition: Features	Group Discussion, Question Answer	You-tube, PPT
12		Selling Cost:Effects of Selling Cost	Group Discussion, Question Answer	
13		Advertising:Arguments against and in favour of advertising	Group Discussion, Question Answer	
14		Long-run Equilibrium of a firm under monopolistic competition	Group Discussion, Question Answer	
15		Short-run Equilibrium of a firm under monopolistic competition	Group Discussion, Question Answer	
16		Oligopolistic Market:Meaning and Features	Group Discussion, Question Answer	You-tube, PPT
17		Oligopolistic Market: Collusive and Non-Collusive Oligopoly	Group Discussion, Question Answer	
18		Oligopolistic Market: Price Rigidity Model of Collusive Oligopoly	Group Discussion, Question Answer	
19		Oligopolistic Market: Cartels and Price Leadership Model	Group Discussion, Case Study	You-tube, PPT
20		Cost Plus Pricing	Group Discussion, Question Answer	
21		Marginal Cost Pricing		



22	Unit III:Pricing Practices	Mark up Pricing	Group Discussion, Question Answer, Problem solving	
23		Discriminating pricing	Group Discussion, Question Answer, Problem solving	
24		Multiple product pricing	Group Discussion, Question Answer	
25	Unit IV:Evaluating Capital Project:	Meaning and Importance of Capital Budgeting	Group Discussion, Question Answer	
26		Steps in Capital Budgeting		
27		Techniques of Investment Appraisal: Payback Period Method	Question Answer Chart, Problem Solving	
28		Techniques of Investment Appraisal: Net Present Value	Question Answer Chart, Problem Solving	
29		Techniques of Investment Appraisal: Internal Rate of Return	Question Answer Chart, Problem Solving	

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