



MVP Samaj's
K. P. G. Arts Commerce and Science College Igatpuri
Department of Physics
Teaching Plan 2024-25

Name of the Teacher: Mr. G. W. Gangurde

SEMESTER: I

Subject Code: PHY-101-T

Lecture: 30

Class: F.Y.B.Sc.

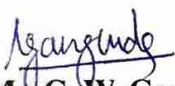
Name of the Paper: Fundamentals of Physics-I

Credits: 02


Month	Syllabus (Topics) to be completed as per University circular	No of lectures pre-scribed	Syllabus (Topics) completed in the class room	No of lectures taken	Method of teaching used
June			Admission Process		
July	Module - 01 Rotational Dynamics	10H	1.1 Torque, Angular Velocity and Angular Acceleration. (Revision) 1.2 Principle of Conservation of Angular Momentum. 1.3 Centre of Mass in uniformly distributed object. (Revision) 1.4 Statement of parallel axis and perpendicular axis theorem. 1.5 Moment of Inertia and Radius of gyration. 1.6 Calculation of moment of inertia for solid cylindrical, and spherical. 1.7 Kinetic Energy of Rotation 1.8 Rolling Motion on inclined plane 1.9 Moment of Inertia of a Flywheel	08H	Black Board
August	Module - 02 Fluid Mechanics	06H	i) Fluid Statics 2.1 Definition of a Fluid. 2.2 Pressure, Absolute Pressure and Gauge Pressure. (Revision) 2.3 Variation of Pressure with Depth. 2.4 Pascal's Laws (Statement)	08H	Black Board


			<p>2.5 Buoyancy and Archimedes Principle. (Statement)</p> <p>ii) Fluid Dynamics</p> <p>2.6 Equation of Continuity.</p> <p>2.7 Bernoulli's Theorem.(Statement)</p> <p>2.8 Application Based on Bernoulli's Equation: Torricelli's Theorem and Venturimeter.(only theory)</p> <p>2.9 Viscosity, Viscous force and Effect of Temperature. (Revision)</p> <p>2.10 Stokes' Law and Terminal Velocity.</p> <p>2.11 Surface Tension, Surface Energy and angle of contact. (Revision)</p> <p>2.12 Excess Pressure Inside liquid drop and Soap Bubble.</p> <p>2.13 Determination of Surface Tension by Jaeger's Method.</p>		
September	Module - 03 Atomic Spectra	08H	<p>3.1 Inadequacy of classical physics,</p> <p>3.2 Brief Review of Black body Radiation,</p> <p>3.3 Photoelectric effect, (Statement)</p> <p>3.4 Compton Effect, (Statement)</p> <p>3.5 Dual nature of radiation wave nature of particles,</p> <p>3.6 Atomic spectra,</p> <p>3.7 Line spectra of hydrogen atom,</p> <p>3.8 Ritz Rydberg combination principle, (only principle)</p> <p>3.9 Alpha Particle Scattering, (Review)</p> <p>3.10 Rutherford Scattering Formula, (Revision)</p> <p>3.11 Rutherford Model of atom and its limitations.</p>	06H	Black Board
October	Module - 04 Atomic Models	07H	<p>4.1 Bohr's Model of Hydrogen atom,</p> <p>4.2 Explanation of atomic spectra.</p>	06H	Black Board

			4.3 Correction for finite mass of the nucleus, (Revision) 4.4 Bohr correspondence principle, 4.5 Limitations of Bohr model, 4.6 Discrete energy exchange by atom, 4.7 Frank Hertz Experiment, 4.8 Sommerfeld's modification of Bohr's Theory (Review)		
November			Diwali Vacation		
December			University Exam		


Mr. G. W. Gangurde
HoD, Physics
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Mr. S. S. Pardeshi
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Dr. Kiran Rakibe
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MVP Samaj's
K. P. G. Arts Commerce and Science College Igatpuri
Department of Physics
Teaching Plan 2024-25

Name of the Teacher: Ms. M. V. Mankar

SEMESTER: III

Subject Code: PHY-232

Lecture: 36

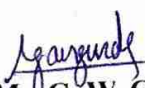
Class: S.Y.B.Sc.

Name of the Paper: Electronics-I


Credits: 02

Month	Syllabus (Topics) to be completed as per University circular	No of lectures pre-scribed	Syllabus (Topics) completed in the class room	No of lectures taken	Method of teaching used
June			Admission Process		
July	Module - 01 Network Theorem	6L	1.1 Krichhoff's Law 1.2 Voltage and current Divider Circuit 1.3 Thevenin's Theorem 1.4 Norton's Theorem 1.5 Superposition Theorem 1.6 Maximum Power transfer theorem (With proof)	06L	Black Board
August	Module - 02 Study of Transistors	12L	2.1 Bi-junction Transistor 1. Revision of bipolar Junction Transistor, Types, Symbol and basic action. 2. Configuration (Common Base, Common Emitter and Common Collector) 3. Current Gain Factors (α and β) and their relations 4. Input, Output and transfer Characteristic of CE Configuration 5. Biasing method and Voltage Divider 6. DC Load line (CE), Operating Point (Q- point) 7. Transistor as a switch 2.2 Uni-Junction Transistor 1. Symbol, Types, Construction, Working Principle, I-V 2. UJT as a relaxation Oscillator.	12L	Black Board

September	Module - 03 Operational Amplifiers and Application	12L	3.1 Operational Amplifiers 1. Introduction 2. Ideal and practical Characteristics 3. Operational Amplifier: IC741- Block Diagram and Pin diagram 4. Concept of Virtual Ground 5. Inverting and Non-inverting operational amplifiers with concept of gain 6. Operational amplifier as an adder and subtractor 7. Problems 3.2 Oscillators 1. Concept of Positive and negative feed back 2. Barkhausein Criteria for an oscillator 3. Construction, working and application of phase shift oscillator using IC741	12L	Black Board
October	Module - 04 Number System and Logic Gates	6L	1. Number System: Binary, Binary coded Decimal (BCD), Octal, Hexadecimal 2. Addition and Subtraction of binary numbers and binary fractions using one's and two's complement 3. Basic Logic gates (OR, AND, NOT) 4. Derived gates: NOR, NAND, EXOR, EXNOR, with symbols and truth table 5. Boolean Algebra 6. De Morgan's theorem and its verification 7. Problems	6L	Black Board
November			Diwali Vacation		


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M.V.P. Samaj's
K.P.G. Arts, Commerce and Science College, Igatpuri, Nashik
Teaching Plan (Year 2024-25)



Department: Mathematics
SEM- II

Class: F.Y.B.Sc.

Name of the Teacher: Mr. G. T. Sanap
Name of the Paper: OE-151 MTS
(Basic Mathematics-II)

Month	Syllabus to be completed as per University circular	No of lectures prescribed	Syllabus completed in the class room	No of lectures taken	Method of teaching used
Jan	Unit 2: Problems on Ages 2.1 Introduction to Linear Equations 2.2 Finding Age Some Years Ago, Present Age and Age Some Years hence	06	Unit 2: Problems on Ages 2.1 Introduction to Linear Equations 2.2 Finding Age Some Years Ago, Present Age and Age Some Years hence	06	Chalk-Board
Feb	Unit 3: Simple Interest and Compound Interest 3.1 Introduction to Simple Interest and Compound Interest 3.2 Finding Simple Interest 3.3 Finding Compound Interest Unit 4: Mensuration 4.1 Introduction to the Concept of Mensuration 4.2 Finding Area, Perimeter, and Some Basic Facts 4.3 Introduction to Solids and Cubes 4.4 Finding Surface Area and Volume	06 06	Unit 3: Simple Interest and Compound Interest 3.1 Introduction to Simple Interest and Compound Interest 3.2 Finding Simple Interest 3.3 Finding Compound Interest Unit 4: Mensuration 4.1 Introduction to the Concept of Mensuration 4.2 Finding Area, Perimeter, and Some Basic Facts 4.3 Introduction to Solids and Cubes 4.4 Finding Surface Area and Volume	06 06	Chalk-Board
Mar	Unit 1: Time, Work and Wages 1.1 Introduction to Time, Work and Wages 1.2 Finding Time and Amount of Work 1.3 Finding Speed, Distance and Time 1.4 Finding Speed of Boats and Stream	12	Unit 1: Time, Work and Wages 1.1 Introduction to Time, Work and Wages 1.2 Finding Time and Amount of Work	08	Chalk-Board
Apr	-----		1.3 Finding Speed, Distance and Time 1.4 Finding Speed of Boats and Stream	04	Chalk-Board

Mr. G. T. Sanap
Subject Teacher

Mr. S. S. Pardeshi
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Maratha Vidya Prasarak Samaj's
K.P.G. Arts, Commerce and Science College, Igatpuri
Affiliated to Savitribai Phule Pune University, Pune
NAAC reaccredited 'B' Grade (CGPA: 2.52) ID NO. PU/NS/ASC/023/1982

Department of Botany

2024-25

Course Plans (Teaching Plan) S.Y.B.sc

Name of Teacher: Mr. D.S. Antapurkar

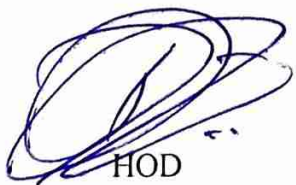
BO-231 Taxonomy of Angiosperm & Ecology

Sem- I


Month	Name of the Unit / Topic	Application of student's centric methods
July	Introduction to Angiosperms Taxonomy Definition, scope, objectives and importance of taxonomy Exploration, Description, Identification, Nomenclature and classification Concept of Systematics with brief historical background 2. Systems of classification Comparative account of various systems of classification Artificial system- Carl Linnaeus Natural system- Bentham and Hooker	Group Discussion Home Assignment Group Debate You Tube Session
August	Phylogenetic system- Engler and Prantl APG system- A brief review 3. Study of Plant Families Study of following families with reference to systematic position (As per Bentham and Hooker's system of classification), salient features, floral formula, floral diagram and any five examples with their economic importance – Annonaceae, Brassicaceae, Myrtaceae, Rubiaceae, Solanaceae, Apocynaceae, Nyctaginaceae and Amaryllidaceae Botanical Nomenclature Concept of nomenclature, brief history, Binomial nomenclature International Code for Nomenclature of Algae, Fungi and Plants (ICN)- Principles, Rules and Recommendations; 'Type' specimen and its types (Holotype, Paratype, Isotype, Lectotype, Neotype). Concept of Typification. Ranks and endings of taxa names, Coining of Genus and Species names Single, double and multiple authority citations	Group Discussion Home Assignment Group Debate You Tube Session

September	Introduction to ecology Definition, concept, scope, and interdisciplinary approach, autecology and synecology. Species diversity: definition, concept, scope, and types: Alpha, Beta and Gamma diversity. Methods of vegetation sampling: quadrat method, transect method, plot less method Genetic Diversity: definition, nature and origin of genetic variations Species Diversity: definition, origin of species diversity,	Power point Presentation Group Discussion Group Debate You Tube Session
October	diversity indices, species abundance Ecosystem Diversity: definition, major ecosystem types of the world, Hotspots in India – concept and basis of ‘hotspot’ identification. 6. Ecological grouping of the plants Ecological grouping of the plants with reference to their significance of adaptive external and internal features: a) Hydrophytes, b) Mesophytes c) Xerophytes d) Halophytes with examples	Power point Presentation Group Discussion Group Debate You Tube Session
November	Term end examination	


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Department of Botany

2024-25

course Plans (Teaching Plan)

Name of Teacher: Mr. D.S.Antapurkar
PLANT PHYSIOLOGY & METABOLISM (Sem- II)

BO-361-

T.Y.B.sc

Month	Name of the Unit / Topic	Application of student's centric methods
January	<p>Mineral nutrition: Classification of mineral elements, macro and micronutrients; Role of essential elements; Transport of ions across cell membrane, Ionophores , Carriers and Channels</p> <p>3. Photosynthesis: Mechanism of photosynthesis- Electromagnetic spectrum Ultra-Structure of Chloroplast, Organization of Light-Absorbing Antenna Systems, Light Reaction: (Cyclic and Non-cyclic photophosphorylation), Dark Reaction: Calvin–Benson Cycle, Photorespiration, C4 cycle and CAM pathway of carbon fixation).</p>	<p>Group Discussion Home Assignment Group Debate You Tube Session</p>
February	<p>aerobic respiration (Glycolysis, TCA cycle, Terminal oxidation and phosphorylation in respiratory chain); Pentose Phosphate Pathway.</p> <p>Stomatal Biology: Light-dependent Stomatal Opening, Mediation of Blue light Photoreception in Guard Cells by Zeaxanthin, Reversal of Blue Light– Stimulated Opening by Green Light, The Resolving Power of Photophysiology (Overview).</p>	<p>Group Discussion Home Assignment Group Debate You Tube Session</p>
March	<p>Translocation in phloem: Composition of phloem sap, girdling experiment; Pressure flow model.</p> <p>7. Plant growth regulators: Discovery and physiological roles of auxins, gibberellins, cytokinins, ABA, ethylene.</p> <p>8 Photomorphogenesis: Red and far red light responses on photomorphogenesis; Phytochrome (discovery and mode of action).</p>	<p>Power point Presentation Group Discussion Group Debate You Tube Session</p>

April	Term end examination	
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MVP Samaj's K.P.G. Arts Commerce, and Science College, Igatpuri
Academic Year 2024-2025

Name of the course: Practical in Human Geography
Sem:-II

Paper code: - 152- p

Name of Teacher: Mr. U.N. Sangale

Class:-F.Y.B.A.

Month	Week	Syllabus (Topics) completed in the class room	No of lectures taken	Total theory Lectures
December 2024	I	Chapter -1 population Indices 1. Age Sex Pyramid 2. Dependency ration 3. Infant Mortality Ration 4. Population growth rate	04	16
	II		04	
	III		04	
	IV		04	
January 2024	I	Chapter-2 Measures of Nucleation and 1. Dispersion of settlement 2. Rank size rule 3. Nearest neighbor analysis	04	20
	II		04	
	III		04	
	IV		04	
February 2024	I	Chapter -3 Agriculture 1. Crop Combination method Weaver's Method	04	08
	II		04	
	III		04	
	IV		04	
March 2024	I	Chapter -3 Agriculture 1. Crop Combination method Bhatia's Method	04	04
	II		04	
April 2024		Examination		

Faculty

HOD

Head
Department of Geography

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Igatpuri, Dist. Nashik

MVP Samaj's K.P.G. Arts Commerce, and Science College, Igatpuri
Academic Year 2024-2025

Name of the course: Practical in Geography of Tourism **Paper code: - OE 151- P -GEO**

Sem:-II

Name of Teacher: Mr. U.N. Sangale

Class:-F.Y.B.A.

Month		Syllabus (Topics) completed in the class room	No of lectures taken	Total theory Lecture
December 2024	Week	Chapter – 1 Introduction of tour tour planning 1. Meaning of tour planning 2. Elements of tour planning 3. Classification of tour planning individual family group and mass level 4. Importance of tour planning		16
	I		04	
	II		04	
	III		04	
	IV		04	
January 2024	I	Chapter- 2. Techniques of tour planning 1. Preparation of tour planning leaflet of tour planning passenger documentation insurance calculation currency exchange time exchange and calculation distance measurement 2. Tourist guide	04	20
	II		04	
	III		04	
	IV		04	
			04	
February 2024	I	Chapter- 2. Techniques of tour planning 3. Computer application for tour planning 4. Procedure of passport and Visa application 5. Booking and cancellation system transportation Air railway road and hospitality	04	04
	II			
	III			
	IV			
March 2024	I	Chapter -3. Planning and visit to tourist place 1. Preparation of One shot or long international national local tour plan	04	20
	II		04	
			04	
			04	
			04	
April 2024		Examination		

Faculty

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NAAC reaccredited 'B' Grade (CGPA: 2.52) ID NO. PU/NS/ASC/023/1982

Department of Hindi
Teaching Plan (2024-25)

Class- S.Y.B.A. (G-2) SEM-III Title of the Paper – हिंदी साहित्य और भाषा
Sub.Code-(23093)

Month	Topic	Theory	Total
June	प्रवेश प्रक्रिया (प्रथम, द्वितीय एवं तृतीय वर्ष)		
July	1. छात्रों को महाविद्यालय एवं विभाग की जानकारी देना.	04	08
	2. महाविद्यालय में स्थित विभिन्न गतिविधियों की जानकारी देना.	04	
	3. छात्रों में सकारात्मक दृष्टिकोण निर्माण करना		
August	1. छात्रों में विषय के प्रति रुचि निर्माण करना	03	05
	2. विषय की जानकारी देना (रोजगार तथा शैक्षिक उन्नति)	02	
	3. साहित्य की जानकारी देना (कहानी, नाटक, उपन्यास आदि)		
September	4. पाठ्यक्रम की जानकारी देना		05
	5. परीक्षा पद्धति तथा प्रश्न पत्र का अंक विभाजन		
	1. कहानी के तत्व (कथावस्तु, पात्र चरित्र-चित्रण, उद्देश्य आदि)	03	05
October	2. कहानी की समीक्षा (विषय से संबंधित विभिन्न जानकारी)	02	
	3. 14 सितम्बर "हिंदी दिन समारोह" (प्रतियोगिताओं का आयोजन-निबंध, काव्यवाचन घोषवाक्य)		
November	4. प्रमुख अतिथी का व्याख्यान (माहेश्वरी देवी)		07
	1. कहानी तथा कविता पर चर्चा (केंद्रीय संवेदना, पात्रों का चरित्र, विषय विवेचन, उद्देश्य आदि)	04	
	2. विगत वर्ष के प्रश्न पत्र का स्वरूप तथा अंक विभाजन पर चर्चा	03	
November	3. ससंदर्भ व्याख्या का विवेचन		
	4. टूटोरीअल का आयोजन		
	मीड टर्म परीक्षा		



December	1. द्वितीय सत्र का आयोजन तथा पाठ्यक्रम की जानकारी देना	03	05
	2. कहानी तथा कविता पर चर्चा करना	02	
	3. द्वितीय सत्र की गतीविधियों को समझाना	02	
January	1. कहानी की समीक्षा(विषय से संबंधित विभिन्न जानकारी)	03	05
	2. कविता पर साधारण विवेचन(शब्द, अर्थ, भावार्थ की जानकारी)	02	
	3. ससंदर्भ व्याख्या का विवेचन	02	
February	1. विगत पाठ्यक्रम पर टेस्ट का आयोजन एवं मूल्यांकन	03	05
	2. प्रथम सत्र की पाठ्यक्रम की जानकारी लेना चर्चा करना	02	
	3. महत्वपूर्ण तथ्यों पर लेखन कार्य		
	4. प्रश्नोत्तरी लेखन कार्य		
March	1. परीक्षा से संबंधित महत्वपूर्ण जानकारी प्रदान करना	03	05
	2. विगत पाठ्यक्रम पर चर्चा कर महत्वपूर्ण बिन्दुओं को समझाना	02	
	3. छात्रों को वार्षिकी परीक्षा के लिये मानसिक रूप से सक्षम बनाना.		
April	अंतिम सत्र परीक्षा	Total =	45

R. Zahed

Mr. M. I. Pardeshi

(Sub. Teacher)

R. Zahed

Mr. R. J. Bahot

(HoD)

Mr. S. S. Pardeshi

Mr. S. S. Pardeshi
Co-ordinator
(Co-ordinator, IQAC)

K.P.G. Arts, Com. & Sci. College
Igatpuri, Dist. Nashik.

Dr. Kiran Rakibe

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Department of Hindi
Teaching Plan (2024-25)


Class- S.Y.B.A. (G-2) SEM-IV
Sub.Code-(24093)


Title of the Paper – हिंदी साहित्य और भाषा


Month	Topic	Theory	Total
June	प्रवेश प्रक्रिया (प्रथम, द्वितीय एवं तृतीय वर्ष)		
July	1. छात्रों को महाविद्यालय एवं विभाग की जानकारी देना. 2. महाविद्यालय में स्थित विभिन्न गतिविधियों की जानकारी देना. 3. छात्रों में सकारात्मक दृष्टिकोण निर्माण करना	04 04	08
August	1. छात्रों में विषय के प्रति रुचि निर्माण करना 2. विषय की जानकारी देना (रोजगार तथा शैक्षिक उन्नति) 3. साहित्य की जानकारी देना (कहानी, नाटक, उपन्यास आदि) 4. पाठ्यक्रम की जानकारी देना 5. परीक्षा पद्धति तथा प्रश्न पत्र का अंक विभाजन	03 02	05
September	1. कहानी के तत्व (कथावस्तु, पात्र चरित्र-चित्रण, उद्देश्य आदि) 2. कहानी की समीक्षा (विषय से संबंधित विभिन्न जानकारी) 3. 14 सितम्बर "हिंदी दिन समारोह" (प्रतियोगिताओं का आयोजन-निबंध, काव्यवाचन घोषवाक्य) 4. प्रमुख अतिथी का व्याख्यान	03 02	05
October	1. कहानी तथा कविता पर चर्चा (केंद्रीय संवेदना, पात्रों का चरित्र, विषय विवेचन, उद्देश्य आदि) 2. विगत वर्ष के प्रश्न पत्र का स्वरूप तथा अंक विभाजन पर चर्चा 3. ससंदर्भ व्याख्या का विवेचन 4. टूटोरीअल का आयोजन	04 03	07
November	मीड टर्म परीक्षा	Total =	45




December	1. द्वितीय सत्र का आयोजन तथा पाठ्यक्रम की जानकारी देना	03	05
	2. कहानी तथा कविता पर चर्चा करना	02	
	3. द्वितीय सत्र की गतीविधियों को समझाना	02	
January	1. कहानी की समीक्षा(विषय से संबंधित विभिन्न जानकारी)	03	05
	2. कविता पर साभार विवेचन(शब्द, अर्थ, भावार्थ की जानकारी)	02	
	3. ससंदर्भ व्याख्या का विवेचन	02	
February	1. विगत पाठ्यक्रम पर टेस्ट का आयोजन एवं मूल्यांकन	03	05
	2. प्रथम सत्र की पाठ्यक्रम की जानकारी लेना चर्चा करना	02	
	3. महत्वपूर्ण तथ्यों पर लेखन कार्य		
	4. प्रश्नोत्तरी लेखन कार्य		
March	1. परीक्षा से संबंधित महत्वपूर्ण जानकारी प्रदान करना	03	05
	2. विगत पाठ्यक्रम पर चर्चा कर महत्वपूर्ण बिन्दुओं को समझाना	02	
	3. छात्रों को वार्षिकी परीक्षा के लिये मानसिक रूप से सक्षम बनाना.		
April	अंतिम सत्र परीक्षा	Total=	45


Mr. M. I. Pardeshi
(Sub. Teacher)


Mr. R. J. Bahot
(HoD)


Mr. S. S. Pardeshi
(Co-ordinator, IQAC)
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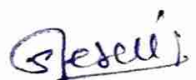

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M.V.P. SAMAJ'S
K.P.G. ARTS, COMMERCE & SCIENCE COLLEGE, IGATPURI
DEPARTMENT OF COMMERCE
Teaching Plan: Business Administration – III
CLASS – T.Y.BCOM

2024-25


Month	SEM V (356A) Particular	No. of Lectures
June-2024	Admission Process	-
Ju' -2024	Topic 1: - Introduction to Corporate Finance and Indian Financial System 1.1 Meaning, Features, Need, Importance of Corporate Finance, Finance Functions (Executive and Routine Functions) 1.2 Meaning, Objectives, Scope of Financial Management 1.3 Indian Financial Market – Meaning and Structure (Money Market & Capital Market) 1.4 Stock Exchange – Meaning, Features, Functions. 1.5 Bombay Stock Exchange, National Stock Exchange of India, Dematerialisation of Securities 1.6 Securities Exchange Board of India – Objectives, Powers and Functions 1.7 Credit Rating Agencies – Function/ Role and Advantages. Overview of Credit Rating Information Services of India Limited (CRISIL) Investment Information and Credit Rating Agency of India (ICRA) Limited Credit Analysis and Research (CARE) Limited.	10
Aug-2024	Topic 2: - Financial Planning 1.1 Financial Planning – Meaning, Nature and Characteristics, Scope, Importance, Advantages and Limitations, 1.2 Steps in Financial Planning 1.3 Factors Influencing Financial Plan Formulation 1.4 Methods of Estimating Financial Requirement	12
Sept-2024	Topic 3: - Capitalization and Capital Structure 1.1 Capitalization and Capital Structure 1.2 Capitalization – Concept, Factors governing capitalization, Over and Under Capitalization - Causes and effects, Fair Capitalization. 1.3 Capital Structure- Meaning, Concept and Principles of capital structure, Factors influencing the pattern of capital structure. 1.4 Trading on equity- Concepts and effects.	18
Oct-2024	Topic 4: - Sources of Corporate Finance 1.1 Types of Capital – Fixed and Working, Owned and Borrowed, Short Term, Medium Term and Long Term 1.2 Sources of Capital – Bank Overdraft, Trade Credit Accrual Accounts, Financial Lease, Operating Lease, Hire Purchase, Bank Loan, Merchant loan, Debentures, Equity Shares, Preference Shares Stock Dilution and Flotation 1.3 Concept Cost of Capital and Concept of Risk and Return	08
Nov-2024	Diwali Vacation Introduction of Second Term Syllabus	
SEM VI (366A)		Total
Dec-2024	Topic 1: - Production Management Functions 1.1 Meaning, Definition, Functions of Production Management, Responsibilities of Production Manager. 1.2 Production Planning - Objectives, Importance, levels of planning. 1.3 Routing & Scheduling - Meaning, Route Sheets, Scheduling, Master and sequential scheduling, scheduling devices. 1.4 Production control- Definition and meaning, Necessity, objectives, factors and techniques of production control	10
Jan-2025	Topic 2: - Plant Location and Plant Layout 2.1 Introduction, importance, factors responsible for plant location. 2.2 Plant Layout- Meaning, Definition, Importance of good layout, factors relevant for choice of layout, Line, Process and Product layout. 2.3 Plant Layout - Advantages, disadvantages and techniques.	12

Feb-2025	Topic3: - Inventory management & Quality Management 3.1 Inventory management -Introduction, methods, Economic Order Quantity , Use of Computers in Inventory Management, Material Requisition Planning (MRP) , Just In Time (JIT),ABC Analysis 3.2 Recent trends in Inventory Management - Radio Frequency Identification (RFID), Automated guided vehicles (AGVs) and automated mobile robots (AMRs), Artificial intelligence (AI) and Machine learning (ML), Distributed inventory management, Cloud-based solutions Predictive picking 3.3 Quality Management – Features, Techniques of Quality Control 3.4 Total Quality Management, Six Sigma, International Organisation for Standardisation (ISO)	18
Mar-2025	Topic 4: - Supply Chain Management and Logistics management 4.1 Supply Chain Concepts: Objectives of a Supply Chain, Stages of Supply chain, Value Chain Process, Cycle view of Supply Chain Process, Key issues in Supply Chain Management, Difference between Supply Chain Management and Logistics. 4.2 Logistics: Evolution, Objectives, Components and Functions of Logistics Management, Distribution related Issues and Challenges, Transportation- Functions, Costs, and Mode; Network and Decision, Containerization, Cross docking.	08
Total		48
April-2025	Annual Examination	
May- 2025	Celebration of Maharashtra Day on 1st May Summer Vacation	


Smt. S. S. Desai
 Subject teacher


Mr. A.Y. Sonawane
 HOD


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M.V.P. SAMAJ'S
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DEPARTMENT OF COMMERCE
Teaching Plan: M.COM PART-II
Project Management
2024-25

Month	SEM III Particular	No. of Lectures
June-2024	Admission Process	-
July-2024	Project: Characteristics and Types: 1.1 Introduction 1.2 Project versus Process 1.3 Project Characteristics 1.4 Project Management 1.5 Attributes of a Good Project Manager 1.6 Taxonomy of Projects 1.7 Project Management Versus General Management 1.8 Need of Projects	15
Aug-2024	Project Identification Formulation and Implementation: 2.1 Introduction 2.2 Government, the regulator 2.3 Project Identification 2.4 Project Preparation / Formulation 2.5 Tax Incentives and Project Investment Decisions 2.6 Tax Planning for Project Investment Decisions 2.7 Zero Based Project Formulation 2.8 Project Management Objectives 2.9 Establishing the Project 2.10 Organizing Human Resource 2.11 Organizing Systems and Procedures for Implementation 2.12 Project Direction 2.13 Project Coordination 2.14 Project Control 2.15 Outsourcing: A Method of Project Cost and Time Control	15
Sept-2024	Project Appraisal: 3.1 Introduction 3.2 Technical Appraisal 3.3 Commercial Appraisal 3.4 Economic Appraisal 3.5 Financial Appraisal 3.6 Management Appraisal 3.7 Social Cost Benefit Analysis 3.8 Project Risk Analysis	15
Oct-2024	Project Cost Estimation and Project Financing (Theory Only): 4.1 Project Cost Estimation: 4.1.1 Cost of the Project 4.1.2 Components of Capital Cost of a Project 4.1.3 Order of Magnitude 4.2 Project Financing: 4.2.1 Introduction 4.2.2 Sources of Finance 4.2.3 Role of Financial Institutions in Project Financing 4.2.4 Covenants Attached to Lending	15
Nov-2024	Diwali Vacation Introduction of Second Term Syllabus	
Total		60

Smt. S. S. Desai
Subject teacher

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HOD

Mr. S. S. Pardeshi
Co-ordinator
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Principal

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Maratha Vidya Prasarak Samaj
K.P.G. Arts, Commerce and Science College Igatpuri
Affiliated to Savitribai Phule Pune University, Pune
NAAC reaccredited 'B' Grade (CGPA: 2.52) ID NO. PU/NS/ASC/023/1982

TEACHING PLAN

Name of the Teacher: **Miss P.S.PALHE**

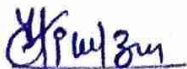
Department: **ZOOLOGY**

Name of the Course: **Genetics and Medical Zoology**

Class: **F.Y.B.Sc (Sem I) NEP**

Academic Year: **2024-25**


Month	Topic: Chapter	Topic: Unit wise details	Total Lectures
JULY	Genetics	-Non Mendelian Genetics - Introduction to Genetics - Multiple alleles -	07
AUGUST	Genetics	- Chromosomes - Sex determination - Sex linked Inheritance	10
SEPTEMBER	Medical Zoology	-Introduction to medical zoology - Epidemic Diseases in human - Vector Borne diseases in human	07
OCTOMBER	Medical Zoology	-Microbial diseases - Investigation and treatment of human physiological disorders	06
	REVISION AND TEST	REVISION AND TEST	


Miss P.S. Palhe
Subject Teacher


K.K. Chourasiya
HOD


Mr S.S. Pardeshi
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Co-ordinator
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TEACHING PLAN

Name of the Teacher: **Miss P.S.PALHE**

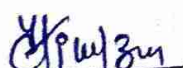
Department: **ZOOLOGY**

Name of the Course: **Genetics and Medical Zoology**

Class: **F.Y.B.Sc (Sem I) NEP**

Academic Year: **2024-25**

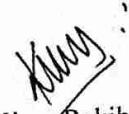
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	REVISION AND TEST	REVISION AND TEST	


Miss P.S. Palhe
Subject Teacher


K.K. Chourasiya
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TEACHING PLAN

Name of the Teacher: **Miss P.S.PALHE**

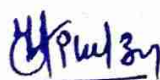
Department: **ZOOLOGY**

Name of the Course: **Cell Biology and Biomedical Techniques**

Class: **F.Y.B.Sc (Sem II) NEP**


Academic Year: **2024-25**

Month	Topic: Chapter	Topic: Unit wise details	Total Lectures
JANUARY	Cell biology	- An introduction to cell biology - Plasma membrane - -	05
FEBRUARY	Cell biology	- Cell organelles – structure and functions -Cell Division - Introduction and scope of biomedical technique	11
MARCH	Biomedical techniques	-Laboratory instruments - Biomedical instruments (introduction, principle, and working)	07
APRIL	Biomedical techniques	- Clinical Techniques - Urine analysis	06
	REVISION AND TEST	REVISION AND TEST	


Miss P.S. Palhe
Subject Teacher


K.K. Chourasiya
HOD


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DEPARTMENT OF MARATHI
Teaching Plan (UG)
Academic Year: 2024-2025

- Name of the teacher : Mrs. H. K. Chaudhari
- Class : FYBA, Sem : I (Credits – 02)
- Subject : DSE: MAR-102-P Sahityaprakaranche Sadarikaran (Practical)

Sr. No.	Month	No. of Lect. (Per Month)	No. of Lect. (Per Week)	Topics
1.	July	06	02	Sahity: Sankalpana
			02	Vachan Kaushalye
			02	Sahity Prakar
2.	August	08	02	Kavya Vachan
			02	Katha Kathan
			02	Kadambariche Abhivachan
			02	Charitra Kathan
3.	September	08	02	Aatma Nivedan
			02	Sahity Prakarachi Shaili
			02	Sahitya Prakarachi Aavahan Kshamata
			02	Sahity Prakar Nihay Mulyamapan
4.	October	08	02	Sahity Prakaranche Sadarikaran
			02	Kavita, Katha
			02	Natak, Kadambari
			02	Exam Preparations - Revisions

Prof. Dr. V. B. Rathod
HoD

Mr. S. S. Pardeshi
Coordinator – IQAC
Lt. Pardeshi S. S.
Associate N.C.C. Officer
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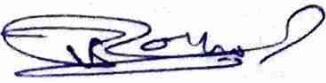
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DEPARTMENT OF MARATHI
Teaching Plan (UG)
Academic Year: 2024-2025

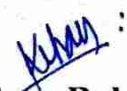
- Name of the teacher : Mr. Yogesh Ugale
- Class : FYBA , Sem : II (Credits – 02)

Subject: DSE: MAR-151-T: Sahityache Swarup (Kavyatm Sahitya Prakar)
अभ्यासपुस्तक: 'गीतमाला' संपादित गीतसंग्रह

Sr. No.	Month	No. of Lect. (Per Month)	No. of Lect. (Per Week)	Topics
5.	July	06	02	Kavyatm Sahity Prakar: Swarup
			02	Kavyatm Sahity Prakar: Sankalpana
			02	Geet ya prakarache swarup, prerana
6.	August	08	02	Geet sahy prakarachi vaishishtye
			02	Marathi kavita – geetanchi Vaatchal
			02	Joyostute, man suddh tuz
			02	Jithe sagara dharani milate, jay jay Maharashtra maza
7.	September	08	02	Runanubandhanchya jithun padlya gathi, hich amuchi prarthana
			02	Mi dholkar daryacha raja, vandan manasala
			02	Mazi maina gavakad rahili
			02	Ya janmavar, ya jaganyvar...
8.	October	08	02	Kalya matit matit
			02	Fite andharache jaale
			02	Aakashhi Zep Ghe Re Pakhara
			02	Kay Sangu Raani


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MVP'S
K.P.G. ARTS, COMMERCE&SCIENCE COLLEGE, IGATPURI, DIST. NASHIK
DEPARTMENT OF CHEMISTRY

Teaching Plan- 2024-25 (T.Y.BSc. Sem-IV)

Name of Faculty Member: Ms.M.S Gavate Subject : CH-510 (B)polymer chemistry

Month	Topic	Unit wise details	Remarks
Jun/July	Introduction and history of polymeric material	Brief History ,Basic terms - monomer, polymer ,polymerisation, degree of polymerization functionality .Different schemes of classification of polymer, polymer nomenclature , molecular forces and chemical bonding in polymers, glass transition temperature of polymer.	
August/ September	Chapter-2 polymerization chemistry	Classification of polymerization processes, mechanism of step growth, radical chain growth ,ionic chain (both cations and anionic)and coordination polymerization polymerization technique- bulk, solution ,suspension emulsion and interfacial condensation.	
October	Chapter -3: molecular weight of polymer	Average molecular weight of polymer ,number average molecular weight(Mn),weight average molecular weight(Mw),number average molecular weight by end group analysis ,viscosity average molecular weight by viscometric method ,lmolecular weight distribution and it's significance polydispersity index.	
November	Chapter 4: Important polymers	Brief introduction to preparation. structure properties and application of the following Polymers: polyethylene,Polystyrene, polyvinyl chloride ,polyvinyl alcohol ,polymethyl methacrylate polytetrafluoroethylene, Polyamide, polyesters, phenol formaldehyde resins (Bakelite Novolac),Silicon Polymers, polyisoprene, conducting polymers.	

Ms. Gavate
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Signature of HOD
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Ms. Gavate
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IQAC

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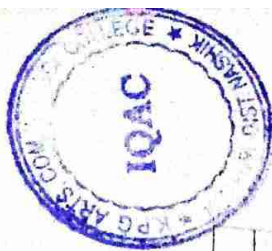


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K.P.G. ARTS, COMMERCE&SCIENCE COLLEGE, IGATPURI, DIST. NASHIK
DEPARTMENT OF CHEMISTRY

Teaching Plan- 2024-25 (T.Y.BSc. Sem-VI)

Name of Faculty Member: Ms.M.S Gavate Subject : CH -602 physical chemistry III



Month	Topic	Unit wise details	Remarks
December/ January	chapter:1 - colligative properties of dilute solution	Introduction, Solution, electrolytes and nonelectrolytes, Meaning of term colligative property, relative lowering of vapour pressure of solvent in solution, elevation of B.P. of solvent in solution, Landsberger's method, freezing point depression, Beckmann's method, Osmosis and Osmotic pressure, Berkeley and Hartley method, application of colligative properties to determine molecular weight of nonelectrolyte, abnormal molecular weight, Relation between Vant Hoff's factor and degree of dissociation of electrolyte by colligative property, Numerical.	
February	Chapter:2 Kinetic of reaction in the solid state	Some General Considerations, Factors affecting reactions in Solids, Rate Laws for Reactions in Solids , The Parabolic Rate Law, The First-Order Rate Law, The Contracting Sphere Rate Law, The Contracting Area Rate Law, The Prout-Tompkins Equation, Rate Laws Based on Nucleation, Applying Rate Laws, Results of Some Kinetic Studies, The Deaquation-Anation of [Co(NH ₃) ₅ H ₂ O]Cl ₃ , Two Reacting Solids.	
March	Chapter:3 electronic structure and microscopic properties	Cohesive energy in ionic crystals, electronic structure of solids, conductors and insulators, Ionic crystals, semiconductors, cohesive energy in metals.	

MVP'S

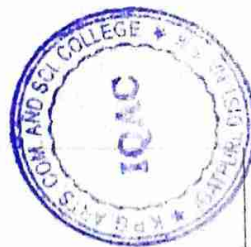
K.P.G. ARTS, COMMERCE&SCIENCE COLLEGE, IGATPURI, DIST. NASHIK
DEPARTMENT OF CHEMISTRY

Teaching Plan- 2024-25 (M.Sc.Sem-I)

Name of Faculty Member: Ms.M.S.Gavate

Subject : CHE- 501, Physical Chemistry I

Month	Topic	Unit wise details	Remarks
June/July	Chapter 1: Thermodynamics	State function, path function, exact and inexact differential, Maxwell's relationship, temperature and pressure dependence of thermodynamic quantities, Clausius inequality, chemical potential, variation of chemical potential with temperature and pressure. chemical potential in a system of ideal gases, Determination of partial molar quantities. Methods for the determination of molar quantities, Thermodynamics of mixing, Entropy of mixing, Numerical problems	
August/ September	Chapter 2: Quantum chemistry	Recapitulation, Schrodinger wave equation, particle in one dimensional box, particle in three dimensional box. Degeneracy, Normalization and orthogonality of wave functions. one dimensional simple harmonic oscillator, operators- Algebra of operators, commutator operator, linear operators. operator ∇ and ∇^2 , hydrogen like atom (no deviation). Numerical problems	



Ms. Gavate
Signature of Faculty

Ms. Gavate
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Ms. Gavate
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Maratha Vidya Prasarak Samaj's
K.P.G. Arts, Commerce and Science College, Igatpuri


DEPARTMENT OF ENGLISH

Teaching Plan (Course wise)


Academic Year: 2024-2025

Name of Teacher: Mrs. A. D. Tandale	Course Code: ENG 101
Class: F.Y.B.Sc. NEP-2024	Lectures allotted: 30
Title of the Paper: English (AEC) (Professional Communication Skills)	

Sr. No.	Month	Topic and Subtopic	Number of Probable Periods
1	July	Basic Language Skills:	10
		A) Grammar	
		1. Sentence Structures/Patterns	
		2. Subject - Verb agreement	
		3. Tenses	
		B)Vocabulary :	
		1. Synonyms and Antonyms	
		2. Homonyms	
		3. One-word substitutes	
		4. Idioms	
2	August	5. Suffixes and prefixes	10
		6. Collocations.	
		C) Speaking for Different Purpose:	
		a) Meeting and Greeting People	
		1. Introducing your Self	
		2. Introducing People to One another	
		3. Apologies and Responses	10
		4. Agreeing and Disagreeing	
		5. General Speaking Strategies	
		b) Group Discussion, Interview and Interviewing Skills	
		1. Initiating a Group Discussion	
		2. Continuing a Group Discussion	
4	October	3. Concluding Group Discussion	10
		4. Preparing for an Interview	
		5. Facing an Interview	
		6. Interviewing Techniques	
		c) Presentation Skills	
		1. Kinds of Presentation	
		2. Structuring Content	10
		3. Visual Aids	
		4. The Language of Presentations	
		5. Making a Presentation	
		Revision	


Subject
Teacher

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Maratha Vidya Prasarak Samaj's
K.P.G. Arts, Commerce and Science College, Igatpuri


DEPARTMENT OF ENGLISH

Teaching Plan (Course wise)


Academic Year: 2024-2025


Name of Teacher: Mrs. A. D. Taudale	Course Code: ENG 101
Class: F.Y.B.Sc. NEP-2024	Lectures allotted: 30
Title of the Paper: English (AEC) (Developing Communicative Competence in English - II)	

Sr. No.	Month	Topic and Subtopic	Number of Probable Periods
1	December	Forms of Writing: 1. Letter Writing 2. Writing Resume 3. Report Writing 4. Notice/ Agenda and Minutes 5. Email 6. Blog Writing	10
2	January	Soft Skills Introduction to Soft Skills <ul style="list-style-type: none">• Definitions and Nature• Soft Skill vs Hard Skill• Importance of Soft Skill• Types of Soft Skill	10
3	February	Soft Skills in Career Prospects <ul style="list-style-type: none">• Role of Soft Skills in Professional Success• Time and Stress Management• Decision Making and Moral values• Leadership Skills and Team Building• Negotiation Skills and Etiquettes	10
		Business Communication: 1. Nature and Importance of Business Communication 2. Process of Communication 3. Types of Communication 4. Channels of Communication 5. Digital Communication Revision	


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Maratha Vidya Prasarak Samaj's
K.P.G. Arts Commerce and Science College Igatpuri
Department of Political Science
TEACHING PLAN

Academic Year : 2024-2025

POL-101-T : AN INTRODUCTION TO POLITICAL SCIENCE Credits: 2 (T) (30 Lectures)
SEM-I

Name of the Teacher- Sandip R. Dholi

Paper- DSC (T)

Class -BA-I

Name of the Teacher- Sandip R. Dholi			Paper- DSC (T)	Class –BA-I	
Months	Week	Total Unit :2	Topic: Unit-wise Details	Total Lecture	Total
Unit: 1 Introduction to Political Science 15 L.					
June	II	FYBA Admission	Admission Process		
	III	----	Admission Process		
July	I	Introduction to Political Science	Unit-1 Introduction to Political Science a. Meaning and Definition.	03	15
	II	----	b. Nature of Political Science.	04	
	III	---	c. Scope of Political Science.	04	
	IV	---	d. Approaches to the Study Political Science -Traditional and Modern.	04	
Unit-2 The State 15 L					
August	I	The State	Unit- 2 The State a. Meaning and Definition.	03	15
	II	----	b. Evolution of State	04	
	III	---	c. Nature of State.	04	
	IV	----	d. Elements of the State.	04	
Sept.	I	Internal Evolution	Syllabus Revision		
	II	----	Internal Evolution and Test		
Oct.	I	Examination	Semester-1 Examination		
Nov.	II		Semester-1 Examination		
Credit- I (15 Lectures) and Credit - II (15 Lectures)				Total	30

Subject Teacher

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Maratha Vidya Prasarak Samaj's
K.P.G. Arts Commerce and Science College Igatpuri
Department of Political Science
TEACHING PLAN

Academic Year : 2024-2025

POL-102-P : AN INTRODUCTION TO POLITICAL SCIENCE Credits: 2 (P) (60 Lectures)

SEM-I

Name of the Teacher- M.S.Magar

Paper- DSC (P)

Class -BA-I

Months	Week	Total Practical: 06	Topic: Unit-wise Details	Total Lecture	Total
			Practical's	60 L.	
June	II	FYBA Admission	Admission Process		
	III	----	Admission Process		
July	I	1	Violation of Freedom	08	30
	II	2	Violation of Equality	08	
	III	3	Violation of Sovereignty	08	
	IV	4	Report Writing With the Help of News Papers	06	
August	I	1	Violation of Justice	08	30
	II	2	Violation of Power of State	08	
	III	3	Other violations of Democracy.	08	
	IV	4	Report Writing With the Help of News Papers	06	
Sep.	I	Internal Evolution	Syllabus Revision		
	II	----	Internal Evolution and Test		
Oct.	I	Examination	Semester-I Examination		
Nov.	II		Semester-I Examination		
Credit- I (30 Lectures) and Credit - II (30 Lectures)				Total	60

Subject Teacher

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M.V.P. Samaj's
KPG ARTS, COMMERCE & SCIENCE COLLEGE,
IGATPURI, DIST. NASHIK
TEACHING PLAN
YEAR 2024-25(New Revised Syllabus)
SEMESTER –V

DEPARTMENT : COMPUTER SCIENCE NAME OF THE TEACHER : PROF.D.S.KHINDE
CLASS : T.Y.B.Sc (COMPUTER SCI.)
PAPER NO : I (CS-355) TITLE : Object Oriented Programming using Java - I

MONTH	TOPIC	UNITWISE DETAILS	NO.OF LECTURES
Jun	An Introduction to Java	Object Oriented Programming Concepts A short history of Java Features OR Buzzwords of Java Java Environment Simple Java Program Java Tools – jdb, javap, javadoc Types of Comments Data Types Final Variable Declaring 1D, 2D Array Accepting Input (Command Line Arguments, BufferedReader, Scanner)	06
July	Objects and Classes	Defining your own classes Access Specifiers (public, protected, private, default) Array of Objects Constructors, Overloading Constructors and Use of 'this' keyword static block, static fields And methods Predefined Classes • Object Class, Methods (equals(), toString(), hashCode(), getClass()) • String Class And StringBuffer Class, Formatting String data using format() method Creating , Accessing And Using Packages Wrapper Classes	07
August	Inheritance and Interface	Inheritance Basics (extends Keyword) and Types of Inheritance Superclass, Subclass and use of Super Keyword Method Overriding and runtime polymorphism Use of final keyword related to method and class Use of abstract class and abstract methods Defining and Implementing Interfaces Runtime polymorphism using interface Concept of Marker and Functional Interfaces	08

SEPTEMBER	Exception and File Handling	Dealing with errors , Exception class, Checked And Unchecked Exception Catching Exceptions, Multiple Catch Block, Nested try block Creating User Defined Exception Introduction to Files And Streams Input-OutputStream : FileInputStream/OutputStream, BufferedInput/OutputStream, DataInput/OutputStream Reader-Writer : FileReader/Writer, BufferedReader/Writer, InputStreamReader, OutputStreamWriter	05
OCTOBER	User Interface with AWT and Swing	What is AWT? What is Swing? Difference between AWT and Swing The MVC Architecture And Swing Layouts And Layout Managers Containers And Components – JFrame, JButton, JLabel, JText, JTextArea, JCheckBox And JRadioButton, JList, JComboBox, JMenu And related Classes Dialogs (Message, Confirmation, Input), JFileChooser, JColorChooser Event Handling: Event Sources, Listeners Adapters And Anonymous Inner Class	10



Mr. R.V. Nikam
Head of the CS Dept.



Mr. S.S. Pardeshi
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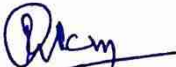
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TEACHING PLAN
YEAR 2024-25(New Revised Syllabus)
SEMESTER –II

DEPARTMENT : COMPUTER SCIENCE NAME OF THE TEACHER : PROF. B.N.SONAR
CLASS : T.Y.B.Sc (COMPUTER SCI.)
PAPER NO: I I I (CS - 365) TITLE - Object Oriented Programming using Java – II

MONTH	TOPIC	UNITWISE DETAILS	NO.OF LECTURES
DECEMBER	Collections	Introduction to the Collection framework List - ArrayList, LinkedList Set - HashSet, TreeSet, Map - HashMap and TreeMap Interfaces such as Comparator, Iterator, ListIterator, Enumeration	12
	Multithreading	What are threads? Life cycle of thread Creating threads - Thread class , Runnable interface Thread priorities Running multiple threads Synchronization and interthread communication	
JANUARY	Database Programming	What kind of patterns can be mined The design of jdbc Types of drivers Executing sql statements, query execution Scrollable and updatable Resultset	12
	Servlets and JSP	Introduction to Servlet and Hierarchy of Servlet Life cycle of servlet Handling get and post request (HTTP) Handling data from HTML to servlet Retrieving data from database to servlet Session tracking – User Authorization, URL rewriting, Hidden form fields, Cookies and HttpSession Introduction to JSP, Life cycle of JSP Implicit Objects Scripting elements - Declarations, Expressions, Scriptlets, Comments JSP Directives - Page Directive, include directive Mixing Scriptlets and HTML JSP Actions - jsp:forward , jsp:include, jsp:useBean, jsp:setProperty and jsp:getProperty	
FEBRUARY	Spring Framework	Introduction of Spring framework Spring Modules / Architecture Spring Applications Spring MVC Spring MVC Forms, Validation	06


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August	Lists, functions, tuples and dictionaries, Sets	<p>Python Lists: Concept, creating and accessing elements, updating & deleting lists, traversing a List, reverse Built-in List Operators, Concatenation, Repetition, In Operator, Built-in List functions and methods. Functions: Definitions and Uses, Function Calls, Type Conversion Functions, Math Functions, Composition, Adding New Functions, Flow of Execution, Parameters and Arguments, Variables and Parameters, Stack Diagrams, Void Functions, Anonymous functions Importing with from, Return Values, Boolean Functions, More Recursion, Functional programming tools - filter(), map(), and reduce(), recursion, lambda forms. Tuples and Dictionaries: Tuples, Accessing values in Tuples, Tuple Assignment, Tuples as return values, Variable-length argument tuples, and Basic tuples operations, Concatenation, Repetition, in Operator, Iteration, Built-in tuple functions, indexing, slicing and matrices. Creating a Dictionary, Accessing Values in a dictionary, Updating Dictionary, Deleting Elements from Dictionary, Properties of Dictionary keys, Operations in Dictionary, Built-In Dictionary Functions, Built-in Dictionary Methods. Sets- Definition, transaction of set(Adding, Union, intersection), working with sets</p>	07
SEPTEMBER	Modules ,Working with files, Exception handling	<p>Modules: Importing module, Creating & exploring modules, Math module, Random module, Time module Packages: Importing package, creating package, examples Working with files: Creating files and Operations on files (open, close, read, write), File object attributes, file positions, Listing Files in a Directory, Testing File Types, Removing files and directories, copying and renaming files, splitting pathnames, creating and moving directories Regular Expression- Concept of regular expression, various types of regular expressions, using match function. Exception Handling: Built-in Exceptions, Handling Exceptions, Exception with Arguments, User-defined Exceptions.</p>	04

OCTOBER	Demonstration	Programming Assignments: Out of 36 lectures, 18 are assigned for demonstration. Teacher should give demonstration of various programs mentioned below in the classroom or in the laboratory as per their convenience. Programming assignments should be done individually by the student in their respective login from the list given in Labbook. The codes should be uploaded on either the local server, Moodle, Github or any LMS. Assignment 1 - Python Basics Assignment 2 – Arrays, Strings, and Functions Assignment 3 - List, Tuples, Sets, and Dictionary Assignment 4 - File Handling and Date-Time Assignment 5 - Exception handling and Regular expression	18
NOVEMBER	University Exams & Holidays	University Exams & Holidays	



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