

YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2019-20

Teachers Name: Miss. N. S. Atugade

Subject : Physics

Class : B.Sc Part-I (Sem - I)

Paper No: I

Paper Title : Mechanics

			Topic /Unit	Sub-units Planned
Month: June				
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: July				
Teaching Days		14	1. Gravitation.	Newton's law of gravitation, Motion of particle in central force field, Kepler's law, satellite in circular orbit, applications of satellite. Geosynchronous orbits.
Periods Allotted		13		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
			1) To measure diameter of object by using a) Vernier calipers b) screw gauge.	
			2)M.I. of flywheel	
			3) Searl's method	
	3			
Month: August				
Teaching Days		12	1. Gravitation 2. Vectors	1. Weightlessness, basic idea of GPS, problems. 2.Addition and subtraction of vectors, vectors product, scalar product, cross products
Periods Allotted		10		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
			4)Y.M of wooden bar	
			5)M.I of Disc	
	2			
Month: September				
Teaching Days		14	2. Vectors 3.Laws of motion	Derivativs of a vector with respect to parameters. Problems. Inertial and non inertial frame of reference.
Periods Allotted		12		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

			6) half deflection by likage method	
			7)Frequency of A.C mains by sonometer	
	2			
Month: October			3. Laws of motion	Newton's 1st law of motion, newton's 2nd law of motion, newton's 3rd law of motion .solved problems.
Teaching Days	13			
Periods Allotted	12			
Periods Available				
Teaching	Practicals/ Tutorials	Tests	8) Spring constant	
			9) Modulus of rigidity	
	2			

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URUN-ISLAMPUR, Dist. Sangli

YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2019-20

Teachers Name : Mrs. P. A. Shaha

Subject : Chemistry

Class : B. Sc - I (Sem I)

Paper No : I & II

Paper Title : Inorganic Chemistry

Organic Chemistry

			Topic /Unit	Sub-units Planned
Month: June				
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: July			2. Stereochemistry	Types of stereoisomerism, Optical Isomerism - Concept of Chirality, Elements of Symmetry, Optical Isomerism in tartaric acid, 2,3-dihydroxybutanoic acid.
Teaching Days		11		
Periods Allotted		12		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
		1		
Month: August			2. Stereochemistry	Enantiomerism, Distereomerism, meso compounds, Geometrical Isomerism in C=C, C=N, alicyclic compounds, Nomenclature of Stereoisomers - D & L, R & S, E & Z, Erythro&Threo
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
		1		
Month: September			4. Cycloalkanes, Cycloalkenes&Alkadienes	Cycloalkanes, cycloalkenes, alkadienes - Methods of formation, Chemical Properties, Classification, structure
Teaching Days		11		
Periods Allotted		10		
Periods Available				
Teaching	Practicals/ Tutorials	Tests	Physical Chemistry	
	2	1		
Month: October			2. Chemical Bonding & Molecular Structure - Ionic Bonding	Formation of ionic bonds & characteristics, Born-Haber Cycle for NaCl&
Teaching Days		12		
Periods Allotted		12		

Periods Available				applications, Fajan's Rule & applications
Teaching	Practicals/ Tutorials	Tests		
			Physical Chemistry	1. Determination of enthalpy of neutralization of hydrochloric acid with sodium hydroxide.
			Inorganic Chemistry	1. To determine strength of given oxalic acid solution.
	2	1		

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ANNUAL TEACHING PLAN

2019-20

Teachers Name : Jadhav Megharani Chandrakant

Subject : **Mathematics**

Class : **B. Part I**

Paper No : **VIII**

Paper Title : **Algebra-II**

			Topic /Unit	
Month: December			Unit - 1 Groups CCPM-III:- Advanced matrix operation CCPM-III:- Advanced SCILAB programming using Function	Lagrange's theorem and its Consequences 1. Euler's theorem 2. Fermat's theorem. <ul style="list-style-type: none"> • Normal subgroups and its Properties
Teaching Days	12			
Periods Allotted	11			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	02			
Month: January			CCPM-III:- Interpolation CCPM-III:- Numerical integration	<ul style="list-style-type: none"> • Factor Group (Quotient Group) • Homomorphism of Groups Isomorphism, Automorphism and Endomorphism of Groups and examples.
Teaching Days	13			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
13	02			
Month: February			Unit - 2 Normal subgroups CCPM-II:- Homomorphism & Kernel CCPM-III:- Numerical methods for solution ODE	<ul style="list-style-type: none"> • Kernel of a Homomorphism 1. Results related to Isomorphism.
Teaching Days	12			
Periods Allotted	11			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	03			
Month: March			CCPM-II:- Permutation Group S:- Numerical methods for solution of a system of linear equations	Permutation Group 1. Definition, Examples. 2. Theorems. 3. Rings, Subrings
Teaching Days	07			
Periods Allotted	11			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
07	02			

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ANNUAL TEACHING PLAN
2019-20

Teachers Name : Mrs. Neha N. Sali

Subject : Mathematics

Class : B. Sc. Part I(Sem-I)

Paper No:DSC-5A

Paper Title : Differential Calculus

			Topic /Unit	Sub-units Planned
Month: July			Unit1: Hyperbolic Functions	De- Moivre's Theorem. Applications of the above theorem Hyperbolic functions
Teaching Days		11		
Periods Allotted		11		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11				
Month: August			Unit1: Hyperbolic Functions CCPM I- Application of De Moivre's Theorem	Inverse Hyperbolic functions Relations between hyperbolic and circular functions
Teaching Days		10		
Periods Allotted		10		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	01			
Month: September			Unit2: Higher order Derivatives CCPM I- Examples on Leibnitz's Theorem	Successive Differentiation. Leibnitz's Theorem Partial Differentiation.
Teaching Days		11		
Periods Allotted		11		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	01			
Month: October			Unit2: The Real numbers CCPM I- Examples on Euler's Theorem CCPM I- Maxima & minima of function of two variables	2.4. Euler's Theorem Maxima and Minima for function of two variables Lagrange's Method of undetermined multipliers.
Teaching Days		11		
Periods Allotted		10		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	02			



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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2019-20

Teachers Name: Miss.P.V.Patil.

Subject : Chemistry

Class : B.Sc Part-I (Sem - I)

Paper No: I

Paper Title : Inorganic Chemistry

			Topic /Unit	Sub-units Planned
Month: June				
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: July			1. Atomic Structure & Periodicity of Elements	Bohr's theory of Hydrogen atom, Wave particle duality, Heisenberg Uncertainty Principle, Quantum Numbers & significance
Teaching Days		16		
Periods Allotted		15		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
		01		
Month: August			1. Atomic Structure & Periodicity of Elements	Electrons filling rules, Stability of empty, half-filled & completely filled orbitals, Periodicity of s-block elements- Electronic configuration & Properties
Teaching Days		14		
Periods Allotted		13		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
		1		
Month: September			3. Chemical Bonding & Molecular Structure- VBT	Concept of Hybridization, Conditions of hybridization, Types of Hybridization
Teaching Days		16		
Periods Allotted		13	4. Chemical Bonding & Molecular Structure- MOT	LCAO method, Types of MO's, Difference between BMO's & ABMO's
Periods Available				
Teaching	Practicals/ Tutorials	Tests	Physical Chemistry	1. Determination of Equivalent weight of Mg by Eudiometer. 2. Determination of heat of ionization of weak acid.
	2	2		

Month: October			4. Chemical Bonding & Molecular Structure- MOT	Conditions for overlap, Types of overlaps, Energy level sequence for MO $n=1, n=2$, MO diagrams for homo & hetero-nuclear diatomic molecules with examples
Teaching Days	14			
Periods Allotted	12			
Periods Available				
Teaching	Practicals/ Tutorials	Tests	Physical Chemistry	1. Determination of enthalpy of neutralization of hydrochloric acid with sodium hydroxide.
			Inorganic chemistry	1. To determine strength of given oxalic acid solution.
	2	1		

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2019-20

Teachers Name : Vibhute M. V.

Subject : Botany

Class : BSC. Part I (Sem I)

Paper No : I

Paper Title : **BIODIVERSITY OF**

MICROBES, ALGAE AND FUNGI

			Topic /Unit	Sub-units Planned
Month: June				
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: July			UNIT-1 VIRUSES	1.1Discovery, General characters. 1.2structure of viruses 1.3Types Of viruses 1.4Economic Importance.
Teaching Days			06	
Periods Allotted			05	
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
05				
Month: August			UNIT -2 BACTERIA	2.1 Discovery, General Character. 2.2 Cell Structure, Types 2.3 Mode of reproduction 2.4 Economic Importance
Teaching Days			12	
Periods Allotted			11	
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	03	01	Study of Forms of bacteria Study of Nostoc Study of Spirogyra	Cocci, Spiral, bacillus Identification, Classification
Month: September			UNIT -3 ALGAE	3.1 General Character and classification 3.2Economic Importance 3.3Morphology and Life Cycles a.Cyanophyceae: Nostoc b.Chlorophyceae: Spirogyra
Teaching Days			10	
Periods Allotted			10	
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	03		Study of Mucor Study of Penicillium Study of Riccia	Identification, Classification, General Characteristics
Month: October			UNIT-4 FUNGI	4.1General Characters, Classification 4.2EconomicImportance. 4.3Morphology and life cycles a. Zygomycotina: Mucor b. Ascomycotina: Penicillium
Teaching Days			11	
Periods Allotted			11	
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	11	01		

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2019-20



Teachers Name : Miss. S. D. Kulkarni.

Subject : Chemistry

Class : **B.Sc Part - 1 (Sem I)**

Paper No : **II**

Paper Title : **organic Chemistry**

			Topic /Unit	Sub-units Planned
Month: June				
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: July			1. Fundamentals of organic chemistry	Curved arrow notations, cleavage of bonds, organic molecular species electrophiles, and nucleophiles, electronic displacements-inductive, electromeric effect
Teaching Days		4		
Periods Allotted		8		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
4				
Month: August			1. Fundamentals of organic chemistry	Resonance and Hyperconjugation effect, reactive intermediates-Carbocation, Carbanion, Free radicals.
Teaching Days		4		
Periods Allotted		8		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
4				
Month: September			3. Aromaticity 1. Physical Chemistry	Characteristics of aromatic compounds, meaning of terms, structure of benzene, 1. Determination of
Teaching Days		3		
Periods Allotted		7		
Periods Available				

Teaching	Practicals/ Tutorials	Tests		Equivalent weight of Mg by eudiometer. 2. Determination of heat of ionisation of weak acid.
2	1			
Month: October.			3. Aromaticity	Modern theory of aromaticity. Applications of Huckels rule. Mechanism of electrophilic substitution-Nitration, Sulphonation, Halogenation, Friedel crafts reactions.
Teaching Days		4		
Periods Allotted		7		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
			Physical Chemistry	1. Determination Of Enthalpy of neutralisation of hydrochloric acid with sodium hydroxide.
			Inorganic Chemistry	2. To determine Strength of given Oxalic acid Solution
02	02			

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR ANNUAL TEACHING PLAN 2019-20

Teachers Name : Miss. A.P.Dhotre


Subject : physics

Class : B.Sc Part - 1 (Sem II)


Paper No: IV

Paper Title : Electricity and magnetism II

			Topic /Unit	Sub-units Planned
Month: November				
Teaching Days	2			
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
2				
Month: December				
Teaching Days	5		Unit 3	Complex numbers and heir applications in solving a.c series LCR circuits
Periods Allotted	7		Topic 1 A.C.circuits	
Periods Available			10. Thevnins theorem	
Teaching	Practicals/ Tutorials	Tests	11. Use of multimeter	
4	3			
Month: January				
Teaching Days	4		Topic 1 A.C.circuits	Complex impedance Reactance Admittance and susptance
Periods Allotted	7		12.LCR(Series)	
Periods Available			13.LCR(Parallel)	
Teaching	Practicals/ Tutorials	Tests		
4	3			
Month: February				
Teaching Days	3		Topic 1 A.C.circuits	Reasoance in LCR series circuit, Sharpness of reasoance (qualitative treatment only), Q-factor(definition only)
Periods Allotted	7		14. Keters pendulum	
Periods Available			15. Bar pendulum	
Teaching	Practicals/ Tutorials	Tests		
4	3			
Month: March				
Teaching Days	2		Topic 1 A.C.circuits	A.C. Bridge Owen's
Periods Allotted	5			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
2				


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ANNUAL TEACHING PLAN

Academic Year: 2019 - 2020

Class: B.Sc.I

Subject: English (Comp)

Paper No: B

Paper Title: English for Communication

			Topic /Unit	Sub-units Planned
Month: November			Module V A. Telephonic Communication	
Teaching Days	13			
Periods Allotted	09			
Periods Available	09			
Teaching	Practical's/ Tutorials	Tests		
Month: December			Module V B. Lost Forest C. Stopping by the Wood	
Teaching Days	25			
Periods Allotted	18			
Periods Available	17			
Teaching	Practical's/ Tutorials	Tests		
Month: January			Module VI A. English for Specific Purposes B. Putting Data to Effective use	
Teaching Days	28			
Periods Allotted	19			
Periods Available	18			
Teaching	Practical's/ Tutorials	Tests		
Month: February			Module VII A. English for Advertising B. An Epitaph	
Teaching Days	24			
Periods Allotted	15			
Periods Available	14			
Teaching	Practical's/ Tutorials	Tests		
Month: March			Module VIII A. The Golden Touch B. Offering in the Temple	
Teaching Days	12			
Periods Allotted	10			
Periods Available	10			
Teaching	Practical's/ Tutorials	Tests		

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2019-20

Teachers Name: Miss. N. S. Atugade

Subject : Physics

Class : B.Sc Part - I (Sem II)

Paper No: III

Paper Title : Electricity & Magnetism

			Topic /Unit	Sub-units Planned
Month: November				
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: December			1. Magnetism	Biot savorts law, applications_ straight conductor, circular coil, solenoid, divergence and curl of magnetic field, vector potential.
Teaching Days		14		
Periods Allotted		13		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
			10) Thevni's theorem	
			11) use of Multimeter	
	2			
Month: January			1. Magnetism	Ampere's circuital law, magnetic intensity, permiability, magnetic susceptibility, dimagnetic, paramagatic, ferromagnetic substance.
Teaching Days		12		
Periods Allotted		11		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
			12) LCR(in series)	
			13) LCR(in parallel)	
	2			
Month: February			3. Electromagnetic Induction	Faradays law of electromagnetic induction, Lenz law ,self and mutual induction
Teaching Days		15		
Periods Allotted		14		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
			14)Keters pendulum	
			15) Bar pendulum	
	2			

Month: March			3. Electromagnetic Induction	L of single M of seconds coil, energy stored magnetic Field
Teaching Days	12			
Periods Allotted	11			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

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ANNUAL TEACHING PLAN
2019-20

Teachers Name : Mrs. P. A. Shaha

Subject : Chemistry

Class : B.Sc Part - I (Sem II)

Paper No : III & IV

Paper Title : Physical Chemistry



Analytical Chemistry

			Topic /Unit	Sub-units Planned
Month: November				
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: December			1. Introduction to Analytical Chemistry 1 Inorganic Chemistry Organic Chemistry	Analytical processes, Importance & Methods of analysis, Sampling of solids, liquids & gases, Errors & Types of errors, Significant figures, mean median, S. D, Problems 1. Estimation of amount of acetic acid from given vinegar sample. 2. Quality control- To determine percentage purity of given soda ash sample Na ₂ CO ₃ 1. Estimation of Aspirin 2. Organic qualitative analysis Identification of organic compound- Oxalic acid
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
		4		
Month: January			2. Chromatography	Principle, basic terms, classification of Chromatography Paper, Thin Layer Chromatography - Principle, Methodology, Applications, Advantages & disadvantages 1. Organic qualitative
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

			Organic Chemistry	analysis Identification of organic compound- Urea, beta-naphthol
			Physical Chemistry	1. Determination of heat capacity of calorimeter for different volumes
			Inorganic Chemistry	1. To determine quantity of Fe(II) ions from the given solutions by titrating it with 0.1N $K_2Cr_2O_7$ solution by using internal indicator
	4	1		
Month: February			1. Chemical Energetics	Thermodynamics - first law of thermodynamics, Spontaneous & Non-spontaneous process, Carnot Cycle, Statement of Second & third law of thermodynamics
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests	Organic Chemistry	1. Organic qualitative analysis Identification of organic compound- Acetone
	1			
Month: March			1. Chemical Energetics	Thermochemistry - Concept of standard state & standard enthalpies, Integral & differential Enthalpies, Kirchoff's equation, Bond energy, Bond dissociation energy, resonance energy - Calculations
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests	Physical Chemistry	1. Chemical Kinetics- to determine specific reaction rate of hydrolysis of methyl acetate in presence of HCl 2. Determination of integral enthalpy of solution of salts (NH_4Cl , KNO_3)
	2	1		

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ANNUAL TEACHING PLAN
2019-20

Teachers Name : Mrs. Neha N. Sali

Subject : Mathematics

Class : B. Sc. Part I (SemII)

Paper No : DSC – 6B

Paper Title : Higher Order Ordinary Differential Equations and Partial Differential Equations

			Topic /Unit	Sub-units Planned
Month: December			UNIT 1: Linear Differential Equations CCPM I- Simultaneous differential equations	Introduction, Method of solution Examples of second order linear differential equations Simultaneous differentialequations
Teaching Days	12			
Periods Allotted	11			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	01			
Month: January			UNIT 1: Linear Differential Equations CCPM I- Total differential equations	Methods of solving and types of Ordinary Simultaneous Differential equations Geometrical relation between total differential and simultaneous differential equations
Teaching Days	13			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
13	01			
Month: February			UNIT 2: Partial Differential Equations CCPM I- Radius of curvature for parametric curve & polar curve	2.1 Definition, order, degree, formation , examples of PDE
Teaching Days	12			
Periods Allotted	11			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	01			
Month: March			UNIT 2: Partial Differential Equations CCPM I- Examples on Charpit's method	Lagrange's equations and method of solving Method of solution and examples to solve Charpit's method
Teaching Days	07			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
07	01			

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2019-20

Teachers Name: Miss. Jadhav Megharani Chandrakant

Subject : **Mathematics**

Class : **B. Sc. Part I (Sem II)**

Paper No: **III**

Paper Title: **Differential Equations**

			Topic /Unit	Sub-units Planned
Month: December			Unit 1: Differential Equations of First Order CCPM-I:- Radius of Curvature for Cartesian curve	<ul style="list-style-type: none"> Differential Equations of First Order and First Degree. 1. Exact Differential Equations. 2. Linear Differential Equations 3. Bernoulli's Equation.
Teaching Days	13			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
13	01			
Month: January			CCPM-I:- Examples on Exact Differential Equation CCPM-I:- Examples on Clairaut's Form	<ul style="list-style-type: none"> Differential Equations of First Order but Not of First Degree 1. Clairaut's Form 2. Equations Reducible to Clairaut's Form.
Teaching Days	14			
Periods Allotted	11			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
14	02			
Month: February			Unit 2: Linear Differential Equations CCPM-I:- Examples on LDE's with Constant Coefficient's.	<ul style="list-style-type: none"> Linear Differential Equations with Constant Coefficients
Teaching Days	11			
Periods Allotted	11			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	01			
Month: March				<ul style="list-style-type: none"> Homogeneous Linear Differential Equations (The Cauchy-Euler Equations) 1. Legendre's Linear Equations. 2. Method of Solution of Legendre's Linear Equations.
Teaching Days	12			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

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ANNUAL TEACHING PLAN
2019-20



Teachers Name: Miss. P. V. Patil

Subject : Chemistry

Class : B.Sc Part - I (Sem II)

Paper No: III

Paper Title : Physical Chemistry

			Topic /Unit	Sub-units Planned
Month: November				
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: December				
Teaching Days		15		
Periods Allotted		14		
Periods Available				
			2. Chemical Equilibrium	Law of Chemical equilibrium, Equilibrium constant equations, Relationship between K_p , K_c & K_x for reactions, Le Chatelier's Principle
			Inorganic Chemistry	1. Estimation of amount of acetic acid from given vinegar sample. 2. Quality control- To determine percentage purity of given soda ash sample Na_2CO_3
			Organic Chemistry	1. Estimation of Aspirin 2. Organic qualitative analysis Identification of organic compound- Oxalic acid
Teaching	Practicals/ Tutorials	Tests		
	4	1		
Month: January				
Teaching Days		17		
Periods Allotted		16		
Periods Available				
			3. Kinetic Theory of Gases	Assumptions of kinetic theory of gases & derivation, Ideal & Non-ideal gases, Derivation of real gases, van der Waal's equation
			Organic Chemistry	1. Organic qualitative analysis Identification of organic compound- Urea, beta -naphthol
Teaching	Practicals/ Tutorials	Tests		

			Physical Chemistry Inorganic Chemistry	1. Determination of heat capacity of calorimeter for different volumes 1. To determine quantity of Fe(II) ions from the given solutions by titrating it with 0.1 N $K_2Cr_2O_7$ solution by using internal indicator
	4	1		
Month: February			3. Kinetic Theory of Gases 4. Chemical Kinetics Organic Chemistry	Critical phenomena, Maxwell Boltzman distribution laws, Numerical Problems Factors affecting rate of reaction, order & molecularity of reactions, Zero order reaction 1. Organic qualitative analysis Identification of organic compound- Acetone
Teaching Days	14			
Periods Allotted	14			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	1	1		
Month: March			4. Chemical Kinetics Physical Chemistry	First & Second order reaction- Equations, Characteristics, Examples, Theories of reaction rates Collision & transition state theory 1. Chemical Kinetics - to determine specific reaction rate of hydrolysis of methyl acetate in presence of HCl 2. Determination of integral enthalpy of solution of salts (NH_4Cl , KNO_3)
Teaching Days	13			
Periods Allotted	12			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	2	1		

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ANNUAL TEACHING PLAN
2019-20

Teachers Name : Kadam G. B.

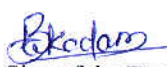
Subject : Botany

Class : BSC. Part I (Sem II)

Paper No : III


Paper Title : PLANT ECOLOGY

			Topic /Unit	Sub-units Planned
Month: November				
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: December			UNIT-1 a) ECOLOGICAL FACTORS AND ADAPTATIONS	1.1 Edaphic factors 1.2 Climatic factors 1.3 Ecological Adaptations
Teaching Days			12	
Periods Allotted			11	
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	02	01	Study of Meteorological Instruments Study of Water Holding Capacity of different soils	Rain Gauge, Dry and wet thermometer, Using different soil sample.
Month: January			UNIT-1 b) PLANT COMMUNITIES AND PLANT SUCCESSION	1.1 Plant Communities 1.2 Plant Succession
Teaching Days			13	
Periods Allotted			11	
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	03		Study of morphological and anatomical adaptations in hydrophytes Xerophytes Epiphytes and Parasites	Hydrilla Eichhornia Aloe, Nerium Orchid, Cuscuta
Month: February			UNIT-2 a) Ecosystem and Phyto-geography	2.1 Ecosystem 2.2 Food chain and web 2.3 Ecological pyramids
Teaching Days			12	
Periods Allotted			11	
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	03	01	Study Ecological pyramids Study of Phytogeographical regions of India.	Structure energy, biomass using Standard map
Month: March			Unit-2 b) Biogeochemical cycles	2.1 Phosphorus and Nitrogen cycle. 2.2 Phytogeographical regions as per Chatterji and Mani
Teaching Days			12	
Periods Allotted			10	
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10		01		


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Subject : Botany

Class : BSC. Part I

Paper No : II

Paper Title : BIODIVERSITY OF

ARCHEGONIATE- Bryophytes, Pteridophytes, Gymnosperms

			Topic /Unit	Sub-units Planned
Month: June				
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: July			UNIT-1a) BRYOPHYTES	1.1 General Characters 1.2 Classification 1.3 Economic Importance 1.4 Morphology, anatomy and life cycle a. Hepaticopsida: Riccia b. Bryopsida- Funaria
Teaching Days		12		
Periods Allotted		11		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: August			UNIT-1b) PTERIDOPHYTES	1.1 General characters, 1.2 Classification 1.3 Morphology and anatomy 1.4 Heterospory and seed habitat
Teaching Days		12		
Periods Allotted		11		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
			Study of Funaria Study of Selaginella Study of Pteris Study of Gnetum	Identification General Characteristics, Classification
Month: September			UNIT-2 GYMNOSPERMS	A) 2.1 General characters, 2.2 Classification . 2.3 Economic importance of gymnosperms.
Teaching Days		10		
Periods Allotted		10		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	02	01	Study of Pteris Study of Gnetum	Identification, Classification
Month: October			UNIT-2 GYMNOSPERMS	B. Morphology and anatomy Life Cycle Gnetopsida- Gnetum
Teaching Days		12		
Periods Allotted		10		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	01		Determination of soil and water pH .	pH paper

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Teachers Name : Miss. S. D. Kulkarni.

Subject : Chemistry Class : **B.Sc Part - 1 (Sem II)** Paper No : **IV** Paper Title :

Analytical Chemistry

			Topic /Unit	Sub-units Planned
Month: November				
Teaching Days	2			
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
2				
Month: December			3.Theory of titrimetric analysis	Important terms, Acid base indicators-Phenolphthalein, Methyl Orange, Theory of indicators- Ostwald's ionization theory, Neutralisation curves & Choice of indicators
Teaching Days	5			
Periods Allotted	6			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
			Inorganic Chemistry	1. Estimation of amount of acetic acid from given vinegar sample. 2. Quality Control-To determine percentage purity of given soda ash sample Na ₂ CO ₃ .
			Organic Chemistry	1. Estimation of Aspirin 2. Organic qualitative analysis Identification of organic compound-Oxalic acid

01	04			
Month: January			3.Theory of titrimetric analysis	Compleximetric titrations
Teaching Days		4		
Periods Allotted		6	4. Water analysis	Physical analysis, Chemical analysis-COD and BOD
Periods Available				
Teaching	Practicals/ Tutorials	Tests	Organic Chemistry	1.Organic qualitative analysis identification of organic compound-Urea, beta naphthol.
			Physical Chemistry	1. Determination of heat capacity of calorimeter for different volumes.
			Inorganic Chemistry	2. To determine quantity of Fe(II) ions from the given solutions by titrating it with 0.1N K ₂ Cr ₂ O ₇ solution by using internal indicator
2	2			
Month: February			5.Analysis of fertilizers	Types of Fertilizers, Necessity and qualities of good fertilizers, sampling and sample preparations,
Teaching Days		4		
Periods Allotted		6	Organic Chemistry	1. Organic qualitative analysis identification of organic compound-Acetone
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
3	01			
Month: March			5.Analysis of fertilizers	analysis of nitrogen,phosphorus and potassium. analysis of total nitrogen by kjeldahl's method,Phosphomolybdate and STPB method
Teaching Days		2		
Periods Allotted		6		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		



	Tutorials		Physical Chemistry	<p>1. Chemical Kinetics-to determine specific reaction rate of hydrolysis of methyl acetate in presence of HCl.</p> <p>2. Determination of integral enthalpy of solution of salts (NH₄Cl, KNO₃)</p>
04	02			

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ANNUAL TEACHING PLAN
2019-20

Teachers Name : Mr. Sawant Rajendra Jagannat

Subject : **Zoology**

Class : **B. Sc. Part I (Sem II)**

Paper No : **III**

Paper Title- **CELL BIOLOGY & EVOLUTIONARY BIOLOGY**

			Topic /Unit	Sub-units Planned
Month: November			UNIT - I Cell structure	Cell theory and diversity in cell size and shape Structure of nucleus Nucleus with reference to Nuclear membrane, Nucleoplasm, Chromatin and nucleolus.
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: December			Structure of Chromosome	With reference to Morphology and organization Polytene Chromosomes Ultra structure and functions of the following Plasma membrane Mitochondria
Teaching Days		12		
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: January			Unit 2: History of Life	Major Events in History of Life Introduction to Evolutionary Theories
Teaching Days		13		
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: February			Extinction	Lamarckism, Darwinism, Neo-Darwinism Direct Evidences of Evolution Types of fossils. Incompleteness of fossil record, Dating of fossils
Teaching Days		12		
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: March			Extinction	Mass extinction (Causes, Names of five major extinctions, K-T extinction in detail), Role of extinction in evolution
Teaching Days		12		
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

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2019-20

Teachers Name : Mr. Sawant Rajendra Jagannat

Subject : Zoology

Class : B. Sc. Part I (Sem II)

Paper No : IV

Title- (GENETICS)

			Topic /Unit	Sub-units Planned
Month: November			UNIT – I Introduction to Genetics	Mendel's work on transmission of traits, Genetic Variation, Molecular basis of Genetic Information
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: December			Mendelian and post Mendelian Genetics	Principles of Inheritance, Incomplete dominance co-dominance, gene interaction, Multiple alleles w.r.t. ABO, Rh blood groups and coat colour in rabbit, sex linked inheritance.
Teaching Days		12		
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: January			Unit 2: Mutations	Linkage and process of crossing over. Coupling and repulsion theory. Cytological evidence of crossing over.
Teaching Days		13		
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: February			Chromosomal Mutations:	Deletion, Duplication, Inversion, Translocation, Aneuploidy and Polyploidy, induced gene mutation.
Teaching Days		12		
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: March			Sex Determination	Sex Chromosomal theory of sex determination, Genic balance theory, Haploidy Diploidy mechanism, Environmental sex determination, dosage compensation.
Teaching Days		12		
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

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ANNUAL TEACHING PLAN
2019-20

Teachers Name : Sawant Rajendra Jagannath

Subject : **Zoology**

Class : **B. Sc. Part I (Sem I)**

Paper No : **I**

Paper Title : **(ANIMAL DIVERSITY-I)**

			Topic /Unit	Sub-units Planned
Month: August			Unit – 1: Kingdom Protista Phylum- Porifera, Cnidaria Platyhelminthes Nemathelminthes	General characters and classification up to classes; Locomotory Organelles and locomotion Canal System in Syeon Polymorphism in Hydrozoa , Taenia solium And Ascaris lumbricoides Life history of and its parasitic adaptations
Teaching Days	12			
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: September			Phylum Annelida Phylum Arthropoda Mollusca , Echinodermata	General characters and classification up to classes; Metamerism in Annelida General characters Vision in Arthropoda, Metamorphosis in Insects Torsion in gastropods Water-vascular system in Asteroidea
Teaching Days	11			
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: October			Unit 2- Phylum Annelida Phylum Arthropoda	General characters and classification up to classes; Metamerism in Annelida Vision in Arthropoda, Metamorphosis in Insects Metamerism in Annelida Vision in Arthropoda, Metamorphosis in Insects
Teaching Days	12			
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: November			Phylum Mollusca Phylum Echinodermata	General characters and classification up to classes; Torsion in gastropods Water-vascular system in Asteroidea
Teaching Days	3			
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

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2019-20

Teachers Name :Mr.Sawant Rajendra jagannath

Subject : **Zoology**

Class : **B. Sc. Part I**

Paper No :II

Paper Title : 16 A (ANIMAL PHYSIOLOGY)

			Topic /Unit	Sub-units Planned
Month: August			Unit – 1:- Unit 1: Nerve and muscle	Structure of a neuron. Resting membrane potential, Origin of Action potential and its propagation in non-myelinated nerve fibers, Ultra-structure of skeletal muscle, Molecular and chemical basis of muscle contraction
Teaching Days	13			
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: September			Digestion	Physiology of digestion in the alimentary canal; Absorption of carbohydrates, proteins, lipids
Teaching Days	12			
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: October			Unit – 2: Respiration	Pulmonary ventilation, Transport of Oxygen and carbon dioxide in blood Excretion Structure of nephron, Mechanism of Urine formation
Teaching Days	13			
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: November			Cardiovascular system	Composition of blood, Structure of Heart. Origin and conduction of the cardiac impulse, Cardiac cycle
Teaching Days	4			
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Teaching Days				

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2019-20

Teachers Name : **Pudale Pratibha Dilip**

Subject : **Computer Science**

Class : **B. Sc. Part I (Sem I)**

Paper No : **I**

Paper Title : **Problem solving using computers (DSC- 11A)**

			Topic /Unit	Sub-units Planned
Month: Aug			Unit – 1: - Problem solving using computers	<ul style="list-style-type: none"> • Planning the computer program 1)concept of problem solving 2) Problem definition 3) Program design 4)Debugging , 5)Types of error , 6)Documentation .
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: Sept			Unit – 1: - Problem solving using computers	<ul style="list-style-type: none"> • Logical Continuum of programming 1)Linux and C , 2)Introduction to GCC and compiler 3) compilation process 4) Data types <ul style="list-style-type: none"> 1)build in standard library , Nitty-Gritty Prog . structure 5) Algorithm , Pseudo code , program 6) Structure of c program , Vi editor 7) Whittling first Prog . , Checking prog working& execution of make file 8) variable declaration: and Input output statement 9)Format Specifies , 10)Escape Sequence
Teaching Days				
Periods Allotted				
Periods Available				
	Practicals/ Tutorials	Tests		
Month: Oct			Unit – 2: Control Structures and Arrays	A) Decision making and Looping constructs 1) if statement , if-else statement , nested if else . The switch case statement . The while loop , odd Loop (do –while loop) for loop infinity loop
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practical's/ Tutorials	Tests		
Teaching	Practical/ Tutorials	Tests		

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Teachers Name :Pudale Pratibha Dilip

Subject : Computer Science

Class : B. Sc. Part I (Sem II)

Paper No : III

Paper Title : Programming Skills Using 'C' (DSC- 11B)

			Topic /Unit	Sub-units Planned
Month: Dec			Unit – 1: - Pointer and Functions	<ul style="list-style-type: none"> • Pointer data type , Pointer declaration , Pointer Initiations Array and Pointer , Pointer and One dimensional, Two dimensional Arrays
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month:Jan			Unit – 1: - Pointer and Functions	Programming for functional functions: , Functional Declaration Function Definition , Function Call
Teaching Days				
Periods Allotted				
Periods Available				
	Practicals/ Tutorials	Tests		
			Unit – 2:	B) Structures and File Handling
Month Feb			Unit – 2: Structures and File Handling Control Structures and Arrays	1) Structure and dynamic Memory Allocation, 2) User defined data type , 13) Features of array 14) Definition, Nesting of structure, dynamic memory allocation 3) One dimensional, 4) Two dimensional, Multidimensional
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practical/ Tutorials	Tests		
Month : March			Unit – 2: Structures and File Handling Control Structures and Arrays	File Handling : Defining and Opened a file, file opening modes : read , write append closed a file 15) Features of array 16) Operation on file :get(), Putc(), getw(), Putw(), fprintf(), fscanf(), ftell(), fseek(), rewind()
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practical/ Tutorials	Tests		

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Teachers Name : **Pudale Pratibha Dilip**

Subject : **Computer Science**

Class : **B. Sc. Part I (Sem I)**

Paper No : **II**

Paper Title : **Database management system (DSC- 12A)**

			Topic /Unit	Sub-units Planned
Month: Aug			Unit – 1: - Introduction to Database Management system	Introduction to Database Management system 1) Characteristics of database approach 2) Data model : Hierarchical , Networking , Relational
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: Sept			Unit – 1: - Introduction to Database Management system	Schema and instance , DBMS Architecture : 1) Three Schema Architecture Internal , External , Conceptual Data Independence : Logical , Physical
Teaching Days				
Periods Allotted				
Periods Available				
	Practicals/ Tutorials	Tests		
Month: Oct			Unit – 2: Entity Relationship and Enhanced ER Modeling Control Structures and Arrays	C) Entity : Entities , Domain, Attribute , Tuples , Relations • Arrays D) Relationships : One – One One – Two , Many , Many – One, Many – Many 3) One dimensional , 4) Two dimensional, Multidimensional .
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practical/ Tutorials	Tests		
Month : Nov			Unit – 2: Entity Relationship and Enhanced ER Modeling Control Structures and Arrays	SQL 99 : • Arrays Schema Definition, Constraints : domain , Integrity , entity , Referential 19) Features of array 20) Definition , types of array 3) One dimensional , 4) Two dimensional, Multidimensional
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practical/ Tutorials	Tests		

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2019-20

Teachers Name :Pudale Pratibha Dilip

Subject : Computer Science Class : B. Sc. Part I (Sem II)

Paper No : IV Paper Title :Relation Database management system (DSC- 12B)

			Topic /Unit	Sub-units Planned
Month: Dec			Unit – 1: - Relational Data Model	Basic concept Relation Constraints : Not Null ,Unique Primary , Foreign , Check ,Relational algebra , Select , Project ,Union , Intersection, Difference , SQL Queries: Creat Alter , Drop DML : insert update ,delete, DQL : Select
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: Jan			Unit – 1: - Relational Data Model	SQL Operator : Logical relational in , between like , not , is null , SQL Clauses : Where Qoder by group , group by , Having Agggiate Function : SUM , MIN ,MAX ,Count ,AVG.
Teaching Days				
Periods Allotted				
Periods Available				
	Practicals/ Tutorials	Tests		
Month :Feb			Unit – 2: Database Design Control Structures and Arrays	Entity Relationship ER: Basic Structure of entity Relationship (ER) , Symbols , Construction of ER Diagram Example : Library Management System, EER To relational mapping : Concept of extended entity Relationship Diagram (EER) 21) Features of array 22) Definition , types of array 3) One dimensional , 4)Two dimensional, Multidimensional
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practical/ Tutorials	Tests		
Month :march			Unit – 2: Database Design Control Structures and Arrays	Specialization Generalization , Aggregation , Function Dependencies : Key , Primary , super , super key , candidate Key, Functional Decomposition - Normal Forms - First NF, Second NF, Boyce code, NF Third NF (3NF) 23) Features of array 24) Definition , types of array 3) One dimensional , 4)Two dimensional, Multidimensional
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practical/ Tutorials	Tests		

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2019-20


Teachers Name : Jagatap Nilesh Ramesh
 Subject : **Computer Science**
 Paper No: **DSC-11C**

Class : **B. Sc. Part II (Sem III)**
 Paper Title : **PHP and MySQL**

			Topic /Unit	Sub-units Planned
Month: July			Unit – I: - Introduction to PHP Scripting	<ul style="list-style-type: none"> • Introduction, • Evaluation, Features, PHP Script(PHP tags <?php... ?>, SGML-style tags<?...?>, ASP style <%... %>, • HTML Script Tag • Variables: • Scope • Functions • Constant: define() • Operators • Precedence Strings:
Teaching Days	14			
Periods Allotted	13			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: August			Unit – II: HTML, HTML forms and MySql connectivity	<ul style="list-style-type: none"> • Decision Making Statements: • Iterative Statements: • continue statement • Exit statements: • User Defined Functions: • variables, Dynamic Function call • Arrays:
Teaching Days	12			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: September			Unit – II: HTML, HTML forms and MySql connectivity	<ul style="list-style-type: none"> • Introduction: HTML, necessary tags to design form layout. • Forms: HTML forms, action and get & post methods. PHP super global variables (\$_PHP_SELF, \$_GET, \$_POST, • MySql Database(Old or Improved): • cursor
Teaching Days	14			
Periods Allotted	12			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: October			Unit – II: HTML, HTML forms and MySql connectivity	<ul style="list-style-type: none"> • MySql Database(Old or Improved): • cursor
Teaching Days	13			
Periods Allotted	12			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		


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Subject : Chemistry

Class : B.Sc Part - II (Sem – III)

Paper No : V & VI

Paper Title : Physical Chemistry

Analytical Chemistry

			Topic /Unit	Sub-units Planned
Month: June				
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: July			3. Surface Chemistry	Factors affecting absorption, Absorption Isotherms - Freundlich, Langmuir Adsorption Isotherms, Types of physical absorption Isotherms, applications
Teaching Days		11		
Periods Allotted		12		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
		1		
Month: August			1. Basic Concepts in Industrial Chemistry	Raw material for chemical industry, Unit operation & Unit processes, Flow & block diagram, Process flow diagram,
Teaching Days		12		
Periods Allotted		12		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: September			1. Basic Concepts in Industrial Chemistry	Material balances - calculation, equation, procedure, example Definition & explanation of terms, Problems
Teaching Days		10		
Periods Allotted		11		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
		1		
Month: October			4. Paper Industry	Manufacturing of pulp, Types of pulp, Manufacturing of paper, Ecological problems of Indian Paper industry, Features of good Paper Industry
Teaching Days		11		
Periods Allotted		11		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

			Organic Chemistry Inorganic Chemistry	2.Organic qualitative analysis Identification of organic compound- Alpha-naphthol, methyl acetate, urea, ethyl methyl ketone 1. Preparation of sodium cuprous thiosulphate
	5	1		

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2019-20

Teachers Name : Mrs. Neha N. Sali

Subject : Mathematics

Class : B. Sc. Part II (SemI)

Paper No : DSC- 5C

Paper Title : RealAnalysis-I

			Topic /Unit	Sub-units Planned
Month: July			Unit1: Functions and Countable sets CCPM II- Range of functions	1.1.Sets. 1.2.Functions
Teaching Days	10			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	01			
Month: August			Unit1: Functions and Countable sets CCPM II- Mathematical Induction CCPM II- Types of function	Mathematical Induction CountableSets
Teaching Days	11			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	02			
Month: September			Unit2: The Real numbers CCPM III- Introduction to SCILAB CCPM III- Matrix in SCILAB	Algebraic and Order Properties of realnumbers Inequalities Absolute Value and neighbourhood
Teaching Days	12			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	02			
Month: October			Unit2: The Real numbers CCPM III- Creating Polynomials in SCILAB CCPM III- Plotting graph in SCILAB	Completeness property of realnumbers Intervals
Teaching Days	10			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	02			

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ANNUAL TEACHING PLAN
2019-20

Teachers Name: Miss. Jadhav Megharani Chandrakant

Subject : **Mathematics**

Class : **B. Sc. Part II**

Paper No : **VI**

Paper Title : **Algebra-I**

			Topic /Unit	Sub-units Planned
Month: July			Unit1: Matrices and Relations CCPM-II:- Eigen Values & Eigen Vectors	<ul style="list-style-type: none"> • Revision on Matrices • Hermitian and Skew Hermitian matrices. • Rank of a matrix, Row-echelon form • System of equations • Gaussian elimination and Gauss Jordan method • Eigen values, Eigen vectors of a matrix
Teaching Days	11			
Periods Allotted	11			
Periods Available				
Teaching	Practicals / Tutorials	Tests		
11	01			
Month: August			CCPM-II:- Cayley Hamilton Theorem CCPM-III:- Accessing Elements of matrix	<ul style="list-style-type: none"> • Cayley Hamilton theorem. • Relations: • equivalence relations and Partial ordering relations. • Digraphs of relations, matrix representation. Composition of relations . Transitive closure, Warshall's algorithm • Equivalence classes, Partition
Teaching Days	11			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	02			
Month: September			Unit2: Groups CCPM-II:- Examples on Group & order of an element CCPM-III:- Sub-Matrix	<ul style="list-style-type: none"> • Definition of Binary Operations, examples. Groups and its Properties. • Quaternion group and Order of the group • Normalizer & Center of group G.
Teaching Days	10			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	02			
Month: October			CCPM-II:- Cyclic sub-group	<ul style="list-style-type: none"> • Subgroups and theorems • Theorems • Cyclic Groups Theorem • Cosets and theorems on it • Revision
Teaching Days	11			
Periods Allotted	11			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	01			

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ANNUAL TEACHING PLAN 2019-20



Subject : Chemistry

Class : B.Sc Part - II (Sem - III)

Paper No : V

Paper Title : Physical Chemistry

			Topic /Unit	Sub-units Planned
Month: June				
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: July			1. Electrolytic Conductivity	Types of conductors, Explanation of terms, Measurement of Conductance by Wheatstone bridge, Kohlrausch law & its applications, Moving boundary method
Teaching Days		16		
Periods Allotted		14		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
		1		
Month: August			1. Electrolytic Conductivity 2. Physical Properties of Liquids	Hittorf's rule, Transport number, Conductometric Titrations & advantages, Numerical Problems Determination of surface tension by stalagometric method, Determination of Viscosity by Ostwald Viscometer, R.I., Specific & molecular refractivities by Abbe's refractometer
Teaching Days		15		
Periods Allotted		13		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
		2		
Month: September			4. Nuclear Chemistry	Types of radiations, Properties of alpha, beta, gamma radiations, Geiger Muller method, Scintillation counter method, Geiger-Nuttal relation
Teaching Days		16		
Periods Allotted		14		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: October			5. Chemical Kinetics	Third order reaction – equation & characteristics, Theories of reaction rate- Collision theory,
Teaching Days		14		
Periods Allotted		12		

Periods Available			Organic Chemistry Inorganic Chemistry	Transition state theory 2. Organic qualitative analysis Identification of organic compound- Salicylic acid, o-nitrophenol, acetanilide 1. Preparation of sodium cuprous thiosulphate
Teaching	Practicals/ Tutorials	Tests		
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ANNUAL TEACHING PLAN
2019-20



Subject : Botany

Class : BSc Part II

Paper No : II

Paper Title : Plant Physiology

			Topic /Unit	Sub-units Planned
Month: June				
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: July			1.a: Plant water relationship	1.1: Introduction 1.2: Water transport process 1.3: Transpiration
Teaching Days		08		
Periods Allotted		08		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
08	02		Study of structure of stomata Study of stomatal and cuticular transpiration	Determination of stomatal density. by cobalt chloride paper method.
Month: August			1.b: Mineral nutrition	1.4: Introduction 1.5: Criteria of essentiality 1.6: Mineral nutrient uptake 1.7: Role and Deficiency Disorders
Teaching Days		12		
Periods Allotted		11		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	03	01	Study of role and deficiency symptoms Separation of photosynthetic pigments Study of Kranz leaf anatomy in C4 plants	Phosphorus, Potassium, Calcium, Magnesium Ascending paper chromatography C4 plants -Maize
Month: September			2.a: Photosynthesis	2.1: Introduction 2.2: Photosynthetic pigments- 2.3: Mechanism of Photosynthesis 2.4: Significance of photosynthesis
Teaching Days		11		
Periods Allotted		11		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	02		Detection by biochemical tests.	Calcium, Phosphate, Potassium and Iron in plants

Month: October			2.b: Growth and Development	2.6: Introduction 2.7: Plant growth regulators 2.8: Plant responses to light and temperature 2.9: Vernalization
Teaching Days	12			
Periods Allotted	12			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	03	01	Estimation of TAN value in CAM plants. Analysis of vegetative growth Effect of different concentrations seed germination	TAN value at morning TAN value at evening Leaf area method Height of plants Auxin, Gibberelic acid

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ANNUAL TEACHING PLAN
2019-20



Teachers Name : Vibhute M. V.

Subject : Botany

Paper No : I

Class : BSC. Part II (Sem III)

Paper Title : Plant Anatomy

			Topic /Unit	Sub-units Planned
Month: November			1.a: Organization of higher plant body	
Teaching Days	10			
Periods Allotted	7			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
07	02		Study of periderm and lenticels slides Double stained permanent micro preparation	Phellogen or Cork Cambium, Phellem or Cork, Phelloderm. Bignonia, Dracaena, Sunflower, Parthenium
Month: December			1.b: Meristematic Tissue	a) Introduction, Characteristics and Classification b) Theories of structural development
Teaching Days	12			
Periods Allotted	11			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	03	01	Study of shoot and root apex by permanent slides. Study of simple tissues. Study of complex tissues.	L. S. Of Shoot Apex L. S. Of root Apex Parenchyma, Collenchyma, Sclerenchyma.
Month: January			1.b: Permanent Tissue	i) Simple tissue- ii) Complex tissue: 1.6: Types of Vascular bundles
Teaching Days	11			
Periods Allotted	11			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	04	01	Study of complex tissues. Demonstration fermentation. Study of biofertilizers. Separation of Amino acids	Xylem, Phloem kuhne's Fermentation tube method Rhizobium, Trichoderma Thin Layer Chromatography
Month: February			2.a: Primary and secondary structure of plant body	2.1: Primary structure of Monocotyledon and Dicotyledon 2.2: Normal secondary growth 2.3: Anomalous secondary growth
Teaching Days	12			
Periods Allotted	11			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

				2.4 : Periderm and Lenticel
11	02		Study of primary structure of dicot and monocot root Study of primary structure of dicot and monocot stem	T. S. Of dicotyledon root T.S. Of monocotyledon root T. S. Of dicotyledon stem T. S. Of monocot stem
Month: March			2.b: Tissue systems	2.5 : Epidermal tissue system 2.6: Secretary tissue system 2.7: Mechanical tissue system
Teaching Days		10		
Periods Allotted		10		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	03	01	Study of normal secondary growth in dicotstem anomalous/abnormal Dracaena	Annona, Moringa, Sunflower Bignonia (Dicot Stem) Dracaena (Monocot Stem)

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ANNUAL TEACHING PLAN
2019-20



Teachers Name : Kadam G. B.

Subject : Botany

Class : BSC. Part II (Sem III)

Paper No : I

Paper Title : Embryology Of Angiosperms

			Topic /Unit	Sub-units Planned
Month: June				
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: July			1.a: Organization of flower	1.1: structure of flower. 1.2: Structure of typical androecium and pollen grain. 1.3: Structure of gynoecium, Structure Types of ovules
Teaching Days			08	
Periods Allotted			08	
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
08	03		Study of Epidermal Mechanical Secretory tissue system.	Epidermis, Stomata Epidermal outgrowth Collenchyma Xylem Glandular tissue,
Month: August			1.b: Pollination and Fertilization	1.4: Definition, Types and mechanism of pollination 1.5: Microsporogenesis 1.6: Megasporeogenesis 1.7: Fertilization
Teaching Days			12	
Periods Allotted			11	
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	03		Study of following anatomical peculiarities Study excretory products. Janus green B staining technique for mitochondria	arenchyma, sunken stomata, multiple epidermis, stellate hairs, glandular hairs, nectories, Peeling of Onion Cataphyll
Month: September			2.a: Embryo and Endosperm Development	2.1: Structure and development of embryo in Monocotyledons. Dicotyledons. 2.3 Development and types of endosperm
Teaching Days			12	
Periods Allotted			12	
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	04	01	Determination of rate of respiration Breaking of seed dormancy Study of effect	During seed germination by Ganong's respirometer. Mechanical and chemical

			of pH temperature .	scarification
Month: October			2.b.Polyembryony and Apomixis	2.4:Polyembryony 2.5Apomixis:
Teaching Days		11		
Periods Allotted		10		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	02		Study of anatomy of porous and non porous wood. Maceration technique.	Porous ,Non porous wood Pinus, Thuja, Annona, Sunflower stem.

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ANNUAL TEACHING PLAN
2019-20



Subject : Chemistry

Class : **B.Sc Part - II (Sem - III)**

Paper No : VI

Paper Title : Industrial Chemistry

			Topic /Unit	Sub-units Planned
Month: June				
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: July			2. Unit Operations	Size reduction, Size enlargement, Distillation
Teaching Days		8		
Periods Allotted		6		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
8				
Month: August			2. Unit Operations 3. Corrosion and Electroplating	Types of columns and packing, Condensers, Electrochemical theory of corrosion, factors affecting corrosion. Methods of protection of metals from corrosion.
Teaching Days		7		
Periods Allotted		9		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
7				
Month: September			3. Corrosion and Electroplating	Electrolysis, Faraday's laws, Cathode current efficiency, basic principles of electroplating, electroplating of chromium, Anodizing.
Teaching Days		7		
Periods Allotted		9		
Periods Available				

Teaching	Practicals/ Tutorials	Tests		Soap, raw materials for soaps.
7			5. Soap and detergents	
Month: October			5. Soap and detergents	Types of soaps, Manufacture of soap, Detergent or syndets, raw material and types of detergents, comparison between soaps and Detergents
Teaching Days		6		
Periods Allotted		7		
Periods Available				
Teaching	Practicals/ Tutorials	Tests	Organic Chemistry	1. Organic qualitative analysis identification of organic compound - Salicylic acid, o-nitrophenol, acetanilide.
			Inorganic Chemistry	1. Preparation of sodium cuprous thiosulphate
3	03			

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ANNUAL TEACHING PLAN
2019-20



Subject : physics

Class : B.Sc Part - II (Sem - IV)

Paper No : VIII

Paper Title : Waves and Optics

			Topic /Unit	Sub-units Planned
Month: November				
Teaching Days		4		
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: December			Unit III	Idea of polarization by double refraction, Huygens explanation of double refraction through uniaxial crystals, Nicol prism
Teaching Days		8	Topic 3: polarization of light	
Periods Allotted		6	12. Resolving power of prism	
Periods Available			13. R.P. Of grating	
Teaching	Practicals/ Tutorials	Tests	14. Polarimeter	
Month: January			Unit III	Production and detection of Circularly and elliptically polarised light
Teaching Days		6	Topic 3: polarization of light	Optical rotation - Laws of motion of plane of polarization , Polarimeter
Periods Allotted		6	15. Goniometer I	
Periods Available			16. Goniometer II	
Teaching	Practicals/ Tutorials	Tests	17. Kundts tube	
Month: February			Unit IV	Franhoufer diffraction - Elementary theory of plan diffraction grating,
Teaching Days		3	Topic 2: Diffraction	
Periods Allotted		8	18. RTD	
Periods Available			19. Joule-Kelvin experiment	
Teaching	Practicals/ Tutorials	Tests	20. Stefan's fourth power law	
Month: March			Unit IV	Determination of wavelength of light using diffraction grating,
Teaching Days		3	Topic 2: Diffraction	
Periods Allotted		8	21. Resonating bottle	
Periods Available			22. Lissajious figure	
Teaching	Practicals/ Tutorials	Tests		

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2019-20



Subject : Physics

Class : B.Sc Part -II (Sem - IV)

Paper No : VIII

Paper Title : Waves And Optics II

			Topic /Unit	Sub-units Planned
Month: November				
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: December			1. Resolving power of Optical instrument	Resolution, resolving power of optical instrument, Rayleigh criteria, modify Rayleigh criteria, magnification & resolution, power of plane diffraction grating r.p. of prism.
Teaching Days		12		
Periods Allotted		11		
Periods Available				
Teaching	Practicals/ Tutorials	Tests	12) Resolving power of prism	
			13) R.P of grating	
			14) Polarimeter	
	3			
Month: January			1. Interfere	Principle of superposition, coherence&condition, division of amplitude and wave form, Llyodes single mirrior, Newton's ring.
Teaching Days		13		
Periods Allotted		12		
Periods Available				
Teaching	Practicals/ Tutorials	Tests	15) Goniometer I	
			16) Goniometer II	
			17) Kunds tube	
	3			
Month: February			2. Interfere	Applications, weight shaped film, refractive index of light.
Teaching Days		14		
Periods Allotted		11	3. Theory of radiations	
Periods Available				Concept of energy density, black body radiation
Teaching	Practicals/ Tutorials	Tests	18) RTD	

			19) Joule kelvin experiment	
			20) Stefan's 4th power law	
	3			
Month: March			3 Theory of radiation	Experimental black body radiation, derivation of planks law.
Teaching Days		12		
Periods Allotted		11		
Periods Available				
Teaching	Practicals/ Tutorials	Tests	21) Resonating bottle	21) Velocity of sound in air measured.
			22) Lissajous figures	22) Using CRO study of Lissajous figures.
	2			

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ANNUAL TEACHING PLAN

2019-20



Teachers Name : Jagatap Nilesh Ramesh
 Subject : Computer Science
 Paper No : DSC-11D

Class : B. Sc. Part II (Sem IV)
 Paper Title : Cyber Security Essentials - I

			Topic /Unit	Sub-units Planned
Month: November			Unit – 1: - Information Security Management	<ul style="list-style-type: none"> Information Security Overview: E-commerce Security, dimensions of E-commerce security, protocols, Computer Forensics,
Teaching Days	14			
Periods Allotted	13			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: December				<ul style="list-style-type: none"> Steganography, Security Management- Overview of Security Management, Information Classification Process, Security Policy, Risk Management,
Teaching Days	13			
Periods Allotted	13			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: January				<ul style="list-style-type: none"> Security Procedures and Guidelines, Business Continuity and Disaster Recovery, Ethics and Best Practices.
Teaching Days	12			
Periods Allotted	11			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: February			Unit – II: Network Security, Access Controls , Cyber Security and Cyber Laws	<ul style="list-style-type: none"> Wireless Network Security- Wi-Fi Security, Risk of Using Unsecured Wi-Fi, Bluetooth and its Access Controls: Overview of Authentication and Authorization,
Teaching Days	15			
Periods Allotted	14			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: March				<ul style="list-style-type: none"> Overview of Intrusion Detection Systems. Cyber Security: Email security: PGP and SMIME, Web Security Cyber Security Laws International Standards, Security Audit- Need, Importance
Teaching Days	12			
Periods Allotted	11			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

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2019-20



Subject : Chemistry

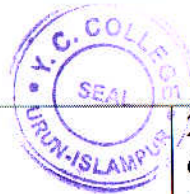
Class : B.Sc Part – II (Sem – IV)

Paper No : VII & VIII

Paper Title : Inorganic Chemistry

Organic Chemistry

			Topic /Unit	Sub-units Planned
Month: November				
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: December			3. Carbohydrates	Classification of carbohydrates, General properties of glucose & fructose, Open chain structure, Muta rotation & anomers, Determination of configuration of glucose
Teaching Days		12		
Periods Allotted		11		
Periods Available				
Teaching	Practicals/ Tutorials	Tests	Organic Chemistry	2.Organic qualitative analysis Identification of organic compound- Salicylic acid, o-nitrophenol, acetanilide, CCl ₄
			Inorganic Chemistry	1. Gravimetric estimation of iron 1. Preparation of tris (ethylene diamine) nickel (II) thiosulphate. 1. Titrimetric Analysis of Vinegar Sample
			Physical Chemistry	1. Viscosity- to determine the percentage composition of a given liquid mixture.



				2. Refractometry- to determine the specific & molar refractions of benzene, toluene & xylene.	
	9	1			
Month: January			3. Carbohydrates	Ring structure of glucose, Structure of disacharrides & poly sacharrides	
Teaching Days		11	4. Stereochemistry	Conformational Isomerism, Representation of conformations of ethane by Saw-Horse, Fischer, Newmann's projection formulae	
Periods Allotted		12		Organic Chemistry	1. Preparation of phthalimide from phthalic unhydride 1. Estimation of Vitamin C
Periods Available				Inorganic Chemistry	1. Gravimetric estimation of barium 1. Titrimetric Analysis- Hardness of water 2. Titrimetric Analysis- Alkalinity of antacid tablet
Teaching	Practicals/ Tutorials	Tests		Physical Chemistry	1. Conductometry- to determine the normality of the given strong acid by titrating it against the strong alkali 2. Conductometry- to determine the normality of the given weak acid by titrating it against the strong alkali
	7	1			
Month: February			4. Stereochemistry	Conformations & conformational analysis of ethane & n-butane by Newmann's projection formulae with energy profile diagram, Baeyer's Strain Theory, Conformations & stability of Cyclohexane	
Teaching Days		10	Inorganic Chemistry	1. Titrimetric Analysis- Analysis of commercial sample (talcum powder)	
Periods Allotted		12			
Periods Available					
Teaching	Practicals/ Tutorials	Tests			

			Organic Chemistry	1. Preparation of p-nitro acetanilide from acetanilide 2. Preparation of acetanilide from aniline
			Physical Chemistry	1. Chemical Kinetics- to determine relative strength of acids 2. Chemical Kinetics- to study the reaction between potassium persulphate & potassium iodide. (Equal concentration)
	5	1		
Month: March			5. Inorganic Semi- micro Qualitative Analysis	Theoretical principles, Applications of solubility product & common ion effect, Application of complex formation & separation, Application of oxidation & reduction in separation, spot test analysis
Teaching Days		10		
Periods Allotted		11		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

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URUN ISLAMPUR, (Dist. Sangli)

YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2019-20

Teachers Name : Mrs. Neha N. Sali

Subject : Mathematics

Class : B. Sc. Part II (SemII)

Paper No : DSC- 5D

Paper Title : RealAnalysis-II

			Topic /Unit	Sub-units Planned
Month: December			UNIT 1: Sequence of real numbers CCPM III- Introduction SCILAB Programming CCPM III- Numerical methods to find roots of function	Sequence and subsequence MonotoneSequences
Teaching Days	13			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
13	02			
Month: January			UNIT 1: Sequence of real numbers CCPM II- Limit of a sequence CCPM III- Graph theory in SCILAB	Operations on convergentsequences Limit Superior and Limit Inferior ofSequences
Teaching Days	14			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
14	02			
Month: February			UNIT 2: Infinite Series CCPM II- Convergence of sequence CCPM III- Characteristic Polynomial	Convergent and DivergentSeries Positive TermSeries
Teaching Days	11			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	02			
Month: March			UNIT 2: Infinite Series CCPM II- Comparison test & Cauchy's root test CCPM II- D'Alembert's ratio test & Rabbi's test.	Comparison Tests For Positive TermSeries AlternatingSeries Absolute and ConditionalConvergence
Teaching Days	07			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
07	02			



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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2019-20



Subject : Chemistry

Class : B.Sc Part - II (Sem - IV)

Paper No : VII

Paper Title : Inorganic Chemistry

			Topic /Unit	Sub-units Planned
Month: November				
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: December				
Teaching Days		13		
Periods Allotted		13		
Periods Available				
			1. Coordination Chemistry	Definition & formation of coordinate covalent bond, Werner's Coordination Theory with example, Description of short terms, IUPAC Nomenclature, Isomerism in C.N. - 4 & 6 complexes
			Organic Chemistry	2.Organic qualitative analysis Identification of organic compound- Methyl acetate, urea, CCl ₄ , ethyl methyl ketone
Teaching	Practicals/ Tutorials	Tests	Inorganic Chemistry	1. Preparation of tris (ethylene diamine) nickel (II) thiosulphate. 2. Titrimetric Analysis of Vinegar Sample
			Physical Chemistry	1. Viscosity - to determine the percentage composition of a given liquid mixture. 2. Refractometry - to determine the specific & molar refractions of benzene, toluene & xylene.
	8	1		

Month: January			1. Coordination Chemistry	VBT of transition metal complexes
Teaching Days	16		2. Chelation	Structural requirements of chelate formation, Difference between metal chelate & metal complex, Classification of chelating ligands, Applications of chelation with chelating agents
Periods Allotted	15			
Periods Available				
Teaching	Practicals/ Tutorials	Tests	Organic Chemistry	1. Estimation of Vitamin C
			Inorganic Chemistry	1. Gravimetric estimation of iron 2. Gravimetric estimation of barium 3. Titrimetric Analysis - Hardness of water
			Physical Chemistry	1. Conductometry - to determine the normality of the given strong acid by titrating it against the strong alkali 2. Conductometry- to determine the normality of the given weak acid by titrating it against the strong alkali
	6	1		
Month: February			3. p-block elements	Position of elements, Electronic configuration & Properties, Compounds of group 13, 14, 15 – Borane-Diborane Borazine Allotropes of Carbon & Phosphorus
Teaching Days	15			
Periods Allotted	13			
Periods Available				
Teaching	Practicals/ Tutorials	Tests	Inorganic Chemistry	1. Titrimetric Analysis - Alkalinity of antacid tablet 2. Titrimetric Analysis- Analysis of commercial sample (talcum powder)
			Organic Chemistry	1. Preparation of p-nitro acetanilide from acetanilide 2. Preparation of acetanilide from aniline

			Physical Chemistry	<p>3. Preparation of phthalimide from phthalic unhydride</p> <p>Organic qualitative analysis Identification of organic compound- Aniline</p> <p>1. Chemical Kinetics - to determine relative strength of acids</p> <p>2. Chemical Kinetics- to study the reaction between potassium persulphate & potassium iodide. (Equal concentration)</p>
	8	1		
Month: March			<p>3. p-block elements</p> <p>4. Chemistry of elements of 3d transition series</p> <p>Inorganic Chemistry</p>	<p>Oxyacids of Nitrogen Hydrides of Nitrogen</p> <p>Position of elements, Characteristics – Electronic configuration, Stability, Magnetic character, Oxidation state, Colored ions, Complex formation</p> <p>1. Semi-Micro qualitative analysis</p>
Teaching Days		15		
Periods Allotted		13		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	2	1		

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR

ANNUAL TEACHING PLAN

2019-20


Subject : Botany


Class : BSC. Part I

Paper No : IV


Paper Title : PLANT TAXONOMY

			Topic /Unit	Sub-units Planned
Month: November				
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: December			UNIT-1 INTRODUCTORY TAXONOMY, ICBN, BOTANICAL GARDENS	1.a Introduction 1.1 Identification, Nomenclature, 1.2 Binomial Nomenclature. 1.3 Salient features of (ICBN).
Teaching Days			12	
Periods Allotted			10	
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	02		Study of flowering twig Study of flowering twig	Morphology, Vegetative Floral characters
Month: January			UNIT -1.b	1.1 Herbarium 1.2 Botanical Gardens
Teaching Days			13	
Periods Allotted			11	
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	03		Study of primitive and advanced characters in flowers	Hibiscus, Rosa indica, Solanum
Month: February			UNIT 2.a Classification of angiosperms	2.1 Salient features 2.2 Types of classification
Teaching Days			12	
Periods Allotted			11	
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	04		Study of Vegetative and Floral characters of following plant families,	Caesalpiniaceae Solanaceae Nyctaginaceae
Month: March			UNIT 2.b Study of Angiosperm families	2.1 Caesalpiniaceae. 2.2 Solanaceae. 2.3 Nyctaginaceae. 2.4 Liliaceae
Teaching Days			12	
Periods Allotted			10	
Periods Available				
Teaching	Practicals/ Tutorials	Tests		


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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2019-20



Subject : Botany


Class : BSc Part II

Paper No : IV

Paper Title : Plant Metabolism


			Topic /Unit	Sub-units Planned
Month: November			1.a: Enzymes	1.1 : Introduction 1.2 : Classification and Nomenclature 1.3 : Structure and properties 1.4: Mechanism of enzyme action. 1.5: Factors affecting enzyme activity 1.6: Enzyme inhibition
Teaching Days	08			
Periods Allotted	08			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
08	03		Study of evolution of oxygen Study of effect of light intensity Demonstration of ascent of sap in plants	During Photosynthesis During Photosynthesis Stain Test Ringing experiments.
Month: December			1.b: Nitrogen Metabolism	1.7: Introduction 1.8: Biological Nitrogen Fixation- 1.9: Mechanism of Nitrogen Fixation 1.10: Nitrate reduction 1.11: Ammonia assimilation 1.12: nif genes
Teaching Days	12			
Periods Allotted	11			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	03	01	Demonstration of osmosis. Determination of sugar percentage Study of permeability of plasma membrane	Endo-osmosis, Exo-osmosis Hand Refractometer Using different concentration of organic solvent
Month: January			2.a: Respiration	2.1: Introduction 2.2: Types of respiration 2.3: Glycolysis 2.4: Formation of Acetyl Co A 2.5: TCA cycle 2.6: ETS in mitochondria 2.7: Fermentation
Teaching Days	12			
Periods Allotted	12			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

12	03		Study of typical flower and its parts. Study of anther by permanent slide Study of germination of pollen grain	Calyx, Corolla, Androecium, Gynoecium Young mature by permanent slide.
Month: February			2.b: Seed Dormancy	2.8: Concept of dormancy 2.9: Causes of dormancy 2.10: Methods of breaking of seed dormancy
Teaching Days		12		
Periods Allotted		11		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	04	01	Detection of pollen fertility Study of types of ovules Study of dicotyledon and monocotyledon embryo Dissection of embryo / endosperm	Staining technique Permanent slide or photograph Permanent slide or photograph from developing seeds Grevillia /Cucumis seed
Month: March			2.b: Seed Germination	2.11: - Introduction and types 2.12: Factors affecting seed germination 2.13: Biochemical changes during seed germination
Teaching Days		11		
Periods Allotted		10		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10		01		


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ANNUAL TEACHING PLAN
2019-20



Subject : Chemistry

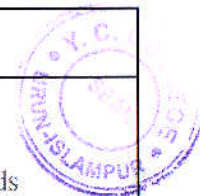
Class : **B.Sc Part - II (Sem - IV)**

Paper No : VIII

Paper Title: Organic Chemistry

			Topic /Unit	Sub-units Planned
Month: November				
Teaching Days	4			
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: December			1.Carboxylic acids and their derivatives	Monocarboxylic acids, formation of Halo,mono,di,tri chloro acetic acid, Substitution reaction of monochloro acetic acid.
Teaching Days	8			
Periods Allotted	8			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
			Inorganic chemistry	2.Organic qualitative analysis identification of organic compound- Methyl acetate,urea,CCl ₄ , ethyl methyl ketone.
			Physical Chemistry	1. Preparation of tris (ethylene diamine nickel (II) thiosulphate. 2. Titrimetric analysis of vinegar sample.
				1.Viscosity- to determine the percentage composition of a given liquid mixture. 2. Refractometry- to determine the specific & molar refraction of benzene,toluene 7 xylene.

04	04			
Month: January			1. Carboxylic acids and their derivatives	Hydroxy acid Unsaturated acids Dicarboxylic acids Carboxylic acid derivatives.
Teaching Days		7		
Periods Allotted		8		
Periods Available				
Teaching	Practicals/ Tutorials	Tests	Physical Chemistry	1. Conductometry- To determine the normality of given strong acid by titrating it against the strong alkali 2. Conductometry- To determine the normality of given weak acid against the strong alkali, 1 Gravimetric estimation of iron
			Inorganic Chemistry	2 Gravimetric estimation of Barium. 3 Titremetric Analysis- Hardness of water.
			Organic Chemistry	1 Estimation of vitamin C
01	06			
Month: February			2. Amines and Diazonium salts	Methods of preparations Reactions Diazonium salts Chemical reaction
Teaching Days		5		
Periods Allotted		6		
Periods Available				
Teaching	Practicals/ Tutorials	Tests	Organic Chemistry	1. Organic qualitative analysis-identification of organic compound- Aniline 2. Preparation of Acetanilide from aniline. 3. Preparation of phthalimide from Phthalic




			Physical Chemistry	<p>anhydride.</p> <p>4. Preparation of p-nitro acetanilide from acetanilide.</p> <p>1. Chemical Kinetics- to determine relative strength of acids.</p> <p>2. Chemical Kinetics- To study the reaction between potassium persulphate & potassium iodide.(Equal concentration).</p> <p>1. Titrimetric Analysis-Alkalinity of antacid tablet.</p> <p>2. Titrimetric analysis-Analysis of Commercial sample (talcum powder).</p>
02	06			
Month: March			4. Carbonyl compounds Aldehydes and ketones	Reactivity of carbonyl groups, reactions-perkin , aldol condensation,cannizzaro's ,knoevengel and their applications and mechanism.
Teaching Days		3		
Periods Allotted		4		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
01	02			


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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2019-20



Subject : Physics

Class : B.Sc Part - II (Sem - III)

Paper No : V & VI

Paper Title : Thermal physics &

statistical. mechanics

			Topic /Unit	Sub-units Planned
Month: June				
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: July				
Teaching Days		14	1. Kinetic theory of gases and thermometry	Mean free path, Maxwell's law of distribution of velocities, experimental Verification of Maxwell law, transport phenomena, transport of mass, transport of momentum law of equipartition of energy.
Periods Allotted		13		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
			1) Thermal conductivity by Searl's method	
			2) Thermal conductivity by lee & charltons method	
			3) Thermocouple I	
	3			
Month: August				
Teaching Days		12	1. Kinetic theory of gasses and thermometry	Principle of thermometry, platinum resistance thermometer, mercury thermometer, thermoelectric thermometer, Thermistor as thermomete, mercury in glass scale. MCQ.
Periods Allotted		11		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
			4) Specific heat of graphite	
			5) Post office box	
	2			
Month: September				
Teaching Days		15	2. Physics of low pressure	Measurement of low pressure, some characteristic of a vacuum pump, rotary oil pump,
Periods Allotted		14		
Periods Available				

Teaching	Practicals/ Tutorials	Tests	6) Coupled oscillation 7) Meldes experiment 8) Thermocouple II	diffusion pump, molecular pump, knudsen absolute Gauge.
	3			
Month: October			2. Physics of low pressure	Pirani gauge, leak detection.
Teaching Days		11	9) Poiseuille's method	
Periods Allotted		10		
Periods Available			10) Searle's viscometer	
Teaching	Practicals/ Tutorials	Tests	11) Stefan's constant	
	3			

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2019-20



Subject : physics

Class : B.Sc Part - II (Sem - III)

Paper No : V

Paper Title : Thermal physics and statistical mechanics

			Topic /Unit	Sub-units Planned
Month: June				
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
1				
Month: July			Theory : Unit II Laws of Thermodynamics	Theromodynamic system, thermodynamic variables, equation of state, zeroth law of thermodynamics, internal energy, first law of thermodynamics, conversion of heat into work.
Teaching Days		8		
Periods Allotted		18		
Periods Available				
Teaching	Practicals/ Tutorials	Tests	PRACTICAL : 1) Thermal conductivity by Searl's method 2) Thermal conductivity by lee & charltons method 3) Thermocouple I	
2	3			
Month: August			Theory: Unit II Laws of Thermodynamics	Specific heats C_p & C_v , Application of first law, work done during isothermal and adiabatic process, reversible & irreversible processes, second law of thermodynamics, Carnot's theorem, third law of thermodynamics.
Teaching Days		7		
Periods Allotted		18		
Periods Available				
Teaching	Practicals/ Tutorials	Tests	PRACTICAL: 4) Specific heat of graphite 5) Post office box	
3	2			
Month: September			Theory: Unit I Topic 3: Wave motion and ultrasonic waves	Transverse waves on a string, travelling and standing waves on a string, normal modes of string, group velocity and phase velocity, phase waves, spherical waves
Teaching Days		7		
Periods Allotted		7		
Periods Available				
Teaching	Practicals/ Tutorials	Tests	6. Coupled oscillator 7. Meldes experiments 8. Thermocouple II	
4	3			

Month: October			Unit 1 Topic 3: Wave motion and ultrasonic waves 9. Poiseuille's method 10. Searls viscometer 11. Stefan's constant	Acoustics of buildings: Reverberation and time reverberation, absorption coefficient, Sabine's formula for measurement of reverberation time. Acoustics aspects of halls and auditoria.
Teaching Days	6			
Periods Allotted	7			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
4	3			

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URUN-ISLAMPUK, Dist. Sangli

YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2019-20



Teachers Name : Mr . Sawant Rajendra Jagannath

Subject ; zoology

Paper No : V

Class : B. Sc. Part II (Sem III)

Paper Title : Animal Diversity II

			Topic /Unit	Sub-units Planned
Month: August			Unit-1: protochordates: Agnatha	General features and Retrogressive metamorphosis in Ascidian tadpole (Eg. Herdmania) General features of Agnatha and classification of cyclostomes up to classes.: Unit: 1 Animal diversity-II: 1. Study of the following specimens with reference to morphological peculiarities and classification up to orders: Herdmania, Branchiostoma, Petromyzon, Sphyrna, Pristis, Torpedo, Labeo, Exocoetus, Anguilla, Ichthyophis/Ureotyphlus, Salamandra, Bufo, Hyla, Chelone, Hemidactylus, Chamaeleon, Draco, Crocodylus, Gavialis.
Teaching Days	12			
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: September			. Pisces: Amphibia:	General features and Classification up to order:Swim bladder, Breeding and parental care in fishes General features and Classification up to order: Neoteny and Parental care in Amphibia (Order:Anura, Apoda, Urodela) Ichthyophis and parental care in fishes 2. Characters identifying venomous and non-venomous snakes: Russell's viper, Saw scaled viper, Common krait, Indian Cobra, Sea snake, Rat snake and Checkered keelback 3. Study of any six common birds from different orders with the help of photographs and keys.
Teaching Days	11			
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: October			Unit 2- Reptiles:	General features and Classification up to order:Venomous and non-venomous snakes, Bitingmechanism in snakes. First Aid Treatment, Sources of treatment (Govt. hospitals) Information of Haffkin institute
Teaching Days	12			
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

			Aves:	<p>General features and Classification up to order: Brain of fowl,</p> <p>Aerial Adaptations in birds (Morphological, Anatomical and Physiological).</p> <p>4. Study of the following specimens with reference to morphological peculiarities and classification up to orders: shrews, Bat, Squirrel and Loris. An "animal album" containing photographs, cut outs, with appropriate write up about the above mentioned taxa. Different taxa/ topics may be given to students for this purpose.</p> <p>5. Dissection of brain of fowl.</p> <p>6. Temporary preparation of hyoid apparatus, sclerotic plates, Pecten and Collumella of fowl.</p> <p>7. Temporary preparation of Cycloid, Ctenoid and Placoid scales in fishes.</p>
Month: November			Mammals:	General features and Classification up to order: Study of Adaptive radiations in mammals, (Duck Billed Platypus, Kangaroo, Bottle nose Dolphin, Blue Whale, Scaly ant eater, Spiny ant eater)
Teaching Days		03		
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2019-20

Teachers Name : **Pudale Pratibha Dilip**

Subject : **Computer Science**

Class : **B. Sc. Part II (Sem I)**

Paper No : **VI**

Paper Title : **Object oriented Programming using C++ (DSC- 12C)**

			Topic /Unit	Sub-units Planned
Month: July			Unit – I: - Introduction to C++ and Basic of Object Oriented Programming	<ul style="list-style-type: none"> • POP and OOP Difference , Benefit Of C++ over C language. • OOP concept : Polymorphism , Inheritance , Class, Encapsulation , Abstraction • Basic C++ Program : Header file , name space Std main(), Input and output operator • C++ Tokens : Variable , Keyword , constant Operators, Strings .
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: Aug			Unit – I: - Introduction to C++ and Basic of Object Oriented Programming	<ul style="list-style-type: none"> • C++ Data Types : Built in Data types , Derived data types , User defined data types • Symbolic Constraints: Const (simple ,, Pointer • Variable , Operators in C++ :DMA Operator , :: Scope resolution operator Manipulator operator • Functions in C++:Prototyping , function call return by reference , inline functions function overloading
Teaching Days				
Periods Allotted				
Periods Available				
	Practicals/ Tutorials	Tests		
Month:sept			Unit – II: Object Oriented Programming	<ul style="list-style-type: none"> • C++ Class : Difference between struct and class Class specification • Visibility Labels -Private , Public , Protected Array , • This Pointer • Friend Function : Characteristic Friend function friend class
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practical's/ Tutorials	Tests		
Month: Oct			Unit – II: Object Oriented Programming	<ul style="list-style-type: none"> • Constructor : Definition characteristic , features and Types • Destructor : definition , need of destructor • Operator Overloading : concept rules definition of operator function overloading unary and binary • Inheritance : concept , types • Polymorphism : definition , Types of polymorphism
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2019-20

Teachers Name : **Pudale Pratibha Dilip**

Subject : **Computer Science** Class : **B. Sc. Part II (Sem II)**

Paper No : **VIII**

Paper Title : **Data Structure using C++ (DSC- 12D)**

			Topic /Unit	Sub-units Planned
Month: July			Unit – I: - Introduction to Data structure and Linear Data Structures : Array Stack And Queue	<ul style="list-style-type: none"> • Concept of abstract data types : • Definition : Data type , data object Data structure Classifications • Basic Operations : Traversing , searching Insertion , Deletion , sorting • Array : Definition as data structure , Type Application of array
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals / Tutorials	Tests		
Month: Aug			Unit – I: - Introduction to Data structure and Linear Data Structures : Array Stack And Queue	<ul style="list-style-type: none"> • Sorting : definition , Stable - Unstable sorting , sorting technique : Bubble sort , selection sort Insertion sort Quick sort • Searching : Liner searching , Binary Searching • Stack : Definition , Operations , Implementation • Application of Stack : Recursive , Mathematical Expressions • Queue : Definition , Operation , type of Queue
Teaching Days				
Periods Allotted				
Periods Available				
	Practicals/ Tutorials	Tests		
Month:sept			Unit – II: - Non Linear Data Structures : Linked List And Trees	<ul style="list-style-type: none"> • Linked List : Concept of Linked List , Types , Implementation of Linked List , Operation on Linear Linked List • Application : Implementation of stack and Queue using Linked List • Trees : Definition , Terminology , of Tree diagram
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practical's / Tutorials	Tests		
Teaching	Practical/ Tutorials	Tests		
Month:Oct			Unit – II: Non Linear Data Structures : Linked List And Trees	<ul style="list-style-type: none"> • Binary Tree : Definition , Types • Array Representation of binary Tree • Binary Search Tree : Definition , representation , Operations : • Insertion , Deletion , Search, Tree Traversal : Preorder , In order , Post order

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2019-20

YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR

ANNUAL TEACHING PLAN

2019-20



Teachers Name :Mr.Sudhir V Patil Subject :Computer Application

Class: **B.C.A. Part II (SemIII)** Paper No : **I** Paper Title : **304 OOP with CPP**

			Topic /Unit	Sub-units Planned
Month: June			Admissions	---
Teaching Days	20			
Periods Allotted	10			
Periods Available 10				
Teaching	Practicals/ Tutorials	Tests		
--				
Month: July			Topic:-Programming with C++	Introduction, Data types, Constants & variables, arrays, Operators, Operator precedence, Control structures inline function
Teaching Days	26			
Periods Allotted	16			
Periods Available 15				
Teaching	Practicals/ Tutorials	Tests		
16	--	--		
Month: August			Topic:-Introduction to object oriented programming	Basic concept of OOP, Benefits and futures, class-Def, syntax, member function and data members, Access specifies static data member, defining objects, array of object friend function, object as function argument friend class. function overloading. Test on topic 1&2
Teaching Days	25			
Periods Allotted	16			
Periods Available 16				
Teaching	Practicals/ Tutorials	Tests		
16	--			
Month: September			Topic:-Introduction to object oriented programming;	Basic concept of OOP, Benefits and futures, class-Def, syntax, member function and data members, Access specifies static data member, defining objects, array of object friend function, object as function argument friend class. Topic
Teaching Days	25			
Periods Allotted	16			
Periods Available 16				
Teaching	Practicals/ Tutorials	Tests		
14	--	2		
Month: October			Topic:- Polymorphism and file handling	Polymorphism: Meaning, compile Time and Run time, virtual functions, pure virtual function, file, classes for file stream operations, opening and classing files, modes, file pointers, input- output operations, get () Put (), read () Write (). Test
Teaching Days	24			
Periods Allotted	16			
Periods Available 16				

Teaching	Practicals/ Tutorials	Tests		on topic 3&4
15	--	1		

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR

ANNUAL TEACHING PLAN

2019-20



Teachers Name :Mr.SudhirPatil

Subject :Computer Application

Class: B.C.A. Part III (SemI)

Paper No :I

Paper Title : Programming in 'C' Part-I

			Topic /Unit	Sub-units Planned
Month: June			Admissions	
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: July			Topic:-Problem Solving	Problem definition, analysis. ALGORITHM
Teaching Days		26		
Periods Allotted		16		
Periods Available 16				
Teaching	Practicals/ Tutorials	Tests		
16	-	1		
Month: August			Topic:-Introduction to c	characteristics of algorithm, examples on algorithm. FLOWCHARTS: Definition, features of flowcharts, symbols, examples, coding,running, Test History, features of c language, Character set, Identifiers: variables, constants,symbolic constants, keywords. Data types,
Teaching Days		25		
Periods Allotted		16		
Periods Available 16				
Teaching	Practicals/ Tutorials	Tests		
16	--	1		
Month: September			Topic:-Control Structures	Operators: Arithmetic, relational, logical,assignment, bitwise, increment/decrement and special operators. Structure of program, Input and Output Functions.Test : Conditional statements: if, If-else nested if-else, switch statement. Loops: while, for,do..While loop, Unconditional statements: Break, continue, exit, goto statements. Test
Teaching Days		25		
Periods Allotted		16		
Periods Available 16				
Teaching	Practicals/ Tutorials	Tests		
16	--	1		
Month: October			Topic:-Arrays and Strings:	Arrays: Meaning and definition, Declaration, Initialization and types of arrays. Strings: Meaning and definition, Declaration,Initialization String functionsstrlen(),strev(),strlwr(),strupr(),strcat(),strcmp()strcpy().Handling of character array.Test Revision
Teaching Days		24		
Periods Allotted		16		
Periods Available 16				
Teaching	Practicals/ Tutorials	Tests		

	Tutorials			
15	--	1		

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YASHWANTRAO CHAVAN MAHAVIDYALAYA, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Teachers Name :Miss. S.D.Kulkarni

Subject : Chemistry

Class: B.Sc Part – I (Sem I)

Paper No : II

Paper Title :Organic Chemistry



			Topic /Unit	Sub-units Planned
Month: November			Unit II: Stereochemistry	Introduction, Types of Stereoisomerism, Optical Isomerism:
Teaching Days	17			
Periods Allotted	2			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
2				
Month: December			Unit II: Stereochemistry 1. Estimation of Aspirin.	Concept of Chirality, Elements of Symmetry, Optical Isomerism in tartaric acid, 2, 3 Dihydroxybutanoic acid, Enantiomerism,
Teaching Days	26			
Periods Allotted	8			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
4	4			
Month: January			Unit II: Stereochemistry Practical Organic Qualitative Analysis: Detection of physical constant, type, functional group, Elements, and Confirmatory test. (Compound 1)	Diastereomerism and Meso compounds, Geometrical isomerism in C=C, C=N and alicyclic compounds. Nomenclature of stereoisomers: D and L, erythro and threo, R and S, E and Z.
Teaching Days	24			
Periods Allotted	8			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
4	4			
Month: February			Unit IV: Cycloalkenes, cycloalkenes and alkadienes	Cycloalkenes: - Introduction. Method of formation - a) By addition of carbene to alkene b) Action of metallic sodium on dihaloalkane c) Diels - Alder reaction d) By reduction of aromatic compounds, Chemical properties-
Teaching Days	24			
Periods Allotted	3			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

3				
Month: March				Cycloalkenes: Introduction, Method of formation from cyclic compounds, Chemical Properties of cycloalkenes Properties of alkadine
Teaching Days		26		
Periods Allotted		4		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
4				

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Teachers Name: Ms. K. H. Nardekar

Subject: Chemistry

Class: **B.Sc. Part-I (Sem - I)**

Paper No: II

Paper Title: Organic Chemistry

			Topic /Unit	Sub-units Planned
Month: November				
Teaching Days		15		
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: December				
Teaching Days		25		
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: January			Aromaticity	<ul style="list-style-type: none"> • Introduction • Characteristics properties of aromatic compounds • Meaning of terms used in aromatic chemistry • Mechanism of electrophilic substitution in benzene
Teaching Days		17		
Periods Allotted		6		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
5		1		
Month: February				
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR

ANNUAL TEACHING PLAN

2020-21

Teachers Name : Miss. N. S. Atuagde

Subject : physics

Class: **B.Sc Part - I (Sem - I)**

Paper No: I

Paper Title : **MECHANICS- II**

			Topic /Unit	Sub-units Planned
Month: November			Unit III- 1. Gravitation	Introduction, Newton's law of gravitation, Motion of Partical in central force feild, Kepler's law.
Teaching Days		17		
Periods Allotted		4		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
4				
Month: December			1. Gravitation	Satellite in circular orbit, Application of satellite, GPS, Weightlessness, Gensynchronous orbits
Teaching Days		26		
Periods Allotted		5		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
5				
Month: January			Unit IV- 2. Elasticity	Introduction, bending of beam, Cantilever, beam supported at both ends, torsional oscillation expression for torsional couple per unit twist
Teaching Days		24		
Periods Allotted		4		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
4				
Month: February			Elasticity	workdone in testing wire, expression for modules of rigidity
Teaching Days		24		
Periods Allotted		3		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
3				
Month: March			Elasticity	Determination of Young's modulus, modulus of regidity, Searles method
Teaching Days		26		
Periods Allotted		3		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
3				

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YASHWANTRAO CHAVAN MAHAVIDYALAYA, ISLAMPUR
ANNUAL TEACHING PLAN

2020-21

Teachers Name : Mrs. Neha N. Sali

Subject : Mathematics

Class : B. Sc. Part I(Sem-I)

Paper No:DSC-5A

Paper Title : Differential Calculus

			Topic /Unit	Sub-units Planned
Month: November			Unit1:Hyperbolic Functions	De- Moivre's Theorem. Applications of the above theorem Hyperbolic functions
Teaching Days	17			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	-			
Month: December			Unit1:Hyperbolic Functions CCPM I- Application of De Moivre's Theorem	Inverse Hyperbolic functions Relations between hyperbolic and circular functions
Teaching Days	26			
Periods Allotted	14			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	4			
Month: January			Unit1:Higher order DerivativesCCPM I- Examples on Leibnitz's Theorem	Successive Differentiation. Leibnitz's Theorem Partial Differentiation.
Teaching Days	24			
Periods Allotted	14			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	04			
Month: February			Unit2:The Real numbers CCPM I- Examples on Euler's Theorem CCPM I- Maxima & minima of function of two variables	2.4. Euler's Theorem Maxima and Minima for function of two variables Lagrange's Method of undetermined multipliers.
Teaching Days	24			
Periods Allotted	19			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	8			
Month: March			Unit2:The Real numbers CCPM I- Maxima & minima of function of two variables	2.4. Euler's Theorem Maxima and Minima for function of two variables Lagrange's Method of undetermined multipliers.
Teaching Days	25			
Periods Allotted	15			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	4			

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ANNUAL TEACHING PLAN

2020-21

Teachers Name : Jadhav Megharani Chandrakant

Subject : **Mathematics**

Class : **B. Sc. Part I (Sem I)**

Paper No : **II**

Paper Title : **Calculus(6A)**

			Topic /Unit	Sub-units Planned
Month: November			Unit – 1: - Mean Value Theorems and Indeterminate Forms CCPM-I:- Examples on Lagrange's Mean Value Theorem	<ul style="list-style-type: none"> • Rolle's Theorem, • Geometrical interpretation of Rolle's Theorem and Examples on Rolle's Theorem. • Lagrange's Mean Value Theorem, Geometrical interpretation of LMVT and Examples • Cauchy's Mean Value Theorem and Examples on it • Taylor's Theorem with Lagrange's and Cauchy's form of remainder, Examples
Teaching Days	17			
Periods Allotted	13			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
5	4			
Month: December			CCPM-I:- Examples on Cuachy's Mean Value Theorem	<ul style="list-style-type: none"> • Maclarin's Theorem with Lagrange's and Cauchy's form of remainder, Examples • Maclarin's series for $\sin x$, $\cos x$, e^x, $\log(1+x)$, $(1+x)^m$. • Indeterminate Forms and Examples on it. • L'Hospital Rule- Theorem & Examples.
Teaching Days	26			
Periods Allotted	14			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	4			
Month: January			Unit 2- Limits and Continuity of Real Valued Function CCPM-I:- L'Hospital's rule	<ul style="list-style-type: none"> • ϵ-δ definition of limit of function of one variable, Left hand side limits and Right hand side limits . • Theorems on Limits, Continuous Functions and Their Properties
Teaching Days	24			
Periods Allotted	14			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

10	4			
Month: February			CCPM-I:- Examples on Differentiability	<ul style="list-style-type: none"> • Types of Discontinuities and Examples on it. • Examples • Differentiability at a point, Left hand derivative, Right hand derivative,
Teaching Days		24		
Periods Allotted		14		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	4			
Month: March				<ul style="list-style-type: none"> • Differentiability in the interval $[a, b]$. • Theorem: Continuity is necessary but not a sufficient condition for the existence of a derivative. • Theorems.
Teaching Days		25		
Periods Allotted		10		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10				

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Teachers Name: Miss. P. V. Patil.

Subject : Chemistry

Paper No: I

Class : B.Sc Part-I (Sem - I)

Paper Title : Inorganic Chemistry

			Topic /Unit	Sub-units Planned
Month: November			1. Atomic Structure & Periodicity of Elements	Bohr's theory of Hydrogen atom, Wave particle duality, Heisenberg Uncertainty Principle, Quantum Numbers & significance
Teaching Days	6			
Periods Allotted	5			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: December			1. Atomic Structure & Periodicity of Elements	Electrons filling rules, Stability of empty, half-filled & completely filled orbitals, Periodicity of s-block elements- Electronic configuration & Properties
Teaching Days	16			
Periods Allotted	15			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: January			2. Chemical Bonding and Molecular structure (A) Ionic Bonding	Definition and formation of ionic bond. General characteristics of ionic bonding, Energetic in Ionic bond formation, Born-Haber cycle for NaCl and its applications, Fajan's Rule,
Teaching Days	14			
Periods Allotted	13			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: February			2. Chemical Bonding and Molecular structure (A) Ionic Bonding	Applications of Fajan's rule for - Polarizing power and polarizability, Ionic character in covalent compounds, Bond moment, dipole moment and percentage ionic character
Teaching Days	16			
Periods Allotted	13			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: March			3. Chemical Bonding & Molecular Structure- VBT	Concept of Hybridization, Conditions of hybridization, Types of Hybridization
Teaching Days	14			
Periods Allotted	12			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: April			4. Chemical Bonding & Molecular Structure- MOT	LCAO method, Types of MO's, Difference between BMO's & ABMO's 1. To determine strength of given oxalic acid solution. 2. To determine quantity of Fe(II) ions from the given solutions by titrating it with 0.1 N $K_2Cr_2O_7$ solution by using internal indicator
Teaching Days	14			
Periods Allotted	12			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: May			Inorganic chemistry	
Teaching Days	14			
Periods Allotted	12			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Teachers Name: **Miss. P. V. Patil**


Subject : Chemistry

Paper No: I

Class : **B.Sc Part - I (Sem I)**

Paper Title : **Inorganic Chemistry**

			Topic /Unit	Sub-units Planned
Month: April			4. Chemical Bonding & Molecular Structure- MOT Inorganic Chemistry	Conditions for overlap, Types of overlaps, Energy level sequence for MO n=1, n=2, MO diagrams for homo & hetero-nuclear diatomic molecules with examples 1. Estimation of amount of acetic acid from given vinegar sample. 2. Quality control-To determine percentage purity of given soda ash sample Na ₂ CO ₃
Teaching Days	14			
Periods Allotted	14			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	2	1		
Month: May			Physical Chemistry	1. Determination of Equivalent weight of Mg by Eudiometer. 2. Chemical Kinetics - to determine specific reaction rate of hydrolysis of methyl acetate in presence of HCl
Teaching Days	15			
Periods Allotted	14			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	2			
Month: June			Physical Chemistry	1. Determination of heat of ionization of weak acid. 2. Determination of enthalpy of neutralization hydroxide of hydrochloric acid with sodium
Teaching Days	17			
Periods Allotted	16			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	2			
Month: July			Physical Chemistry	1. Determination of integral enthalpy of solution of salts (NH ₄ Cl, KNO ₃)
Teaching Days	14			
Periods Allotted	14			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: August				
Teaching Days	13			
Periods Allotted	12			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		


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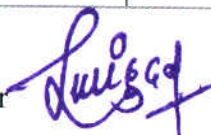
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YASHWANTRAO CHAVAN MAHAVIDYALAY, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Teachers Name : Jagatap Nilesh Ramesh
 Subject : **Computer Science**
 Paper No: **DSC-11A**

Class : **B. Sc. Part I (Sem - I)**
 Paper Title: **Problem Solving using Computers**

			Topic /Unit	Sub-units Planned
Month: December			Unit – 1: - Problem Solving Using Computers	<ul style="list-style-type: none"> • (A) Planning the Computer Program: Concept of problem solving, Problem definition, Program design, Debugging, • (B) Logical Continuum of Program of Programming : Language, Introduction to GCC Compiler,
Teaching Days	26			
Periods Allotted	4			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
3	1			
Month: January			Unit – II: Control Structures and Arrays	<ul style="list-style-type: none"> • Used to the Data Types , Built-In Standard Library, Nitty-Gritty of Programming, • structures, Algorithm, Pseudocode, Procedure, Program, C Program Structure, Vi Editor, • Whittling the First 'C' Program, Working, • Sequences.
Teaching Days	25			
Periods Allotted	4			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
2	2			
Month: February			Unit – II: Control Structures and Arrays	<ul style="list-style-type: none"> • (A) Decision Making and Looping Constructs: Introduction, The if Statement, The if-else Statement, Nested if-else, The Switch Case Statement, The while Loop, The odd Loop(do while), the for Loop, Loop Control Statements, Infinite Loop.
Teaching Days	22			
Periods Allotted	6			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
4	2			
Month: March			Unit – II: Control Structures and Arrays	<ul style="list-style-type: none"> • (B) Arrays: Features, Definition, Types of Arrays, Single-Dimensional Array, Two-Dimensional Array, Multi-Dimensional Array.
Teaching Days	26			
Periods Allotted	5			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
4	1			

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YASHWANTRAO CHAVAN MAHAVIDYALAYA, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Teachers Name : Miss. A.P.Dhotre
 Subject : physics
 Paper No : I

Class : B.Sc Part - I (Sem - I)
 Paper Title : MECHANICS-I

			Topic /Unit	Sub-units Planned
Month: November			1. Vectors	Vector algebra, Scalar and vector products,
Teaching Days	17			
Periods Allotted	2			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
2				
Month: December			1. Vectors	Derivatives of a vector with respect to a parameter (velocity and acceleration).
Teaching Days	26			
Periods Allotted	4			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
4				
Month: January			2. Ordinary Differential Equations:	Differential equation; ordinary and partial differential equations,
Teaching Days	24			
Periods Allotted	3			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
3				
Month: February			.Ordinary Differential Equations:	1 st order homogeneous differential equations,
Teaching Days	24			
Periods Allotted	3			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
3				

Month: March		Ordinary Differential Equations:	2 nd order homogeneous differential equations with constant Coefficients. Examples
Teaching Days	26		
Periods Allotted	2		
Periods Available			
Teaching	Practicals/ Tutorials	Tests	
2			

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Teachers Name: Mr.S.K.Patil.

Subject : Chemistry

Class : B.Sc Part-I (Sem - I)

Paper No: I Paper Title : Organic chemistry

			Topic /Unit	Sub-units Planned
Month: November			Fundamentals of organic chemistry	Curved Arrow Notations, Cleavage of Bonds, Organic molecular species, Electronic Displacements, Reactivate intermediates Exercises
Teaching Days 15				
Periods Allotted 8				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	2		Organic chemistry	Identification of organic compound 1) Oxalic acid 2) B- naphthol
Month: December			Organic chemistry	Identification of organic compound 3) Thiourea. 4) Aniline. 5) Chloroform 6) Benzoic acid
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	04		Organic chemistry	Identification of organic compound 3) Thiourea. 4) Aniline. 5) Chloroform 6) Benzoic acid
Month: January			Inorganic chemistry Physical chemistry	1)Preparation of std.KMnO ₄ and determine strength of given Oxalic acid solution. 2)To determinate Fe(II) ions from the given solution by titration with 0.1N K ₂ Cr ₂ O ₇ 1) Determine Eq.Wt. of My by Eudiometer 2) Hydrolysis of methyl acetate in presence of 0.1N HCl
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	4			
Month: February			Organic Chemistry	1) Estimation of Asparin. 2) Estimation of Acetamide 3) Revision identification of organic compound
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	4			

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Dept. Of Chemistry

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN

2020-21

Teachers Name: Ms. K. H. Nardekar

Subject: Chemistry

Class: **B.Sc. Part - 1 (Sem II)**

Paper No: **III**

Paper Title: Physical Chemistry

			Topic /Unit	Sub-units Planned
Month: April			Chemical Energetics	A) Thermodynamics- Introduction <ul style="list-style-type: none"> • Basic concepts of Thermodynamics • Spontaneous and non-spontaneous processes • Carnot's cycle and its efficiency • Concepts of Entropy • Third law of Thermodynamics
Teaching Days	6			
Periods Allotted	6			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
6				
Month: May			Chemical Energetics	(B) Thermochemistry- Important principles & definitions of Thermochemistry <ul style="list-style-type: none"> • Integral and differential enthalpy of solution • Variation of enthalpy of reaction with temperature • Exercises
Teaching Days	25			
Periods Allotted	6			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
6		1		
Month: June			Chemical Kinetics	<ul style="list-style-type: none"> • Introduction • Rate of a reaction • Order & molecularity of reaction • First order reactions • Pseudo-Unimolecular reactions • Second order reaction • Determination of order of reaction • Effect of temperature on the rate of reaction • Theories of reaction rate • Solved numerical problems
Teaching Days	25			
Periods Allotted	6			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
6		1		
Month: July			Kinetic theory of Gases	<ul style="list-style-type: none"> • Introduction • Postulates or assumptions of Kinetic theory of gases • Derivation of Kinetic gas equation • Ideal and non-ideal gases • Derivations of real gases from ideal behavior
Teaching Days	23			
Periods Allotted	6			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

				<ul style="list-style-type: none"> • Compressibility factor • Causes of deviations from gas laws
5				
Month: August			Kinetic theory of Gases	<ul style="list-style-type: none"> • Van der waal's equation of state for real gases • Critical phenomena • Relationship between critical constants and Van der waal's constants • Maxwell-Boltzmann distribution laws of molecular velocities and energies
Teaching Days		25		
Periods Allotted		5		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
4		1		

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Yashwantrao Cheven Mahavidyalaya
URUN-ISLAMPUR, (Dist. Sangli)

YASHWANTRAO CHAVAN MAHAVIDYALAYA, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Name : Ms. A. A. Patil

Subject : Physics

Class : B.Sc. Part - I (Sem I)

Paper No : II

Paper Title : Mechanics -II



			Topic /Unit	Sub-units Planned
Month: November			Unit - III 2. Oscillations LAB -B 1. Measurements of length (or diameter) using vernier calliper, screw gauge and Travelling microscope.	Basic concepts, Simple harmonic motion
Teaching Days	17			
Periods Allotted	5			
Periods Available				
Teaching	Practical's/ Tutorials	Tests		
1	4			
Month: December			2. Oscillations 2.To study the Motion of a Spring and calculate (a) Spring Constant (b) Value of g.	Differential equation of SHM and its solutions, Kinetic and Potential Energy
Teaching Days	26			
Periods Allotted	6			
Periods Available				
Teaching	Practical's/ Tutorials	Tests		
2	4			
Month: January			2. Oscillations 3. To determine g by Bar Pendulum.	Total Energy and their time averages,
Teaching Days	24			
Periods Allotted	5			
Periods Available				
Teaching	Practical's/ Tutorials	Tests		

1	4			
Month: February			2. Oscillations 4. To determine g by Kater's Pendulum	Damped oscillations.
Teaching Days		24		
Periods Allotted		5		
Periods Available				
Teaching	Practical's/ Tutorials	Tests		
1	4			
Month: March			2. Oscillations 5. Poission ratio for rubber using rubber tube.	Forced Oscillations. Numericals.
Teaching Days		26		
Periods Allotted		5		
Periods Available				
Teaching	Practical's/ Tutorials	Tests		
1	4			


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YASHWANTRAO CHAVAN MAHAVIDYALAYA, ISLAMPUR
ANNUAL TEACHING PLAN

2020-21

Teachers Name: Miss. Jadhav Megharani Chandrakant

Subject : **Mathematics**

Class : **B. Sc. Part I (Sem II)**

Paper No: **III**

Paper Title: **Differential Equations**

			Topic /Unit	Sub-units Planned
Month: April			Unit 1: Differential Equations of First Order CCPM-I:- Radius of Curvature for Cartesian curve	<ul style="list-style-type: none"> Differential Equations of First Order and First Degree. 1. Exact Differential Equations. 2. Linear Differential Equations 3. Bernoulli's Equation.
Teaching Days		17		
Periods Allotted		14		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	4			
Month: May			CCPM-I:- Examples on Exact Differential Equation CCPM-I:- Examples on Clairaut's Form	<ul style="list-style-type: none"> Differential Equations of First Order but Not of First Degree 1. Clairaut's Form 2. Equations Reducible to Clairaut's Form.
Teaching Days		25		
Periods Allotted		14		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	4			
Month: June			Unit 2: Linear Differential Equations CCPM-I:- Examples on LDE's with Constant Coefficient's.	<ul style="list-style-type: none"> Linear Differential Equations with Constant Coefficients
Teaching Days		26		
Periods Allotted		15		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	4			
Month: July				<ul style="list-style-type: none"> Homogeneous Linear Differential Equations (The Cauchy-Euler Equations) 1. Legendre's Linear Equations. 2. Method of Solution of Legendre's Linear Equations
Teaching Days		26		
Periods Allotted		10		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	-			

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ANNUAL TEACHING PLAN
2020-21

Teachers Name : Mrs. Neha N. Sali


Subject : Mathematics


Class : B. Sc. Part I (Sem II)

Paper No : DSC – 6B

Paper Title : Higher Order Ordinary Differential Equations and Partial Differential Equations

			Topic /Unit	Sub-units Planned
Month: April			UNIT 1: Linear Differential Equations CCPM I- Simultaneous differential equations	Introduction, Method of solution Examples of second order linear differential equations Simultaneous differential equations
Teaching Days	17			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
6	4			
Month: May			UNIT 1: Linear Differential Equations CCPM I- Total differential equations	Methods of solving and types of Ordinary Simultaneous Differential equations Geometrical relation between total differential and simultaneous differential equations
Teaching Days	25			
Periods Allotted	14			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	4			
Month: June			UNIT 2: Partial Differential Equations CCPM I- Radius of curvature for parametric curve & polar curve	2.1 Definition, order, degree, formation , examples of PDE
Teaching Days	26			
Periods Allotted	16			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	4			
Month: July			UNIT 2: Partial Differential Equations CCPM I- Examples on Charpit's method	Lagrange's equations and method of solving Method of solution and examples to solve Charpit's method
Teaching Days	26			
Periods Allotted	14			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	4			


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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Teachers Name : Mr. S. K. Patil.

Subject : Chemistry

Class : B.Sc Part - 1 (Sem II)

Paper No : IV

Paper Title : Analytical Chemistry

			Topic /Unit	Sub-units Planned
Month: April			1) Introduction to analytical chemistry	Introduction, Importance of analysis, Analytical processes, Methods of analysis, Sampling of solids, liquids and gases.Errors types of errors,Methods of expressing accuracy. Significant figures,Mean, median,standard deviation(Numerical problems)
Teaching Days	15			
Periods Allotted	6			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
6	2		Organic	Estimation of Asparin, Estimation of Acetamide.
Month: May			2. Chromatography	Principle, Classification basic terms of chromatography, Paper chromatography, Thin Layer Chromatography.
Teaching Days	25			
Periods Allotted	12		3.Theory of titrimetric analysis	Important terms, Acid base indicators-Phenolphthalein, Methyl Orange, Theory of indicators- Ostwald's ionization theory, Neutralisation curves & Choice of indicators
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
6	3		Physical	Determination of Eq. Wt. of Mg by Eudiometer, Hydrolysis of Methyl acetate, Enthalpy of ionization of weak acid.
Month: June			3.Theory of titrimetric analysis	Compleximetric titrations
Teaching Days	25			
Periods Allotted	12		4. Water analysis	Physical analysis, Chemical analysis-COD and BOD
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

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Dept. Of Chemistry
Y. C. College, Islampur

6	3		Physical	Enthalpy of neutralization, Integral enthalpy of solution of salts, Enthalpy of hydration.
Month: July			5. Analysis of fertilizers	Types of Fertilizers, Necessity and qualities of good fertilizers, sampling and sample preparations,
Teaching Days		23		
Periods Allotted		5		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
3	2		Inorganic	Paper chromatography a) $\text{Ni}^{2+} + \text{Cu}^{2+}$ b) $\text{Ni}^{2+} + \text{Co}^{2+}$
Month: August			5. Analysis of fertilizers	analysis of nitrogen, phosphorus and potassium, analysis of total nitrogen by kjeldahl's method, Phosphomolybdate and STPB method
Teaching Days		25		
Periods Allotted		5		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
4				


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YASHWANTRAO CHAVAN MAHAVIDYALAYA, ISLAMPUR

ANNUAL TEACHING PLAN

2020-21

Subject : physics

Class : B.Sc Part - I (Sem - II)

Paper No :IV

Paper Title : ELECTRICITY AND MAGNETISM-II

			Topic /Unit	Sub-units Planned
Month: April			1 A.C. Circuits:	Complex numbers and their application in solving a. c. series LCR circuit,
Teaching Days	17			
Periods Allotted	2			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
2				
Month: May			1 A.C. Circuits	complex impedance, Reactance, Admittance, and Susceptance
Teaching Days	25			
Periods Allotted	2			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
2				
Month: June			1 A.C. Circuits	Resonance in LCR series circuit, Sharpness of resonance (qualitative treatment only)
Teaching Days	26			
Periods Allotted	3			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
3				
Month: July			1 A.C. Circuits	Q-factor (definition only) A.C. Bridge - Owens's Bridge
Teaching Days	26			
Periods Allotted	2			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
2				

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Subject : Physics

Class: B.Sc. Part - I (Sem - II)

Paper No: VIII

Paper Title : ELECTRICITY AND MAGNETISM-II

			Topic /Unit	Sub-units Planned
Month: April			Unit III- 2.Magnetism	Introduction, Biot savrats law, Ampere circuital law, Magnetic vector potential.
Teaching Days	17			
Periods Allotted	5			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
5				
Month: May			1Magnetism	Magnetic properties of material, Brif introduction of diamagnetic, paramagnetic, and ferromagnetic materials.
Teaching Days	25			
Periods Allotted	4			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
4				
Month: June			1.Electromagnetic Induction	Introduction, Faraday's law of Electromagnetic induction, Lenzs law, self induction)
Teaching Days	26			
Periods Allotted	3			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
3				
Month: July			1Electromagnetic induction	Mutual Induction, transformer, energy stored in magnetic field.
Teaching Days	26			
Periods Allotted	3			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
3				

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YASHWANTRAO CHAVAN MAHAVIDYALAYA, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Teachers Name: Miss. S.D.Kulkarni

Subject: chemistry

Class: B.Sc Part - I (SEM II)

Paper No:

Paper Title:

			Topic /Unit	Sub-units Planned
Month: April			Organic Qualitative Analysis: Detection of physical constant, type, functional group, elements, and Confirmatory test.	Compound 2
Teaching Days		17		
Periods Allotted		4		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
-	4			
Month: May			Organic Qualitative Analysis: Detection of physical constant, type, functional group, elements, and Confirmatory test.	Compound 3
Teaching Days		25		
Periods Allotted		4		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
-	4			
Month: June			Organic Qualitative Analysis: Detection of physical constant, type, functional group, elements, and Confirmatory test.	Compound 4
Teaching Days		26		
Periods Allotted		4		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
-	4			
Month: July			Organic Qualitative Analysis: Detection of physical constant, type, functional group, elements, and Confirmatory test.	Compound 5
Teaching Days		26		
Periods Allotted		4		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
-	4			

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ANNUAL TEACHING PLAN

2020-21

Teachers Name : Jagatap Nilesh Ramesh

Subject : **Computer Science**

Paper No: **DSC-11B**

Class : **B. Sc. Part I (Sem - II)**

Paper Title: **Programming Skills Using 'C'.**

			Topic /Unit	Sub-units Planned
Month: May			Unit – 1: - Pointers and Functions:	<ul style="list-style-type: none"> (A)Pointers: Pointer Data Type, Pointer Declaration, Pointer Initialization, Arrays and Pointers, Pointers and One-Dimensional Arrays, Pointers and Two-Dimensional Arrays
Teaching Days	26			
Periods Allotted	4			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
3	1			
Month: June			Unit – II: Structures and File Handling	<ul style="list-style-type: none"> (B)Programming for Functional Functions: Introduction, Function Declaration, Function Definition, Function Call, Nested Functions Recursion.
Teaching Days	25			
Periods Allotted	4			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
2	2			
Month: July			Unit – II: Structures and File Handling	<ul style="list-style-type: none"> (A)Structure and Dynamic Memory Allocation : User-Defined Data Types, Defining Structure, Nesting of Structure, Dynamic Memory Allocation,.
Teaching Days	22			
Periods Allotted	6			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
4	2			
Month: August			Unit – II: Structures and File Handling	<ul style="list-style-type: none"> (B)File Handling: Defining and opening a file, File opening modes- read, write, append, closing a file, Input/Output Operations on file: getc(), putc(), getw(), putw(), fprintf(), fscanf(), ftell(), fseek(), rewind().
Teaching Days	26			
Periods Allotted	5			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
4	1			

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Teachers Name: Ms. K. H. Nardekar

Subject: Chemistry

Class: **B.Sc. Part - II (Sem III)**

Paper No: IV

Paper Title: Industrial Chemistry/Practicals

			Topic /Unit	Sub-units Planned
Month: November				
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: December				
Teaching Days		25		
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	4		Physical Chemistry	Chemical Kinetics I, II,III,IV
Month: January				
Teaching Days		17		
Periods Allotted		16		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	4	1	Inorganic Chemistry	1)Gravimetric Estimation of Ba.2) Fertilizer Analysis3) Water Analysis 4) Estimation of Vitamin C
Month: February				
Teaching Days		14		
Periods Allotted		4		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
			Basic concepts in Industrial Chemistry	A) Basic concepts of industry • Introduction • Difference between classical chemistry and industrial chemistry • Raw material for the chemical industry • Material safety data sheets • Units that make up a chemical process • Flow diagrams • Material balances • Material balances for multiple species • Mass balance equation procedure
4	3	1	Organic Chemistry	1) Preparation of p- nitroacetanilide 2) Preparation of phthalamide 3) Estimation of Ester

Month: March				
Teaching Days		13		
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	2		Inorganic Chemistry	1) Gravimetric Estimation of Fe 2) % Purity of FAS

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Teachers Name: Mr. S.K. Patil

Subject : Chemistry

Paper No: III & IV

Class : B.Sc Part - II (Sem III)

Paper Title : Physical Chemistry

Industrial Chemistry

			Topic /Unit	Sub-units Planned
Month: November			Electrolytic Conductivity	Conduction of electricity, Types of conductors, Variations of conductivity, specific, Equivalent and molar conductivity with dilution for weak and strong Electrolytes
Teaching Days	15			
Periods Allotted	6			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	2		Physical Chemistry	Chemical kinetics I,II
Month: December			Electrolytic Conductivity	Measurement of conductance by Wheatstone Bridge. Kohlrausch law and its applications. Conductometric Titrations. Advantages of conductometric Titrations. Migrations of ions, Hittorf's Rule and Transference Number. Determination of transport number Numerical problems
Teaching Days	25			
Periods Allotted	12			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	4	1	Physical Chemistry Inorganic	Chemical Kinetics, III, IV Preparation I, II
Month: January			Surface Chemistry	Introduction, Adsorption as surface phenomenon (mechanism) Demonstration of Adsorption Characteristics of adsorption, Factors affecting Adsorption. Types of Adsorption, Distinction between physical adsorption and chemical adsorption. Adsorption isotherm, Types of physical Adsorption isotherms. Application of adsorption. Introduction, Third Order
Teaching Days	17			
Periods Allotted	16			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

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Dept. of Chemistry
ISLAMPUR

			Chemical Kinetics	Reactions.Theories of reaction Rate
	4	1	Inorganic Chemistry	1)Gravimetric Estimation of Ba.2)Fertilizer Analysis3) Water Analysis 4) Estimation of Vitamin C
Month: February			Unit Operations	Size reduction- Principle ,Jaw crusher,ball mill Size enlargement- Principle, pellet mill,tumbling agglomerators Separation- Magnetic separation,Froth flotation,Distillation- Distillation of liquid mixtures,Types of distillation,Types of columns and packing,condensers,Vacuum distillation,Spinning-band distillation,steam distillation
Teaching Days		14		
Periods Allotted		14		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	3	1		1) Preparation of p-nitroacetanilide 2) Preparation of phthalamide 3) Estimation of Ester
Month: March				
Teaching Days		13		
Periods Allotted		12		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	2	1		1) Gravimetric Estimation of Fe 2) % purity of FAS


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YASHWANTRAO CHAVAN MAHAVIDYALAYA, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Name : Ms. A. A. Patil

Subject : Physics

Class : B.Sc. Part - I (Sem II)

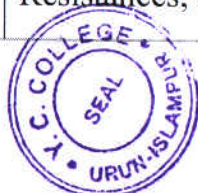
Paper No : III

Paper Title : Electricity and Magnetism - I

			Topic /Unit	Sub-units Planned
Month: April			1. Vector Analysis LAB –B 1.Frequency of A. C. mains by sonometer	Scalar and Vector product, gradient, divergence, Curl and their significance, Vector Integration
Teaching Days	17			
Periods Allotted	12			
Periods Available				
Teaching	Practical's/ Tutorials	Tests		
8	4			
Month: May			1. Vector Analysis 2.To study the a series LCR circuit and determine its (a) Resonant Frequency, (b) Quality Factor.	Line, surface and volume integrals of Vector fields, Gauss-divergence Theorem and Stoke's theorem of vectors (statement only).
Teaching Days	25			
Periods Allotted	11			
Periods Available				
Teaching	Practical's/ Tutorials	Tests		
7	4			
Month: June			2.Electrostatics 3.To study a parallel LCR circuit and determine its (a) Anti-resonant frequency and (b) Quality factor Q.	Electrostatic Field, electric flux, Gauss's theorem of electrostatics, Electric potential as line integral of electric field, potential due to a point charge,
Teaching Days	26			
Periods Allotted	8			
Periods Available				
Teaching	Practical's/ Tutorials	Tests		
4	4			
Month: July			2.Electrostatics 4.To use a multimeter for measuring (a) Resistances, (b) AC and	electric dipole, uniformly Charged spherical shell and solid sphere, Calculation of electric
Teaching Days	26			
Periods Allotted	12			
Periods Available				

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Teaching	Practical's/ Tutorials	Tests	DC Voltages, (c) DC Current, and (d) checking electrical fuses. 5. To verify the Thevenin theorem.	field from potential.
4	8			

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YASHWANTRAO CHAVAN MAHAVIDYALAYA, ISLAMPUR
ANNUAL TEACHING PLAN

2020-21

Teachers Name: Miss. Jadhav Megharani Chandrakant


Subject : **Mathematics**


Class : **B. Sc. Part II Sem-III**

Paper No : **VI**

Paper Title : **Algebra-I**

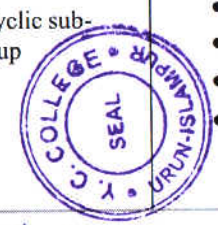
			Topic /Unit	Sub-units Planned
Month: November			Unit1: Matrices and Relations CCPM-II:- Eigen Values & Eigen Vectors	<ul style="list-style-type: none"> • Revision on Matrices • Hermitian and Skew Hermitian matrices. • Rank of a matrix, Row-echelon form • System of equations • Gaussian elimination and Gauss Jordan method • Eigen values, Eigen vectorsof a matrix
Teaching Days		17		
Periods Allotted		16		
Periods Available				
Teaching	Practicals / Tutorials	Tests		
12	4			
Month: December			CCPM-II:- Cayley Hamilton Theorem CCPM-III:- Accessing Elements of matrix	<ul style="list-style-type: none"> • Cayley Hamilton theorem. • Relations: • equivalence relations and Partial ordering relations. • Digraphs of relations, matrix representation. Composition of relations . Transitive closure, Warshall's algorithm Equivalence classes, Partition
Teaching Days		26		
Periods Allotted		20		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	8			
Month: January			Unit2: Groups CCPM-II:- Examples on Group & order of anelement CCPM-III:- Sub-Matrix	<ul style="list-style-type: none"> • Definition of Binary Operations,examples. Groupsand its Properties. • Quaternion group and Order ofthe group • Normalizer & Center of group G.
Teaching Days		24		
Periods Allotted		18		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	8			
Month: February			CCPM-II:- Cyclic sub-group	<ul style="list-style-type: none"> • Subgroups and theorems • Theorms • Cyclic Groups Theorem • Cosets and theorms on it • Revision
Teaching Days		24		
Periods Allotted		14		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	4			
Month: March			CCPM-II:- Cyclic sub-group	<ul style="list-style-type: none"> • Subgroups and theorems • Theorms • Cyclic Groups Theorem • Cosets and theorems on it • Revision
Teaching Days		25		
Periods Allotted		14		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	4			


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ANNUAL TEACHING PLAN
2020-21

Teachers Name : Mrs. Neha N. Sali

Subject : Mathematics

Class : B. Sc. Part II (Sem III)

Paper No : DSC-5C

Paper Title : Real Analysis-I

			Topic /Unit	Sub-units Planned
Month: November			Unit I: Functions and Countable sets CCPM II- Range of functions	1.1.Sets. 1.2.Functions
Teaching Days		17		
Periods Allotted		13		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
5	4			
Month: December			Unit I: Functions and Countable sets CCPM II- Mathematical Induction CCPM II- Types of function	Mathematical Induction Countable Sets
Teaching Days		26		
Periods Allotted		18		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	8			
Month: January			Unit I: Functions and Countable sets CCPM III- Introduction to SCILAB CCPM III- Matrix in SCILAB	
Teaching Days		24		
Periods Allotted		13		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
9	4			
Month: February			Unit 2: The Real numbers CCPM III- Creating Polynomials in SCILAB	Algebraic and Order Properties of real numbers Inequalities Absolute Value and neighbourhood
Teaching Days		24		
Periods Allotted		14		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	4			
Month: March			Unit 2: The Real numbers CCPM III- Plotting graph in SCILAB	Completeness property of real numbers Intervals
Teaching Days		24		
Periods Allotted		14		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	4			

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Yashwantrao Chavan Mahavidyalaya

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YASHWANTRAO CHAVAN MAHAVIDYALAYA, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Teachers Name: Miss. A.P .Dhotre

Subject : physics

Class: B.Sc Part - II (Sem III)

Paper No: V

Paper Title:

THERMAL PHYSICS AND STATISTICAL MECHANICS – I

			Topic /Unit	Sub-units Planned
Month: November			Unit II: Laws of Thermodynamics	Thermodynamic system, thermodynamic variables, equation of state, 1.To investigate the motion of coupled oscillators
Teaching Days	17			
Periods Allotted	7			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
3	4			
Month: December			Laws of Thermodynamic	thermodynamic equilibrium, Zeroth Law of thermodynamics, Internal energy, First law of thermodynamics, 2.To determine coefficient of viscosity of water by capillary flow method (Poiseuille's method)
Teaching Days	26			
Periods Allotted	9			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
5	4			
Month: January			Laws of Thermodynamic	conversion of heat into work, specific heats C_p & C_v , Applications of First Law (Isothermal process, Adiabatic process, Isochoric, Isobaric), relation between C_p & C_v , 3.To determine viscosity of liquid by Searle's viscometer.
Teaching Days	24			
Periods Allotted	9			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
5	4			
Month: February			Laws of Thermodynamic	work done during isothermal and adiabatic processes, reversible & irreversible processes, Second law of thermodynamics, Carnot's ideal heat engine, Carnot's cycle (Working, efficiency), Carnot's theorem 4.To determine velocity of sound in air by resonating bottle.
Teaching Days	24			
Periods Allotted	8			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
4	4			
Month: March			Laws of Thermodynamic	Entropy (concept & significance), Entropy changes in reversible & irreversible
Teaching Days	26			
Periods Allotted	7			
Periods Available				

Teaching	Practicals/ Tutorials	Tests	5. To determine frequency of a crystal oscillator .	Processes, Third law of thermodynamics, Unattainability of absolute zero.
3	4			

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Teachers Name: Miss. N.S. Atugade

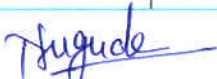
Subject : physics

Class: B.Sc Part - II (Sem III)

Paper No: V

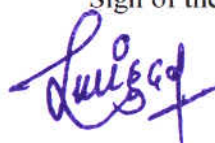
Paper Title: THERMAL PHYSICS AND STATISTICAL MECHANICS - I

			Topic /Unit	Sub-units Planned
Month: November			Unit I- Kinetic theory of gases and Thermometry	Introduction, Mean free path and molecular diameter, correction applied by claussius and Maxwell's.
Teaching Days	17			
Periods Allotted	8			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
4	4		1. Thermocouple I	
Month: December			Kinetic theory of gases and Thermoy	Maxwell's law of distribution, Experimental varification, Transport phenomenon, Transport of Momentum,
Teaching Days	26			
Periods Allotted	9			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
5	4		2. Thermocouple II	
Month: January			Kinetic theory of gases and Thermometry	Transport of Gas, Transport of Mass, law of equipartition of energy, Application, Principle of Thermometry, Temperature scale.
Teaching Days	24			
Periods Allotted	9			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
5	4		3. Stefens constant	
Month: February			Kinetic theory of gases and Thermometry	Platinum resistance Thermometer, mercury thermometer, Thermocouple, Thermistor as thermometer
Teaching Days	24			
Periods Allotted	9			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
5	4		3. Thermal conductivity by Lee and Charltons disc method.	
Month: March			Viscosity	Rate of flow of liquid in capillary tube, Poiseulls formula Poiseulls experiment, variation of viscosity of liquid with temperatures lubricant
Teaching Days	26			
Periods Allotted	9			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
5	4		5. Thermal conductivity of copper by Searles apparatus.	


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YASHWANTRAO CHAVAN MAHAVIDYALAYA, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Teachers Name :Miss. S.D.Kulkarni

Subject : Chemistry

Class : B.Sc Part - II (Sem - III)

Paper No : VI

Paper Title :Industrial chemistry

			Topic /Unit	Sub-units Planned
Month: November			Unit III. Corrosion & Electroplating	Introduction of corrosion, Electrochemical theory of corrosion, Factors affecting on corrosion -i. Position of metals in the electrochemical series on the basis of standard reduction potential ii. Purity of metal
Teaching Days	17			
Periods Allotted	4			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
4	-			
Month: December			Unit III. Corrosion & Electroplating	iii.Effect of moisture iv. Effect of oxygen (differential aeration principle) v. Hydrogen overvoltage, Methods of protections of metals from corrosion, Electroplating: Electrolysis, Faraday's laws, Cathode current Efficiency, Basic principles of electroplating, Cleaning of articles, Electroplating of chromium, Anodizing
Teaching Days	26			
Periods Allotted	5			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
5	-			
Month: January			Unit IV Paper Industry	Manufacturing of Pulp, Types of pulp-Sulphate and soda ,Manufacturing of paper, calendaring ,ecological problems of Indian Paper industry,
Teaching Days	24			
Periods Allotted	5			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
5	-			
Month: February			Paper Industry	Features of good paper industry Introduction, Soaps - Raw materials, Types of soaps,
Teaching Days	24			
Periods Allotted	5			
Periods Available				
Teaching	Practicals/ Tutorials	Tests	UnitV	

	Tutorials		Soaps and Detergents	Cleansing action of soap
5	-			
Month: March			UnitV Soaps and Detergents	Manufacture of soap - Boiled or Hot Process, Detergents - Raw Materials, Types of Detergents: Anionic, cationic and amphoteric,Preparation of Teepol and Deriphath, Comparisons between soaps and detergents.
Teaching Days		26		
Periods Allotted		3		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
3	-			

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR

ANNUAL TEACHING PLAN

2020-21

Subject : Chemistry

Class : B.Sc Part - II (Sem - III)

Paper No : V

Paper Title : Physical Chemistry

			Topic /Unit	Sub-units Planned
Month: November				
Teaching Days				
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: December				
Teaching Days		6	4. Nuclear Chemistry	Types of radiations, Properties of alpha, beta, gamma radiations,
Periods Allotted		5		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: January				
Teaching Days		5	4. Nuclear Chemistry	Geiger Muller method, Scintillation counter method, Geiger-Nuttal relation
Periods Allotted		4		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
		1		

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YASHWANTRAO CHAVAN MAHAVIDYALAY, ISLAMPUR

ANNUAL TEACHING PLAN

2020-21

Teachers Name : Jagatap Nilesh Ramesh

Subject : **Computer Science**

Paper No: **DSC-11C**

Class : **B. Sc. Part II (Sem - III)**

Paper Title: **PHP and MySQL**

			Topic /Unit	Sub-units Planned
Month: December			Unit – 1: - Introduction to PHP Scripting	<ul style="list-style-type: none"> Introduction, Evaluation, Features, PHP Script(PHP tags <?php...?>, SGML-style tags<?...?>,ASP style <% ... %>, HTML Script Tag Variables: Scope Functions Constant: define() Operators Precedence Strings:
Teaching Days	26			
Periods Allotted	4			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
3	1			
Month: January			Unit – II: HTML, HTML forms and MySql connectivity	<ul style="list-style-type: none"> Decision Making Statements: Iterative Statements: continue statement Exit statements: User Defined Functions: variables, Dynamic Function call Arrays:
Teaching Days	25			
Periods Allotted	4			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
2	2			
Month: February			Unit – II: HTML, HTML forms and MySql connectivity	<ul style="list-style-type: none"> Introduction: HTML, necessary tags to design form layout. Forms: HTML forms, action and get & post methods. PHP super global variables (\$_PHP_SELF, \$_GET, \$_POST,
Teaching Days	22			
Periods Allotted	6			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
4	2			
Month: March			Unit – II: HTML, HTML forms and MySql connectivity	<ul style="list-style-type: none"> (MySql Database(Old or Improved): cursor
Teaching Days	26			
Periods Allotted	5			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
4	1			

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YASHWANTRAO CHAVAN MAHAVIDYALAYA, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Name : Ms. A. A. Patil

Subject : Physics

Paper No : VI

Class : B.Sc. Part - II (Sem III)

Paper Title : Waves and Optics -I

			Topic /Unit	Sub-units Planned
Month: November			Unit I: 1. Superposition of Harmonic Oscillations	Linearity and superposition principle, Superposition of two collinear harmonic oscillations for oscillations having equal frequencies (Analytical and geometrical methods) and oscillations having different frequencies (Beats),
Teaching Days	17			
Periods Allotted	4			
Periods Available				
Teaching	Practical's/ Tutorials	Tests		
4				
Month: December			1. Superposition of Harmonic Oscillations 2. Waves Motion and Ultrasonic waves	Superposition of two perpendicular harmonic oscillations- for oscillations having equal frequencies (Graphical and analytical methods) and oscillations having different frequencies (Lissajous figures), Uses of Lissajous figures., Waves Motion: Transverse waves on a string, travelling and standing waves on a string, Normal modes of a string, Group velocity and Phase velocity, Plane waves, Spherical waves. Ultrasonic waves: Piezo-electric effect,
Teaching Days	26			
Periods Allotted	7			
Periods Available				
Teaching	Practical's/ Tutorials	Tests		
7				



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Month: January			2. Waves Motion and Ultrasonic waves 3. Coupled Oscillations	Production of ultrasonic waves by Piezo-electric generator, Detection of ultrasonic waves, Properties ultrasonic waves, Applications of ultrasonic waves. Frequencies of coupled oscillatory systems, normal modes and normal co-ordinates, energy of coupled oscillations, energy transfer in coupled oscillatory system.
Teaching Days	24			
Periods Allotted	7			
Periods Available				
Teaching	Practical's/ Tutorials	Tests		
7				
Month: February			Unit II 1. Sound and Acoustics of buildings:	Sound: Transducers and their characteristics, Pressure microphone, Moving coil loudspeaker, Intensity and loudness of sound, Decibels, Intensity levels, musical notes, musical scale.
Teaching Days	24			
Periods Allotted	4			
Periods Available				
Teaching	Practical's/ Tutorials	Tests		
4				
Month: March			1. Sound and Acoustics of buildings	Entropy (concept & significance), Entropy changes in reversible & irreversible Acoustics of buildings: Reverberation and time of reverberation, Absorption coefficient, Sabine's formula for measurement of reverberation time, Acoustic aspects of halls and Auditoria.
Teaching Days	26			
Periods Allotted	3			
Periods Available				
Teaching	Practical's/ Tutorials	Tests		
3				

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Subject: Chemistry

Class: B.Sc. Part - II (Sem -IV)

Paper No:

Paper Title: Practicals

			Topic/Unit	Sub-units Planned
Month: April				
Teaching Days		15		
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	6		Physical Chemistry	<ul style="list-style-type: none"> • Viscosity, refractometry, polarimetry, conductometry-II
Month: May				
Teaching Days		16		
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	6		Inorganic Chemistry	<ul style="list-style-type: none"> • Preparation of Sodium cuprous thiosulphate • Preparation of tris (ethylenediamine) nickel (II) thiosulphate
Month: June				
Teaching Days		15		
Periods Allotted		13		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	3		Organic Chemistry	<ul style="list-style-type: none"> • Organic qualitative analysis of three compounds
Month: July				
Teaching Days		16		
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	3		Organic Chemistry	<ul style="list-style-type: none"> • Organic qualitative analysis of three compounds
Month: August				
Teaching Days		14		
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

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YASHWANTRAO CHAVAN MAHAVIDYALAYA, ISLAMPUR
ANNUAL TEACHING PLAN

2020-21

Teachers Name : Jadhav Megharani Chandrakant


Subject : **Mathematics**

Class : **B.Sc Part I (Sem-IV)**

Paper No : **VIII**

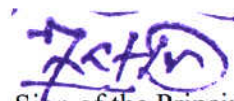
Paper Title : **Algebra-II**

			Topic /Unit	
Month: April			Unit - 1 Groups CCPM-III:- Advanced matrix operation CCPM-III:- Advanced SCILAB programming using Function	Lagrange's theorem and its Consequences 1. Euler's theorem 2. Fermat's theorem. <ul style="list-style-type: none">• Normal subgroups and its Properties
Teaching Days	17			
Periods Allotted	20			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	8			
Month: May			CCPM-III:- Interpolation CCPM-III:- Numerical integration	<ul style="list-style-type: none">• Factor Group (Quotient Group)• Homomorphism of Groups Isomorphism, Automorphism and Endomorphism of Groups and examples.
Teaching Days	25			
Periods Allotted	18			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	8			
Month: June			Unit – 2 Normal subgroups CCPM-II:- Homomorphism & Kernel CCPM-III:- Numerical methods for solution ODE	<ul style="list-style-type: none">• Kernel of a Homomorphism 1. Results related to Isomorphism.
Teaching Days	26			
Periods Allotted	18			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	8			
Month: July			CCPM-II:- Permutation Group CCPM-III:- Numerical methods for solution of a system of linear equations	Permutation Group 1. Definition, Examples. 2. Theorems. 3. Rings, Subrings
Teaching Days	26			
Periods Allotted	18			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	8			


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YASHWANTRAO CHAVAN MAHAVIDYALAYA, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Teachers Name : Mrs. Neha N. Sali

Subject : Mathematics

Class : B. Sc. Part II (SemIII)

Paper No : DSC- 5D

Paper Title : Real Analysis-II

			Topic /Unit	Sub-units Planned
Month: April			UNIT 1: Sequence of real numbers CCPM III- Introduction SCILAB Programming CCPM III- Numerical methods to find roots of function	Sequence and subsequence Monotone Sequences
Teaching Days	17			
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	8			
Month: May			UNIT 1: Sequence of real numbers CCPM II- Limit of a sequence CCPM III- Graph theory in SCILAB	Operations on convergent sequences Limit Superior and Limit Inferior of Sequences
Teaching Days	25			
Periods Allotted	20			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	8			
Month: June			UNIT 2: Infinite Series CCPM II- Convergence of sequence CCPM III- Characteristic Polynomial	Convergent and Divergent Series Positive Term Series
Teaching Days	26			
Periods Allotted	18			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	8			
Month: July			UNIT 2: Infinite Series CCPM II- Comparison test & Cauchy's root test CCPM II- D'Alembert's ratio test & Rabbi's test.	Comparison Tests For Positive Term Series Alternating Series Absolute and Conditional Convergence
Teaching Days	26			
Periods Allotted	20			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	8			

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ANNUAL TEACHING PLAN
2020-21

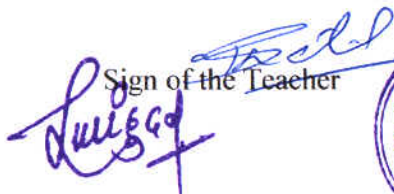
Subject : Chemistry

Class : B.Sc Part - II (Sem -IV)

Paper No : VII & VIII

Paper Title : Practicals

			Topic /Unit	Sub-units Planned
Month: April				
Teaching Days		15		
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	1		Physical Chemistry	Refractometry
Month: May				
Teaching Days		16		
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	2	1	Physical Chemistry	Codductometry I Codductometry II
Month: June				
Teaching Days		15		
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	2	2	Physical Chemistry	1) Viscometer 2) Polarimeter
Month: July				
Teaching Days		16	4	
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	4			
Month: Augist			Organic Chemistry Inorganic Chemistry	
Teaching Days		14		
Periods Allotted				
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	4		Organic Chemistry	Identification of organic Compounds Salicylic Acid, A- Naphthol,M- nitroanline,Ethyl methyl ketone,P nitrophenol

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YASHWANTRAO CHAVAN MAHAVIDYALAYA, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Teachers Name :Miss. A.P.Dhotre

Subject :Physics

Class : B.Sc Part - II (Sem IV)

Paper No : VII

Paper Title :

THERMAL PHYSICS AND STATISTICAL MECHANICS – II

			Topic /Unit	Sub-units Planned
Month: April			Unit I: 1) Thermodynamic Potentials Practical 1.To determine the Resolving Power of a Plane Diffraction Grating.	Enthalpy, Gibbs, Helmholtz, Internal Energy functions,
Teaching Days	17			
Periods Allotted	9			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
5	4			
Month: May			1) Thermodynamic Potentials Practical 2.To determine wavelength of sodium light using diffraction due to straight edge.	Maxwell's thermo dynamical relations, Joule-Thomson effect, Clausius- Clapeyron equation, Expression for $(C_p - C_v)$,
Teaching Days	25			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
6	4			
Month: June			Unit II: Statistical Mechanics 1) Classical statistics Practical 3.Goniometer I-To study cardinal points of optical system.	Cp/Cv, TdS equations. Phase space, Microstate and Macro state, Accessible microstates, priory probability thermodynamic probability, probability distribution,
Teaching Days	26			
Periods Allotted	11			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
7	4			

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Month: July		1) Classical statistics	Maxwell-Boltzmann distribution law, evaluation of constants α and β , Entropy and Thermodynamic probability, Distribution of molecular speeds
Teaching Days	26		
Periods Allotted	15		
Periods Available			
Teaching	Practicals/ Tutorials	Tests	Practical 4. Goniometer II- To study the equivalent focal length of optical system. 5. To study angle of specific rotation of sugar using Polarimeter.
7	8		

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Teachers Name : Miss. N. S. Atugade

Subject : Physics

Class : B.ScPart - II(Sem IV)

Paper No : VII

Paper Title: **Thermal Physics And Statistical Mechanics II**
Wave And Optics II

			Topic /Unit	Sub-units Planned
Month: April			Unit I: 2. Theory of Radiation Practical 1. Stefans fourth power law	Black Body Radiation and its importants, Black Body in practice, Wien's black body, Experimental study of black body radiation spectrum, Energy density.
Teaching Days	17			
Periods Allotted	9			
Periods Available				
Teaching	Practicals / Tutorials	Tests		
5	4			
Month: May			2.Theory of Radiation Practical 2. To determine specific heat of Graphite	Derivation of planks law, deduction of wien's distribution law, Rayleigh Jean's law, Stefens Boltzman law, wien's displacement law.
Teaching Days	25			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
6	4			
Month: June			Paper VIII Unit II: 1) Interference Practical 3.Post office Box	Introduction, Principle of superposition, coherence and conditions of interference, division of amplitude and wavefront.
Teaching Days	26			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
6	4			
Month: July			1) Interference Practical 4. Mechanical equivalent of heat J by Callender and Branes constant flow method.	Lloyds single mirror(determination of wavelength of light of monochromatic source), Wedge shaped film, Newton's ring and application of determine wavelength and refractive index.
Teaching Days	26			
Periods Allotted	15			

Periods Available			5.Determine the residents of filament of bulb estimate temperature of given film
Teaching	Practicals/ Tutorials	Tests	
7	8		

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YASHWANTRAO CHAVAN MAHAVIDYALAYA, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Subject : Chemistry

Class : B.Sc Part - II (Sem - IV)

Paper No :VIII

Paper Title : Organic chemistry

			Topic /Unit	Sub-units Planned
Month: April			Unit 1: Carboxylic acids and their derivatives.	Formation of Halo Acids, Mono, Di, Tri- chloro acetic acid. Acid anhydride derivative: Method of formation of acetic anhydride by dehydration of acetic acid, reactions with water, alcohol and ammonia, uses of acetic anhydride.
Teaching Days	17			
Periods Allotted	8			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
8	-			
Month: may			Unit 2: Amines and Diazonium Salts:	Introduction, Classification, Nomenclature, structure. Reactions: Replacement by Halogen(Sandmeyer), Replacement by Iodine, Replacement by -OH, C and NCoupling reactions: Synthesis of Methyl orange and Congo red.Reduction of BDC.
Teaching Days	25			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10				
Month: June			Unit 4: Carbonyl Compounds- aldehydes and Ketone	Introduction, Nomenclature, structure. Reactivity of Carbonyl group, mechanism of Nucleophilic addition to Carbonyl group Reactions: mechanism and application of Aldol condensation, Perkin reaction, Cannizaros reaction, Knoevenagel condensation, Reformatsky reaction.
Teaching Days	26			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	-		Unit 5: Stereochemistry	
Month: July			Unit 5: Stereochemistry	Cycloalkenes relative stability - Baeyer's strain
Teaching Days	26			

Periods Allotted		10		theory, Theory of stainless rings. Conformations and stability of cyclohexane and monosubstituted cyclohexane Cyclohexanol, bromocyclohexane and methyl cyclohexane. Locking of conformation in t-butyl cyclohexane.
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10				

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Subject : Chemistry
 Paper No : VII

Class : B.Sc Part - II (Sem - IV)
 Paper Title : Inorganic Chemistry

			Topic /Unit	Sub-units Planned
Month: April			1. Coordination Chemistry	Definition & formation of coordinate covalent bond,
Teaching Days	6			
Periods Allotted	6			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: May			1. Coordination Chemistry	Werner's Coordination Theory with example, Description of short terms, IUPAC Nomenclature, Isomerism in C.N. - 4 & 6 complexes, VBT of transition metal complexes
Teaching Days	16			
Periods Allotted	17			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: June			2. Chelation	Structural requirements of chelate formation, Difference between metal chelate & metal complex, Classification of chelating ligands, Applications of chelation with chelating agents
Teaching Days	15			
Periods Allotted	15			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: July			3. p-block elements	Position of elements, Electronic configuration & Properties, Compounds of group 13, 14, 15 – Borane-Diborane Borazine
Teaching Days	15			
Periods Allotted	14			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: August			4. Chemistry of transition series	Allotropes of Carbon & Phosphorus, Oxyacids of Nitrogen Hydrides of Nitrogen
Teaching Days	15			
Periods Allotted	14			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: July			4. Chemistry of transition series	Position of elements, Characteristics – Electronic configuration, Stability, Magnetic character,
Teaching Days	15			
Periods Allotted	14			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: August			4. Chemistry of transition series	Oxidation state, Colored ions, Complex formation
Teaching Days	6			
Periods Allotted	5			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

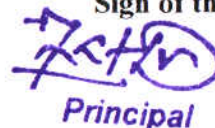
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YASHWANTRAO CHAVAN MAHAVIDYALAY, ISLAMPUR

ANNUAL TEACHING PLAN

2020-21

Teachers Name : Jagatap Nilesh Ramesh

Subject : **Computer Science**Class : **B. Sc. Part II (Sem - IV)**Paper No: **DSC-11D**Paper Title: **Cyber Security Essentials - I**

			Topic /Unit	Sub-units Planned
Month: May			Unit – 1: - Information Security Management	<ul style="list-style-type: none"> Information Security Overview: E-commerce Security, dimensions of E-commerce security, protocols, Computer Forensics, Steganography, Security Management- Overview of Security Management,
Teaching Days	26			
Periods Allotted	4			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
3	1			
Month: June				<ul style="list-style-type: none"> Information Classification Process, Security Policy, Risk Management, Security Procedures and Guidelines, Business Continuity and Disaster Recovery, Ethics and Best Practices.
Teaching Days	25			
Periods Allotted	4			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
2	2			
Month: July			<ul style="list-style-type: none"> Unit – II: Network Security, Access Controls , Cyber Security and Cyber Laws 	<ul style="list-style-type: none"> Wireless Network Security- Wi-Fi Security, Risk of Using Unsecured Wi-Fi, Bluetooth and its Access Controls: Overview of Authentication and Authorization,
Teaching Days	22			
Periods Allotted	6			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
4	2			
Month: August				<ul style="list-style-type: none"> Overview of Intrusion Detection Systems. Cyber Security: Email security: PGP and SMIME, Web Security Cyber Security Laws International Standards, Security Audit- Need, Importance
Teaching Days	26			
Periods Allotted	5			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	1			





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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Subject: Chemistry

Class: **B.Sc. Part - III (Sem - V)**

Paper No: XI

Paper Title: Physical Chemistry

			Topic /Unit	Sub-units Planned
Month: November			Photochemistry	<ul style="list-style-type: none"> • Introduction • Laws of Photochemistry • Quantum yield or Quantum efficiency • Factors affecting Quantum yield • Photosensitized reactions • Examples of photochemical reaction • Photophysical and photochemical processes • Jablonski diagram • Chemiluminescence • Electroluminescence • Bioluminescence
Teaching Days	20			
Periods Allotted	8			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
8		1		
Month: December			Solutions	<ul style="list-style-type: none"> • Introduction • Raoult's law, ideal and non-ideal solutions • Composition of liquid and vapor • Solubility of partially miscible liquid • Vapor pressure and distillation of immiscible liquids
Teaching Days	13			
Periods Allotted	6			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
6		1		
Month: January			Spectroscopy	<ul style="list-style-type: none"> • Introduction • Electromagnetic radiation • Electromagnetic spectrum • Rotational spectra of diatomic molecules • Vibrational spectra of diatomic molecules • Raman spectra • Comparative study of IR and Raman spectra, rule of mutual exclusion- CO₂ molecule
Teaching Days	22			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10		1		
Month: February			Electromotive Force	<ul style="list-style-type: none"> • Introduction • Thermodynamics of electrode potentials (Nernst equation for electrode & potential)
Teaching Days	22			
Periods Allotted	6			
Periods Available				

Teaching	Practicals/ Tutorials	Tests		<ul style="list-style-type: none"> • E.M.F. series (standard electrode potentials) • Types of electrodes
6				
Month: March			Electromotive Force	<ul style="list-style-type: none"> • Reversible and irreversible cells • Equilibrium constants from cell E.M.F. • Applications of E.M.F. measurements • Exercises
Teaching Days		15		
Periods Allotted		6		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
5		1		

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ANNUAL TEACHING PLAN
2020-2021

Teachers Name : Sali Neha Nitin

Subject : Mathematics IX

Class : B. Sc. Part III (Sem V)

Paper Title : Mathematical Analysis

			Topic /Unit	Sub-units Planned
Month: November			Unit -1 : Riemann Integration	Definition of Riemann integration, Inequalities for lower and upper Darboux sums, Necessary and sufficient conditions for Riemann integrability.
Teaching Days	17			
Periods Allotted	7			
Periods Available				
Teaching	Practicals / Tutorials	Tests		
7	-			
Month: December			CCPM- V Experiment No. 1	Definition of Riemann integration by Riemann sum and equivalence of the two definitions, Riemann integrability of monotonic functions, continuous functions.
Teaching Days	26			
Periods Allotted	16			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	4			
Month: January			CCPM- V Experiment No. 3	Algebra and properties of Riemann integrable functions, First and second fundamental theorems of integral calculus, and the integration by parts.
Teaching Days	24			
Periods Allotted	13			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
9	4			
Month: February			Unit -2 : Improper Integrals and Fourier Series CCPM- V Experiment No. 5	Improper Integrals: Definition of improper integral of first kind, Comparison test, μ - test for Convergence, Absolute and conditional convergence, Integral test for convergence of series
Teaching Days	24			
Periods Allotted	14			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	4			
Month: March			CCPM- VI Experiment No. 3	Definition of improper integral of second kind and some tests for their convergence, Cauchy principle value.
Teaching Days	25			
Periods Allotted	14			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	4			


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ANNUAL TEACHING PLAN
2020-2021

Teachers Name :Jadhav Megharani Chandrakant

Subject : **Mathematics X**

Class : **B. Sc. Part III (Sem V)**

Paper Title : **Abstract Algebra**

			Topic /Unit	Sub-units Planned
Month: November			Unit -1:Groups and Rings	Groups: Definition and examples of groups, group S3 and Dihedral group D4,Commutator subgroups and its properties, Conjugacy in group and class equation.
Teaching Days		17		
Periods Allotted		7		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
7	-			
Month: December			CCPM-IV Experiment No. 2	Rings: Definition and example of Rings, Ring with unity. Zero divisor, Integral Domain, Division Ring, Field, Boolean ring, Subring.
Teaching Days		26		
Periods Allotted		16		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	4			
Month: January			CCPM- IV Experiment No.4	Characteristic of a ring: Nilpotent and Idempotent elements. Ideals, Sum of two ideals, Examples. Simple Ring.
Teaching Days		24		
Periods Allotted		13		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
9	4			
Month: February			Unit-2: Homomorphism and Imbedding of Ring , Polynomial Ring and Unique Factorization Domain. CCPM- IV Experiment No. 6	Quotient Rings, Homomorphism, Kernel of Homomorphism
Teaching Days		24		
Periods Allotted		14		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	4			
Month: March			CCPM- VI Experiment No. 4	Isomorphism theorems,imbedding of Ring. Maximal Ideals)
Teaching Days		25		
Periods Allotted		14		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	4			


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ANNUAL TEACHING PLAN
2020-2021

Teachers Name :Jadhav Megharani Chandrakant

Subject : **Mathematics XI**

Class : **B. Sc. Part III (Sem V)**

Paper Title : **Optimization Techniques**

			Topic /Unit	Sub-units Planned
Month: November			Unit-1 Network optimization models CCPM- IV Experiment No.1	Introduction ,Formulation of LPP, Graphical methods for LPP. General formulation of LPP, Slack and surplus variables ,Canonical form, Standard form of L.PP. Transportation problem. Introduction,Matrix form of Transportation problem.
Teaching Days	17			
Periods Allotted	11			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
7	4			
Month: December			CCPM- IV Experiment No.3	Feasible solution, Basic feasible solution and optimal solution, Balanced and unbalanced transportation problems. Methods of Initial basic feasible solutions: North west corner rule, Lowest cost entry method, Vogel's Approximation method ,The optimality test.
Teaching Days	26			
Periods Allotted	16			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	4			
Month: January				Assignment Models :Introduction ,Mathematical formulation of assignment problem, Hungarian method for assignment problem. Unbalanced assignment problem.Travelling salesman problem.
Teaching Days	24			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	-			
Month: February			Unit-2Quantitative techniques CCPM- VI Experiment No.1	Game theory: Basic definitions , Minimax [Maximin] Criterion and optimal strategy, Saddle point , optimal strategy and value of game. Solution of games with saddle point. Fundamental theorem of game theory [Minimax theorem]
Teaching Days	24			
Periods Allotted	13			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
9	4			
Month: March			CCPM- VI Experiment No. 5	Two by two (2 X 2) games without saddle point.Algebraic method of Two by two (2 X 2) games.Arithmetic method of Two by two (2 X 2) games.
Teaching Days	25			
Periods Allotted	14			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	4			

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ANNUAL TEACHING PLAN
2020-2021

Teachers Name :Sali Neha Nitin

Subject : **Mathematics XII**

Class : **B. Sc. Part III (Sem V)**

Paper Title : **Integral Transform**

			Topic /Unit	Sub-units Planned
Month: November			Unit: 1 Laplace and Inverse Laplace Transform. CCPM- V Experiment No.2	Laplace Transform : Definitions; Piecewise continuity, Function of exponential order, Function of class A ,Existence theorem of Laplace transform. Laplace transform of standard functions. theorems and examples, Change of scale property and examples.
Teaching Days	17			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
6	4			
Month: December			CCPM- V Experiment No. 4	Laplace transform of derivatives and examples, Laplace transform of integrals and examples. Multiplication by power of t and examples. Division by t and examples. Laplace transform of periodic functions and examples. Laplace transform of Heaviside's unit step function.
Teaching Days	26			
Periods Allotted	16			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	4			
Month: January			CCPM- V Practical No.6	Inverse Laplace Transform: Definition Standard results of inverse Laplace transform, Examples, Solving linear differential equations with constant coefficients by Laplace transform.
Teaching Days	24			
Periods Allotted	14			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	4			
Month: February			Unit 2 Fourier Transform CCPM- VI Experiment No. 2	The infinite Fourier transform and inverse. Definition examples Infinite Fourier sine and cosine transform and examples.
Teaching Days	24			
Periods Allotted	13			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
9	4			
Month: March			CCPM- VI Experiment No.6	Definition: Infinite inverse Fourier sine and cosine transform and examples. Relationship between Fourier transform and Laplace transform.
Teaching Days	25			
Periods Allotted	14			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	4			


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ANNUAL TEACHING PLAN
2020-21

Subject : Chemistry

Class : B.Sc Part - III (Sem - V)

Paper No :XII

Paper Title : Analytical Chemistry

			Topic /Unit	Sub-units Planned
Month: November			Potentiometric Titrations	Detail study of Quinhydrone and Glass Electrode and their use in Determination of pH. Basic circuit of direct reading Potentiometre
Teaching Days	20			
Periods Allotted	12			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	2		Physical Chemistry	Chemical Kinetics I, II
Month: December			Colorimetry and Spectrophotometry	Theory of Colorimetry and Spectrophotometry. Lambert Beer's law, deviation from Beer's law. Classification of methods of colour measurement or comparison. Photoelectric colorimeter, Spectrophotometer. Applications of colorimetry and Spectrophotometry
Teaching Days	13			
Periods Allotted	13			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	3	1	Physical Chemistry	Chemical kinetics III & IV Solubility
Month: January			Theory of Gravimetric Analysis Physical Chemistry	Introduction, Gravimetric analysis by precipitation, nucleation, crystal growth, digestion/aging, filtration, drying, ignition, weighing. Optimum conditions for good precipitation, Physical nature of precipitate. Purity of precipitate Co-precipitation, Post-precipitation. Organic precipitants and their applications. 2
Teaching Days	22			
Periods Allotted	12			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: February			Chromatographic techniques and Quality control	Introduction, classification. Column Chromatography. Ion Exchange
Teaching Days	22			
Periods Allotted	12			
Periods Available				

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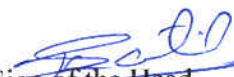
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Teaching	Practicals/ Tutorials	Tests		Chromatography. Concepts in Quality control
		1		
Month: March			Flame Photometry	Introduction, General principles of flame photometry. Instrumentation. Effect of solvent in flame photometry. Experimental procedure of analysis. Interference in flame photometry. Applications of flame photometry. Limitations of Flame Photometry.
Teaching Days		15		
Periods Allotted		13		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
		1		


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ANNUAL TEACHING PLAN
2020-21

Teachers Name: Miss. A.P.Dhotre

Subject: Physics

Class: B.Sc Part - III (SEM V)

Paper No: IX

Paper Title: MATHEMATICAL PHYSICS

			Topic /Unit	Sub-units Planned
Month: November			Unit –I 1.Partial differential equation	Introduction , Method of separations of variables , form of two dimensional Laplace differential equation in Cartesian co-ordinates,
Teaching Days		17		
Periods Allotted		6		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
6	-			
Month: December			1.Partial differential equation 2.Forbenious method and Special functions Practical 1.Resonance pendulum	Three dimensional partial differential equation in Cartesian co-ordinates , differential equation of progressive wave and its solution Singular points of second order differential equations
Teaching Days		26		
Periods Allotted		11		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
7	4			
Month: January			2. Forbenious method and Special functions. Practical 2. S.T. of soap solution	Application of singularity to Legendre equation Application of singularity to Bessel equation Series solution method of solving second order linear differential equation
Teaching Days		24		
Periods Allotted		11		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
7	4			
Month: February			2. Frobenious method and Special functions. Practical 3. Y and η using Flat Spiral Spring and Unit II 1. Some Special Integrals	(Frobenious method) and its application to Legendre differential equation. Gamma functions, Properties of Gamma function,
Teaching Days		24		
Periods Allotted		10		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

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6	4			
Month: March			1. Some Special Integral	Beta function, Properties of Beta function, Relation between Beta and Gamma functions, Error function (Probability Integral).
Teaching Days		25		
Periods Allotted		1		
Periods Available				
Teaching	Practicals/ Tutorials	Tests	Practical 4.Y by Koenig's method	
6	4	-		

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ANNUAL TEACHING PLAN
2020-21

Teachers Name: Miss. A.P.Dhotre

Subject: Physics


Class: B.Sc Part – III (SEM V)

Paper No: XI

Paper Title: classical mechanics and electrodynamics

			Topic /Unit	Sub-units Planned
Month: November			UNIT-I 1.Lagrangian Formulation	Constraints, Degrees of freedom, Generalized coordinates, Principle of virtual work, D'Alamberts principle, Lagrange's equation from D'Alamberts principle,
Teaching Days	17			
Periods Allotted	8			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
8	-			
Month: December			1.Lagrangian Formulation	Applications of Lagrange's equation to a particle in space, Atwood's machine and a bead sliding on uniformly rotating wire under force free condition.
Teaching Days	26			
Periods Allotted	12			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
8	4		2.Techniques of Calculus of Variation	Hamilton's principle, Deduction of Hamilton's principle from D'Alamberts principle,
			Practical: 5. Y by Cornu's spiral	
Month: January			2.Techniques of Calculus of Variation	Deduction of Lagrange's equation from Hamilton's principle, Applications- shortest distance between two points in a plane, Brachistochrone problem.
Teaching Days	24			
Periods Allotted	12			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
			Unit II	
			1.Special Theory of Relativity	Inertial and non-inertial reference frames, Galilean transformation equations,
			6.C program to arrange the given set of numbers in ascending/descending order	

8	4			
Month: February			1.Special Theory of Relativity	Michelson Morley experiment, postulates of special theory of relativity, Lorentz transformation equations,
Teaching Days		24		
Periods Allotted		10		
Periods Available				
Teaching	Practicals/ Tutorials	Tests	7. C program to find largest/smallest number from a given set of numbers	
6	4			
Month: March			1.Special Theory of Relativity	Length contraction, Time dilation, Variation of mass with velocity, (Mass-energy) relation.
Teaching Days		25		
Periods Allotted		6		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
6				


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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Teachers Name: Miss. N.S.Atugade

Subject: Physics

Paper No: XII

Class: B.Sc Part - III (Sem - V)

Paper Title: Digital and analogue circuit and Instrumentation

			Topic /Unit	Sub-units Planned
Month: November			Unit –I 1. Digital electronics	Introduction, digital logic gates, derived gates, De Morgan's theorem, NAND and NOR as universal Gates, R-S flip flop, J-K flip flop, Half adder, full adder, 4bit binary adder.
Teaching Days	17			
Periods Allotted	14			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
14	-			
Month: December			2. Transistor amplifier and Sinusoidal Oscillator	Single stage CE amplifier, D.C, A.C equivalent circuit, load line analysis, theory of feedback oscillator, frequency response curvetank circuit, Barkhusen criteria, Phase shift oscillator, colpitts Hartley, Crystal Oscillator.
Teaching Days	26			
Periods Allotted	22			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
18	4		Practical 1. Solar cell	
Month: January			Unit II 1. Cathod ray Oscilloscope	Introduction, Block diagram of CRO, Principle, Construction and working of CRT, Applications of CRO, solved problems.
Teaching Days	24			
Periods Allotted	20			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	8		Practical 3. self inductance by Owens bridge 4. resistance of B.G by half deflection method	
Month: February			2. Operational amplifier	Introduction, Operational amplifier, differential amplifier and its types, OP-AMPs, Block diagram of Op-AMP, OP-AMP as parameter, characteristics of an ideal and practical OP-AMP
Teaching Days	24			
Periods Allotted	21			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
13	8		Practical 5. Absolute capacity of condensor 6. Band gap energy	

Month: March			2.Operational amplifier	Applications of OP-AMP.
Teaching Days	25			
Periods Allotted	10			
periods available				
Teaching	Practical	Test	Practical 6.Planks constant 7.Griffith method	
2	8			

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URUN-ISLAMPUR, (Dist. Sang)

YASHWANTRAO CHAVAN MAHAVIDYALAYA, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Teachers Name :Miss. S.D.Kulkarni

Subject: Chemistry

Class: B. ScPart - III (Sem - V)

Paper No :X

Paper Title: Organic Chemistry

			Topic /Unit	Sub-units Planned
Month: November			Theory: Unit I I.Introductio to spectroscopy Practical: 1.Estimation of sucrose	Nature of electromagnetic radiations, Different units of measurement, Different regions of electromagnetic radiations, energy types and energy levels of atoms and molecule
Teaching Days	17			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
7	4			
Month: December			Theory: Unit II UV-Visible spectroscopy Practical: 1.Saponification value of an oil sample 2. picrate derivative	Beer-Lambert's law, absorption of UV radiation by organic molecules, Terms used in UV spectroscopy, mode of electromagnetic transitions, Effect of conjugation on position of UV bond, color & visible spectrum
Teaching Days	26			
Periods Allotted	16			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
8	8			
Month: January			Theory: Unit III IR-Spectroscopy Practical: 1.Multicomponentreactionp reparationofdihydropyrimi done 2. iodoform derivative	Principle of spectroscopy, fundamental modes of vibrations, types and calculations, Hook's law for calculation of vibrational frequency
Teaching Days	24			
Periods Allotted	15			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
7	8			
Month: February			Theory: Unit IV NMR-Spectroscopy Practical: 1.Radical coupling of reaction-preparation of 1,12-bis-2-naphthol 2. oxalate derivative	Principles PMR spectroscopy, magnetic and non-magnetic nuclei, chemical shift, shielding and deshielding, Merits of TMS as PMR reference compound, Coupling constant, Spin-spin splitting (n+1 rule)
Teaching Days	24			
Periods Allotted	16			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
8	8			
Month: March			Unit V	

Teaching Days		26	Combined Problems based on UV, IR, NMR and Mass Spectral data. Practical: 1.Estimation of molecular weight 2.base catalyzed aldol condensation-preparation of dibenzyl propanone
Periods Allotted		16	
Periods Available			
Teaching	Practicals/ Tutorials	Tests	
8	8		

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Teachers Name: Miss. P. V. Patil

Subject : Chemistry

Paper No: IX

Class : B.Sc Part - III (Sem V)

Paper Title : Inorganic Chemistry

			Topic /Unit	Sub-units Planned
Month: November			1. Acids, Bases and Non aqueous Solvents	Introduction to theories of Acids and Bases Hard and Soft Acids and Bases (HSAB Concept) - Pearson's HSAB concept, Acid-Base strength and hardness-softness
Teaching Days	6			
Periods Allotted	5			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: December			2. Metal Ligand bonding in Transition Metal Complexes	Crystal field theory (CFT) Crystal field splitting of d-orbitals of metal ion in octahedral, tetrahedral, square planar complexes and John-Teller distortion, Crystal Field stabilization energy (CFSE) Molecular orbital theory (MOT) - MOT of octahedral complexes with sigma bonding such as $[\text{Ti}(\text{H}_2\text{O})_6]^{3+}$, $[\text{CoF}_6]^{3-}$, $[\text{Co}(\text{NH}_3)_6]^{3+}$. Merits and demerits of MOT
Teaching Days	15			
Periods Allotted	14			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
			1	
Month: January			3. Metals, Semiconductors and Superconductors	Theories of bonding in metal, Semiconductors-Types, Superconductors: Ceramic superconductors – Preparation and structures of mixed oxide $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$, Applications of superconductors
Teaching Days	17			
Periods Allotted	16			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
			1	
Month: February			4. Organometallic Chemistry	Synthesis and structural study of alkyl and aryl compounds of Be and Al, Mononuclear carbonyls - Nature of bonding in simple mononuclear carbonyls Gravimetric Estimation - I. Gravimetric estimation of iron as ferric oxide (Fe_2O_3)
Teaching Days	14			
Periods Allotted	14			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
			Inorganic Chemistry	

				from the given solution containing ferrous ammonium sulphate, copper sulphate and free sulphuric acid
				2. Gravimetric estimation of barium as barium sulphate($BaSO_4$) from the given solution containing barium chloride, ferric chloride and free hydrochloric acid
	2	1		
Month: March			5. Catalysis	Classification of catalytic reaction, Types of Catalysis, Mechanism of catalysis Inorganic Preparation - 3. Preparation of Tetra ammine copper (II) chloride. 4. Preparation of tris(thiourea) copper (I) sulphate.
Teaching Days		13	Inorganic Chemistry	
Periods Allotted		12		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	2	1		

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YASHWANTRAO CHAVAN MAHAVIDYALAY, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Teachers Name : Kumbhar Dattatraya Tanaji


Subject : **Computer Science**

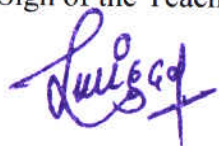
Paper No: **DSE-22E**

Class : **B. Sc. Part III (Sem V)**

Paper Title : **C# Programming**

			Topic /Unit	Sub-units Planned
Month: December			Unit – I: - Introduction to .Net	<ul style="list-style-type: none"> • .Net Framework Architecture • An Overview • CLR,CLS • MSIL,CTS • History and Feature of C# • Data Type, Value Type • Boxing and Unboxing
Teaching Days	26			
Periods Allotted	20			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	8			
Month: January			Unit – II: Object Oriented Concepts	<ul style="list-style-type: none"> • Properties: Set and Get • Flow control • Braching Statement • Looping Staement • Structure
Teaching Days	26			
Periods Allotted	20			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	8			
Month: February			Unit – II: Object Oriented Concepts	<ul style="list-style-type: none"> • C# Program Comilation • Command Line Arguments • Console Application • Classes and Objects • Inheritance • Polymorphism •
Teaching Days	24			
Periods Allotted	20			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	8			
Month: March			Unit – II: Object Oriented Concepts	<ul style="list-style-type: none"> • Abstract Classes • Sealed Classes • Partial Classes • Exception Handling
Teaching Days	26			
Periods Allotted	20			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	8			


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ANNUAL TEACHING PLAN
2020-21

Teachers Name : Kumbhar Dattatraya Tanaji

Subject : **Computer Science**

Paper No: **DSE-23E**

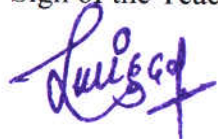
Class : **B. Sc. Part III (Sem V)**

Paper Title : **Linux part- I**

			Topic /Unit	Sub-units Planned
Month: December			Unit – 1: - Introduction to Linux	<ul style="list-style-type: none"> • History of Linux • Architecture of Linux • Operating System Services • Shell
Teaching Days	26			
Periods Allotted	20			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	8			
Month: January				<ul style="list-style-type: none"> • Types of Shell • Kernel • Login, Logout • General Purpose Utilities
Teaching Days	26			
Periods Allotted	20			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	8			
Month: February			Unit – II: File System, System Calls and Process	<ul style="list-style-type: none"> • Basic file system management • Files Types, Boot block, Super block, Inode table • Storage and Accessibility of files • File and Directory Manipulation commands • File ownership and permission • Open, Read, Write, Close
Teaching Days	24			
Periods Allotted	20			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	8			
Month: March				<ul style="list-style-type: none"> • Mounting and Un-mounting File System • Process States and Transitions • Process Creation • Signal • Invoking Other Programs • Process Management
Teaching Days	26			
Periods Allotted	20			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	8			



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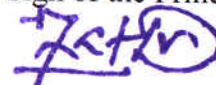


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ANNUAL TEACHING PLAN
2020-21

Teachers Name : Jagatap Nilesh Ramesh

Subject : **Computer Science**Paper No: **DSE-24E**Class : **B. Sc. Part III (Sem V)**Paper Title : **Python Part -I**

			Topic /Unit	Sub-units Planned
Month: December			Unit – 1: - Introduction	<ul style="list-style-type: none"> • History • Features • Setting up path • Working with Python • Basic Syntax
Teaching Days	26			
Periods Allotted	20			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	8			
Month: January			Unit – II: Control Statements , String Manipulation, Lists	<ul style="list-style-type: none"> • Keywords • Variable and Data Types • Operator • Input , output functions • Conditional Statements & Looping
Teaching Days	25			
Periods Allotted	21			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
13	8			
Month: February			Unit – II: Control Statements , String Manipulation, Lists	<ul style="list-style-type: none"> • Break • Continue • Pass • Accessing Strings • Basic Operations • String slices
Teaching Days	24			
Periods Allotted	20			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	8			
Month: March			Unit – II: Control Statements , String Manipulation, Lists	<ul style="list-style-type: none"> • Function and Methods • Introduction • Accessing list • Operations • Working with lists • Function and Methods
Teaching Days	26			
Periods Allotted	20			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	8			

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2020-21

Name : Ms. A. A. Patil

Subject : Physics

Class : B.Sc. Part - II (Sem V)

Paper No : VIII

Paper Title : Waves and Optics -II

			Topic /Unit	Sub-units Planned
Month: April			Unit III 1. Cardinal points	Cardinal points of an optical system (definitions only), graphical construction of image using cardinal points, Newton's formula, relation between f and f' for any optical system,
Teaching Days	17			
Periods Allotted	5			
Periods Available				
Teaching	Practical's/ Tutorials	Tests		
5				
Month: May			1. Cardinal points 2. Resolving Power of optical instruments	Relation between lateral, axial and angular magnifications. Resolution, Resolving power of optical instruments, Rayleigh's criterion for the limit of resolution, Modified Rayleigh's criterion, comparison between magnification and resolution,
Teaching Days	25			
Periods Allotted	5			
Periods Available				
Teaching	Practical's/ Tutorials	Tests		
5				
Month: June			2. Resolving Power of optical instruments 3. Polarization of light	resolving power of plane diffraction grating, resolving power of a prism. Idea of polarization, polarization by double refraction, Huygens explanation of double refraction through uniaxial crystals, Nicol prism (construction, working),
Teaching Days	26			
Periods Allotted	5			
Periods Available				
Teaching	Practical's/ Tutorials	Tests		
5				

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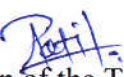
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Month: July		3. Polarization of light	production and detection of circularly and elliptically polarized light, optical rotation - laws of rotation of plane of polarization, polarimeter.
Teaching Days	26		
Periods Allotted	3		
Periods Available			
Teaching	Practical's/ Tutorials	Tests	
3			


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ANNUAL TEACHING PLAN
2020-21

Name : Ms. A. A. Patil

Subject : Physics


Class : B.Sc. Part - III (Sem V)

Paper No: X

Paper Title : Quantum Mechanics

			Topic /Unit	Sub-units Planned
Month: November			Unit-I 1. Matter Waves 1. Cardinal points by Newton's method	Wave particle duality, De-Broglie hypothesis of matter waves, Derivation of wavelength of matter wave, Concept of wave packet, Relation between group velocity - phase velocity and group velocity-particle velocity, Davisson and Germer experiment,
Teaching Days	17			
Periods Allotted	9			
Periods Available				
Teaching	Practical's / Tutorials	Tests		
5	4			
Month: December			1. Matter Waves 2. Schrodinger's Wave Equation 2. Diffraction at a Single Slit	Uncertainty principle (statements only): position-momentum and energy- time, Application of uncertainty principle on existence of free electrons in the nucleus. Wave function and its physical interpretation, Condition of physically acceptable wave function,
Teaching Days	26			
Periods Allotted	9			
Periods Available				
Teaching	Practical's/ Tutorials	Tests		
5	4			
Month: January			2. Schrodinger's Wave Equation 3. Diffraction at cylindrical obstacle	Normalized and orthogonal wave function, Schrödinger time dependent and time independent (steady state) wave equations in 1D and 3D, Probability current density (continuity equation),
Teaching Days	24			
Periods Allotted	9			
Periods Available				
Teaching	Practical's/ Tutorials	Tests		
5	4			

Month: February			2. Schrodinger's Wave Equation	Probability current density(continuity equation), Eigen values and Eigen functions, Expectation values of dynamic variables.
Teaching Days	24			
Periods Allotted	10			
Periods Available				
Teaching	Practical's/ Tutorials	Tests	Unit-II 1. Operators in Quantum Mechanics	Definition of an operator, Position operator (x), Linear momentum operator (p), Commutation relation in quantum mechanics,
6	4		4. Lloyd's single mirror	
Month: March			1. Operators in Quantum Mechanics	Commutation relation between x and p, Kinetic energy operator (T), Hamiltonian operator (H), Parity operator (π), Angular momentum operator (L) – components of angular momentum operator in Cartesian coordinate system, Ladder operators, Eigen values of L_z and L^2 (use equations for L^2 and L_z in spherical polar coordinates).
Teaching Days	25			
Periods Allotted	14			
Periods Available				
Teaching	Practical's/ Tutorials	Tests	5. Diameter of Lycopodium powder 6. Spherical aberration	
6	8	-		

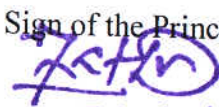

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YASHWANTRAO CHAVAN MAHAVIDYALAYA, ISLAMPUR
ANNUAL TEACHING PLAN
2020-2021


Teachers Name : Sali Neha Nitin


Subject : **Mathematics XIII**

Class : **B. Sc. Part III (Sem VI)**

Paper Title : **Metric Spaces**

			Topic /Unit	Sub-units Planned
Month: April			Unit –1 Limits and Continuous Functions on Metric Spaces CCPM-V Experiment No. 7	Limit of a function on the real line, Metric Spaces, Limits in Metric Spaces Functions continuous at a point on the real line
Teaching Days		17		
Periods Allotted		11		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
7	4			
Month: May			CCPM- V Experiment No. 8	Reformulation, Functions continuous on a metric space, Open Sets, Closed Sets, More about open sets.
Teaching Days		25		
Periods Allotted		16		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	4			
Month: June			Unit 2: Connectedness, Completeness and Compactness CCPM- V Experimentl No. 9 CCPM-VI Experiment No. 9	Connected Sets, Bounded sets and totally bounded sets,
Teaching Days		26		
Periods Allotted		20		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	8			
Month: July			CCPM- VI Experiment No. 10	Complete metric spaces, Compact metric spaces, Continuous functions on compact metric spaces
Teaching Days		26		
Periods Allotted		16		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	4			


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2020-21

Subject: Chemistry

Class: **B.Sc. Part - III (Sem - VI)**

Paper No: XV

Paper Title: Physical Chemistry

			Topic /Unit	Sub-units Planned
Month: April			Thermodynamics	<ul style="list-style-type: none"> Knowledge about basic concepts of thermodynamics, free energy, Gibbs-Helmholtz equation and its applications, problem related with it
Teaching Days	20			
Periods Allotted	6			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
6		1		
Month: May			Phase equilibria	<ul style="list-style-type: none"> Learning and understanding of phase rule, learning of one component, two components and three component systems, Phase diagrams with suitable examples
Teaching Days	22			
Periods Allotted	8			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
8		1		
Month: June			Solid state chemistry	<ul style="list-style-type: none"> Learning and understanding space lattice, lattice sites, lattice planes, unit cell Laws of crystallography, Weiss indices and Miller indices, cubic lattice and types of cubic lattice
Teaching Days	22			
Periods Allotted	8			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
7				
Month: July			Solid state chemistry	<ul style="list-style-type: none"> Diffraction of X-rays, derivation of Bragg's equation Determination of crystal structure by Bragg's method Crystal structure of NaCl and KCl on the basis of Bragg's equation
Teaching Days	22			
Periods Allotted	6			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
5		1		
Month: August			Chemical kinetics	<ul style="list-style-type: none"> Learning of kinetics, simultaneous reactions such as 1) Opposing reaction 2) Side reaction 3) Consecutive reaction 4) Chain reaction 5) Explosive reaction
Teaching Days	15			
Periods Allotted	5			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
5		1		

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ANNUAL TEACHING PLAN
2020-2021

Teachers Name :Jadhav Megharani Chandrakant

Subject : **Mathematics XIV**

Class : **B. Sc. Part III (Sem VI)**

Paper Title : **Linear Algebra**

			Topic /Unit	Sub-units Planned
April: April			Unit 1: Vector Spaces and Linear Transformations CCPM-IV Experiment No.7	Vector space: Subspace, Sum of subspaces, direct sum, Quotient space, Homomorphism or Linear transformation, Kernel and Range of homomorphism, Fundamental Theorem of homomorphism, Isomorphism theorems, Linear Span, Finite dimensional vector space, Linear dependence and independence, basis, dimension of vector space and subspaces.
Teaching Days	17			
Periods Allotted	11			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
7	4			
Month: May			CCPM-IV Experiment No.9 CCPM-VI Experiment No.8	Linear Transformation: Rank and nullity of a linear transformation, Sylvester's Law, Algebra of Linear Transformations , Sum and scalar multiple of Linear Transformations. The vector space of Homomorphisms, Product (composition) of Linear Transformations, Linear operator, Linear functional, Invertible and non-singular Linear Transformation, Matrix of Linear Transformations and its examples.
Teaching Days	25			
Periods Allotted	20			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	8			

Month: June			Unit 2: Inner Product	Eigen values and Eigen vectors: Eigen space, Characteristic Polynomial of a matrix and remarks on it,
Teaching Days		26	Spaces, Eigen values and Eigen vectors	
Periods Allotted		16	CCPM- IV	
Periods Available			Experiment No. 11	
Teaching	Practicals/ Tutorials	Tests		
12	4			
Month: July			CCPM- VI	similar matrices, Characteristic Polynomial of a Linear operator, Examples and real life (Predatory – Prey problem), examples on eigen values and eigen vectors.
Teaching Days		26	Experiment No. 11	
Periods Allotted		16		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	4			

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ANNUAL TEACHING PLAN

2020-2021

Teachers Name : Sali Neha Nitin

Subject : **Mathematics XV**

Class : **B. Sc. Part III (Sem VI)**

Paper Title : **Complex Analysis**

			Topic /Unit	Sub-units Planned
Month: April			Unit 1 :Analytic functions and Complex Integration CCPM- VI Experimentl No.7	Basic algebraic and geometric properties of complex numbers, Function of complex variable, Limits, continuity and differentiation, Cauchy Riemann equations, Analytic functions and examples of analytic functions
Teaching Days	17			
Periods Allotted	11			
Periods Available				
Teaching	Practicals/Tutorials	Tests		
7	4			
Month: May			CCPM- V Experiment No.10	Exponential function, Logarithmic function, Trigonometric function, Definite integrals of functions, Contours, Contour integrals and its examples, upper bounds for moduli of contour integral
Teaching Days	25			
Periods Allotted	16			
Periods Available				
Teaching	Practicals/Tutorials	Tests		
12	4			
Month: June			CCPM- V Experiment No.11	Cauchy-Goursat theorem and examples, Cauchy integral formula and examples, Liouville's theorem and the fundamental theorem of algebra.
Teaching Days	26			
Periods Allotted	16			
Periods Available				
Teaching	Practicals/Tutorials	Tests		
12	4			
Month: July			Unit 2 : Sequences, Series and Residue Calculus CCPM- V Experiment No.12	Convergence of sequences and series of complex variables, Taylor series and its examples, Laurent series and its examples, absolute and uniform convergence of power series, Isolated singular points
Teaching Days	26			
Periods Allotted	16			
Periods Available				
Teaching	Practicals/Tutorials	Tests		
12	4			



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ANNUAL TEACHING PLAN
2020-2021

Teachers Name : Jadhav Megharani Chandrakant

Subject : **Mathematics XVI**

Class : **B. Sc. Part III (Sem V)**

Paper Title : **Discrete Mathematics**

			Topic /Unit	Sub-units Planned
Month: April			Unit 1 : Mathematical Logic CCPM- IV Experiment No.8	The logic of compound statements: Statements, compound statements, truth values, logical equivalence, tautologies and contradictions, Conditional statements
Teaching Days	17			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
6	4			
Month: May			CCPM- IV Practical No. 10	The contrapositive of a conditional statements, converse, inverse of a conditional statements, biconditional statements.Valid and invalid. arguments: Modus Ponens and modus Tollen
Teaching Days	25			
Periods Allotted	16			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	4			
Month: June			CCPM-IV ExperimentNo.12	Number system: Addition and subtraction of Binary, decimal, quintal, octal, hexadecimal number systems and their conversions.
Teaching Days	26			
Periods Allotted	16			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	4			
Month: July			Unit 2:Graphs and trees CCPM- VI Experimentl No. 12	Graphs :Definitions, basic properties,examples, types of graphs, concept of degree, Trails, Paths and Circuits, Matrix representation of graphs,Isomorphism of graphs
Teaching Days	26			
Periods Allotted	16			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	4			

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 URUN-ISLAMPUR, (Dist. Sang)

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Subject : Chemistry


Class : B.Sc Part - III (Sem - VI)

Paper No :XVI

Paper Title : Industrial Chemistry

			Topic /Unit	Sub-units Planned
Month: April			Synthetic Polymers	Introduction. Classification- 1) Based on origin 2) Based on composition 3) Based on method of preparation 4) Based on physical properties 5) Bsaed on structure.Addition polymerization, Ziegler Natta polymerization. Preparation of polymers. Conducting organic polymers- Synthesis and properties of Polyaniline,Polypyrol. Applications of conducting organic polymers.
Teaching Days	20			
Periods Allotted	12			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	2		Physical Chemistry	Potentiometry I,II
Month: May			Manufacture of Heavy Chemicals	Introduction 1) Manufacture of Ammonia(NH ₃) 2)Manufacture of Sulphuric acid (H ₂ SO ₄) 3)Manufacture of Nitric acid (HNO ₃) 4) Manufacture of Sodium Carbonate(Na ₂ CO ₃)
Teaching Days	22			
Periods Allotted	12			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	4	1	Physical Chemistry	Potentiometry III,Colorimetry,Refractometer,, Conductometer I.
Month: June			Sugar Industry	Introduction. Manufacture of sugar in India. Byproducts of sugar industry. Manufacture of Ethyl alcohol from Molasses : by fermentation.
Teaching Days	22			
Periods Allotted	12			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	2		Physical Chemistry	Conductometry II, pHmetry
Month: July			Nanotechnology	Introduction,History,Classification. Optical properties of nanomaterials. Synthetic route of nanomaterials.Synthesis methods. Characterization of nanomaterials.
Teaching Days	22			
Periods Allotted	12			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

				Applications of nanotechnology
		1		
Teaching Days		15		
Periods Allotted		13		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
		1		


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YASHWANTRAO CHAVAN MAHAVIDYALAYA, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Subject: Physics

Class: B.Sc Part – III (SEM - VI)

Paper No: XIV

Paper Title: SOLID STATE PHYSICS

			Topic /Unit	Sub-units Planned
Month: April			Unit-I 1. Crystal Structure 1. To verify the truth tables of NAND, NOR, Ex-OR and Ex-NOR gates by using basic gates with IC-74 series.	Solids: amorphous, polycrystalline and crystalline materials; lattice, basis, unit cell- primitive, non-primitive unit cell, symmetry operations, symmetry elements of cube, Bravais lattice in two and three dimensions,
Teaching Days	17			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
6	4			
Month: May			1. Crystal Structure Miller indices, Miller indices and inter-planer spacing, Simple crystal structures: SC, BCC, FCC and HCP(Coordination number, atomic radius, atoms per unit cell and packing fraction) 2. X-Ray Diffraction 2.To verify the De-Morgan's theorems by using IC-74 series. 3.To built and test Colpitts oscillator using BJT.	Reciprocal lattice and its properties, Brillouin zone, Diffraction of X-rays by crystals, Ewald construction, Bragg's law in reciprocal lattice,
Teaching Days	25			
Periods Allotted	19			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
11	8			
Month: June			2. X-Ray Diffraction Experimental methods in X-ray diffraction (Laue method, rotating crystal method, powder photograph method), Analysis of cubic crystal by powder method. Unit II 1. Magnetic Properties of Matter 4. To built and test phase shift oscillator using BJT	Classical Langevin theory of diamagnetic and paramagnetic materials,
Teaching Days	26			
Periods Allotted	18			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

			5. To study Op-amp as an inverting amplifier.	
10	8			
Month: July			1. Magnetic Properties of Matter	Quantum mechanical treatment of paramagnetism, Curie's law, Weiss theory of ferromagnetism and ferromagnetic domains, Explanation of B-H curve, Hysteresis and energy loss.
Teaching Days		26		
Periods Allotted		13		
Periods Available				
Teaching	Practicals/ Tutorials	Tests	6. To design and test an astable multivibrator using IC-555 Timer.	
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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Teachers Name: Miss. N. S. Atugade

Subject: Physics

Class: B.Sc Part –III (Sem-VI)

Paper No: XIII

Paper Title: Nuclear and Particle Physics

			Topic /Unit	Sub-units Planned
Month: April			Unit -1 1.General property of nuclei Practical- 1 Estimation of errors.	Introduction, constitution of the nucleus and their intrinsic property, basic property of nuclei, liquid drop model, semi empirical formula, magic no.
Teaching Days	17			
Periods Allotted	5			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
5	4			
Month: May			Topic-2- Partial Accelerator Practical- 2.RC phase shift oscillator 3.Kelvin method	Introduction, need of accelerator, cyclotron, Synchrocyclotron, Betatron, synchrotrons.
Teaching Days	25			
Periods Allotted	18			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
7	8			
Month: June			Unit 2 1.Nuclear detector Practical- 4. Study of half and full adder 5.XRD	Introduction, Ionisation Chamber, GM counter, PMT, Scintillation counter, Cerenkov radiation, Cerenkov detector and Counter.
Teaching Days	26			
Periods Allotted	11			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
8	8			
Month: July			2. Nuclear Detector Practical- 6.Radius of bore of capillary tube	Wilson Cloud Chamber. Semiconductor detector.
Teaching Days	26			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
2	8			

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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Teacher Name – Miss. N. S. Atugade

Class: **B.Sc Part –III (Sem - VI)**

Paper No: XV

Paper Title: Atomic and molecular physics and Astrophysics

			Topic /Unit	Sub-units Planned
Month: April			Unit II - Raman Spectra	Raman effect, properties of Raman lines, Classical and quantum theory of Raman effect, difference between Raman and infrared spectra.
Teaching Days		17		
Periods Allotted		6		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
6				
Month: May			2. Structure of universe	The Hubble law, Big bang theory, oscillating theory, steady state theory, cosmological testes, Milky way galaxy, origin of solar system.
Teaching Days		25		
Periods Allotted		8		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
8	8			
Month: June			Unit I- Atomic Spectra	Hydrogen fine structure, optical spectral series for doublet, spectrum of sodium, intensity rules electron spin orbit interaction, normal and Anomalous Zeeman effect, Lande g factor.
Teaching Days		26		
Periods Allotted		7		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
7	8			
Month: July			2. Molecular Spectra	Molecular bond, electron sharing, H ₂ molecule ion, rotational Spectra, rotational energy levels, vibrational spectra, vibrational energy levels.
Teaching Days		26		
Periods Allotted		10		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10				

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YASHWANTRAO CHAVAN MAHAVIDYALAYA, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Subject: Chemistry

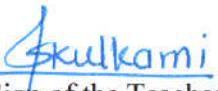
Class: B.Sc.Part - III (Sem - VI)

Paper No: XIV

Paper Title: Organic Chemistry

			Topic /Unit	Sub-units Planned
Month: April			Theory Unit I Reagents and Reactions in Organic Synthesis A] Reagents B] Reactions Practical: 1. binary mixture-1 2. 2:4-DNP derivative	Preparation and Applications of following reagents. Lithium aluminum hydride LiAlH ₄ , Raney Nickel, Osmium tetroxide, Selenium dioxide (SeO ₂), Cyclohexyl Carbodiimide (DCC) Diels -Alder reaction, Merwin -Pond Orff-Verley reduction, Hofmann rearrangement, Wittig reaction, Wagner- Merwin rearrangement, Baeyer Villiger oxidation.
Teaching Days	17			
Periods Allotted	16			
Periods Available				
Teaching	practical/ Tutorials	Tests		
8	8			
Month: May			Theory Unit II Electrophonic addition to >C=C< and -C≡C- bonds Addition to Carbon-Carbon triple (-C≡C-) bond Practical: 1, binary mixture-2 2. osazone derivative	Addition to Carbon-Carbon double (>C=C<) bond: Anti-Markovnikoff's addition (peroxide effect), Addition of hypohalous acids (HO-X), Ozonolysis (formation of aldehydes & ketones), Hydroxylation (formation of 1,2-diols). Examples of addition reactions. Mechanism of electrophilic addition to -C≡C- bond, Addition of halogens, Addition of halogen acids, Formation of metal acetylides.
Teaching Days	25			
Periods Allotted	18			
Periods Available				
Teaching	practical/ Tutorials	Tests		
10	8			
Month: June			Theory Unit IV Natural Products	Introduction, Occurrence, Isolation, General Characteristic, Classification,
Teaching Days	26			
Periods Allotted	22			

Periods Available			A] Terpenoids:	General Methods for structure determinations, Isoprene rule, Analytical evidences and synthesis of Citral
Teaching	Practicals / Tutorials	Tests	Practical: 1.binary mixture-3 2. nitrate derivative 3.binary mixture-4	
10	12			
Month: July			B] Alkaloids:	Introduction, Occurrence, Isolation, Classification, Properties, General Methods for structure determination ,Analytical evidences and synthesis of Nicotine. Classification, Qualities of ideal drugs, Synthesis and uses of ethambutal, phenobarbitone, isoniazide, benzocaine, Chloramphenicol, paludrine, Drug action of sulph drugs.
Teaching Days		26		
Periods Allotted		18		
Periods Available				
Teaching	Practicals / Tutorials	Tests	Theory Unit V Pharmaceuticals Practical: 1, binary mixture-5 2, binary mixture-6	
10	8			


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YASHWANTRAO CHAVAN COLLEGE, ISLAMPUR
ANNUAL TEACHING PLAN
2020-21

Teachers Name: **Miss. P. V. Patil.**

Subject : Chemistry

Paper No: **XIII**

Class : **B.Sc Part-III (Sem - VI)**

Paper Title : **Inorganic Chemistry**

			Topic /Unit	Sub-units Planned
Month: April			I. Coordination Chemistry I - Inorganic Reaction mechanism	Classification of Mechanism, S_N1 and S_N2 reactions for inert and labile complexes,
Teaching Days	15			
Periods Allotted	14			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
Month: May			I - Inorganic Reaction mechanism	Trans effect and its theories, Applications of trans effect in synthesis of Pt (II) complexes
Teaching Days	16			
Periods Allotted	15		II - Thermodynamic and Kinetic aspects of metal complexes Inorganic Chemistry	Kinetic Stability, Stepwise stability constant, Determination of Stability constant by Job variation, Mole ratio and Slope ratio method. 5. Preparation of potassium trioxalato ferrate (III). 6. Preparation of chloropenta-ammine cobalt (III) chloride.
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	2	1		
Month: June				
Teaching Days	17			
Periods Allotted	15			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		

	2	1		
Month: July			3. Chemistry of f- Block Elements	Electronic Configuration, Lantahnide contraction, Separation of Lanthanides by Ion exchange method
Teaching Days		16		
Periods Allotted		14		
Periods Available				
Teaching	Practicals/ Tutorials	Tests	A] Lanthanides	Electronic configuration, General methods of preparation of transuranic elements, IUPAC nomenclature of the super heavy elements with atomic number (Z) greater than 100.
			B] Actinides	
			Inorganic Chemistry	Analysis of Commercial Sample -
				9. Determination of titrable acidity in the given sample of milk or lassi.
				10. Determination of percentage purity of boric acid using supplied sodium hydroxide
	2	2		
Month: August			4. Bio-inorganic Chemistry	Essential and trace elements in biological process, Metalloporphyrins with special reference to hemoglobin and myoglobin, Biological role of alkali and alkaline earth metal ions with special referenc to Na ⁺ , K ⁺ and Ca ²⁺
Teaching Days		12		
Periods Allotted		11		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
	2	1		

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ANNUAL TEACHING PLAN
2020-21

Teachers Name : Kumbhar Dattatraya Tanaji
 Subject : **Computer Science**
 Paper No : **DSE-22F**

Class : **B. Sc. Part III (Sem VI)**
 Paper Title : **ASP.NET**

			Topic /Unit	Sub-units Planned
Month: May			Unit – 1: - Introduction to ASP.Net	<ul style="list-style-type: none"> • Web browser, web server • HTTP request response structure • HTML form elements • GET/POST method • Client side and Server side programming.
Teaching Days		26		
Periods Allotted		21		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
13	8			
Month: June			Unit – II: Asp.Net State Management	<ul style="list-style-type: none"> • Web form life cycle, page events, • Visual studio IDE. • Server Controls • Validation Controls • Navigation controls • Master Page.
Teaching Days		25		
Periods Allotted		20		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	8			
Month: July			Unit – II: Asp.Net State Management	<ul style="list-style-type: none"> • Cross page postback property of button, • Response.Redirect, • Server.transfer, Response.Write, • Hiddenfield control,
Teaching Days		26		
Periods Allotted		22		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
14	8			
Month: August				<ul style="list-style-type: none"> • View State, Cookies, Session, Application • Global.asax • Caching
Teaching Days		10		
Periods Allotted		10		
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
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ANNUAL TEACHING PLAN
2020-21

Teachers Name : Kumbhar Dattatraya Tanaji

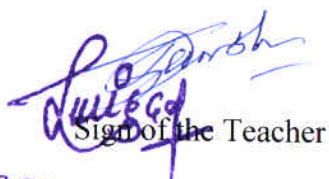
Subject : **Computer Science**

Paper No : **DSE-23F**

Class : **B. Sc. Part III (Sem VI)**

Paper Title : **Linux Part- II**

			Topic /Unit	Sub-units Planned
Month: May			Unit – 1: - Memory Management and Advanced vi	<ul style="list-style-type: none"> Swapping Demand Paging ex Mode- handling Multiple Files
Teaching Days	26			
Periods Allotted	20			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	8			
Month: June				<ul style="list-style-type: none"> Named Buffer Numbered Buffers Entering control characters Searching for a characters
Teaching Days	25			
Periods Allotted	20			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	8			
Month: July			Unit – II: Filters and Advanced Shell Programming	<ul style="list-style-type: none"> sed and sed options grep and grep options Line Addressing Multiple Instruction(-E and -F) Context Addressing Writing Selected Lines to a File
Teaching Days	26			
Periods Allotted	20			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	8			
Month: August				<ul style="list-style-type: none"> Shell and subshell Command Line Arguments Exporting Shell Variables Arrays Shell Functions
Teaching Days	10			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
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ANNUAL TEACHING PLAN
2020-21

Teachers Name :Jagatap Nilesh Ramesh
 Subject : **Computer Science**
 Paper No : **DSE-24F**

Class : **B. Sc. Part III (Sem VI)**
 Paper Title : **Python Part -II**

			Topic /Unit	Sub-units Planned
Month: May			Unit – 1: - Functions	<ul style="list-style-type: none"> Defining a function Calling a function Types of functions
Teaching Days	26			
Periods Allotted	21			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
14	7			
Month: June			Unit – II: Modules, Input- Output	<ul style="list-style-type: none"> Function Arguments Anonymous functions Global and local variables
Teaching Days	26			
Periods Allotted	20			
Periods Available-				
Teaching	Practicals/ Tutorials	Tests		
12	8			
Month: July			Unit – II: Modules, Input- Output	<ul style="list-style-type: none"> Importing module Math module Random module Packages Composition
Teaching Days	25			
Periods Allotted	20			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
12	8			
Month: August				<ul style="list-style-type: none"> Printing on screen Reading data from keyboard Opening and closing file Reading and writing files Functions
Teaching Days	10			
Periods Allotted	10			
Periods Available				
Teaching	Practicals/ Tutorials	Tests		
10	0			



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ANNUAL TEACHING PLAN
2020-21

Name : Ms. A. A. Patil

Subject : Physics

Class : B.Sc. Part - III (Sem VI)

Paper No: XVI

Paper Title : Energy Studies and Materials Science

			Topic /Unit	Sub-units Planned
Month: April			UNIT-I 1. Energy and Wind Energy 1. Study of divergence of LASER beam	Energy, Forms of energy, Man and environment, Energy chains, Classification of energy resources, Energy demands, Age of renewable and alternatives, Wind energy, Wind energy chains, Wind energy quantum, Planning of wind farm, Wind power density, Efficiency factor of wind turbine (P-H graph), Power of wind turbine for a given incoming wind velocity, Types of a wind turbine generator unit, Horizontal axis propeller type wind turbine generator unit.
Teaching Days	17			
Periods Allotted	12			
Periods Available				
Teaching	Practical's/ Tutorials	Tests		
8	4			
Month: May			2. Solar Energy 2. Measurement of wavelength of LASER using plane diffraction grating	Solar energy, Solar energy spectrum (UV, Visible and IR), Utilization of solar energy-thermal route, photovoltaic route, Essential subsystems in solar energy plant, Solar constant, Clarity index, Solar insolation, Solar energy from satellite station through microwave to earth station, Solar photovoltaic systems, Merits and limitations of solar PV systems, Prospects of solar PV systems, Power of a solar cell and solar PV panel.
Teaching Days	25			
Periods Allotted	12			
Periods Available				
Teaching	Practical's/ Tutorials	Tests		

8	4			
Month: June			3. Biomass Energy	Origin of biomass, Biomass energy resources (biomass from cultivated crops, biomass from waste organic matter), Biomass conversion process (biochemical conversion-anaerobic digestion and fermentation)
Teaching Days		26		
Periods Allotted		16		
Periods Available				
Teaching	Practical's/ Tutorials	Tests	Unit II	Introduction to nanoscience and nanotechnology, Length scales relevant to nanoscience, Nanostructures: 1D, 2D and 3D nanostructures, Size effects in nanosystems, Quantum confinement,
			2. Nanotechnology	
			3. Obtaining Biprism fringes without lateral shift	
			4. Measurement of distance between two coherent sources in Biprism experiment	
8	8			
Month: July			2. Nanotechnology	Synthesis of nanostructured materials (Top down and bottom up approach), Photolithography, Ball milling, Nucleation and growth, Applications of nanotechnology (Spintronics, Molecular electronics, Nanobiotechnology)
Teaching Days		26		
Periods Allotted		14		
Periods Available				
Teaching	Practical's/ Tutorials	Tests	5. Polar graph using photocell/photovoltaic cell	
			6. Testing of electronic components	
6	8			

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