

Pimpalner Education Society's

Karm. A. M. Patil Arts, Commerce & Kai. Annasaheb
N. K. Patil Science Senior College Pimpalner, Tal.- Sakri,

Dist.- Dhule.

कर्माम्नी बाहिनबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगाव
Karmayitai Bahinabai Chaudhari NIMD - Jalgaon



NAAC Reaccredited 'B' Grade

TEACHER'S DIARY

ACADEMIC YEAR : 2019 - 2020

Name : Prof. K. D. Kadam

Designation : Asso. Prof.

Department : Mathematics .



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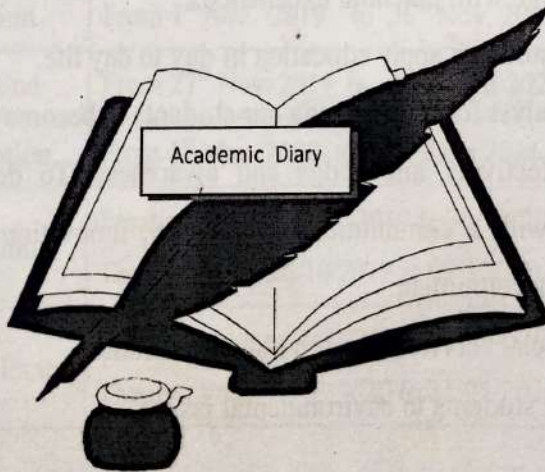
TEACHER'S DIARY

ACADEMIC YEAR : 2019 - 2020

Name : Prof. Kadu Dala Kadam

Designation : Associate Professor

Department : Mathematics



TEACHING PLAN

Class: F-7.0.Sc Sem.: I Subject: Matrix Algebra Paper Code.: math-101

Sr. No.	Month	Topics/Practical's
1.	July 18.	Unit-1: Rank of Matrix a. Elementary operations on Matrices. b. Adjoint of a Matrix & Inverse of a Matrix. c. Existence & Uniqueness thm. of inverse of a matrix d. Properties of inverse of a matrix, Elementary Matrices e. Rank and normal form of a matrix, Reduction of a matrix to its normal form. Rank of product of two matrices
2.	Aug. 19	Unit 2: System of Linear Equations a. A homogeneous & non-homo. sy. of linear eq ^{ns} . b. Consistency of sy. of linear eq ^{ns} . c. Application of matrices to solve the sy. of linear eq ^{ns} . Unit-3: Eigen Values & Eigen Vectors a. Orthogonal Matrices & Properties of Orthogonal matrices b. Characteristic equation, Eigen Value & Eigen Vectors of Matrices.
3.	Sept 19	c. Cayley Hamilton Theorem, and its use to find the inverse of a matrix. Unit-4: Matrix Transformation a. Two & Three dimensional Matrix Transformation. b. Application of Matrices to scaling & shearing c. Application of Matrices to Reflection, Rotation & Translation.
4.	Oct-19	Revision. Test / Tutorial / Internal Exam.

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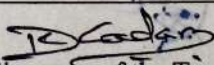
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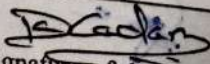
Class : F.T.B.Sc. Sem.: I Subject : Calculus Paper Code : MTH-102


Sr. No.	Month	Topics/Practical's
1.	July-18	Unit-1: Limits and Continuity a) ϵ - δ def ⁿ of limit of a fun. b) Properties of limits, Indeterminate forms & L-Hospital's rule. c) Continuous functions, Properties of continuous fun. on closed and bounded intervals. d) Theorems on boundedness of continuous functions, including intermediate value theorem. e) Uniform Continuity,
2.	Aug-19	Unit-2: Mean Value Theorems. a) Differentiability. b) Rolle's Theorem c) Lagrange's M.V.T. d) Cauchy's M.V.T. e) Geometrical interpretation & applications Unit-3: Successive Differentiation. a) The n^{th} derivative of some std. functions e^{ax+b} , $(ax+b)^m$, x^m , $\frac{1}{ax+b}$, $\log(ax+b)$, $\sin(ax+b)$, $\cos(ax+b)$, $e^{ax} \sin(bx+c)$, & $e^{ax} \cos(bx+c)$.
3.	Sept-19	b) Maclaurin's theorem Leibniz's Theorem & Examples Unit-4: Application of Calculus. a) Taylor's theorem with Lagrange's form of remainder and related examples. b) Maclaurin's theorem with Lagrange's form of remainder and related examples. c) Reduction formulae i) $\int_0^{\pi/2} \sin^m x dx$, ii) $\int_0^{\pi/2} \cos^m x dx$, iii) $\int_0^{\pi/2} \sin^m x \cos^n x dx$ & iv) $\int \frac{\sin^m x}{\sin x} dx$
4.	Oct-19	Revision Test/Tutorial.


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Sr. No.	Month	
1.	July-19	<p><u>Unit-1: Graphs</u> Graph Simple Graph, multigraph, Hand Shaking Lemma Types of Graphs, Operations on Graphs. Subgraphs Isomorphism of graphs, Walks path, cycles (or circuits)</p>
2.	Aug-19	<p><u>Unit-2: Connected Graphs</u> Connected and disconnected graphs Bridges, Cut Vertices edge connectivity and vertex connectivity, Eulerian graph, Hamiltonian graph, Planar graph. Euler's formula for plane graphs. Kuratowski's two graphs. Geometrical dual.</p>
3.	Sept-19.	<p><u>Unit-3: Trees and Directed Graphs</u> Definition & some properties of trees Distance & center in a tree Defⁿ of Root and Binary trees, Spanning trees Minimal spanning trees, Directed graphs, Some types of digraphs.</p>
4.	Oct-19.	<p><u>Unit-4: Applications of the Graphs</u> Existence of Graphs for given no. of vertices and edges, coloring of the graph Konigsberg's Seven Bridge Problem Travelling Salesman Problem Dijkstra's algorithm, In-Postman's algorithm formation of Spanning tree using rooted trees.</p>
		<p>Revision Test/Tutorial.</p>

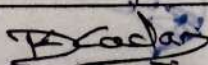

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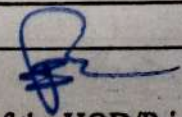

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TEACHING PLAN

Class: 5-Y.B.Sc. Sem.: III Subject: Calculus of Several Variables Paper Code.: MTH-30

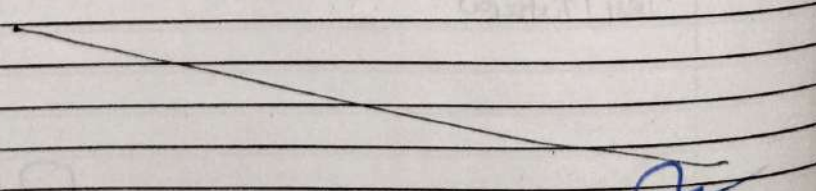
Sr. No.	Month	Topics/Practical's
1.	July-19	<p>Unit-1: Functions of Two and Three Variables.</p> <p>1.1: Explicit and Implicit Functions.</p> <p>1.2: Continuity</p> <p>1.3: Partial Derivatives.</p> <p>1.4: Differentiability.</p> <p>1.5: Necessary and Sufficient Conditions for Differentiability</p> <p>1.6: Partial Derivatives of Higher Order.</p> <p>1.7: Schwarz's Theorem.</p> <p>1.8: Young's Theorem.</p>
2.	Aug-19	<p>Unit-2: Jacobian, Composite Functions and M.V.T.</p> <p>2.1: Jacobian (Only for Two & Three Variables)</p> <p>2.2: Composite Functions (Chain Rule)</p> <p>2.3: Homogeneous Functions</p> <p>2.4: Euler's Theorem for Homo. Fun.</p> <p>2.5: M.V.T. for Fun. of Two Variables.</p> <p>Unit-3: Taylor's Theorem and Extreme Values</p> <p>3.1: Taylor's Theorem for Fun. of Two Variables.</p> <p>3.2: Maclaurin's Theorem for fun. of two variables.</p> <p>3.3: Absolute and Relative Maxima & Minima.</p>
3.	Sept-19.	<p>3.4: Necessary Condition for Extrema.</p> <p>3.5: Critical Point, Saddle Point.</p> <p>3.6: Sufficient Condition for Extrema.</p> <p>Unit-4: Double and Triple Integrals</p> <p>4.1: Double Integrals by Using Cartesian and Polar Coordinates.</p> <p>4.2: Change of Order of Integration.</p> <p>4.3: Area by Double Integral.</p>
4.	Oct-19	<p>4.4: Evaluation of Triple Integral as Repeated Integral.</p> <p>4.5: Volume by Triple Integral.</p> <p>Revision.</p> <p>Test/Tutorial.</p>

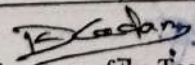

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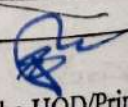

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TEACHING PLAN

Class : S.Y.B.Sc. - Sem.: III Subject : Group Theory Paper Code. : MTH-30119

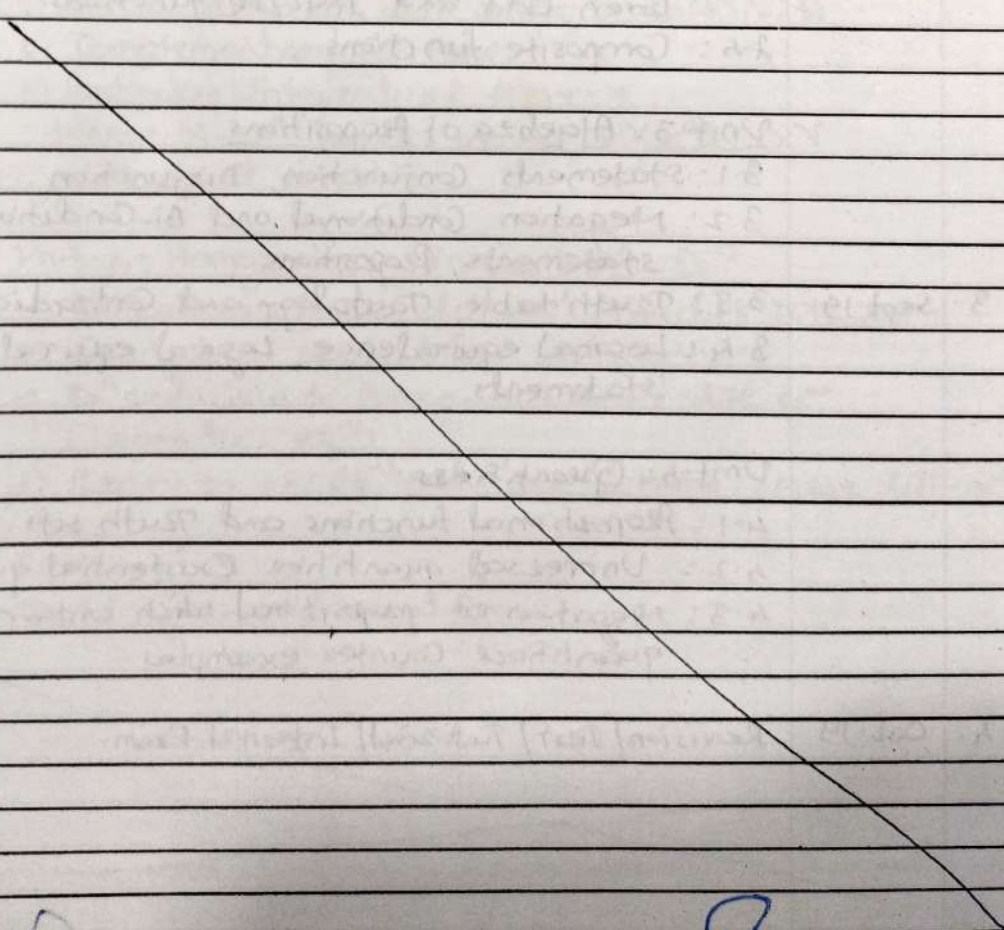
Sr. No.	Month	Topics/Practical's
1.	July-19	<p>Unit-1: Groups .</p> <p>1.1: Defⁿ & examples of group.</p> <p>1.2: Simple Properties of group.</p> <p>1.3: Abelian Group.</p> <p>1.4: Finite and Infinite Groups.</p> <p>1.5: Order of a Group.</p> <p>1.6: Order of an Element and Its Properties.</p>
2.	Aug-19	<p>Unit-2: Subgroups .</p> <p>2.1: Defⁿ & examples of Subgroups .</p> <p>2.2: Simple Properties of Subgroup .</p> <p>2.3: Criteria for a Subset to be a Subgroup .</p> <p>2.4: Cyclic Groups .</p> <p>2.5: Normal subgroups and Coset Decomposition.</p> <p>2.6: Lagrange's Theorem for finite group .</p> <p>2.7: Euler's Theorem and Fermat's Theorem.</p>
3.	Sept-19	<p>Unit-3: Homomorphism and Isomorphism of Groups .</p> <p>3.1: Defⁿ and Example of Group Homomorphism .</p> <p>3.2: Properties of Group Homomorphism .</p> <p>3.3: Kernel of a Group Homomorphism & its Properties .</p> <p>3.4: Defⁿ and Examples of Isomorphism .</p> <p>3.5: Defⁿ and Examples of Automorphism of Groups .</p> <p>3.6: Properties of Isomorphism of Groups .</p>
		<p>Unit-4: Rings</p> <p>4.1: Defⁿ & Simple properties of a Ring.</p> <p>4.2: Commutative Ring, Ring with unity, Boolean Ring.</p> <p>4.3: Ring with zero divisors and without zero divisors</p> <p>4.4: Integral Domain, Division Ring and Field. Simple Properties.</p>
4.	Oct-19	<p>Revision</p> <p>Test/Tutorial</p>
		

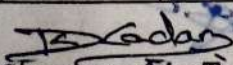

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TEACHING PLAN

Class : S7-B.Sc. Sem.: III Subject : Practical Course Paper Code. : MTH-303
or MTH-301 & MTH 302

Sr. No.	Month	Topics/Practical's
1.	July-19	1) Functions of two and three variables. 2) Jacobian, Composite functions and I.V.T. 3) Taylor's Theorem and Extreme Values.
2.	Aug-19	4) Double and Triple Integrals. 5) Groups. 6) Subgroups.
3.	Sept-19	7) Homomorphism and Isomorphism of Groups. 8) (a) Rings.
4.	Oct-19	Revision / Test / Tutorial / Internal Exam.
		

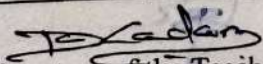

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TEACHING PLAN

Class : S7. B. Sc. Sem.: III Subject : Set Theory & Logic Paper Code.: SEC-1. MTH-30A

Sr. No.	Month	Topics/Practical's
1.	July-19	<u>Unit-1: Sets and Subsets</u> 1-1: Finite set and Infinite set. 1-2: Equality of two sets. 1-3: Null set, Subset, Proper subset, Symmetric difference of two sets. 1-4: Universal set, Power set, Disjoint sets. 1-5: Operation on sets: Union and Intersection. 1-6: Venn diagram. 1-7: Equivalent sets - 1-8: Countable and uncountable sets.
		<u>Unit-2: Relations and Functions</u> 2-1: Product of sets.
2.	Aug-19	2-2: Relations, Types of relations, Reflexive, Symmetric, Transitive relations and equivalence relations. 2-3: Function, Types of functions, One-one, Onto, Even, Odd and Inverse functions. 2-4: Composite functions.
		<u>Unit-3: Algebra of Propositions</u> 3-1: Statements, Conjunction, Disjunction. 3-2: Negation, Conditional and Bi-Conditional statements, Propositions.
3.	Sept-19	3-3: Truth table, Tautology and Contradiction. 3-4: Logical equivalence, Logical equivalence statements.
		<u>Unit-4: Quantifiers</u> 4-1: Propositional functions and Truth sets. 4-2: Universal quantifier, Existential quantifier. 4-3: Negation of propositional which contain quantifiers, Counter examples.
4.	Oct-19	Revision / Test / Tutorial / Internal Exam.

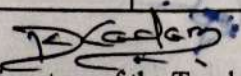

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TEACHING PLAN

Class : F-T.B.Sc. Sem.: II Subject : Ordinary Diff. Eq^s Paper Code. : MATH-201

Sr. No.	Month	Topics/Practical's
1.	Nov-19	Unit-1: Differential Equation of First Order & First Degree a) Partial Derivatives of first order & second order
2.	Dec-19	b) Exact diff. eq ⁿ , Condition for exactness. c) Integrating factor (I.F.) d) Rules for finding integrating factors. e) Linear Diff. Eq ⁿ . f) Bernoulli's eq ⁿ . Eq ⁿ reducible to linear form.
		Unit-2: Differential Eq ⁿ of first Order & Higher Degree
3.	Jan-20	a) Diff. eq ⁿ of first order & higher degree. b) Eq ⁿ solvable for p. c) Eq ⁿ solvable for y. d) Eq ⁿ solvable for x. e) Clairaut's form.
		Unit-3: Linear Diff. Eq ⁿ of second & Higher Order.
		a) linear diff. eq ⁿ with constant coefficients. b) Complementary Functions c) Particular Integrals of $f(x)Y = X$, where $X = e^{px}, \cos(ax), \sin(ax), x^n, e^{ax}y, x^y$ with usual notations.
4.	Feb-20	Unit-4: Homogeneous Linear Diff. Eq ⁿ . a) Homogeneous linear diff. eq ⁿ (Cauchy's Diff. Eq ⁿ) b) Example of homo. linear diff. eq ⁿ . c) Eq ⁿ reducible to homogeneous linear diff. eq ⁿ (Legendre's eq ⁿ) d) Examples of Eq ⁿ reducible to homo. linear diff. eq ⁿ .
5.	Mar-20	Revision Test / Tutorial / Internal Exam.
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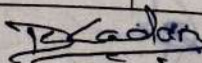

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TEACHING PLAN

Class : F.Y.B.Sc. Sem.: II Subject : Theory of Equations Paper Code : 17711-2

Topics/Practical's

Sr. No.	Month	Topics/Practical's
1.	Nov. 19	<u>Unit-1: Divisibility of Integers:</u> Natural no. Intell. ordering Principle 1st. order
2.	Dec. 19	Principle of Mathematical Induction Divisibility of integers and theorems Division Algorithm, GCD & LCM. Euclidean Algorithm. Unique Factorization Theorem.
		<u>Unit-2: Polynomials</u> Revision of Polynomials, Horner's method of synthetic division, Existence and uniqueness of GCD of the polynomials, Polynomial eq ⁿ Factor Theorem and Generalized Factor Theorem for polynomials fundamental theorem of algebra (1st. order) methods to find common roots of polynomial eq ⁿ . Descartes's rule of sign Newton's method of division for the integral roots
		<u>Unit-3: Theory of Equations-I</u> Relation bet ⁿ roots and coefficients of general eq ⁿ in one variable. Relation bet ⁿ roots & coefficients of quadratic, cubic & biquadratic eq ⁿ . Symmetric Functions of roots
4.	Feb. 20	<u>Unit-4: Theory of Equations-II</u> Transformation of eq ⁿ . Cardan's method of solving cubic eq ⁿ . Biquadratic equations. Descartes's method of solving biquadratic eq ⁿ .
5.	Mar. 20	Revision Test / Tutorial / Internal Exam.

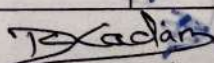

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TEACHING PLAN

Class: F.Y. BSc. Sem.: D Subject: Numerical Analysis Paper Code.: MT11-203(2)

Sr. No.	Month	Topics/Practical's
1.	Nov-19.	Unit-1: Solution of Algebraic & Transcendental Equations Errors and their computation. Absolute, relative and percentage errors.
2.	Dec-19	The Bisection Method. The Iteration Method The Method of False Position Newton-Raphson Method.
		Unit-2: Interpolation.
		Finite Differences Forward & backward differences Central differences Symbolic z^n & separation of symbols
3.	Jan-20	Gauss's Forward Difference formula. Gauss's Backward Difference formula. Interpolations with unevenly spaced points Lagrange's interpolation formula Inverse Lagrange's formula
		Unit-3: Curve Fitting
		Least squares curve fitting procedures Fitting of st. line. Non-linear curve fitting Power fun. $y = ax + b$.
4.	Feb-20	Fitting of polynomial of degree two $y = at + bt^2 + ct^3$ Fitting of exponential fun. $y = ae^{bx}$.
		Unit-4: Numerical Solutions of Ordinary Diff. Eq ⁿ .
		Numerical sol ⁿ of first order ODE by Taylor's series. Euler's method and Modified Euler's method Runge-Kutta methods Runge-Kutta second and fourth order formulae
5.	Mar-20	Revision Test/Tutorial/Internal Exam.

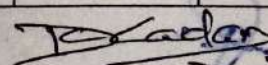

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TEACHING PLAN

Class : S.T.B.Sc. Sem.: IV Subject : Complex Variables Paper Code. : MTT4-201

Sr. No.	Month	Topics/Practical's
1.	Nov. 19	<u>Unit-1: Complex Variables Numbers.</u> 1.1: Complex numbers, modulus & amplitude, polar form
2.	Dec. 19	1.2: Triangle inequality and Argand's diagram. 1.3: De Moivre's theorem for rational indices & applications. 1.4: n^{th} roots of a complex number. 1.5: Elementary functions: Trigonometric functions Hyperbolic functions of a complex variable (part)
		<u>Unit-2: Functions of Complex Variables</u> 2.1: Limits, Continuity and Derivatives. 2.2: Analytic functions A necessary & sufficient condition for analytic functions.
3.	Jan. 20	2.3: Cauchy Riemann equations. 2.4: Laplace Equations & Harmonic Functions 2.5: Construction of analytic functions.
		<u>Unit-3: Complex Integrations:</u> 3.1: Line Integral and theorems on it. 3.2: Statement & verification of Cauchy-Goursat's Theorem 3.3: Cauchy's Integral formulae for $f(z)$, $f'(z)$ and $f^{(n)}(z)$. 3.4: Taylor's and Laurent's series.
4.	Feb. 20	<u>Unit-4: Calculus of Residues.</u> 4.1: Zeros and Poles of a function. 4.2: Residue of a function 4.3: Cauchy's Residue Theorem. 4.4: Evaluation of Integrals by using Cauchy's Residue Theorem. 4.5: Contour Integrations of the type $\int_{\gamma} f(z) dz, \int_{\gamma} \frac{f(z)}{z-a} dz$
5.	May 20	Revision Test/Tutorial/Internal Exam.

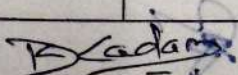

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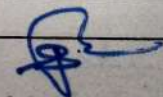

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TEACHING PLAN

Class : S.T.B.Sc. Sem.: IV Subject : Differential Equation Paper Code. : MST4-402(PA).

Sr. No.	Month	Topics/Practical's
1.	Nov. 19	Unit-1: Theory of Ordinary Differential Equations. 1-1: Lipschitz Condition. 1-2: Existence and uniqueness theorem.
2.	Dec-19	1-3: Linearly dependent & independent solutions. 1-4: Wronskian. 1-5: Linear combinations of solutions. 1-6: Theorems on i) Linear combination of solutions. ii) Linearly independent solutions. iii) Wronskian is zero. iv) Wronskian is non-zero. 1-7: Method of variation of parameters for second order L.D.E.
		Unit-2: Simultaneous Differential Equations.
3.	Jan 20	2-1: Simultaneous linear diff. eq ⁿ of first order. 2-2: Simultaneous D.E. of the form $\frac{dx}{p} = \frac{dy}{q} = \frac{dz}{r}$. 2-3: Rule-I: Method of combinations. 2-4: Rule-II: Method of multipliers. 2-5: Rule-III: Properties of Ratios. 2-6: Rule-IV: Miscellaneous.
		Unit-3: Total Differential or Pfaffian Differential Equations.
		3-1: Pfaffian Diff. Eq ⁿ . 3-2: Necessary & Sufficient Condition for Integrability. 3-3: Conditions for exactness. 3-4: Method of solution by inspection.
4.	Feb 20	3-5: Solution of homogeneous equation.
		Unit-4: Difference Equations.
		4-1: Introduction, Order of difference eq ⁿ , degree of diff. eq ⁿ . 4-2: Solution of difference eq ⁿ & formation of diff. eq ⁿ . 4-3: Linear Difference Equations, Linear homogeneous difference equations with constant coefficients. 4-4: Non-homogeneous linear difference equations with constant coefficients.
5.	Mar 20	Revision Test / Tutorial / Internal Exam.


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TEACHING PLAN

Practical Paper Based
MTH-201 & MTH-202

Paper Code: MTH-201-202

Class: B.Tech. Sem: IV Subject:

Sr. No.	Month	Topics/Practical's
1.	Dec. 19	1) Complex Variables Numbers 2) Functions of Complex Variable 3) Complex Integrations
2.	Jan. 20	1) Calculus of Residues 2) Theory of Ordinary Diff. Eq ⁿ 3) Simultaneous Differential Equations
3.	Feb. 20	1) Total (Pfaffian) Differential Equations 2) Difference Equations Revision
4.	Mar. 20	Test (Tutorial) Internal Exam.

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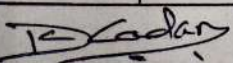
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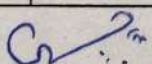
Class : S.T.B.Sc. Sem.: IV Subject : Vector Calculus Paper Code. : MTT-404

Sr. No.	Month	Topics/Practical's
1.	Dec-19	<u>Unit-1: Product of Vectors.</u> 1.1: Scalar Product. 1.2: Vector Product. 1.3: Scalar Triple Product. 1.4: Vector Product of Three Vectors. 1.5: Reciprocal Vector.
		<u>Unit-2: Vector Functions</u> 2.1: Vector functions of a single variable. 2.2: Limits and Continuity.
2.	Jan-20	2.3: Differentiability, Algebra of differentiation. 2.4: Curves in space. Velocity and acceleration. 2.5: Vector function of two or three variables. 2.6: Limits, Continuity, Partial Differentiation.
		<u>Unit-3: The Vector Operator Del.</u> 3.1: The Vector differentiation operator del. 3.2: Gradient.
3	Feb-20	3.3: Divergence and curl. 3.4: Formulae involving del. Irradiance.
		<u>Unit-4: Vector Integration.</u> 4.1: Ordinary Integrals of Vectors. 4.2: Line Integrals. 4.3: Surface Integrals.
4.	Mar-20	Revision Test / Tutorial / Internal Exam.


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Sr. No.	Month	Topics/Practical's
1)	JUNE 2019	* कथा - वाङ्मय प्रकाराची भोक्कम्ब * कथा - संकल्पना व स्वरूप
2)	JULY 2019	* कथेचे घटक - कथानु, व्यक्तिचित्रण, प्रसंगवर्णन, संघर्ष निवेदन शैली व भाषा * कथा या वाङ्मय प्रकाराचे अर्थ वाङ्मय प्रकारातून निराळेपण * कथेच्या प्रमुख प्रकारांचा परिचय - स्फुट गोष्ट, लघुकथा, दीर्घकथा * मराठी कथेच्या वाङ्मयीन परिचय.
3)	ऑगस्ट 2019	* हमीर इलवाई यांच्या निवडणु कथांपैकी 5 कथांची कथानु व त्या कथांमधील व्यक्तिचित्रणे - दहा रूपभाषी नो 2 वाक्यरचनेचा ग्राफाफोन, जाहमद, माणूस आणि माणव दोषार. या कथांवर निवेदन करणे.
4)	सप्टें-2019	* हमीर इलवाई यांच्या निवडणु कथांपैकी 5 कथांची कथानु व त्या कथांमधील व्यक्तिचित्रणे. → कथानुवर, कोट्टा आणि फोडून (एक) प्रत्येकी कथांमधील गोष्ट, बेफार (एक कथांमधील) माणसाची गोष्ट, सुदा सीमा * दहा कथांची निवेदन शैली व भाषाविशेष * दहा कथांमधील जीवनचित्रण आणि संघर्ष * निवडणु दहा कथांवर ट्यूटोरियल/अंतर्गत परीक्षा सेमिनार - 3 - पूर्ण ठेवणे.
5)	ऑक्टो-2019	* हमीर इलवाई यांच्या निवडणु दहा कथांमधील प्रसंगवर्णन व वातावरणनिवेदन * दहा कथांची निवेदन शैली व भाषाविशेष * दहा कथांमधील जीवनचित्रण आणि संघर्ष * निवडणु दहा कथांवर ट्यूटोरियल/अंतर्गत परीक्षा सेमिनार - 3 - पूर्ण ठेवणे.


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* वृथा आणि संवाद कौशल्ये यांचा अभ्यास *
TEACHING PLAN

Class : F.Y. B.S.E Sem.: ___ Subject : Choice B.C.S. मराठी Paper Code. : AEC-मराठी

Sr. No.	Month	Topics/Practical's
1)	JUNE 2019	* वृथा - वाङ्मय प्रकाराची ओळख * वृथा - संवादापणा व स्वरूप
2)	JULY 2019	* वृथाचे घटक - वृथावस्तु - व्याकीर्णितरण, प्रसंगवर्णन, संदर्भ, निवेदन शैली भाषा या संदर्भात विवेचन. * वृथा या वाङ्मयप्रकाराचे अन्य वाङ्मयप्रकारातुन निराकरण * वृथाच्या प्रमुख प्रकारांच्या परिचय - स्फुट गोष्ट - लघुवृथा, दीर्घवृथा * मराठी वृथाचा वाच्यतेचा परिचय.
3)	AUGUST 2019	* व्यंग्येचा मांडणीकर - यांच्या माणदारी माणसं या वृथासंग्रहातील घर्म रामोशी शेता या वृथांची वृथावस्तु व त्या वृथांमधील व्याकीर्णितणांचा अभ्यास करणे. * नामा मास्तर व वनमाळापूर या वृथांचा विवेचन करणे.
4)	SEPTEMBER 2019	* संवादाच्या औपचारिक व अनौपचारिक प्रकारांचा परिचय - * संवाद कौशल्यासाठी आवश्यक पावींचा परिचय -
5)	OCTOBER 2019	* भाषण सादरीकरण, Presentation, वादविवाद, सूत्रसंचालन, गटचर्चा या संवाद कौशल्यांचे स्वरूप स्पष्ट करणे - * वृथा आणि संवाद कौशल्ये या प्रकारांचा - रयुगेरिमास / आंगीपरीक्षा सोमिंगार ३.

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Class: S.Y.B.A Sem.: 3 Subject: आधुनिक वाङ्मयप्रकार Paper Code.: MAR-232

Sr. No.	Month	Topics/Practical's
1)	JUNE 2019	<ul style="list-style-type: none"> * आनंदोत्तम गोखले यांच्या 'अवकाळी पावसाच्या दरम्यानची गोष्ट' या कादंबरीचे वाङ्मयप्रकार * आधुनिक मराठी कादंबरीच्या वाङ्मयातील परामर्श देणे * आधुनिक मराठी कादंबरी वाङ्मय प्रकाराचे धारकांशीचा अन्वय
2)	JULY 2019	<ul style="list-style-type: none"> * 'अवकाळी पावसाच्या दरम्यानची गोष्ट' या कादंबरीचे वाङ्मयप्रकार * 'अवकाळी पावसाच्या दरम्यानची गोष्ट' विवेचन * 'अवकाळी पावसाच्या दरम्यानची गोष्ट' विवेचन
3)	AUGUST 2019	<ul style="list-style-type: none"> * 'अवकाळी पावसाच्या दरम्यानची गोष्ट' उपानव व व्यक्तीव्यक्तिरेखा * 'अवकाळी पावसाच्या दरम्यानची गोष्ट' कादंबरीतील प्रसंगनिर्माण व वातावरणनिर्मितीवर विवेचन. * 'अवकाळी पावसाच्या दरम्यानची गोष्ट' लेखन * 'अवकाळी पावसाच्या दरम्यानची गोष्ट' लेखन
4)	SEPTEMBER 2019	<ul style="list-style-type: none"> * 'अवकाळी पावसाच्या दरम्यानची गोष्ट' या कादंबरीची निष्कर्षपध्दती व साधनांशी - विवेचन. * 'अवकाळी पावसाच्या दरम्यानची गोष्ट' या कादंबरीत धारकांशीचा अन्वय
5)	ऑक्टोबर 2019	<ul style="list-style-type: none"> * थ्योरेटिकल/संगण परीक्षा व सोमवार.

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TEACHING PLAN

Class: TYBA Sem.: 5 Subject: भाषाविज्ञान-5.4 Paper Code.: MAR-354

Sr. No.	Month	Topics/Practical's
1)	June 2019	* भाषा: स्वरूप आणि कार्य यांचा अभ्यास करणे. * भाषिक संदेशात प्राक्रिया व प्रकारांचा अभ्यास करणे.
2)	July 2019	* भाषा विज्ञानाच्या अभ्यासपध्दती - ऐतिहासिक - वर्तमानात यांचा अभ्यास करणे. लेखन करणे.
3)	August 2019	* स्वतंत्र स्वतंत्र कार्य आणि स्वनिर्मित संकल्पना समजून घेणे. * वाग्विज्ञानाची रचना व कार्यचा अभ्यास करणे. * स्वनिर्मित संकल्पना, स्वतंत्र - स्वनिर्मित - स्वतंत्रता : परस्पर संबंधांचा अभ्यास * स्वनिर्मित निश्चितीची तात्वे, स्वनिर्मित विनिर्माणे प्रकार समजून घेणे * लेखन करणे, मराठीची स्वनिर्मित व्यवस्था समजून घेणे.
4)	September 2019	* स्वनिर्मित संकल्पना, रूपिका - रूपिम - रूपिकता : संबंध समजून घेणे * रूपिकांचे प्रकार अभ्यास करणे * रूपिकांमधील प्रकार अभ्यास करणे
5)	October 2019	* वाच्य व अर्थविज्ञान समजून घेणे. * वाच्यविज्ञान : प्रयोगात्मक संकल्पना पध्दत * वाच्यविज्ञानाचे प्रकार व विश्लेषण समजून घेणे * अर्थाने स्वरूप समजून घेणे * अर्थाने स्वरूप, अर्थप्रमाणा, शब्दाने विविध अर्थ, अर्थस्रोत व अर्थ

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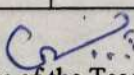
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TEACHING PLAN

SEC - मराठी - 3

Class: S.Y.BA Sem.: 3 Subject: लेखन कौशल-मुद्रित Paper Code: : MAR-23

Sr. No.	Month	Topics/Practical's
1)	June 2019	* मुद्रित शोधन: स्वतंत्र आणि प्रक्रिया * मुद्रित शोधन म्हणजे काय?
2)	July 2019	* मुद्रित शोधनाची उपभोजनाची क्षेत्रे आणि या क्षेत्रातल्याची मान्यता (मुद्रित न 53-मान्य मान्यता, ग्रंथनिर्मिती, निमतकालिंद्र संपादन इ. क्षेत्रे) (मुद्रित शोधनाची मान्यता)
3)	August 2019	* मुद्रित शोधनाचा खुणा, त्यांचा आणि त्यांचे उपभोजन * मराठी विद्यापीठ आणि लेखनविषयक निवृत्त भाषे मुद्रित शोधनातील महत्त्व
4)	September 2019	* मुद्रित शोधन: उपभोजन - * तुमच्या परिवारातील प्रवृत्ती प्रकाशक संस्था/प्रकाशक/वृत्तपत्र/निवृत्त कालिका/लेखक भाषी अथवा क्षेत्र तुमच्या परिवारातील मुद्रित शोधनातील स्वतंत्र, मान्यता आणि समस्या संकल्पनात्मक/मान्यता करत.
5)	October 2019	* विमान पत्राचे शब्दांचे योग गद्य इतर निवृत्त यातील विद्यापीठ आणि त्यांची प्रकाशनात्मक आणि मान्यता * ट्यूटोरिअल/अंतर्गतपरीक्षा/सोमिगल घेणे.


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* विज्ञान कथा भाषण नोट लेखन - AECC-1

TEACHING PLAN

Class : S.Y.B.Sc. Sem.: 3 Subject : विज्ञान कथा-नोट लेखन Paper Code.: AECC-1

Sr. No.	Month	Topics/Practical's
1)	<u>June</u> 2019	* विज्ञान कथा 'शा कथाप्रकाराचा परिचय करून देणे। * विज्ञान कथा उच्चते काम ? तीची घटकांशी समजून घेणे।
2)	<u>July</u> 2019	* विज्ञानाच्या ऐतान्मिक विविध विषयांकावात मराठीतून लेखन करण्याक प्रोत्साहन देणे। * नैदानिक संज्ञा - संकल्पनांवाकत विज्ञानकोशाकाठी नोट लेखन करून घेणे। * विज्ञानाच्या ऐतान्मिक विविध विषयावर लेखन मोगी लेखन करून घेणे। * विज्ञानाच्या ऐतान्मिक विविध विषयावर लेखन मोगी लेखन करून घेणे।
3)	<u>August</u> 2019	* विज्ञान कथेचे स्वरूप - विज्ञान कथेची वैशिष्ट्ये उ. अ. विवेचन करणे। * कथाक, व्याकीचिहण, नैदानिकता, काव्याचिहण, संवाद - काव्याचिहण आदी मुख्य आधार - डिक्टरी - वाक्यांशक, महत्वांकवण नोट आ कथांचे विवेचन।
4)	<u>September</u> 2019	* विज्ञान कथा एक वाङ्मयप्रकार विवेचन करणे। * लेखन करणे। * 'विठ विठ पोपट' - सुबोध जाणवेकर यांच्या कथेचे विवेचन करणे।
5)	<u>October</u> 2019	* लेखन करणे। * 'रेखा वेजल यांच्या 'ममी रेखा' यांच्या कथेचे विवेचन। * ट्यूटोरियल / अंतर्गत परीक्षा / सेमिनार घेणे।

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Pimpalner Education Society's

**Karm. A. M. Patil Arts, Commerce & Kai. Annasaheb
N. K. Patil Science Senior College Pimpalner, Tal.- Sakri,
Dist.- Dhule.**



NAAC Reaccredited 'B' Grade

TEACHER'S DIARY

ACADEMIC YEAR : 2019 - 2020

Name : Prof. Dr. B. C. More
Designation : Prof in Zoology
Department : Zoology



TEACHING PLAN

Class: F.Y.B.Sc Sem.: Ist Subject: Animal Diversity I Paper Code.: Zoo 101

Sr. No.	Month	Topics/Practical's
1	June 19	Introduction to subject Zoology, General life science, G.K. of animal science, aim is to create interest & awareness among students regarding sub. Zoology, scope - How subject is good for competitive exam, <u>Unit 1 - Kingdom Protista - Introduction</u>
2	July 19	General characters & classification up to classes, locomotory organelles and locomotion in Protozoa. <u>Unit 2 - Phy. Porifera</u> - General characters of classification up to classes, Canal system in Sycon. <u>Unit 3 - Phy - Cnidaria</u> , General characters and classification up to classes, polymorphism in Hydrozoa.
3	Aug 19	<u>Unit 4 - Platyhelminthes</u> , General characters and classification up to classes: life history of <u>Taenia solium</u> . <u>Unit 5 - Phy - Nematelminthes</u> , General characters of classification up to classes: life history of <u>Ascaris lumbricoides</u> & its parasitic adaptation. <u>Unit 6 - Phy - Annelida</u> General characters of classification up to classes. metamorphosis in Annelida.
4	Sept 19	<u>Unit 7 - Phy - Arthropoda</u> - General characters, classification up to classes, Vision, metamorphosis in Insects. <u>Unit 8 - Phy - Mollusca</u> . General characters, classification up to classes, Torsion in Gastropods. <u>Unit 9 - Phy - Echinodermata</u> . General characters, classification up to classes. Water vascular system in Asteroidea.
5	Oct 19	Revision, Question paper pattern discussion, Test, Tutorial, Use of ICT/Internet for Zoology.

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TEACHING PLAN

Class: T.Y.B.Sc Sem.: V Subject: Biochemistry Paper Code.: Zoo-354

Sr. No.	Month	Topics/Practical's
1	June 19	Introduction to Zoology. Zoology for competitive exam. Scope of zoology. Use of present syllabus for TNET/SET. Isolation of sub students for monitor. Use of Google for study etc.
2	July 19	Unit 1 - Introduction to biochemistry, objectives, scope & imp. Unit 2 - pH & buffer - concept of pH & pK, pH value of body fluid, pH scale & significance, Ionization of acids & bases. Henderson-Hasselbalch equation. Buffer - Def ⁿ , concept functions, types & uses of buffer in biological system. Unit 3 - Molecular interaction - Def ⁿ , formation & examples of chemical bonds, covalent bonds, Non-covalent bonds, other bonds. Unit 4 - Carbohydrates - Def ⁿ , class ⁿ , importance, Monosaccharide, mutarotation, physical properties of glucose, chemical properties Disaccharides, polysaccharides.
3	Aug 19	Unit 5 - Lipids. Def ⁿ , classification, examples, importance fatty acids saturated, Unsaturated, physical & chemical properties. Occurrence & significance of phospho, Sphing, glyco, lip, Isoprenoid lipids Unit 6 - Amino acids - Def ⁿ , basic structure, class ⁿ & biological importance of a.a. essential & non-essential, non essential Non protein a.a. their properties. Unit 7 - Protein - Def ⁿ biological significance, classification, structure of proteins, Def ⁿ - Defensive proteins.
4	Sept-19	Unit 8 - Enzymes - Def ⁿ , types, class ⁿ , properties, mechanism of enzyme action, models, factors affecting enzyme reaction, co-enzymes, cofactors, prosthetic groups, Isoenzymes, Nucleotides Industrial application of enzymes. Unit 9 - Vitamins - Def ⁿ , class ⁿ , fat soluble A, D, E, K, water soluble vita B complex, C, vitamins as a coenzymes. Unit 10 - Minerals - Def ⁿ , macrominerals - Ca, P, Mg, Na, Cl, K, Fe.
5	Oct-19	Discussion of question paper pattern, old questions paper test/tutorial, Seminar, local tour. Use of mobile internet & ICT in Zoology.

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TEACHING PLAN

Class: T.Y.B.Sc Sem.: Ist Subject: Sys, Ecol & Palaeontology Paper Code.: Zoo 355

Sr. No.	Month	Topics/Practical's
1	June 19	Introduction to Zoology, Ecol, Palaeontology, importance of Zoology, scope, question paper pattern, Exam pattern etc, Syllabus writing & brief discussion of it.
2	July 19	<p>Unit 1: Systematics - Intⁿ origin, needs, significance of classification, system of classification, Nomenclature, Taxonomic Hierarchy. Three domain of life kingdom - Monera, Protista, Fungi, Plantae & Animalia.</p> <p>Unit 2: Evolution origin of life - Intⁿ origin of Universe and theories of life, Oparin-Haldane theory of origin of life, Miller-Urey's expt. Coacervates, autotrophism.</p> <p>Unit 3: Theories of organic evolution - Lamarckism, Neo-Lamarckism, Darwinism, Neo-Darwinism, modern theory of evolution.</p>
3	Aug 19	<p>Unit 4: Evolution through ages: Intⁿ Geological timescale, Eras, periods and epochs, antiquity of man - Primates, characters of classⁿ, Possimii, Apes - Gibbon, orangutan, Chimpanzee and gorilla, Difference between Apes & men, origin stages of Protopithecus, Dryopithecus, Ramapithecus, Australopithecus, Homo habilis, Homo erectus, Neanderthal, Cro-magnon, Homo sapiens (modern)</p>
4	Sept 19	<p>Unit 5: Palaeontology - Introduction, fossils, - Defⁿ, process of fossilization, determination of age of fossils, Natural fossils - unaltered & altered fossils. Types of fossils - Actual remains, Petrified fossils, molds & casts, foot prints & trails, coprolites. Significance fossils -</p> <p>Distribution & dispersal of animals - means, Barriers of dispersal, Distribution of animals, Bathy metric distribution. Zoogeographical realm: Defⁿ, types, regions - Palearctic region, Nearctic region, Neotropical region, Ethiopian region, oriental region, Australian region, Wallace line.</p>
5	Oct. 19	Revision, Exam pattern, ICT, seminar, Test, tutorial field visit etc.

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TEACHING PLAN

Sem II

Class : S.T.BSc Sem.: II Subject : Evolutionary biology Paper Code. : Zoo402

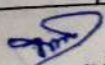
Sr. No.	Month	Topics/Practical's
	Dec 19	<u>Unit 1 :- History of life</u> Major events in history of life. P-2
	Jan 20	<u>Unit 2 :- Introduction to Evolutionary theories</u> Lamarckism, Darwinism, Neo-Darwinism P-4
		<u>Unit 3 :- Direct Evidence of evolution</u> Types of fossils, Incompleteness of fossil Record, Dating of fossils, Phylogeny of Horse P-4
	Feb 20	<u>Unit 4 :- Processes of evolutionary change</u> Organic Variations; isolating mechanisms, Natural selection (Examples - Industrial Melanism) Types of Natural selection (Directional, Stabilizing, Disruptive) Artificial selection. P-6
		<u>Unit 5 :- Species concepts</u> Biological species concept. (Advantages and limitations) modes of Speciation (Allopatric & Sympatric)
		<u>Unit 6 - Macro-evolution</u> Macro - Evolutionary Principles (examples - Darwin's finches) P-4
	March	<u>Unit 7 - Extinction</u> Mass extinction (causes, Names of five major extinctions; K-T extinction in detail) Role of extinction in evolution P-4
		→

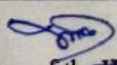
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Sr. No.	Month	Topics/Practical's
1	Dec 20 19	Introduction, use of applied zoology to start business based business etc. Importance of this applied zoology for developing countries.
2	Jan 20	Unit 1 - <u>Vermiculture</u> : Scope of vermiculture, advantages of earthworm species, vermicomposting & vermishash unit vermicomposting types, small scale & large scale vermicomposting. Physical requirement of vermicomposting, construction of vermiculture unit, KISS plan, construction of vermishash unit factors affecting growth of earthworms earthworm parasites & predators, preventive measures investment, cost & return.
	Feb 20	Unit 2 - <u>Poultry</u> - Introduction, scope, importance of poultry farming, species of Hen, improved breeds, American class, Asiatic class, English class, mediterranean class, Hierarchy of equipments of poultry, poultry nutrition, poultry diseases, viral diseases, bacterial diseases, worms, fungal diseases, Poultry care management, economic importance of egg, importance of flesh, bones etc.
		Unit 3 - <u>Fishery</u> . Importance of scope, marine Fisheries, Estuarine, Brackish Aquaculture as an occupation objectives of aquaculture, construction & maintenance, fish culture technique, polyculture, integrated multi-trophic aquaculture, monoculture, selection of site, Excavation of ponds, selection of site, nursery ponds, rearing ponds, stock pond, common diseases of fish, viral, bacterial, fungal, parasites. Methods of preservation, chilling, freezing, freeze drying, smoking, Natural drying, salting, canning & processing.
	March 20	Economic importance of fishery - fishes oil, meal, proteins flour, Raw, solubles, selage, manure, gums, fish skin, glue, solubles, selage, manure, scale, fish glass, medicine scientific study, harmful fishes, destructive fishes. Injurious fishes

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TEACHER'S DIARY

ACADEMIC YEAR : 2019 - 2020

Name : Prof. K. R. RAUT

Designation : Associate Prof.

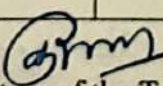
Department : Economics

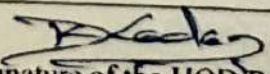


TEACHING PLAN

Class : F.4.B.A. Sem.: I Subject : Economy of MH Paper Code. : Eco-G-101-B
SINCE REFORM ERA I

Sr. No.	Month	chapter	Topics/Practical's	Periods allotted			
01	July 2019	Introduc- tion of the Economy	Introduction of the subject	01			
			Syllabus writing	01			
			General description of the economy of MH	02			
			main features of the economy of MH	02			
			Significance of MH Economy	01			
			Size & Growth rate of population	02			
			Density of population in MH	01			
			Rural & Urban population	01			
			Literacy Rate & sex composition	02			
			Unemployment & Poverty in MH	02			
			State employment Promotion Progra.	02			
02	August 2019	- II	Nature, objectives & Progress of.				
			MGNREGS & other employment Schemes	04			
			State Role in Housing Development in				
			Urban & rural Areas	02			
			Human Development Programme	02			
			Women Development Programme	02			
			03	Sept 2019	Agricul- ture Scenario in M.H.	Role of Agriculture	02
						main crops & Area Under cultivation	03
						Development of Agriculture & Allied	
						Activities in the state	03
						Agriculture productivity - Problems &	
Policies	02						
Indebtness of farmers	02						
Problem of waiving the debt	02						
Development of Irrigation facilities	02						
Government Policy	02						
Dairy Development in MH	02						
04	Oct. 2019	Co-Opera- tive sector in MH	meaning, objectives, features, Present				
			status of co-operative movement	08			
			structure of co-operative financial				
			system in MH	03			
			co-operative marketing features				
			& objective, Present & future Agenda	04			
			co-operative sugar Industry.				
Present status & Problems	02						
co-operative movement in MH							
Since Reform Era	02						


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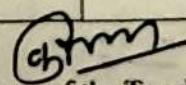

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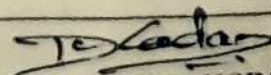
TEACHING PLAN

Class: f-4.B.A. Sem.: II Subject: Economy of MH Paper Code: Eco-201-[B]

SINCE REFORM Era II

Sr. No.	Month	Topic	Topics/Practical's	Periods allotted		
01	Dec. 2019	Introduction of the Economy	Syllabus writing	01		
			General description of the economy	02		
			factors affecting the state's industry	02		
			Socio-Economic Effects of Industries	02		
			MIDC, SICOM, MSFC, MSSIDC,	04		
			FDI & Industrial Development	01		
			Industrial policy of MH	02		
02	Jan 2020	- II -	meaning & Role of Infrastructural facilities in MH	02		
			Road & transport, communication facilities	04		
			Irrigation & Power	02		
			Public health, & Educational system	02		
			Banking & finance	02		
			Role of the state Government	03		
			Structure of the Local Government	03		
03	Feb. 2020	finance of the state & the Local Govt.	financial Position & Problems of Local Bodies	04		
			Remedies, measures for improving the financial Health of the Local Bodies	03		
			problems of corruption & inefficiency in the Govt. Machinery	03		
			Abuses of the Corruption	03		
04	March 2020	Governance in MH	Right to information - meaning Nature, scope, origin & objective	04		
			Maharashtra ^{Right to} information act 2005	03		
			state information commission - Composition, Powers, & functions	04		
			A Brief Review of the Development of E. Governance practices in the state	03		

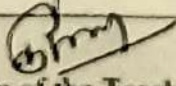

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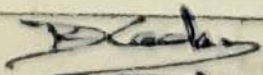

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TEACHING PLAN

Class : S.V.B.A. Sem : I Subject : Indian Economy Since 1580 - I Paper Code : DSC Eco 231 C

Sr. No.	Month	Topic / Unit	Topics/Practical's	Periods Allotted	
01	June 2019	Indian Economy and Human Resources in India	Syllabus Writing	01	
			Discussion about syllabus of subject	01	
			Basic features of Indian Economy	02	
			India's recent Position in the world Economy	02	
			Meaning of Human Resources	01	
			Population - Size & Growth	02	
			Causes of the rapid growth of population	02	
02	July 2019	-II-	Problems of over Population	02	
			Recent National Population Policy	02	
			Poverty & Unemployment - types	02	
			Measurements of Poverty in India	02	
			Unemployment - meaning, types	02	
			Policies for removing unemployment and Poverty	03	
03	August 2019	Infrastructure in India	Irrigation - Sources, water management	02	
			Energy - sources, Crises of Energy	03	
			Transport - Types of Transport	03	
			Problems of transports	02	
			Communication & Information	02	
04	Sept. 2019	-II-	Types of Communication	02	
			Role of Information Technology	02	
			Basic Issue in Agriculture	Role of agriculture in India Economy	02
				Nature of Indian Agriculture	02
				Recommendations of Swami Nathan Commission on Agriculture	03
05	Oct. 2019	-II-	Agriculture finance - Importance	02	
			Agriculture finance - Sources	02	
			Agricultural marketing - Defects	02	
			Agricultural marketing - Reform	02	
			farmers suicide - Causes	03	
			farmers suicide measures	03	

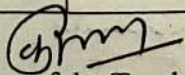

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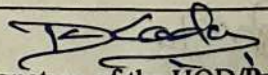

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TEACHING PLAN

Class : S-4-B-A Sem. : II Subject : Indian Economy since 1980 II Paper Code. : D5C Eco 241-D

Sr. No.	Month	Topic/Unit	Topics/Practical's	Periods Allotted
01	Nov. 2019	Industrial development co-operative Sector in India	Bel. Syllabus Writting	01
			Role of Industrialization	02
			Large scale industries	01
			Role of Large scale industries	01
			Problems of Large Scale industries	01
			small scale industries - meaning - Role	02
			small scale industries - Problems	02
02	Dec. 2019	-II-	New Industrial policy	02
			co-operative system : meaning features	02
			Objective of co-operative	02
			Defects of co-operative	02
			Co-Operative Banking	01
			co-operative - structure	01
			co-operative functions	02
03	Jan. 2020	change in Planning in India	Economic planning - meaning, Objectives	02
			Achievements & failures of Eco. Planning	02
			12 th five year plan - Resource allocation	02
			limitations	02
			NITI Aayog - Establish, Objectives	02
			Differences between Planning commission and NITI Aayog	02
			structure of NITI Aayog	02
04	Feb. 2020	Recent Changes in Indian	Direct cash Transfer Scheme	02
			- II Advantages	02
			- II limitation	02
			Jan Dhan Yojna - objective, features	02
			- II Benefits	02
			Mudra Bank Yojna objective, features	02
			- II Benefit	02
05	Mar. 2020	-II-	Demonetization - meaning, merits	02
			- II demerits	02
			make in India	01
			- II Introduction	02
			- II Objectives	02
			Advantage & challenges of make in India	03

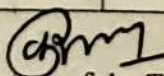

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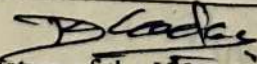

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TEACHING PLAN

Class: T.U.B.A. Sem.: I Subject: Public finance & policies I Paper Code: Eco-352 [A]

Sr. No.	Month	chapter	Topics/Practical's	Periods allotted
01	July 2019	Public finance	Introduction of Subject	01
			Syllabus writing	01
			meaning, Nature, & scope of public finance	03
			distinction between P.F & private finance	03
			Role of the public finance	03
02	August 2019	Public Revenue	The principal of maximum social Advantage	04
			Sources of public Revenue	01
			Tax sources	02
			Non Tax source	02
			Canons of Taxation	02
			Direct Tax - merits & demerits	02
			Indirect Tax - merits & demerits	02
			Progressive Tax, Proportional Tax	02
			Regressive Tax	01
			VAT	02
			MOD VAT	01
			Service Tax	01
			Tax capacity - meaning	01
			Importance of taxable capacity	02
			factors determining taxable capacity	02
03	Sept. 2019	Incidence of Taxation & Approaches of Taxation	Incidence of Tax	01
			concepts of Impact	01
			shifting of Taxes	02
			factors affecting incidence of Tax	02
			prof. Musgrave's Views	02
			The Benefit Approach	02
			Ability to pay Approach	02
			Effects of Taxation	02
			Supply of Resources	02
			Distribution & Economic stabilization	02
04	Govt. Oct 2019	Govern- ment In- tervention	meaning of Govt. Intervention	01
			Nature of Govt. Intervention	03
			Need of govt. Intervention	03
			Tools of govt. Intervention	03

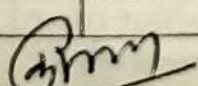

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TEACHING PLAN

Class : T.Y.B.A. Sem.: II Subject : Public finance & Policies Paper Code : E10-362

Sr. No.	Month	Topic	Topics/Practical's	Periods allotted
01	Dec. 2019	Public Expenditure	Syllabus writing	
			Principles of public expenditure	02
			Revenue and Capital Expenditure	02
			Reasons for the Growth of public expenditure	02
			Role of public expenditure	02
			Objective of public expenditure	02
			Effects of public expenditure	04
02	Jan. 2020	Public Debt	Public Debt meaning	01
			Objective of public Debt	02
			Sources of public Borrowings	02
			Burden of Public Debt	02
			Role of Public Debt in development	
			finance of India	02
			Public debt management	01
			Repayment of Public Debt	02
03	fiscal policy Feb. 2020	fiscal Policy	fiscal policy	01
			Objective of fiscal policy	02
			Instruments of fiscal policy	02
			Classical concept of fiscal policy	02
			Modern concept of fiscal policy	01
			functional finance	01
			Role of fiscal policy in developing countries	02
04	Mar. 2020	Public Budget and Deficit finance	Public Budget Meaning	02
			Types of Budget	02
			Role of Budgetary Policy	02
			Deficit financing - meaning	02
			deficit financing - Limitations	02
			Distinction between Deficit Budget and Deficit finance	02
			Role of deficit financing in development ing countries	02


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TEACHING PLAN

Class: B.Com Sem.: I Subject: MICRO ECONOMICS Paper Code.: 103

Sr. No.	Month	Unit / Topic	Topics/Practical's	Periods Allotted
01	June 2019	microeco- nomics Some Basic	syllabus writing	01
			microeconomics - definition & meaning	02
			Subject matter, importance & limitations	02
			market mechanism, definition & functions	02
			Dependent & Independent Variables	02
			Indigenous & Exogenous Variables	02
			Methods of Representing functional Relationship	02
			Concepts of firm, plant & industry	01
02	July 2019	Demand Analysis	Demand - meaning & Definitions	01
			The Law of Demand & its Exceptions	01
			change in demand, Determinants of Demand	02
			Demand forecasting - meaning, methods of estimation & importance	03
			Price Elasticity of Demand - meaning, measurement, determinants & importance	04
03	Aug. July 2019	Supply Analysis	supply analysis - meaning & Definition	02
			The Law of supply	01
			change in supply	01
			Determinants of supply	01
			Price Elasticity of supply - meaning, measurement, determinants & importance	04
04	August 2019	Indifference curve Analysis of Demand	Meaning & Definition - Indifference Curve	01
			Properties of Indifference Curve	02
			Indifference map	01
			Marginal rate of substitution	01
			Assumption of indifference curve analysis	01
			Concept of budget / Price line	01
			Consumer's Equilibrium	02
05	Sept. 2019	Theory of Production	The Production function - meaning	01
			The Law of Variable Proportion	02
			The Law of Returns of scale	02
			optimum factor combination	01
			Economies of scale	02
06	Oct. 2019	Production Cost Analysis	Cost of production - meaning	01
			Accounting cost & Economic cost	02
			opportunity cost	01
			Private cost & Social cost	02
			Total Fixed cost, Total variable cost	02
			Average fixed cost, Average variable cost	02
			Long run cost, U shaped L shaped cost curve	02

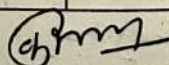
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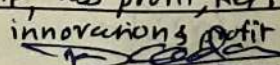
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Class: f.4.B Com.Sem.: II Subject: Micro Economics Paper Code: 203

Sr. No.	Month	Unit / Topic	Topics/Practical's	Periods Allotted
01	Nov. 2019	Market Revenue & Equilibrium conditions	Syllabus writing Concept market forms of market on the Basis of Competition T.R, AR, MR Concepts TR, AR, MR curves under Perfect objectives of firm meaning of a firm Equilibrium Total cost - Total Revenue Approach Marginal Revenue - marginal cost Approach	01 01 01 02 02 01 01 01
02	Dec. 2019	market of perfect competition	Meaning definition & features Perfect Competition short Run Equilibrium of a firm & Industry Long Run Equilibrium of a firm & Industry Perfect Competition in price	02 02 02 02
03	Dec. 2019	Market of monopoly	meaning, Definition & features of monopoly short Run Price & output Equilibrium under monopoly Long Run Price & Output Equilibrium under monopoly Price Discrimination - meaning, forms, Definition Necessary Conditions	02 02 02 02
04	Jan. 2020	market of monopolistic competition	meaning, Definition & features Monopolistic firm & Group's short Run Price Equilibrium firm & Group's Long Run Price Equilibrium Concepts of Selling cost & Product Differentiation	02 02 02
05	Feb. 2020	market of oligopoly & Duopoly	meaning, definition & features of Oligopoly Alternative models of oligopoly & Duopoly Price Leadership model of Oligopoly meaning, definition & features of Duopoly Concept of price-Non Price competition & Contestable market Demand for & supply of a sector of Production Equilibrium in Competitive factor market	02 02 02 02 02 02
06	Mar. 2020	markets for factor of Production	Rent i) Reward for Land concept of Economic Rent & Transfer Earnings Wage - Nominal wage & Real wage causes of Differential in wage Relation Between Real wage, Leisure Collective Bargaining & minimum wage Interest Rate - Reward for capital Nominal Interest Rate & Real Interest Rate causes of Differential in Interest Rates Reward for Entrepreneurship, Gross profit, Net profit, Risk, Uncertainty innovations, Profit	01 02 01 01 02 01 02 02 04



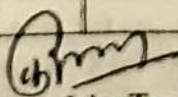
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TEACHING PLAN

Class : S.Y.B.Com. Sem.: III Subject : MACRO ECONOMICS Paper Code : 302

Sr. No.	Month	Topic	Topics/Practical's	Periods allotted
01	June 2019	Background of macro Economics	Introduction of Subject	01
			Syllabus writing	01
			Definition of macro Economics	01
			Nature of macro Economics	01
			Scope of macro Economics	02
			Importance of macro Economics	02
			Limitations of macro Economics	02
			Development in macro Economics	02
			Paradox of macro Economics	02
02	July 2019	Basic concepts of Nation- al Income	meaning of National Income	01
			Gross Domestic Product at market price	01
			GNP at market price	01
			DI at market price	01
			Circular flow of Income - meaning	01
			Circular flow of Product Income - two sector	01
			Circular flow of Income in three sector	01
			Circular flow of Income four sector	01
			Withdrawals & Injection in NI	01
03	July 2019	The classical Theory of employment & Output	Say's law of market & its implications	03
			Implications of the classical theory	03
			criticism by Keynes on classical theory	03
04	Aug. 2019	modern keynesian approach	Principle of effective demand	02
			full employment & unemployment equilibrium	02
			Inflationary & deflationary gap	02
			Saving-Investment approach	02
			Paradox of thrift	02
05	Sept. 2019	Consumption & saving functions	Consumption function - meaning & importance	02
			Determinants of consumption function	02
			APC, MPC, APS, MPS	02
			Keynes psychological law of consumption	02
06	Oct. 2019	Investment function	Investment multiplier - concept, process, m. L. i.	04
			concept of capital & investment	01
			Gross & Net, Autonomous, Induced investment	02
			Marginal efficiency of capital	02
			Rate of interest, capital Accumulation	02
The acceleration theory of Investment	02			



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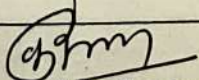


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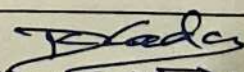
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Class : S.4.B.Com, Sem. IV Subject : macro Economics Paper Code. : 402

Sr. No.	Month	Unit/ Topic	Topics/Practical's	Periods allotted
01	Nov. 2019	Supply of money	measures of money functions The liquidity-L-1, L-2 & L-3 money supply & role of Commercial Banks Process of credit creation & credit multiplier Limitation of credit creation Role of central Bank, objectives of credit control Tools of credit control & liquidity management	02 02 02 02 01 02 02
02	Dec. 2019 Dec. 2019	Demand for money	Determinant's of demand for money Motives of demand for money Theories of demand for money fisher's Quantity Theory of money Keynes Liquidity Preference Theory	02 02 02 02 02
03	Dec. 2019	macro Economics Problems	Inflation - meaning, demand full Inflation Cost push inflation Inertial inflation & expectation Effects of inflation. Positive & Negative Trade off between inflation & unemployment Business cycle - meaning, features & phases	03 02 02 02 03
04	Jan 2020	macro Economic Policies	meaning & Objectives of macro economic policies Supply side economics The central Theme Tax cuts aggregate supply The Laffer curve critical evaluation	02 02 02 02 02
05	Feb. 2020	International Trade	Difference between Internal & International Trade BOP & BOT - Concept structure of Balance of payment disequilibrium of BOP Cause of disequilibrium of BOP measure to correct adverse BOP Argument for & against free Trade & protectionism	02 02 02 01 01 01 02
06	Mar. 2020	foreign Exchange Rate	meaning of exchange rate merits & demerits of fixed & flexible factors affecting foreign exchange rate exchange control - meaning & objectives	01 03 03 03



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NAAC Reaccredited 'B' Grade

TEACHER'S DIARY

ACADEMIC YEAR : 2019 - 2020

Name : Dr. Pradeep Pandurang Talware

Designation : Associate Professor

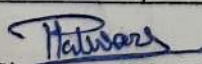
Department : CHEMISTRY

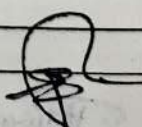


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Class : F.Y.B.Sc. Sem.: I Subject : Org. & Inorg. Chem. Paper Code. : CH-102

Sr. No.	Month	Topics/Practical's
1)	July 2019	<p>Chapter-1) Introduction to Organic Chemistry - Introduction, general properties of organic compounds, applications of organic compounds in everyday life.</p> <p>Benzene and its stability, Huckel's rule of aromaticity, nomenclature of derivatives of benzene.</p> <p>Structural effects - Inductive effect, resonance, hyperconjugation, steric effect, electromeric effect.</p> <p>Fission of covalent bond - Homolytic and Heterolytic fission, types of reagents - electrophiles and nucleophiles, types of organic reactions - addition, elimination, substitution and rearrangement reactions.</p>
2)	August 2019	<p>Chapter-2) Hydrocarbons - Alkanes - Introduction, nomenclature (Common and IUPAC system).</p> <p>Preparation of alkanes - by Wurtz reaction, by hydrogenation of alkenes, Reactions of alkanes - Halogenation, combustion.</p> <p>Alkenes - Introduction, nomenclature (Common & IUPAC system)</p> <p>Preparation of alkenes - by dehydration of alcohols, dehydrohalogenation of alkyl halides, Reactions of alkenes - Addition of halogen, hydrogen halide and hydration.</p> <p>Alkynes - Introduction, nomenclature (Common & IUPAC)</p> <p>Preparation of alkynes - by Double Dehydrohalogenation of vicinal and geminal dihalides, by alkylation of acetylene.</p> <p>Reactions - Addition of halogens, hydrogen halides, hydration.</p>
3)	August 2019	<p>Chapter-3) Haloalkanes and Haloarenes -</p> <p>Haloalkanes - Introduction, classification, nomenclature (Common and IUPAC system), monohalogen derivatives - classification, methods of preparation - from alcohols (using HX, PX_3, PX_5, $SOCl_2$)</p> <p>Reactions - with aqueous alkali, sodium alkoxides, alk. KOH, silver salt of acid, alc. ammonia, NH_4OH/KOH, dehydrohalogenation, formation of Grignard's reagent.</p> <p>Dihalogen derivatives - Preparation of vicinal and geminal dihalides, reactions - hydrolysis with aq. $NaOH$.</p>
3)	September 2019	<p>Haloarenes - Introduction, nomenclature, reactions of haloarenes - nucleophilic substitution reactions with NH_3, KNH_2, $NaOH$, NH_3, CH_3CN, Villman reaction.</p>


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TEACHING PLAN

Class : F.Y.B.Sc. Sem.: I Subject : Org. & Inorg-Chem Paper Code.: CH-102

Sr. No.	Month	Topics/Practical's
4)	September 2019	<p>chapter-4) Alcohols, phenols and ethers -</p> <p>Alcohols - Introduction, classification, nomenclature, methods of preparation - from Grignard's reagent, (using aldehydes & ketones), by reduction of aldehydes and ketones, physical properties of alcohols - Reactions of alcohols - reaction with active metals, dehydration, oxidation.</p> <p>phenols - Introduction, nomenclature, acidity of phenols, Preparation of phenol from benzene sulphonic acid, benzene diazonium chloride, Reactions of phenols - ester formation (acylation) formation of aryl ethers.</p> <p>Ethers - Introduction, classification, nomenclature, methods of preparation - by Williamson's synthesis, by dehydration of alcohols, from diazomethane, Reactions of ethers - reaction with hot and cold HI, hydrolysis with dil. H_2SO_4.</p>
5)	October 2019	<p>chapter-5) Ionic Equilibria - Strong & weak acids and bases, degree of dissociation, dissociation constants of acids and bases, pH and pOH, ionic product of water. Buffer solutions - Definition, types of buffers Henderson Equation, buffer action, buffer capacity, numericals, applications of buffer solutions.</p>
5)	October 2019	<p>chapter 6) VSEPR theory and shapes of covalent molecules - Sidwick-Powell theory, VSEPR theory - assumptions, need to the theory, effect of lone pairs and electronegativity, Applications of VSEPR theory to explain -</p> <p>a) Geometry of molecules containing bond pair of electrons: BF_2, BF_3, CH_4, PF_5, SF_6, IF_7.</p> <p>b) Geometry of molecules containing lone pairs as well as bond pair of electrons: $SnCl_2$, NH_3, H_2O, SF_4, ClF_3, XeF_2, XeF_4, IF_5.</p> <p style="text-align: center;">x</p>

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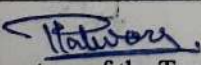


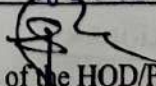
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TEACHING PLAN

Class : S.Y.B.Sc. Sem.: III Subject : Org. & Inorg. Chem. Paper Code. : CH-302

Sr. No.	Month	Topics/Practical's
1)	July 2019	chapter-2) Heterocyclic and Polycyclic aromatic Compounds - a) five membered ring with one heteroatom - Introduction, Preparation of furan, pyrrole and thiophene Reactions - nitration, sulphonation, F.C. acylation, Reimer-Tiemann Reaction, catalytic hydrogenation. b) Six membered ring with one heteroatom - Preparation of pyridine: - from acrolein and from acetylene, Reactions: - nitration, sulphonation, bromination, catalytic hydrogenation. c) Polycyclic aromatic compounds - Introduction, structure of naphthalene, Haworth synthesis, Reactions - oxidation, reduction, nitration, halogenation, sulphonation, F.C. acylation.
2)	July 2019	chapter-1) Stereoisomerism - a) Isomerism, classification of isomerism, stereoisomerism, types of stereoisomerism. b) Projection formulae - Fischer projection formula, Newman projection formula, Saw horse formula.
3)	August 2019	c) Optical Isomerism - Optical activity, enantiomerism, chiral centre and chirality, elements of symmetry, dextrorotatory, levorotatory: R and S nomenclature system. d) Geometrical Isomerism - Geometrical isomers, condition for geometrical isomerism, nomenclature systems: cis and trans, E and Z, syn and anti. e) Conformational isomerism - Conformational isomers, Conformational isomerism in ethane and n-butane with energy profile diagrams. f) Stereochemistry of cyclohexane - Conformations of cyclohexane: - chair and boat forms, axial and equatorial bonds in cyclohexane, factors affecting stability of conformations, Mono substituted cyclohexane.
4)	August 2019	chapter-3) Solvents, Solutions, Acids and Bases - a) Donor and Acceptor properties, b) Molten salts, solvents for electrochemical reactions, purity of solvents,
5)	September 2019	c) Definition & approaches, solvent system concept, Lux-Flood concept, Lewis concept, Generalized Acid-Base Concepts. d) Differentiating & leveling solvents, e) Co-solvating agents. f) Hard & soft acids & bases - d^n , Pearson HSAB concept, theories of Hardness & softness, application & limitation of HSAB concepts.


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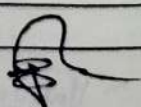

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Skill Enhancement Course
TEACHING PLAN

Class : S.Y.B.Sc. Sem. : III Subject : SEC-2 - Basic Analytical Chemistry Code : Chemistry

Sr. No.	Month	Topics/Practical's
1)	July 2019	Chapter-1) Introduction to Analytical Chemistry - a) Introduction :- Analytical chemistry, its interdisciplinary nature, importance of analytical chemistry, types of analysis :- Quantitative and Qualitative Analysis. b) Concept of Sampling, definition, procedure of sampling, types of sampling.
2)	August 2019	c) Accuracy, precision, significant figures, significance of zero, rounding off. d) Errors - Definition, types and source of errors, minimisation of errors. e) Good laboratory practices - Material safety data sheet (MSDS), fire safety, Handling of chemicals. Chapter-2) Acid-Base Titrations - a) Principle, Acid-Base indicators, Henderson-Hasselbalch equation, transition range of indicators. b) Study of following acid base titrations with respect to - neutralization curve, selection of indicators and calculation of pH. i) Strong acid versus strong base. ii) Weak acid versus strong base. c) Applications of Acid-base titrations.

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TEACHING PLAN

Class: F.Y.B.Sc. Sem.: II Subject: Org. & Inorg. Chem. Paper Code.: CH-202 Paper-II.

Sr. No.	Month	Topics/Practical's
1)	December 2019	<p>Chapter-1) Aldehydes and Ketones - Introduction, structure of carbonyl group, nomenclature of aldehydes and ketones. (Common and IUPAC nomenclature system).</p> <p>Aliphatic Aldehydes - Preparation of aliphatic aldehydes - by reduction of acid chlorides, from Grignard's reagent, and HCN, from terminal geminal dihalides and from calcium salt of acids.</p> <p>Aliphatic ketones - Preparation from Grignard's reagent and R-CN, from non-terminal geminal dihalides, from calcium salt of acids.</p> <p>* Reactions of aliphatic aldehydes & ketones - Reducing properties of aldehydes: reaction with Tollen's reagent and Fehling's solution, Clemmenson reduction, Wolf-Kishner reduction, Aldol condensation, crossed Aldol condensation, Cannizzaro reaction, crossed Cannizzaro reaction, addition of HCN, NaHSO₃, addition of derivatives of ammonia (Hydroxyl amine, phenyl hydrazine, semicarbazide, 2,4-DNP).</p> <p>* Aromatic aldehydes & ketones - Preparation of benzaldehyde by Gattermann Koch reaction, by oxidation of toluene, Reimer's or benzaldehyde: Addition of HCN, addition of Grignard's reagent, benzoin condensation.</p> <p>* Preparation of acetophenone - by oxidation of ethyl benzene, by F.C. acylation, Reactions of acetophenone: - addition of HCN, addition of Grignard's reagent, oxime formation.</p>
2)	January 2020	<p>Chapter-2) Carboxylic acids and their derivatives -</p> <p>* Carboxylic acids: - Introduction, nomenclature (Common and IUPAC system), Preparation of Carboxylic acids - by Carboxylation of Grignard's reagent, by hydrolysis of nitriles, physical properties of acids, acidity of Carboxylic acids, Reactions of Carboxylic acids - formation of salts (with NaOH, KOH, Na₂CO₃, NaHCO₃, NH₄OH and active metals), Hell-Volhard-Zelinsky reaction, formation of acid anhydrides</p> <p>* Aromatic Carboxylic Acids - Preparation of benzoic acid - by hydrolysis of phenyl cyanide by carboxylation of Grignard's reagent, Reactions of Benzoic Acid: formation of salt, benzoyl chloride, Benzamide & reduction to benzyl alcohol.</p> <p>* Esters - Preparation of Esters - from alcohol and acid, alcohol & acid chloride, alkaline & acidic hydrolysis of esters.</p> <p>* Acid chlorides - Preparation of acid chlorides from carboxylic acids by using PCl₃, PCl₅, SOCl₂, Reactions of acid chlorides - with</p>

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Paper - II

Class: F.Y. B.Sc. Sem.: II Subject: org. & Inorg. Chem. Paper Code.: CH-202

Sr. No.	Month	Topics/Practical's
		<p>Benzene and with sodium salt of acids.</p> <p>* Amides - Preparation of amides from acid and ammonia, and from acid chloride and ammonia, Reactions of amides - Hydrolysis and Hofmann Rearrangement.</p>
35	January 2020	<p>Chapter-3) Amines → Aliphatic Amines - Introduction, classification, nomenclature (Common & IUPAC systems) Preparation of Amines: by reduction of nitroalkanes, nitrites and oximes, by alkylation of primary and secondary amines, by reduction of isocyanides, Basicity of amines, Reactions: action of nitrous acid, alkylation, carbyl amine test, Hinsberg's test.</p> <p>* Aromatic Amines - Preparation of aniline - from chlorobenzene & from nitrobenzene. Basicity of aromatic amines, Reactions - Benzoylation, N-alkylation, Preparation of Benzene diazonium chloride, reactions of Benzene diazonium chloride: - formation of iodobenzene, Sandmeyer reaction, azo-coupling reaction: formation of methyl orange.</p>
4)	February 2020	<p>Chapter-4) Volumetric Analysis - molecular weight, formula weight, equivalent weight, calculation of equivalent weight of acids, bases, oxidizing & Reducing agents, units of concentration - molarity, normality, formality, molality & parts per million (PPM), numerical, standard solution, primary & secondary standards, titrant, analyte, millimoles & milliequivalents, equivalence point, end point, Measurement of volume, effect of temperature on volume, apparatus for precise measurement of volume - pipette, burette, volumetric flask, calibration of pipette, and volumetric flask.</p>
5)	February 2020	<p>Chapter-5) Chemical Bonding and Structure - Attainment of stable configuration, types of bonds - a) Ionic Bond - NaCl and CaCl₂, b) Covalent bond (Lewis concept) H₂, Cl₂, HF, O₂ and N₂. c) CO-ordinate bond - NH₄⁺ and H₂N:BF₃ d) metallic bond - free electron theory, Limitations of Lewis concept.</p>

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TEACHING PLAN

Class: S.Y.B.Sc Sem.: 2 Subject: Non chordates Paper Code.: Zoo:231

Sr. No.	Month	Topics/Practical's
1	June -19	Introduction, Systematic position, Habit & Habits Ext. characters, oral & aboral surfaces Pedicellare, Body wall, Exoskeleton & Coelom.
2	June 2019	Digestive system, Food, feeding Mechanism, Digestion
3	July 2019	Locomotion in Starfish, Water vascular system, Tube feet.
4	July 2019	Circulatory system of Sea star Haemal & Perihemal system.
5	July 2019	Respiratory system - Gills - Branchiae or papillae
6	July 2019	Excretion in Sea star
7	August 2019	Nerves system of Sea star Sense organs - Eyes, Terminal tentacles Neurosensory cells
8	August 1-19	Reproductive system of Sea star Gonads, Life history & development Metamorphosis, Regeneration, Autotomy
General Topics.		
9	August 1-19	Mouth Parts - Biting & chewing type, Piercing & Sucking type, Siphoning type, chewing & lapping type
10	Sept. * -19	Canal system in Sponges Ascon, Sycon, Leucon & Rhagon type.
11	Sept * 1-19	Locomotion in Protozoa Pseudopodia, Flagella & Cilia
12	Sept * -19	Foot in Mollusca

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Sr. No.	Month	Topics/Practical's
1	June 2019	Reed - As an animal type - <i>H. granulosa</i> 1.1 Systematic position, Habit & Habitat 1.2 External characters 1.2.1 Shape, Size & Colour 1.2.2 Segmentation & Suckers 1.2.3 Body regions or divisions 1.3 Locomotion - Crawling & Swimming
2	June 2019	Digestive System 2.1 Alimentary canal 2.2 Food, feeding & digestion.
3	July 2019	Haemocoelomic System 3.1 Haemocoelomic fluid 3.2 Haemocoelomic Channels 3.3 Capillary stem system 3.4 Course of circulation
4	July 2019	Excretory system 4.1 Testicular nephridia 4.2 Pre-testicular nephridia 4.3 Physiology of excretion
5	July 2019	Nervous System 5.1 Central nervous system 5.2 Peripheral nervous system 5.3 Sense organs - free nerve endings Annular receptors, segmental receptors & Eyes
6	July 2019	Reproductive System 6.1 Male reproductive system 6.2 Female reproductive system 6.3 Copulation & fertilization 6.4 Cocoon formation & development
7	Aug 2019	Economic importance 7.1 As a food, Predator, Pest, Transmitter of diseases, Surgical agents etc.

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TEACHING PLAN

Class: TY BSc Sem: II Subject: Non-chordates III Paper Code: 200-35

Sr. No.	Month	Topics/Practical's
8	Aug 2019	Grasshopper - As an animal type Heteroglyphus barian 8.1 Systematic position, Habit & Habitat 8.2 ext. characters - shape - size & colour 8.3 Division of Body - Head, thorax & abdomen
9	Aug 2019	Digestive System 9.1 Alimentary canal 9.2 Digestive glands, 9.3 Feeding & Digestion
10	Aug 2019	Circulatory system of Grasshopper Haemocoel, Haemolymph Heart & aorta & course of blood circulation
11	Aug 19	Respiratory system of Grasshopper Spiracles & Trachea
12	Sept 19	Excretory system of Grasshopper
13	Sept-19	Nervous system of Grasshopper - Central & peripheral nervous system.
14	Sept 19	Reproductive system of Grasshopper 14.1 Male reproductive system 14.2 Female reproductive system 14.3. Development.
15	Sept 2019	General Topics 15.1 Osmoregulation in Protozoa 15.2 Polymorphism in Siphonophora 15.3 Pearl formation 15.4 pedicellariae in Echinodermata

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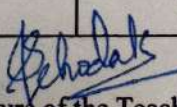
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TEACHING PLAN

Class : FTBSC Sem.: II Subject : Applied Zoology Paper Code. : 200:122

Sr. No.	Month	Topics/Practical's
1	Dec 2019	1.1 Introduction & scope of Goatry 1.2 Indian breeds, distribution & characteristics A) North-west & central region - Jamunapari, Barbari, Beetal, Surati, Marwari, Mehsana, Jhakrana. B) South Peninsular region Osmanabadi, Malbari, Sangamneri C) Eastern region Bengal Kanjam D) Northern temperate region. Gaddi, Chigu.
	Janury 2020	1.3. Reproductive performance a) Reproductive system of Male & female goat b) Food habits of goat c) Nutrient requirement of goat d) Feeding of pregnant goat e) Feeding of lactating goat f) Feeding of Kees kids 1.4 Handling of goats a) Castration, its advantages b) Dehorning c) Care of feet d) Housing c) care of kids 1.5 Diseases & treatment : a) Mastitis b) Foot rot c) Brucellosis d) Int. & Ext. Parasites e) Bloat. 1.6 Economics of Goatry.
2	Janury & Feb 2020	Lac Culture 2.1 a) Introduction b) Distribution & morphology of lac insect; c) Life cycle d) Host plants e) Enemies of lac 2.2 Cultivation of Lac a) Inoculation period, b) Inoculation - Natural & artificial, c) Swarming d) Harvesting e) Harvesting of Lac. 2.3. a) Enemies of Lac cultivation b) Composition & properties of lac c) Lac industry in India d) Economic importance.


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Sr. No.	Month	Topics/Practical's
1	Dec. 2019	Defn, introduction & Scientific approach of Research 1.1 Meaning of research - Research methodology & important characters. 1.2 Objectives of research 1.3 Motivation of research 1.4 Types of research 1.5 Significance of research 1.6 Research methods Vs methodology 1.7 Research & scientific methods 1.8 Research methods in flow charts 1.9 Various steps of research process 1.10 Criterion of good research 1.11 Need of research in developing countries
2	Dec. 2019	Research Design 2.1 Selection of problems, suitable approaches & methods 2.2 Meaning of research design 2.3 Need of research design 2.4 Features of good design 2.5 Importance concepts of research design 2.6 Basic principle of experimental design.
3	Jan. 2020	Data Analysis & measurements 3.1 Sampling - Defn & needs 3.2 Scaling - Defn & importance 3.3 Tabulation of data a) Variables - Defn, types with example b) Frequency distribution - Defn, types & example c) Measurement of central tendency - Defn, types of averages - Mean, median & mode - Defn d) Testing hypothesis - Null hypothesis (H_0), Alternative hypothesis (H_1) level of significance & degree of freedom with ex
4	Jan. 2020	Data Presentation (with examples) 4.1 Method of data presentation a) Bar chart (diagram) b) Pie chart c) Histogram

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TEACHING PLAN

Class: PTBSc Sem.: 1 Subject: Research Methodology Paper Code.: REV : 364

Sr. No.	Month	Topics/Practical's
		4.2 Standard deviation (SD)
		4.3 standard error (SE)
		4.4 Chi-square test
		4.5 student t-test
5.	Feb 2020	Component of research report/paper/project 5.1 Prepare Title, Author & Address, Key words & Abstract (Summary & synopsis)
		5.2 Writing of research paper & project, IMRAD system (Introduction, Material & Methods, Result & discussion) Acknowledgement, Summary, Conclusion & references
		5.3 Concept of scientific writing
		5.4 Meaning of scientific paper
		5.5 Write a letter to Editor of scientific journal for publishing a research paper.
6	Feb. 2020	Parameters of research
		6.1 Writing review of literature (book & paper)
		6.2 Advantages of scientific photographs
		6.3 Sources of literature
		6.4 Preparation of cue cards / index card / reference card
		6.5 Search engine - Google, Yahoo, Bing etc.
		6.6 How search engine works.

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Sr. No.	Month	Topics/Practical's
1	Dec-19	Introduction scope & Applications of Microtechnique
2	Dec-19	Collection of Material - Narcotization 2.1. Collection of specimen 2.2 Kinds of preparations 2.3 Prepa of whole mounts 2.4 Fixation - scope & importance 2.5 Theory of fixation 2.6 Qualities of good fixatives 2.7 Types of fixative - Primary & Compound 2.8 Specific fixatives.
3	Dec-19	Washing 3.1 Theory of washing 3.2 Significance of washing
4	Dec-19	Dehydration 4.1 steps - Dehydrating agents 4.2 Significance
5	Jan. 2020	clearing 5.1 scope & importance 5.2 clearing agents their merits & demerits
6	Jan. 2020	Embedding & Block making 6.1 Cold & hot infiltration 6.2 Paraffin 6.3 Section of paraffin according to need. 6.4. Melting & handling of paraffin 6.5 Types of oven 6.6 Embedding containers 6.7 Embedding procedure & faults 6.8 Block making, labelling & storage
7	Jan. 2020	Trimming & mounting 7.1 Trimming & mounting of trimmed block on microscope peg

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TEACHING PLAN

Class : T.Y.B.Sc Sem.: I Subject : Microtechnique Paper Code. : ZOO:365

Sr. No.	Month	Topics/Practical's
8	Feb 2020	Section cutting & affixing 8.1 Microtome types, its uses, precautions & handling of rotary & rocking microtome 8.2 Microtome knives - Types, Care, Sharpening, honing & stropping of knife 8.3 Section cutting - defects, possible causes & remedies during section cutting 8.4 Affixing & processing of sections i) Mayer's albumen ii) Slide warmers
9	Feb 2020	Staining 9.1 Theory of staining 9.2 Types of stain 9.3 Prep ⁿ of Haematoxyline & Eosin 9.4 Mordants 9.5 Double staining - processing 9.6 Special staining
10	Feb 2020	Cleaning, Mounting & Camera lucida 10.1 Mounting media - spx & Canada balsam 10.2 cleaning, labelling & storage 10.3 Use of Camera lucida 10.4 Micrometer scale

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TEACHING PLAN

MIL & DSC

Class : F.Y.B.A. Sem.: II Subject : Hindi Paper Code. : _____

Sr. No.	Month	<u>DSC</u>	Topics/Practical's <u>CBCS</u>
1	नवम्बर - 19	* आधुनिक हिंदी काव्य प्रवाह - संपादक : डॉ. बृहमनेश्वरनाथ राय	
		* निर्धारित पाठ्यपुस्तक में से निम्नलिखित कवियों की काव्यताओं अध्ययनार्थ रखी गई है।	
2	दिसम्बर - 18	* साखी, वे मुझसे कहकर जाते : मैथिलेशरण गुप्त * वह जोड़ती पत्थर : सुर्यकांत त्रिपाठी 'निराला' * सुख - दुःख - सुमित्रानंदन पंत	
3	जनवरी - 19	* गीतकार मर गया - रामधारी सिंह 'दिनकर' * जो बीत गई - हरिवंशराय बच्चन * प्रेत का बयान - नागाजुर्न * शूनी-सी साँझ तक - अज्ञेय * गीत - फरोश - भवानी प्रसाद मिश्र * गाँधीजी के जन्मदिन पर - दुर्लयांत कुमार	
4	फरवरी - 19	* प्रौढ़ शिक्षा : धूमिल * पिता - उदय प्रकाश * सात भाईयोंके बीच चम्पा :- कल्याणजी	
5	मार्च - 19	* रिजिया - उनामिका * शोज की बुनियाद - सुशीला राकभोरे * अपने घर की तलाश - निर्मला पुतुल - विश्वविद्यालय परिषद का काम-काज	

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TEACHING PLAN

MIL & DSC

Class : F.Y.B.A. Sem.: I Subject : Hindi Paper Code. : _____

Sr. No.	Month	Topics/Practical's	<u>CBCS</u>
1	जुल-18	I पाठ्य क्रम :- कथा संचयन	संपादक :- डॉ. शिवशरण कौशिक
2	अगस्त-18	* सद्गति : मुंशी प्रेमचंद	
		* पाजेव : जैनेन्द्र कुमार जैन	
3	अगस्त-18	* तर-वीर : श्रीधर साहनी	
		* नौकरी-पेशा : कमलेश्वर	
4	सितम्बर-18	* सौदा : मोहन राकेश	
		* गदल : बांगोय राधव	
		* जिनावर : चित्रा मुद्गल	
		सरहद के इस पार : नासेरा शर्मा	
5	अक्टूबर-18	प्रश्न :-	
		* समीक्षान्मक प्रश्न	
		* लघु-तरा प्रश्न	
		* वर-उनिच्छ प्रश्न	
		* सूचनाएं	
		i) प्रत्येक प्रश्नपत्र हेतु 03 प्रतिष्ठांक (credit) निर्धारित किए गए हैं।	
		ii) 01 प्रतिष्ठांक हेतु 15 तासिकाएँ निर्धारित	
		iii) अंतर्गत 40 वाक्य 60	
		iv) 40 अंक का विभाजन	
		* दो इकाई परिष्ठांक 10+10=20	
		* सेमिनार/उत्प-चर्चा/प्रकल्पलेखन	
		Home Assignment = 10 उपर्युक्त/आधुनिक = 10	

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TEACHING PLAN

Class : F.Y.B.Com Sem.: I Subject : Hindi Paper Code. : _____

Sr. No.	Month	Topics/Practical's
1	जुन-18	* युग निर्माता जे. आर. डी. टाटा - व्यक्ति याद
		* 1) टाटा परिवार की पार्श्वभूमि ।
		* 2) जे. आर. डी. टाटा का व्यक्तित्व ।
2	जुलाई-18	* 3) जे. आर. डी. टाटा यशरवी उद्योगपति ।
		* टाटा उद्योग समुह का बीज- वपन ।
		* 5) टाटा उद्योग समुह का विस्तार (विविध शाखा)
3	अगस्त-18	* 6) जे. आर. डी. टाटा का देश के विकास में योगदान
		* 7) एअर इंडिया की स्थापना एवं राष्ट्रीयकरण ।
4	सितम्बर-18	* 8) जे. आर. डी. टाटा की न्यासेता एवं सामाजिक जिम्मेदारी
		* 9) जे. आर. डी. टाटा विविध पुरस्कारों से सम्मानित ।
		* 10) जे. आर. डी. टाटा अन्त यात्रा की ओर... ।
		* परोपकारी बिजनेस मैन : अजीम प्रेमजी
		- एन. चौखण
5	अक्टूबर-18	* 1) अजीम प्रेमजी का व्यक्तित्व (साधारण व्यक्तित्व की उ(साधारण कहानी)
		* 2) अजीम प्रेमजी की उद्योग यात्रा का प्रारंभ ।
		* 3) विप्रो का उदय और विस्तार ।
		* 4) विप्रो के चैयरमैन की जिम्मेदारी ।
		* 5) कंप्यूटर बाजार में प्रवेश ।
		* 6) इन्तारराष्ट्रीय बाजार में विप्रो का स्थापना एवं महत्व
		8) विप्रो की कार्य प्रणाली ।
		9) दानवीर अजीमजी ।
		10) देश के विकास में अजीम प्रेमजी का योगदान

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TEACHING PLAN

Class : F.4 B.Com Sem.: II Subject : Hindi Paper Code. :

Sr. No.	Month	Topics/Practical's
1	नवम्बर -18	* पाठ्य-पुरतक * * लिजनेस कोहिनूर: रतन टाटा. वी.सी. पांड्ये
		* टाटा परिवार का इतिहास ।
		* 2) रतन टाटा का व्यक्तित्व ।
2	दिसम्बर -18	* 3) रतन टाटा की दूरदर्शिता एवं सपने ।
		* 4) रतन टाटा का योगदान ।
		* 5) टाटा समूह का रतन टाटा के नेतृत्व में सफल ।
		* 6) टाटा समूह का विस्तार ।
3	जनवरी -19	7) आंतरराष्ट्रीय कंपनियों का आधिग्रहण ।
		8) रतन टाटा द्वारा स्थापित विविध ट्रस्ट ।
		9) रतन टाटा को प्राप्त पुरस्कार ।
		10) रतन टाटा की महत्वपूर्ण उपलब्धियाँ ।
4	फरवरी -19	* कापेरिट रत्न नारायण मूर्ति: एन. चौखण
		* 1) नारायण मूर्ति का व्यक्तित्व: लाखों युवाओं के लिए आदर्श ।
		2) स्वामी मूर्ति की अमूल्य सहाय ।
		3) भारतीय सॉफ्टवेयर उद्योग में इन्फोसिस का योगदान ।
		4) नारायण मूर्ति का संघर्ष: प्रवाह के विरोधी तैराकी ।
5	मार्च -19	5) इन्फोसिस के विविध विकास चरण ।
		6) इन्फोसिस को प्राप्त सम्मान और पुरस्कार ।
		8) मूल्याधिकृत उद्योग प्रणाली का आदर्श ।
		9) नारायण मूर्ति का सामाजिक योगदान ।
		* नारायण मूर्ति को प्राप्त विविध पुरस्कार

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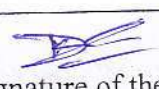
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TEACHING PLAN

Class : S.Y.B.A. Sem.: I Subject : Hindi - कालिका Paper Code. : _____

Sr. No.	Month	Topics/Practical's
1	जुन-18	* कालिका शारदा - पाठ्यक्रम *
		1) कालिका तथा साहित्य की परिभाषा - संस्कृत, तथा हिंदी की प्रचलित परिभाषाओंकी व्याख्या।
		2) क) कालिका के हेतु।
		ख) कालिका के प्रयोजन। (भारतीय)
2	जुलाई -18	3) कालिका के तत्व -
		* भावतत्व *
		* लुटित तत्व
		* कल्पना तत्व
		* शैली तत्व
3	अगस्त -18	4) कालिका के भेद :-
		अ) भेद के आधार
		* अवनीयता
		* दृष्ट्यात्मकता
4	सितंबर -18	आ) प्रबंध कालिका :- महाकालिका एवं खंडकालिका, मुक्तक कालिका, गीतिकालिका
		* गजल - (खंडकालिका एवं अंग)
		मुक्तक एवं प्रबंध कालिका में अंतर।
		5) अलंकार :-
5	अक्टूबर -18	अ) कालिका में अलंकारोंका स्थान
		आ) निम्नलिखित अलंकारोंका सोदाहरण परिचय।
		1) अनुप्रास 2) यमक 3) श्लेष
		4) उपमा 5) दृष्टांत 6) विशेषाभास
		7) आतिशयोक्ति 8) संदेह 9) आतिमान
		10) उदाहरण

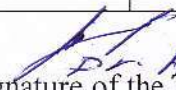

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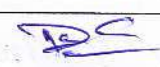

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TEACHING PLAN

Class : S.Y.B.A. Sem.: II Subject : Hindi - काव्य शास्त्र Paper Code. : _____

Sr. No.	Month	Topics/Practical's
1	नवम्बर - 18	* पाठ्यक्रम *
		1) शब्द शक्तियाँ :- आभिधा, लक्षणा और व्यंजना का सामान्य परिचय।
2	दिसम्बर - 18	2) गद्य के भेदः अ) उपन्यास, कहानी, एवं नाटक (र-वरूप एवं तत्वों का सामान्य परिचय) आ) एकांकी, निबंध, स्मरण, रेखाचित्र, आत्मकथा जीवनी, दूरदर्शन नाटक, रेडियो नाटक - (र-वरूप एवं तत्वों का सामान्य परिचय)
3	जनवरी 19	3) रस :- शृंगार, करुण, वीर एवं शांत रस का सोदाहरण परिचय। 4) आलोचना - र-वरूप, आवश्यकता एवं आलोचक के गुण। (आलोचना के प्रकार अपेक्षित नहीं) 5) छंद :- अ) छंद का काल में स्थान। आ) निम्नलिखित छंदों का सोदाहरण परिचय 1) मात्रिक छंद :- दोहा, चौपाई, सोरठा 2) वर्णिक छंद - इन्द्रजाल, शिखरिणी, भुजंग प्रयात
4	फरवरी - 19	
5	मार्च 19	* उद्देश्य :- काव्य शास्त्र का सामान्य परिचय कराना। * गद्य के विविध विधाओं से परिचित कराना। * काव्य के विविध विधाओं से परिचित कराना। * आलोचना की क्षमता विकसित करना।
		* ————— *


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TEACHING PLAN

Class : 948A Sem.: I Subject : Hindi - 42 Paper Code. : _____

Class :

Sr. No.	Month	Topics/Practical's
1	537-18	* कथा सैतु - सं. डॉ. उमाशंकर निवारी, श्रीमती माधुरी वाणी प्रकाशन, इस संकलन की निम्नलिखित कहानियाँ अध्ययन हेतु निर्धारित की गयी हैं ।
2	जुलाई -18	1) आकाश दीप - जयशंकर प्रसाद । 2) कफन - प्रेमचंद 3) गैंग्रीन - अज्ञेय 4) गदल - रंगभैरव राघव
3	अगस्त -18	5) हुन्या और आत्महत्या के बीच - शिव प्रसाद सिंह 6) डिप्टी कलक्टर - अमरकांत 7) रस प्रिया - फणीश्वरनाथ रेणू
4	सितम्बर -18	8) चीफ की दावत - भीष्म साहनी 9) दिल्ली में एक मौत - कमलेश्वर 10) रजुब - काशीनाथ सिंह
		* अपठित अंश *
5	अक्टूबर -18	क) समानार्थी एवं विलोमार्थी शब्द ख) पल्लव उद्देश्य :- छात्रों को कहानी विद्या से परिचित कराना । कहानियों के माध्यम से जीवन मूल्यों से परिचित कराना - छात्रों में पल्लव की दमन विकसित करना ।

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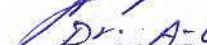
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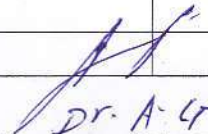
Class : S.Y.B.A. Sem.: II Subject : Hindi G2 Paper Code. : _____


Sr. No.	Month	Topics/Practical's
1	जुलै 2011 - 18	* पाठ्य क्रम * * कुरुक्षेत्र - (2405/04) * * कर्क - परिमल * (रामधारी सिंह, दिनकर)
		1) प्रथम सर्ग
2	डिसेंबर - 18	2) द्वितीय सर्ग 3) तृतीय सर्ग 4) चतुर्थ सर्ग
3	जनवरी - 19	5) पंचम सर्ग 6) षष्ठम सर्ग
4	फरवरी - 19	7) सप्तम सर्ग
		* आपठित अंश *
		क) पत्र लेखन
5	मार्च - 19	* आवेदन पत्र: नौकरी, लुट्टी, सम्बन्धी। * शुल्क में रियायत हेतु। * केन्द्रीय हिंदी निदेशालय की वर्तनी संबंधी नियमावली का ज्ञान। * उद्देश्य :- छात्रों को खण्डकाव्य विद्या से परिचित कराना। * छात्रों में पत्र-लेखन की क्षमता विकसित कराना। * शुद्ध लेखन की क्षमता को विकसित कराना।


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Sr. No.	Month	Topics/Practical's
1	जुलै - 18	* पाठ्यक्रम *
		* एकांक - परिमल *
2	जुलै - 18	1) प्रतिशोध - डॉ. रामकुमार वर्मा
		2) पिकनिक - विष्णु प्रभाकर
		3) साया - सत्येन्द्र शरत्
3	अगस्त - 18	4) महाभारत की सौझ - भारतभूषण अग्रवाल
		5) स्ट्राइक - भुवनेश्वर
		6) लक्ष्मी का स्वागत - उपेन्द्रनाथ अश्व
4	सितम्बर - 18	7) मम्मी टकुराइन - लक्ष्मीनारायण लाल
		8) जये मेहमान - उदयशंकर भट्ट
		* व्याकरण *
5	अक्टूबर - 18	1) पारिभाषिक शब्दावली
		2) अनेक शब्दोंके लिए एक शब्द
		* संदर्भ ग्रंथ *
		1) एकांक परिमल
		- प्र.सं. डॉ. मधुकर खारारे
		विद्या प्रकाशन कानपुर ।


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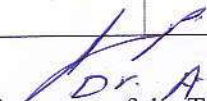
Class : T.Y.B.A. Sem.: II Subject : Hindi Paper Code. :

Sr. No.	Month	Topics/Practical's
1	जुलै - 18	* पाठ्य क्रम * * पाठ्य पुरतक *
		* निबंध मंजरी - प्र.सं. प्रो. डॉ. शिवाजी देवरे
2	डिसेंबर - 18	1) जवान - बालकृष्ण भट्ट 2) घोषा - प्रताप नारायण मिश्र 3) आशा का अन्त - बालमुकुंद गुप्त 4) देत सिख, सिखयो न मानत - आ. ह. प्र. विवेकी
3	जुलाई - 19	5) सेवा - शिव पुजन सहाय 6) भाव या मनोविकार - आ. रामचंद्र शुक्ल
4	फरवरी - 19	7) शिक्षा का उद्देश्य - महादेवी वर्मा 8) अम्मा - जमिंदार प्रसाद उपाध्याय
		* व्याकरण *
5	मार्च - 19	* निबंध लेखन * प्रदूषण की समस्या * स्वच्छ भारत * पर्यावरण प्रदूषण * बेटी बचाओ, बेटी पढ़ाओ...

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Sr. No.	Month	Topics/Practical's
17	नवम्बर - 18	* पाठ्य क्रम * * पाठ्य पुस्तक *
		* दो नाकवाले लोग - हरिशंकर परसाई
2	दिसम्बर - 18	1) अकाल - उत्सव । 2) दो नाकवाले लोग । 3) एक के भीतर दो आदमी ।
3	जनवरी - 19	4) सड़े आलू का विद्रोह । 5) भाषिक संप्रेषण और साहित्य ।
4	फरवरी - 19	* भाषा तथा हिंदी भाषा: भाषा की परिभाषा, और स्वरूप, हिंदी भाषा के विविध रूप - मानभाषा, राजभाषा, राष्ट्र भाषा, विश्वभाषा हिंदी भाषा, का विकासार्थक परिचय ।
5	मार्च - 18	* भाषा और संप्रेषण । * संप्रेषण का अर्थ, । * संप्रेषण का प्रयोजन । * संप्रेषण की प्रक्रिया । * संप्रेषण के प्रकार । * संप्रेषण के विविध रूप ।


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TEACHING PLAN

Class : T.Y.B.A. Sem.: V Subject : वाङ्मयीन मराठी (नाटक) Paper Code. : MAR 351

Sr. No.	Month	Topics/Practical's
01	जून जुलै	<u>नाटक वाङ्मय प्रकार</u> <ul style="list-style-type: none"> * नाटक म्हणजे काय? नाटकाच्या व्याख्या * नाटकाचे घटक * नाटकाचे प्रकार * सुखात्मिका, शोकात्मिका
02	ऑगस्ट	<ul style="list-style-type: none"> * नाटकाचे स्वरूप * नाटकाचे वैशिष्ट्ये * अधातव नाटकाविषयी माहिती
03	सप्टेंबर	<u>अधातव</u> <ul style="list-style-type: none"> * जयंत पवार यांचा परियर * अधातव नाटकाचे कथानक * अधातव नाटकातील प्रसंगनिर्मिती, वातावरण जीवनसंघर्ष
04	ऑक्टोबर	<u>अधातव</u> <ul style="list-style-type: none"> * अधातव : एक समस्याप्रधान नाटक * अधातव : नाटकातील पात्रे * अधातव : नाटकातील संवाद, भाषाशैली * टिपेथेयत / सेमिनार / सत्रातगत परीक्षा

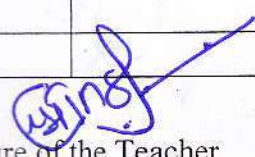
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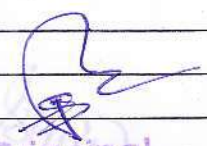
TEACHING PLAN

Class: T.Y.B.A. Sem.: V Subject: आधुनिक मराठी वाङ्मयाचा इतिहास Paper Code.: MAR 353

Sr. No.	Month	Topics/Practical's
01	जून जुलै	<p><u>आधुनिक मराठी वाङ्मयाचा इतिहास</u></p> <ul style="list-style-type: none"> * आधुनिक मराठी काय? * १९२० ते १९६० मधील कथा वाङ्मय * १९२० ते १९६० मधील प्रातिनिधिक कथाकारांचा थोडक्यात परिचय * विभावरी शिंदेकर * शंकरराव खेसले
02	ऑगस्ट	<ul style="list-style-type: none"> * १९२० ते १९६० मधील कादंबरी वाङ्मय * १९२० ते १९६० मधील प्रातिनिधिक कादंबरीकारांचा परिचय * सानेगुरुजी * श्री. ना. पेंडसे
03	सप्टेंबर ऑक्टोबर	<ul style="list-style-type: none"> * १९२० ते १९६० या मधील निवडक साहित्यकृती * अंबोली - वि. स. खाडके * बंगलूरवाडी - व्यंकटेश माडगूळकर * टिपोग्राफी / सेमिनार / सत्रातवृत्ते परीक्षा



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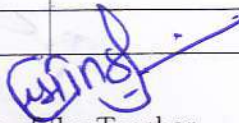


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TEACHING PLAN

Class : F.Y.B. Com Sem.: III Subject : मराठी Paper Code. : _____

Sr. No.	Month	Topics/Practical's
01	जून, जुलै	<p>* <u>जमशेदजी टाटा</u></p> <p>* भारतीय उद्योजक * कौटुंबिक पार्श्वभूमी * शिक्षण, व्यवसाय * उद्योगक्षेत्रातील मराठी</p>
02	ऑगस्ट	<p>* <u>जी.डी. बिर्ला</u></p> <p>* भारतीय उद्योजक, म्हणून ख्याती * कौटुंबिक पार्श्वभूमी * शिक्षण / व्यवसाय * उद्योगक्षेत्रातील मराठी</p>
03	सप्टेंबर	<p>* <u>वाळयंद हिरायंद अ देशी</u></p> <p>* भारतीय उद्योजक * कौटुंबिक पार्श्वभूमी * शिक्षण व्यवसाय</p>
04	ऑक्टोबर	<p>* <u>वाळयंद हिरायंद देशी</u> उद्योगक्षेत्रातील मराठी * <u>वाळयंद देशीचे तत्त्व</u> * <u>सेमिनार/टिपोरिथल/सत्रावर्गीत परीक्षा</u></p>



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TEACHING PLAN

Class : SYBA.

Sem.: III

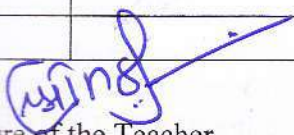
Subject :

(वाङ्मयीन मराठी)

Paper Code. :

MAR 231(A)

Sr. No.	Month	Topics/Practical's
01	जून जुलै	<p><u>वैचारिक गद्यलेखन</u></p> <ul style="list-style-type: none"> * वैचारिक गद्यलेखन म्हणजे काय ? * मराठीतील गद्यलेखनाची परंपरा * म. फुले जीवन काय * म. फुले यांची जडण-घडण
02	ऑगस्ट	<ul style="list-style-type: none"> * म. फुले यांच्या लेखनसंपदनेबाबत माहिती * शेतकऱ्यांचा असूड याविषयी माहिती * शेतकऱ्यांच्या असूडमधील शेतकरी * शेतकऱ्यांचे शोषण
03	सप्टेंबर	<ul style="list-style-type: none"> * शेतकऱ्यांच्या असूडमधील कृषीव्यवस्था * शेतकऱ्यांचे म्हण * म. फुले यांची वैचारिक मांडणी.
04	ऑक्टोबर	<ul style="list-style-type: none"> * म. फुलेंच्या वैचारिक लेखनाचे वैशिष्ट्ये * प्राध्यापक * सेमिनार / टिपोरियल / सत्रांकित परीक्षा



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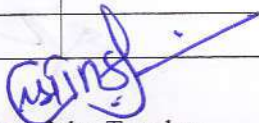
TEACHING PLAN

Class : SYB.A. Sem.: III Subject : साहित्यविद्या Paper Code. : MAR 233

(भारतीय आणि पश्चात्य)

Topics/Practical's

Sr. No.	Month	Topics/Practical's
01	जून जुलै	<p><u>साहित्यविद्या</u></p> <ul style="list-style-type: none"> * भारतीय आणि पश्चात्य साहित्यविद्येच्या परिचय * साहित्याचे स्वरूप * भारतीय काव्यलक्षणांचा परिचय * आमल, दण्ड, वाग्ज, रुद्रट, आनंदवर्धन * कुटुक, क्षेपेद्र, मम्मट - विश्वनाथ, जज्ञनाथ
02	ऑगस्ट	<ul style="list-style-type: none"> * <u>साहित्याची प्रयोजने</u> * प्रयोजन म्हणजे काय ? * मम्मटाची प्रयोजने * यश, अर्थ, कृपहरज्ञान (अशुभनिवारण), आनंद, काताचमित उपदेश <p>पश्चात्यांची प्रयोजने : पंथायनवाद, इच्छापूर्ती, स्वच्छेद</p>
03	सप्टेंबर	<ul style="list-style-type: none"> * <u>पश्चात्यांची प्रयोजने</u> * जिज्ञासापूर्ती, उदबोधन, आत्मविवेक, जीवनमाध्य, सामाजिक बाधिलक, कल्पनाशक्ती <p><u>साहित्यनिर्मिती :</u></p> <ul style="list-style-type: none"> * साहित्यनिर्मिती म्हणजे काय ? * प्रधान कारण : प्रतिभा (रुद्रट, मम्मट, अभिनव गुला यांच्या कथा) * व्युत्पत्ती, अक्षय, भावनात्मकता, बहुसुतता
04	ऑक्टोबर	<p><u>साहित्यनिर्मिती :</u></p> <ul style="list-style-type: none"> * गौण कारणे * मानसिक व शारीरिक स्वास्थ्य, परिस्थिती, स्मृतिह्रस्त, मक्ती व क्लेश * टिचोरिवरु / सेमिनार / अत्रात्वेत परीक्षा



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TEACHING PLAN

Class : T.Y.B.A. Sem.: V Subject : वाडमयीन मरुठी Paper Code. : MAR 361
निवडक लेलित गय

Sr. No.	Month	Topics/Practical's
01	नोव्हें, डिसेंबर	<u>निवडक लेलित गय</u> * लेलित गय म्होजे काय ? * लेलित गयाची परवश * लेलित गय घटना प्रसंग, भावना * साहित्य अकादमी पुरस्कार
02	जानेवारी	<u>निवडक लेलित गय</u> * स्वरूप * विषयाची विविधता * आशय * अभिव्यक्ती * आठवणी, प्रसंग भाषाशैली * लेलित गयाची वैशिष्ट्ये
03	फेब्रुवारी मार्च	<u>लेलित लेख</u> * बाँय फ्रेड * महेश्वरी महाश्वेता, धर कौलरु * रंगरेषाचे मूगजण, म.डू. किसी मंदिर मे * कोसला लडुन कशी झाली याची गोष्ट * टाइमपास, स्मिता पाटील * इतिहासांतल्या एका गावात * अरण्यातील आत्मभान * हळदी दिवस, * पार्वतीमास * सेमिनार टिपोरीयल

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TEACHING PLAN

Class : T.70A Sem.: V Subject : आधुनिक मराठी वार्धमथाचा इतहास Paper Code. : 3817

Sr. No.	Month	Topics/Practical's
01	ऑक्टोबर डिसेंबर	<p><u>१९२० ते १९६० कविता वाङ्मय</u></p> <ul style="list-style-type: none"> * १९२० ते १९६० मधील कविता वाङ्मय * १९२० ते १९६० या काळखंडातील प्रातिनिधिक कवींचा अभ्यास + बहिणाबाई * बा. सी. मर्ढेकर
02	जानेवारी फेब्रुवारी	<p><u>नाट्य वाङ्मय</u></p> <ul style="list-style-type: none"> * १९२० ते १९६० नाट्य वाङ्मय परिचय * १९२० ते १९६० या काळखंडातील प्रातिनिधिक नाटककारांचा अभ्यास * प्र. क. अत्रे * वि. वा. शिरवाडकर
03	फेब्रुवारी मार्च	<p><u>प्रातिनिधिक साहित्यकृती</u></p> <ul style="list-style-type: none"> * १९२० ते १९६० या काळखंडातील प्रातिनिधिक साहित्यकृती * काव्यसंग्रह निवडक बालकवी <ul style="list-style-type: none"> * श्रीमंत - विजय तेंडुलकर * दिव्यरेखल सोमनाथ

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TEACHING PLAN

Class : F.Y.B.COM Sem.: Subject : मराठी Paper Code. :

Sr. No.	Month	Topics/Practical's
01	नोव्हेंबर डिसेंबर	धीरुभाई अंबानी * कौटुंबिक पार्श्वभूमी * शिक्षण * उद्योगक्षेत्रातील कामगिरी
२	जानेवारी फेब्रु	राहुल बजाज * कौटुंबिक पार्श्वभूमी * शिक्षण * उद्योगक्षेत्रातील मराठी रतन टाटा * कौटुंबिक पार्श्वभूमी * शिक्षण * उद्योगक्षेत्रातील मराठी
03	फेब्रुवारी मार्च	आदित्य विक्रम बिरला * कौटुंबिक पार्श्वभूमी * शिक्षण * उद्योगक्षेत्रातील कामगिरी

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TEACHING PLAN

Class : S-Y-B A. Sem.: 4 Subject : यचित्त (आत्मचरित्र) Paper Code. : MAR 279 A.

Sr. No.	Month	लेखनाचा अड्डास Topics/Practical's
01	नोव्हेंबर डिसेंबर	<p style="text-align: center;"><u>यचित्त - आत्मचरित्र</u></p> <ul style="list-style-type: none"> * यचित्त - आत्मचरित्र स्वरूप * यचित्त आत्मचरित्रातील फरक * यचित्त - आत्मचरित्राची वैशिष्ट्ये * यचित्त आत्मचरित्राची परंपरा
02	जानेवारी	<p style="text-align: center;"><u>यचित्तपर लेख</u></p> <ul style="list-style-type: none"> * विल्लोपंत छते : ग्रँड इंडियन सर्कस इयामठा शिरीळकव * शानैबुखी - व्यक्तित्व आणि कार्य संदकात बाहिवडेकव * आलयंद्र नेमाडे : मु.पो. सांगवी (बुदक) श. वा. राण * नसीमा आणि हेल्पर्स अनित अवघट
03	फेब्रुवारी मार्च	<p style="text-align: center;"><u>आत्मचरित्रपर लेख</u></p> <ul style="list-style-type: none"> * ती आणि मी भवशुभाळ जैन * नाथप्रवासाची पहिली पाकळे - श्रीराम ठागु * प्रकाशवाद्य * मन मे हूँ - प्रकाश आमटे - विश्वास नांगरे पाटील <p style="text-align: center;">सेमिनार / टिचेशियल</p>

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TEACHING PLAN

Class : S.Y.B.A. Sem.: 4 Subject : साहित्यविधाव Paper Code. : MAR 243

Sr. No.	Month	Topics/Practical's
		(भारतीय आणि पाश्चात्य)
01	नोव्हेंबर डिसेंबर	साहित्याची भाषा * शब्दशास्त्री : स्वरूप व प्रकार (अभिधा, लक्षणा, व्यंजना) * अलंकारविवरण व वक्रोक्तीविवरण * रूपक, प्रतीक, प्रतीमा, अनेकायता, अपरिचीलिकरण निरमोत्सर्ग
02	जानेवारी	साहित्यातील रस * भरतमुनीचे रससूत्र * आठ रथाची भावे व रस * भट्टलोल्लट, श्रीशुक, भट्टनायक, अभिनवगुप्त यांचा रसविवरण
03	फेब्रुवारी मार्च	साहित्य : आनंद आणि आस्वाद * काव्यानंदमीमांसा - कवीचा आनंद व रसिकाचा आनंद * अरिस्टॉटलचा कथासंज्ञिया सिध्दत, रिचर्डसचा प्रेरणासतुलनाचा सिध्दत सेमिनार / टिचरीथक

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TEACHING PLAN

(MIL)

Class : S-7-B.A. Sem.: 4 Subject : आठव माध्यमासाठी लेखन सेवाद (MIL) Paper Code. : MAR 246

Sr. No.	Month	Topics/Practical's
01	ऑक्टोबर जानवारी फेब्रुवारी मार्च	<p>* <u>आठव माध्यम : स्वरूप आणि परिचय</u></p> <p>* नभोवाणी : उगम आणि विकास</p> <p>* नभोवाणी कार्य : दैनंदिन कार्य / खाजगी एक-एम. वाहिनी</p> <p>* नभोवाणी कार्य : उपयुक्तता व शैक्षणिक</p> <p>* <u>नभोवाणीसाठी लेखन</u></p> <p>* <u>आषाढ लेखन : स्वरूप व तंत्र</u> आषाढाचे स्वरूप, आषाढाची रचना, आषा, आषाढ लेखनाचे तंत्र</p> <p>* <u>श्रुतिक लेखन : स्वरूप व तंत्र</u></p> <p>* <u>नभोवाणीसाठी लेखन व सेवाद</u></p> <p>* <u>युवकासाठीच्या कार्यक्रमाचे लेखन : स्वरूप व तंत्र</u> कार्यक्रमाचे विषय, मांडणी, आषा व निवेदन</p> <p>* <u>सरकारी व खाजगी नभोवाणी : निवेदन कौशल्य व स्वरूप</u></p>

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TEACHING PLAN

Class : F.Y.B.A Sem.: Ist Subject : Compulsory English Paper Code. : _____

Sr. No.	Month	Topics/Practical's
1	June-19	Introduction - Literature, Types of Lit. General topics, Introduction
2	July-19	Short stories :- 1) A Cup of Tea - Katherine Mansfield. 2) Why I Want A Wife - Judy Brady
3	Aug-19	Prose Essays: 1) Playing The English Gentleman - M.K. Gandhi 2) With The Photographer - Stephen Leacock
4	Sept-19	poems:- 1) Where The Mind Is Without Fear - Rabindranath Tagore. 2) Up-Hill - Christina Rossetti Writing Skills 3) Report Writing
5	Oct-19	Writing Skills - 1) Interviews and Interviewing Skills.

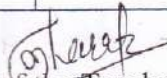
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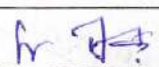
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TEACHING PLAN

Class : S.V.B.A Sem.: IIIrd Subject : The study of Novel Paper Code : Dse 1 C

Sr. No.	Month	Topics/Practical's
1	June 19	Introduction - General- English- Basic English. Syllabus and format of Que- Paper.
2	July-19	Unit:1 A) Definitions of Novel B) Aspects of Novels 1) Plot 2) Characters:- Flat, Round, Hero Anti-hero. 3) Theme, 4) setting 5) Point of view 6) Narration.
3	Aug-19	C) Types of Novels:- 1) Social Novel 2) Historical Novel 3) Picaresque Novel 4) Psychological Novel
4	Sept-19	D) Novel:- Passage to India - E.M. Foster
5	Oct-19	Novel- Passage to India - E.M. Foster

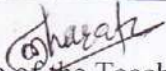

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TEACHING PLAN

Class : S-Y-B-A Sem.: IIIrd Subject : 18th Century Literature Paper Code. : DSE 2A

Sr. No.	Month	Topics/Practical's
1	June 19	Introduction - Syllabus - format of Question Paper:
2	July 19	* Background study of poetry and Novel in the 18 th Century English Literature * Prescribed poems:- 1) Lines Composed a few Miles Above Tintern Abbey - William Wordsworth 2) Rhyme of Ancient Mariner - S.T. Coleridge
3	Aug - 19	* Prescribed poem 3) Ode On a Grecian Urn - John Keats 4) One Wood is too often Prophaned - P.B. Shelley 5) She Walks In Beauty - Lord Byron
4	Sept - 19	* Novel * Sense and Sensibility - Jane Austen
5	Oct - 19	Novel - Sense and Sensibility - Jane Austen - Revision.


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TEACHING PLAN

English for Competitive

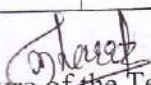
Class: SYBA


Sem.: III

Subject: Examinations

Paper Code.: SEC-I

Sl. No.	Month	Topics/Practical's
1	July 19 June 19	Introduction - Syllabus - format of Question Paper
2	July 19	Grammar - A) a) parts of speech b) sentence correction / spotting the errors c) Articles d) sentence or phrase improvement
3	Aug 19	Grammar: - A) d) sentence or phrase improvement e) clauses f) Active-passive voice g) Direct-Indirect speech
4	Sept 19	Grammar: - A) g) Direct-Indirect speech B) Reading Comprehension comprehension of given passages.
5	Oct 19	comprehension & Revision.


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TEACHING PLAN

Class : T.Y.B.A Sem.: Vth Subject : Eng. Sp1. Paper III(S₂) Paper Code. : _____

Sr. No.	Month	Topics/Practical's
1	June 19	Introduction - Literature * Syllabus * format of Question Paper
2	July 19	Background study of Indian English literature * Especially Drama and Novel
3		* Indian English Drama. * Development of Indian Eng. Drama. * features of Indian Eng. Drama. * Drama- Chitra (Chitrangada) - Rabindranath Tagore,
3	Aug. 19	* Chitra (Chitrangada) Rabindranath Tagore, * Indian English Novel. * Development of Indian Eng. Novel, * Characteristics of Indian English Novel
4	Sept 19	* Novel :- "The Holder of the World" - Bharati Mukherjee.
5	Oct 19	The Holder of The World, Bharati Mukherjee. Revision Term End (Internal Exam)

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TEACHING PLAN

Class: FYBA Sem.: III Subject: Compulsory Eng. Paper Code. : _____

Sl. No.	Month	Topics/Practical's
1	Nov-19	Introduction - Literature, Types of Lit. General Topics, Introduction. Syllabus - contents Format of question paper.
2	Dec-19	Short stories: 1) The Thief - Ruskin Bond. 2) The Gold Frame - R.K. Laxman.
3	Jan-20	Prose 1) How Much Land Does A Man Need? - Leo Tolstoy. 2) Good Manners - J.C. Hill.
4	Feb-20	Poetry: - 1) The felling of the Banyan Tree - Dilip Chitre 2) If - Rudyard Kipling.
5		Writing skills - 1) - Narration
6	March-20	2) Summarising.

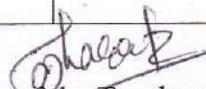
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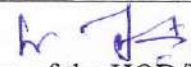
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TEACHING PLAN

Class : SYBA Sem.: IVth Subject : DSC-1D The study of Drama Paper Code.: DSC 1D

Sr. No.	Month	Topics/Practical's
1	Nov-19	Introduction - general English, basic English topics Introduction - syllabus Introduction - format of que. paper.
2	Dec-19	Unit 1 - A) Definitions of Drama. B) Elements of Drama (only Introduction) 1) Plot - 2) characters - Protagonist and Antagonist 3) Setting 4) Dramatic devices.
	Jan-20	5) Music 6) Symbolism 7) parallelism & contrast 8) Irony
	Feb-20	Types of Drama:- 1) Tragedy 2) Comedy 3) Problem play 4) Absurd Drama
	Feb 20	Drama - Arms and ^{the} Drama man. - G. B. Shaw.
	March 20	Drama - Arms and the Man. G. B. Shaw.


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TEACHING PLAN

Class: SYBA (S2) Sem.: IV Subject: 19th century literature Paper Code.: PSE 2 B

Sr. No.	Month	Topics/Practical's
1	Nov-19	Introduction - Syllabus - format of question paper. General Introduction about the specialization.
2	Dec 19	* Background study of poetry and Novel of the 19 th century English literature. * prescribed poems:- 1) The Lotus eaters - Alfred Lord Tennyson 2) Rabbia Ben Ezra - Robert Browning
3	Jan 20	poems - 3) Dovec Beach - Matthew Arnold 4) The Blessed Damozel - D.G. Rossetti - 5) Pied Beauty - J.G.M. Hopkins
4	Feb 20	Novel - Background of Novel.
5	March 20	* Tess of the d'Urbervilles - Thomas Hardy.

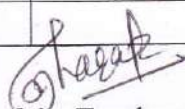
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TEACHING PLAN

Class : SYBA Sem.: IVth Subject : English for Competitive Exams. Paper Code. : SEC-2

Sr. No.	Month	Topics/Practical's
1	Nov-19	Introduction - General English, basic English. * Introduction - syllabus * Introduction - format of que p.
2	Dec 19	A) Vocabulary: a) Synonyms - Antonyms, Paronyms, - Homonyms, one word substitution.
3	Jan-20	b) fill in the blanks c) cloze Test d) Double fillers e) Spelling Test
4	Feb 20	f) Idioms and phrases g) foreign words and phrases. h) Sentences or phrase improvement.
5	Feb-	Sentence Rearrangement
6	March	a) Para-Jumbles b) Jumbled Sentence * Pension of syllabus.


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TEACHING PLAN

Eng. Sp1 Paper - IIInd (S3)

Class: I.Y.B.A. Sem.: Vth Subject: American Literature Paper Code.: Eng-362

Sl. No.	Month	Topics/Practical's
1	Nov-19	Introduction - Literature syllabus Question paper format
2	Dec-19	* A) Background study of the American literature especially poetry and novel. B) poetry 1) Stopping By Woods on a Snowy Evening 2) Mending Wall - - Robert Frost.
3	Jan 20	3) Of Modern Poetry - Wallace Stevens 4) The Wood as Meditation - Wallace Stevens. 5) In the Evening - Adrienne Rich 6) Like This Together - Adrienne Rich.
4	Feb 20	Novel - "The Bluest Eye" - Toni Morrison.
5	Mar 20	The Bluest Eye Toni Morrison Revision

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Sr. No.	Month	Topics/Practical's
1	Jun-19 July-19	प्रकरण 1 अमेरिकेची राज्यघटना 1- राज्यघटनेचे स्वरूप. 2- ऐतिहासिक पार्श्वभूमी 3- राज्यघटनेची वैशिष्ट्ये, घटना दुरुस्ती प्रक्रिया. 4- मूलभूत हक्क - अर्थ आणि वैशिष्ट्ये. 5- संघराज्यवाद - रचना कार्य आणि सत्ता.
2	July-19 Aug-19	प्रकरण 2 अमेरिकेचे शासन आणि प्रशासन अ) - अमेरिकन कायदेमंडळ 1. सिनेट - रचना, अधिकार, कार्य आणि भूमिका. 2. पतिलिधीगृह - रचना, अधिकार, कार्य आणि भूमिका. 3. प्रशासकीय सेवा - कार्य, कार्यालय वाढ, निर्णयनिवारण व संमेलनजावणी मधील भूमिका. ब) अमेरिकन कार्यकारी मंडळ. 1. राष्ट्राध्यक्ष - निवड, अधिकार, कार्य आणि भूमिका. 2. सल्लागार मंत्रीमंडळ - निवड, कार्य आणि भूमिका. 3. राज्य सरकार - राज्यपाल, कायदेमंडळ. क) अमेरिकन न्यायमंडळ. 1. न्यायालयाची भूमिका - रचना कार्य आणि अधिकार 2. न्यायालयाचे कार्यक्षेत्र व न्यायीक पुनर्विलीकन. 3. कायदेमंडळ व कार्यकारी मंडळातील संबंध, आधुनिक प्रवाह.
3	Sept-19 Oct-19	प्रकरण 3 राजकीय पक्ष व अमेरिकन पक्ष पद्धती. 1. राजकीय पक्ष - ऐतिहासिक पार्श्वभूमी, प्रकार, भूमिका कार्य व आधुनिक प्रवाह. 2. हितसंबंधी गट व सामाजिक-यंत्रणे - ऐतिहासिक पार्श्वभूमी, प्रकार, भूमिका कार्य व आधुनिक प्रवाह. 3. प्रसार माध्यमांची भूमिका, महिला व तंत्रज्ञान.

Signature of the Teacher

Principal
A. M. Paul Arts, Comm. &
Signature of the HOD/Principal
College, P. W. Tal. Sakri (Dhule)

TEACHING PLAN

Class : T.P.BA Sem.: V Subject : कार्मिक प्रशासन आणि उत्तरदायन Paper Code. : _____

Sr. No.	Month	Topics/Practical's
१)	June 19 July 19	कार्मिक (सेवक) प्रशासन. अ) अर्थ आणि महत्व. ब) नागरी (सतदी) सेवेची वैशिष्ट्ये. क) नागरी सेवेची कार्ये. ड) सेवक भरती. १) अर्थ आणि महत्व. २) भरतीच्या पध्दती अ) प्रत्यक्ष भरती ब) अप्रत्यक्ष भरती (बढती) इ) पाठला इशक्याच्या पध्दती. १) लेखी परीक्षा २) भाषाश्रवण ३) प्रात्याक्षिक ४) मानसशास्त्रीय परीक्षा ५) शारीरिक परीक्षा.
२)	July 19 Aug 19	प्रशिक्षण. अ) अर्थ, महत्व आणि प्रशिक्षणाची उद्दोष्ट्ये. ब) प्रशिक्षणाचे प्रकार १) औपचारिक प्रशिक्षण २) अतौपचारिक प्रशिक्षण १. प्रवेश पूर्व प्रशिक्षण, शिकाऊ उमेदवारी, अंतर्गत उमेदवारी. २. प्रवेशोत्तर प्रशिक्षण. ३. सेवाकालीन प्रशिक्षण - उजळणी, उद्बोधन. क) प्रशिक्षणाच्या पध्दती. ड) भारतातील सनदी सेवकांसाठी प्रशिक्षण.
३)	Aug 19 Sept 19	नियुक्तीकर्म व सेवक संबंध. अ) संघटनेचा अधिकार, संपत्ती अधिकार ब) वारंदादी शेतगा. क) प्रशासकीय निवाडा. ड) सेवा निवृत्ती - हेतू, प्रकार, फायदे इ) राजकीय सदस्थता, वर्तवूक आचारसंहिता क) आरक्षण धोरण
४)	Sept 19 Oct 19	प्रशासकिय उत्तरदायित्व. अ) प्रशासन उत्तरदायित्वाची संकल्पना. ब) विधिभंडाऱ्याचे प्रशासनावरील नियंत्रण. क) कार्यकारी भंडाऱ्याचे प्रशासनावरील नियंत्रण ड) न्यायभंडाऱ्याचे प्रशासनावरील नियंत्रण व न्यायिक नियंत्रणाचे भाग. इ) प्रशासनावरील जतनेचे नियंत्रण.

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Karm.A.M.P.
Tal. Anant
Tal. Akad (Dhule)

TEACHING PLAN

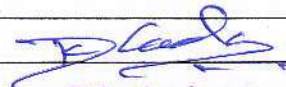
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Class : T.Y.BA Sem.: V Subject : पाश्चिमात्य राजकीय विचार Paper Code. :

Sr. No.	Month	Topics/Practical's
1.	June 19 July 19	फ्लेटो - आदर्शवादी दृष्टिकोन. अ. न्यायसिध्दांत. ब. आदर्श राज्याची संकल्पना आणि लक्ष्य राजा. क. शिसग विषयक विचार ड. साम्यवादा विषयी विचार मूल्यमापन.
2.	July 19 Aug 19	ऑरिस्टोटल. वास्तववादी दृष्टिकोन. अ. राज्यविषयक विचार ब. राज्याचे वर्गीकरण क. नागरिकांच्याची संकल्पना गुलामगिरी विषयक विचार ड. फ्रीडीची कारणे मूल्यमापन.
3.	Aug 19 Sept 19	मॅकव्हली. अ. राजाता केलेला उपदेश ब. साध्य आणि साधनाबाबतची मते. क. धर्म आणि नैतिकता. ड. राजतंत्र मूल्यमापन.
4.	Sept 19 Oct 19	जॉन लॉक. अ. मानवी स्वभाव व निसर्गावरिथ्या. ब. सामाजिक करार सिध्दांत. क. नैसर्गिक हक्कांची संकल्पना. ड. जॉन लॉकचे - शासकीय मालमत्ता. राज्य आणि शासन बाबत मते मूल्यमापन.

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Principal

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Kot Annasaheb N.K. Patil Science
Sr. College, Pimpner Tal. Sakri (Dhule)

Sr. No.	Month	Topics/Practical's
1.	Nov 19	प्रकरण - 1 - चीनची राज्यघटना.
	Dec - 19	1. ऐतिहासिक पार्श्वभूमी. 2. राज्यघटनेचे स्वरूप. 3. चीनच्या राज्यघटनेची वैशिष्ट्ये आणि घटना युरोस्लोपी प्रक्रिया. 4. घटनात्मक हक्क - अर्थ आणि वैशिष्ट्ये. 5. पारंपारिक संवैधान्यवाद - रचना कार्य आणि अधिकार
2.	Jan 20	प्रकरण - 2 चीनचे शासन आणि प्रशासन.
	Feb 20	1. कार्यभेदकाव - रचना, कार्य व भूमिका. 2. कार्यकारी मंडळ - रचना कार्य व भूमिका. 3. न्याय व्यवस्था - रचना, कार्य व भूमिका. 4. सैनिक प्रशासना - रचना, कार्य व सैनिक प्रशासनाची भूमिका.
3.	Feb 20	प्रकरण - 3 राजकीय पक्ष आणि पक्षपद्धती.
	March 20	1. राजकीय पक्ष - ऐतिहासिक पार्श्वभूमी, प्रकार, भूमिका, कार्य आणि आधुनिक पवाद. 2. हितसंबंध गट आणि सामाजिक चळवळी - ऐतिहासिक पार्श्वभूमी, प्रकार, भूमिका, कार्य आणि आधुनिक पवाद. 3. राजकीय पक्ष. 1. National Communist Party of China (CPC) 2. चायना डेमोक्रेटिक लिग (CDD) 3. चायना नेशनलिस्ट पार्टी (CNP) 4. चायना असोसिएशन फॉर प्रोग्रेसिव्ह डेमोक्रेसी (CAPA) 5. चायना प्रोग्रेसिव्ह अँड वर्कर्स डेमोक्रेटिक पार्टी (PWDP)

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Principal

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Sci. Annex • all Science
Signature of the HOD/Principal


TEACHING PLAN

6

Class : S.Y.B.A Sem.: II Subject : निवडूक व्यवस्थापन Paper Code. : DSC-SEC-2

Sr. No.	Month	Topics/Practical's
1	NOV. 19 Dec 19	प्रकरण - 1 ले. निवडूक व्यवस्थापन आणि संरचना. 1. निवडूक व्यवस्थापनाचा अर्थ, व्याख्या. 2. निवडूक आयोग - संरचना, अधिकार, कार्य आणि वित्तीय तरतूद. 3. निवडूक सोसाईटीची अकारसंघीता. 4. निवडूक सुधारणा - निवडूक प्रक्रियेची विशा. 5. मतदान कक्षांचे व्यवस्थापन व रचना.
2	Jan 20 Feb 20	प्रकरण - 2 - निवडूक प्रक्रिया आणि प्रचारतंत्र (अभियान) 1. मतदार नोंदणी पध्दती. 2. कागदपती ओळखीचा पुरावा. 3. उमेदवाराच्या प्रतिनिधित्वाची नामनिर्देशनाची पध्दत. 4. राजकीय पक्षाच्या नोंदणीच्या अटी व शर्ती. 5. मतदार जागृती अभियान - - निवडूक प्रचारतंत्राला माहिती संतुलनाचा उपयोग.
3	Feb 20 March 20	प्रकरण - 3 - मतदान पध्दती आणि राजकीय संस्था. 1. प्रत्यक्ष व अप्रत्यक्ष मतदान. 2. राजकीय संस्थांची पध्दत. 3. मतदार वर्तनावर प्रभाव टाकणारे घटक. 4. मतदार उदासिनाता - स्वरूप, कारणे, उपाय. 5. राजकीय संस्थातील अडथळे.

Signature of the Teacher


Principal
Karm. A. M. Patil Arts, Comm. &
Sci. College, Pimpri Sakri (Dhule)
Signature of the HOD/Principal

7

Gr. B.

TEACHING PLAN

Class : T.P.B.A Sem.: VI Subject : कृषि प्रशासन आणि व्यवस्थापन. Paper Code. : POL 361(A-63)

Sr. No.	Month	Topics/Practical's
1.	NOV-19 Dec-19	व्यवस्थापन. अ) अर्थ आणि व्यवस्थापनाचे प्रकार ब) व्यवस्थापनाची वैशिष्ट्ये क) व्यवस्थापनाची कार्ये POSDCORB. ड) योग्यता प्रशासनाच्या कसेट्या आणि महत्व.
2	Dec 19 Jan 20	प्रशासकीय नेतृत्व. अ) अर्थ, व्याख्या आणि महत्व. ब) प्रशासकीय नेतृत्वाबाबतचे धृष्टीकोन. क) प्रशासकीय नेतृत्व विकास आणि नेतृत्वाची वैशिष्ट्ये ड) प्रशासकीय नेतृत्वाकरीत आवश्यक गुण आणि नेतृत्वाचे प्रकार इ) प्रशासकीय नेतृत्वाचे कार्य. फ) नेतृत्व शैली.
3	Jan 20 Feb 20	धोरण निश्चिती आणि समन्वय. अ) धोरण-निश्चिती - 1) अर्थ, व्याख्या, आणि धोरण निश्चितीचे आधार २) भारतातील धोरण निश्चितीचे आधार ब) समन्वय - 1) अर्थ आवश्यकता आणि महत्व. २) समन्वयाची सत्ते आणि वैशिष्ट्ये. ३) योग्यता समन्वयासाठी आवश्यक लक्ष्ये. ४) प्रभावी समन्वयाची संज्ञे.
4.	Feb 20 March 20	व्यवस्थापनातील लवण पवाद. अ) मनोवैयर्थ - अर्थ, व्याख्या आणि महत्व. - मनोवैयर्थी प्रभावदाकरीत करक. - मनोवैयर्थीचे मापन. ब) प्रशासकीय निलिमतला - निलिमतली गरज, प्रशासकीय नैतिकतेची व्याख्या, नैतिकतेची सत्ते क) प्रशासनाची सामाजिक जबाबदारी. - अर्थ, व्याख्या आणि स्वरूप. - सामाजिक जबाबदारी पार पाडण्यासाठी आणि पाडणा-या शक्ती. ड). जवसंपर्क - अर्थ, व्याख्या आणि महत्व. जवसंपर्काची माध्यमे आणि पध्दती, जवसंपर्काला माध्यमांची भूमिका.

Signature of the Teacher

Principal

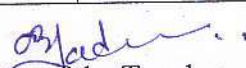
Karm.A.M.P. Comm. &
Signature of the HOD/Principal
College, Tal. Sakri (Disto)

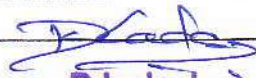
TEACHING PLAN

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Class: G13 T.P.B.A Sem.: VI Subject: कार्मिक प्रशासन आणि व्यवस्थापन Paper Code.: POL 362

Sr. No.	Month	Topics/Practical's
1	Nov. 2019 Dec. 19	कार्ल मार्क्स. अ. विरोध विकासवाद सिद्धांत. ब. इतिहासाचे क्रोमिकवादी विश्लेषण क. वर्गसंघर्ष आणि अतिरिक्त मूल्य सिद्धांत. ड. वर्गविहीन आणि राज्य विहीन समाज मूल्यमापन.
2	Dec. 19 Jan. 20	जॉन स्टुअर्ट मिल. अ. व्यक्तिगत स्वातंत्र्य १) विचार स्वातंत्र्य २) कूली स्वातंत्र्य. ब. स्त्री स्वातंत्र्याविषयी विचार क. प्रातिनिधिक शासन ड. उपभोगितावादातील बदल. मूल्यमापन.
3	Jan 20 Feb 20	जॉन लॉर्डल रॉब्स. अ. स्वातंत्र्याबद्दल विचार ब. समता विषयक विचार क. न्याय सिद्धांत. नेमस न्याय संकल्पना. ड. जॉन रॉब्सचे मत. १) स्वाजगी मालमत्ता २) मुख्यवस्थीत समाजरचना मूल्यमापन.
4	March 2020	हेरॉल्ड लास्की. अ. स्वातंत्र्याची संकल्पना. ब. ठळकसंबंधी विचार क. राज्य आणि समाज ड. सार्वभौम सत्तेसंबंधी संकल्पना. मूल्यमापन.


Signature of the Teacher


Principal
Kann.A.M. Padi Arts, Comm. &
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TEACHING PLAN - 2019-20

Class : F.Y.B.A. Sem.: I Subject : Indian constitution Paper Code. : Pol. G 101 - A

Sr. No.	Month	Topics/Practical's
01	Jun - July 2019	<p>भारतीय राज्यपाला आणि भारतीय संघराज्य व्यवस्था</p> <p>अ) भारतीय संविधान</p> <p>ऐतिहासिक पार्श्वभूमी</p> <p>संविधान निर्मिती प्रक्रिया आणि वैशिष्ट्ये</p> <p>संज्ञाभा</p> <p>ब) भारतीय संघराज्य पध्दती :- रचना, स्वरूप, वैशिष्ट्ये</p>
02	August - 2019	<p>मुख्यमंत्रि स्वयं कार्ये आणि मंत्रिमंडळ तार्व</p> <p>अ) मुख्यमंत्रि स्वयं कार्ये :-</p> <p>अर्थ, स्वरूप, महत्त्व आणि कार्ये</p> <p>मुख्यमंत्रि स्वयं कार्ये करिमाणेचे अर्थ</p> <p>ब) मंत्रिमंडळ तार्व :-</p> <p>अर्थ, व्याप्ती, स्वरूप, महत्त्व आणि प्रकार</p> <p>मुख्यमंत्रि स्वयं कार्ये मंत्रिमंडळ तार्वानेचे अर्थ</p>
03	Sept - Oct 2019	<p>घटनासूची मंडळ आणि घटना दुरुस्ती प्रक्रिया :-</p> <p>अ) 1) राष्ट्रीय लोकसभेच्या संघात</p> <p>2) राष्ट्रीय सभेच्या अधिकार</p> <p>3) नवी संघात</p> <p>ब) घटना दुरुस्ती प्रक्रिया :-</p> <p>अर्थ आणि महत्त्व</p> <p>घटना दुरुस्ती तरतुदी</p> <p>महत्त्वपूर्ण घटना दुरुस्ती</p> <p>73, 74, 86, 101</p>

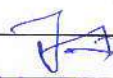
Signature of the Teacher

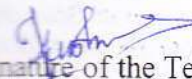
Principal
 Kam.A.M.Patil / Comm. &
 Kal Annaseheb P. Science
 College, Pimpri, Sakri (Dhule)
 Signature of the HOD/Principal

TEACHING PLAN - 2019-20

Class : F-4 B A Sem.: II Subject : Indian Government Paper Code : Pr/101 - A

Sr. No.	Month	Topics/Practical's
9)	Dec-19 Jan-2020	<p>भारतीय शासन (केन्द्र और राज्य)</p> <p>अ) केन्द्रीय कार्यकारी मंडल :- रचना, अधिकार, कार्य</p> <p>1) राष्ट्रपति 2) उपराष्ट्रपति 3) पंचमंडल 4) केन्द्रमंडल</p> <p>★ राज्यकार्यकारी मंडल :- रचना, अधिकार, कार्य</p> <p>1) राज्यपाल 2) मुख्यमंत्री 3) मंत्रिमंडल</p> <p>ब) केन्द्रीय कार्यदेहि मंडल :- रचना, अधिकार, कार्य</p> <p>1) लोकसभा 2) राज्यसभा 3) कार्यदेहि मंडल (युक्तिया)</p> <p>★ राज्यकेन्द्रमंडल :- रचना, अधिकार, कार्य</p> <p>1) विधानसभा 2) विधानपरिषद</p>
10)	Feb-2020	<p>भारतीय न्यायमंडल और धरणात्मक क्रिया</p> <p>अ) न्यायमंडल :- रचना, अधिकार, कार्य</p> <p>1) सर्वोच्च न्यायालय 2) उच्च न्यायालय</p> <p>3) न्यायालयीय पुनर्निर्माण 4) न्यायालयीय सक्रियता</p> <p>5) जनहित याचिका 6) न्यायालयीय सुधारण</p> <p>ब) धरणात्मक क्रिया :-</p> <p>1) महाधिवक्ता 2) महालेखापाल 3) लोकपाल</p> <p>4) लोकायुक्ता 5) निवृत्त न्यायालय</p>
11)	March-2020	<p>केन्द्र और राज्य संबंध और नागरिक सेवा</p> <p>अ) केन्द्र और राज्य संबंध :-</p> <p>1) वायदेहि मंडल</p> <p>2) प्रशासन विभाग</p> <p>3) केन्द्र-राज्य संबंध और संबंध</p> <p>ब) नागरिक सेवा :-</p> <p>1) संघ लोकसेवा आयोग</p> <p>2) राज्य लोकसेवा आयोग</p>

for 
Principal
Kam. A. M. Patil Arts, Comm. &
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Sr. College, Pimpri Chinchwad Tal. Sakri (Dhule)


Signature of the Teacher

Signature of the HOD/Principal

TEACHING PLAN - 2019-20

Class : S.Y.B.A. Sem.: III Subject : Reading of M. Gandhi Paper Code. : DSE-1A

Sr. No.	Month	Topics/Practical's
01	June - July 2019 (20 periods)	<p>म. गांधीजींचा प्रमुख संकल्पना</p> <ol style="list-style-type: none"> 1) जीवन परिचय - प्रभाव, वृत्तसंपदा 2) सत्य - अर्थ, प्रकार 3) अहिंसा - अर्थ, प्रकार, जागतिक शांततेसाठी अहिंसेची भूमिका 4) सत्याग्रह - अर्थ, प्रकार, तंत्र व साधने 5) विद्रोहसुत संकल्पना - अर्थ व वैशिष्ट्ये 6) हिंदू स्वराज्य, राष्ट्रवाद 7) स्वाध्यायसूचिना - साधने व साधने 8) मूल्यमापन
02	July - Aug 2019 (20 periods)	<p>म. गांधीजींचे राजकीय व सामाजिक विचार</p> <ol style="list-style-type: none"> 1) स्वतंत्रता संघर्ष, स्वराज्य आणि आंतरराष्ट्रीय विचार 2) स्वतंत्रता - अर्थ, तंत्र, महत्त्व 3) श्रम आणि स्वातंत्र्य 4) हिंदू-मुस्लीम एकता 5) नैतिकता 6) मूल्यमापन
03	Sept - Oct 2019 (20 periods)	<p>म. गांधीजींचे सामाजिक कल्याणक वंदीचे विचार -</p> <ol style="list-style-type: none"> 1) गांधीजींचे अस्वस्थता आणि जातीय एकता 2) गांधीजींचे महिला व शिशु कल्याण विचार 3) भांडवलवाद आणि समाजवाद 4) आरोग्य आणि स्वच्छता 5) कोमपरी, व्यापार, आपत्कालीन जमाने, श्रमकरोत्या व श्रमविहीन विचार 6) मूल्यमापन

Signature of the Teacher

Principal
Karn. A.M. Post Arts, Comm. &
Sci. Annasaheb Kore College, Sakri (Dhule)
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TEACHING PLAN - 2019-20

Class : S.M.B.A.S-2Sem. Subject : Reading of Dr. Ambedkar's Paper Code : DSE-1.B

Sr. No.	Month	Topics/Practical's
01	Dec. Sept. 2019 20 periods	<p>डॉ. अंबेडकर यांच्या मुख्य संकल्पनाः</p> <ol style="list-style-type: none"> 1) भारतीय समाजाचे पार्श्वभूमी, जात, वर्ण, जाति विरुद्धता 2) राज्यघटना आणि राज्यघटनावाद 3) सामाजिक विचार - समता, मुल्यज्ञान इ.क 4) सामाजिक न्याय - अस्पृश्यता (शरणार्थी समाज) 5) मांडवीचे स्वातंत्र्य, हिंदू कोड बिल 6) मुख्यमापन.
02	Jan - Aug 2020 Feb - 2020 20 periods	<p>राजकीय विचार व धार्मिक विचार</p> <ol style="list-style-type: none"> 1) इंदिरावादा, राज्य राज्यवाद 2) लोकशाही, स्थानीय लोकशाही 3) राज्यसमाजवाद 4) धर्मनिरपेक्षता, हिंदू धर्मसंबंधी विचार 5) बाधे धर्म आणि धर्मनिर 6) मुख्यमापन
03	Feb - Sept March 2020 20 periods	<p>डॉ. अंबेडकरांचे विचार</p> <ol style="list-style-type: none"> 1) शिक्षण विषयक विचार 2) कायद्यासंबंधी विषयक विचार 3) राजकीय पक्ष आणि वृत्तपत्र स्वातंत्र्य विषयक विचार 4) लोकसंख्या नियंत्रण आणि आर्थिक विचार 5) कृषि विषयक विचार 6) जलसिती विषयक विचार 7) मुख्यमापन.


Signature of the Teacher


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Signature of the HOD/Principal
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K.A. Annasheeb N.K. Patil Science
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TEACHING PLAN - 2019-20

Class : S.Y.B.A G-2 Sem.: III Subject : Introduction to Administration of Maharashtra Paper Code : DSC-1-C

Sr. No.	Month	Topics/Practical's
01	Jun - July 2019 20 periods	<p>महाराष्ट्राचे जोडखण :- 1) महाराष्ट्र पाश्चात्य - ऐतिहासिक, भौगोलिक, सामाजिक, आर्थिक आणि राजकीय. 2) महाराष्ट्र राज्य स्थापनेचा इतिहास 3) महाराष्ट्र सरकारचा ठळक वैशिष्ट्ये 4) महाराष्ट्र पुनर्रचिण प्रशासनिक विभाग आणि जिल्हे</p>
02	Augt - Sept 2019 20 periods	<p>राज्य सचिवालय (मंत्रालय) 1) परिचय आणि रचना 2) राज्य सचिवालयाचे कार्य आणि महत्व 3) राज्याच्या मुख्य सचिवाचे भूमिका 4) संचालनालय - वैशिष्ट्ये आणि कार्य</p>
03	Sept Oct 2019 (15 periods)	<p>जिल्हा प्रशासन :- 1) कार्य, महत्व 2) उद्देश आणि कार्य 3) जिल्हाधिकारी - अधिकार, कार्य, जिल्हाद्विभा-ब्रांचे स्वरूप (दजा) आणि बदलती भूमिका 4) कायदा आणि सुव्यवस्था - लाव, पध्दती आणि अधिकारणे.</p>


Signature of the Teacher

for 
Principal
 K. S. Annaseheb N. K. Patil
 St. College, Pimpalner Tal. Sakri (Dhule)

TEACHING PLAN 2019-20

Class : S.Y.B.A.G-2 Sem.: IV Subject : Introduction to Local & Dist. Ad. of Maharashtra Paper Code : DSC-1-D

Sr. No.	Month	Topics/Practical's
17	Dec-2019 (13 periods)	<p>महाराष्ट्रातील ग्रामिण आणि शहरी प्रशासन</p> <p>अ) ग्रामिण स्थानिक प्रशासन</p> <ol style="list-style-type: none"> 1) ग्रामिण प्रशासन - अर्थ, महत्व आणि ऐतिहासिक पार्श्वभूमी 2) ग्रामपंचायत - ग्रामसेवक भूमिका 3) पंचायत समिती - ग्रामविकास अधिकारी भूमिका 4) जिल्हा परिषद - मुख्यकार्यकारी अधिकारी भूमिका <p>ब) शहरी स्थानिक प्रशासन :</p> <ol style="list-style-type: none"> 1) शहरी प्रशासन - अर्थ, महत्व आणि ऐतिहासिक पार्श्वभूमी 2) नगरपालिका - मुख्यकार्यकारी अधिकारी भूमिका 3) महानगरपालिका - आयुक्त भूमिका 4) इतर शहरी स्थानिक स्थानिक प्रशासन - स्थानिक कार्य व इलेक्शन
18	Jan-2020 (16 periods)	<p>कायदा व सुव्यवस्था :</p> <ol style="list-style-type: none"> 1) अर्थ, महत्व, ऐतिहासिक पार्श्वभूमी 2) कायदा व सुव्यवस्था महत्व 3) जिल्हा पोलीस अधिक्षक - स्थान, कार्य व भूमिका 4) जिल्हा उप अधिक्षक - स्थान, कार्य व भूमिका
19	Feb-March 2020 (16 periods)	<p>महाराष्ट्रातील संवैधानिक व कायदेशीर विकास मंडळे :-</p> <ol style="list-style-type: none"> 1) आर्थिक विकास मंडळ 2) मराठवाडा वधानिक विकास मंडळ 3) म. फुल, अण्णासाहेब पाटील आणि अण्णासाहेब साठे विकास मंडळ 4) महाराष्ट्र अल्पसंख्याक विकास मंडळ

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TEACHING PLAN 2019-20

Class : T.Y.B.A.S.L Sem.: V Subject : Modesn Political Analysis Paper Code. : S-4

Sr. No.	Month	Topics/Practical's
01	(13 periods) Jun - July - 2019	राजकिय विश्लेषण :- अ) अर्थ, व्याख्या, स्वरूप आणि वैशिष्ट्य ब) परंपरागत राजकिय विश्लेषणाचे इतिहास क) आधुनिक राजकिय विश्लेषण :- उद्गम, अर्थ, स्वरूप आणि वैशिष्ट्य ड) पारंपारिक व आधुनिक राजकिय विश्लेषणातील फरक
02	Aug - Sept. 2019 (13 periods)	राजकिय व्यवस्था :- अ) अर्थ, व्याख्या आणि व्यापारी ब) राजकिय व्यवस्थेच्या रूपांतराच्या लक्षणांच्या संदर्भात रूबि एल कोल्डसचा इतिहास क) राजकिय व्यवस्थेची स्वरूपे ड) राजकिय व्यवस्थेचे वैशिष्ट्ये
03	Sep-2019 (13 periods)	राजकिय सामाजिकरण अ) अर्थ, व्याख्या, स्वरूप आणि वैशिष्ट्ये ब) राजकिय सामाजिकरणाची प्रक्रिया क) राजकिय सामाजिकरण घडविणारी माध्यमे ड) राजकिय सामाजिकरण आणि राजकिय संरक्षणी
04	Sep - Oct. 2019 (13 periods)	राजकिय संरक्षणी :- अ) अर्थ, व्याख्या, स्वरूप आणि वैशिष्ट्ये ब) राजकिय संरक्षणीचे आद्यारखून घटक क) राजकिय संरक्षणीचे आकार व स्वरूप प्रमाणे वर्गीकरण ड) राजकिय संरक्षणीत बदल घडवून आणणारी माध्यमे.

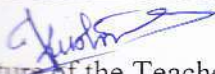
Signature of the Teacher

for
Principal
Kam.A.M. Patil, Comm. &
Sci. College, Pimpri Tal. Sakri (Dhule)
Signature of the HOD/Principal

TEACHING PLAN 2019-20

Class : TY B.A. 54 Sem.: Subject : Modern Political Analysis Paper Code : Sp1-4

Sr. No.	Month	Topics/Practical's
01	(13 periods) NOV. 2019 to DEC-2019	राजकिय सहभाग : अ) अर्थ, व्याख्या, रचकप आणि मद्देक ब) राजकिय सहभागावर प्रभाव पाडणार घटक क) राजकिय सहभागाच्या पातळ्या ड) राजकिय उदासिनता, राजकिय दोषकडुष्टी, व राजकिय जलगतत्व.
02	DEC-19 TO Jan-2020 (13 periods)	राजकिय इच्छोजन आणि राजकिय नेतृत्व : अ) राजकिय इच्छोजन : - अर्थ, व्याख्या, रचकप आणि वैशिष्ट्य ब) राजकिय इच्छोजन विभिन्न प्रकार आणि विविध स्तर क) राजकिय नेतृत्व : अर्थ, व्याख्या, रचकप ड) राजकिय नेतृत्वाच गुण आणि वैशिष्ट्य इ) राजकिय नेतृत्व आणि इच्छिमाज्यता ए) राजकिय नेतृत्व आणि विचारधारा
03	Jan-2020 Feb -2020 (13 periods)	राजकिय संसूचन : - अ) अर्थ, व्याख्या आणि कार्य ब) संसूचनच साधन क) वृत्त आणि प्रसरमाध्यमांची भूमिका ड) लोकमत ए) लोकमत घडवपाच प्रक्रिया ब) लोकमतमधील बदल.
04	March - April 2020 (13 periods)	राजकिय बदल, राजकिय विकास आणि राजकिय आधुनिकीकरण अ) राजकिय बदल : - अर्थ, व्याख्या आणि राजकिय बदलास कारणीभूत घटक. ब) राजकिय विकास : - अर्थ, व्याख्या, रचकप, मद्देक आणि राजकिय विकासाच विविध इष्टीकान क) राजकिय आधुनिकीकरण : - अर्थ, व्याख्या आणि वैशिष्ट्य, राजकिय आधुनिकीकरणाच महत्त्व, राजकिय आधुनिकीकरणाच इष्टधक.


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Sr. No.	Month	Topics/Practical's
1)	June 2019	* कथा - वाङ्मय प्रकाराची ओळख * कथा - संकल्पना व स्वरूप
2)	जुलै 2019	* कथेचे धडक - कथानक, व्यक्तिचित्रण, प्रसंगवर्णन, संघर्ष निवेदन शैली व भाषा * कथा या वाङ्मय प्रकाराचे अज्य वाङ्मय प्रकारातून निराळेपण * कथेच्या प्रमुख प्रकारांचा परिचय - स्फुट गोष्ट, लघुकथा, दीर्घकथा * मराठी कथेच्या वाङ्मयाची परिचय.
3)	ऑगस्ट 2019	* हमीद दलवाई यांच्या निवडलेल्या कथांपैकी 5 कथांची कथानके व त्या कथांमधील व्यक्तिचित्रणे - दहा शपथाची जोर, वावुरत्यानया ग्रीष्मफोन, जाहमद माणूस आणि गाढव धडपर या कथांवर विवेचन करणे.
4)	सप्टेंबर 2019	* हमीद दलवाई यांच्या निवडलेल्या कथांपैकी 5 कथांची कथानके व त्या कथांमधील व्यक्तिचित्रणे. -> कथानकोर, कोन्हा आणि कोन्हा (एक) अकल्पकारी अपूर्णाकाची गोष्ट, बेकार (पण कल्पवृक्ष) माणसाची गोष्ट खुदाई आणि
5)	ऑक्टोबर 2019	* हमीद दलवाई यांच्या निवडलेल्या दहा कथांमधील प्रसंगवर्णने व वातावरणनिर्माण * दहा कथांची निवेदनशैली व भाषाविशेष * दहा कथांमधील जीवचित्रण आणि संघर्ष * निवडलेल्या दहा कथांवर ट्यूटोरियल/अंतर्गत परीक्षा/सोमिंगार - 3 पूर्ण करणे.
6)	नोवेंबर 2019	सोमिंगार - 2 विशिष्ट वाङ्मय प्रकाराची ओळख - कविता - कविता या वाङ्मय प्रकाराची ओळख - कविता संकल्पना व स्वरूप, कवितेचे धडक - अनुभव, गाढ मध्य प्राणिमा, प्रतीक, कल्पना, रचना - कवितेच्या प्रमुख प्रकारांचा परिचय - - अ) प्रेम कविता (आशयविशेष व अभिव्यक्तीविशेष)
	डिसेंबर 2019	-
	जानेवारी 2020	ब) निरुपेक्ष कविता - (आशयविशेष व अभिव्यक्तीविशेष)
	फेब्रुवारी 2020	अ) सामाजिक जाणीवेच्या कविता (आशयविशेष व अभिव्यक्तीविशेष)
	मार्च 2020	क) राष्ट्रवादी कविता (आशयविशेष व अभिव्यक्तीविशेष) - उजळणी - लेखक - अखणी परीक्षा / सराव परीक्षा

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* कृषा आणि संवाद कौशल्ये यांचा अभ्यास *

TEACHING PLAN

Class : F.Y. B.S.C Sem.: Subject : choice B.C.S मराठी Paper Code. : AEC - मराठी

Sr. No.	Month	Topics/Practical's
1)	June 2019	* कृषा - वाढीमय प्रकाराची ओळख * कृषा - संरक्षण व स्वरूप
2)	July 2019	* कृषीचे धरण - कृषावले - व्याकीपित्रीय, प्रसंगवर्णन, संघर्ष, निवेदन शैली भाषा या संदर्भात विवेचन. * कृषा या वाढीमय प्रकाराचे अन्व वाढीमय प्रकारातून निराकरण * कृषेच्या प्रमुख प्रकारांचा परिचय - स्फुट गोष्ट - लक्ष्मी, दीर्घकृषा * मराठी कृषेच्या वाढीमय प्रकाराचा परिचय.
3)	August 2019	* व्यंजनेस मांडणी करून - यांच्या माणदारी माणस या कृषासंग्रहातील धर्म शोभाशी, शेता या कृषांची कृषावले व त्या कृषांप्रधील व्याकीपित्रीयांचा अभ्यास करणे. * नामा मांडणे व बसवावापूर या कृषांचा विवेचन करणे.
4)	September 2019	* संवादाच्या औपचारिक व अणुपचारिक प्रकारांचा परिचय - * संवाद कौशल्यासाठी आवश्यक वाक्यांचा परिचय -
5)	October 2019	* भाषण, सादरीकरण, presentation, वादविवाद, सूत्रांचा अभ्यास, गद्यचा या संवाद कौशल्याचा स्वरूप स्पष्ट करणे. * कृषा आणि संवाद कौशल्ये या प्रकारांचा - २यूटोरिअल / अंगीपरीक्षा सोमिंगार ३.

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'अवकाळी पावसाच्या दरम्यानची गोष्ट' - आनंदोत्सव
TEACHING PLAN

DSE - मराठी
9-A

Class : SYBA Sem.: 3 Subject : आधुनिक वाङ्मयप्रकार Paper Code : MAR-232

Sr. No.	Month	Topics/Practical's
1)	June 2019	* कादंबरी वाङ्मयप्रकाराचे स्वरूप व वैशिष्ट्ये जाणून घेणे * आधुनिक मराठी कादंबरीच्या वाट्याळीचा परामर्श घेणे * आधुनिक मराठी कादंबरी वाङ्मय प्रकाराचे धरणांशी या अनुषंगाने
2)	July 2019	* 'अवकाळी पावसाच्या दरम्यानची गोष्ट' या कादंबरीचे वाङ्मयीन गुणधर्म जाणून घेणे * 'अवकाळी पावसाच्या दरम्यानची गोष्ट' विवेचन * 'अवकाळी पावसाच्या दरम्यानची गोष्ट' विवेचन
3)	August 2019	* 'अवकाळी पावसाच्या दरम्यानची गोष्ट' कथानक व व्यक्तिगत व्यक्तीरेखण * 'अवकाळी पावसाच्या दरम्यानची गोष्ट' कादंबरीतील प्रसंगचित्रण व समावेशकताविषयीचे विवेचन * 'अवकाळी पावसाच्या दरम्यानची गोष्ट' लेखन * 'अवकाळी पावसाच्या दरम्यानची गोष्ट' लेखन
4)	September 2019	* 'अवकाळी पावसाच्या दरम्यानची गोष्ट' या कादंबरीची विवेचनपध्दती व भाषाशैली - विवेचन * 'अवकाळी पावसाच्या दरम्यानची गोष्ट' या कादंबरीतून घडणारे सामाजिक-सांस्कृतिक बदल व व्यक्तिगत संघर्ष
5)	ऑक्टोबर 2019	* यूरोपियन / अंतर्गत परीक्षा व समीक्षा
6)	नोव्हेंबर 2019	सत्र - 8 आधुनिक वाङ्मयप्रकार कविता - - कविता स्वरूप व वैशिष्ट्ये - आधुनिक मराठी कवितेची वाट्याळ / स्वातंत्र्यपूर्वकाळातील कविता आणि स्वातंत्र्योत्तर काळातील कविता परामर्श
7)	डिसेंबर 2019	- 'माझे विद्यापीठ' या संग्रहातील कवितेतून घडणारे काळजाक विखुरलेले संघर्ष - 'माझे विद्यापीठ' या संग्रहातील कवितेतून व्यक्त होणारी भावभावना
8)	जानेवारी 2020	- 'माझे विद्यापीठ' या संग्रहातील कवितेतून व्यक्त झालेली महावगरीय गुणधर्म
9)	फेब्रुवारी 2020	'माझे विद्यापीठ' या संग्रहातील कवितेतून घडणारे स्त्री संघर्ष - 'माझे विद्यापीठ' या संग्रहातील कवितेची भाषा व काव्यरचना विवेचन
10)	मार्च 2020	- परत 'माझे विद्यापीठ' ची उजळणी लेखक - सशय परीक्षा / यथार्थ सत्रे -

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TEACHING PLAN

Class : T.Y.B.A Sem.: 5 Subject : भाषा विज्ञान - 5.4 Paper Code. : MAR-354

Sr. No.	Month	Topics/Practical's
1)	June 2019	* भाषा: स्वरूप आणि कार्य यांचा अभ्यास करणे. * भाषिक संदेशन प्रक्रिया व प्रकारांचा अभ्यास करणे.
2)	July 2019	* भाषा विज्ञानाच्या अभ्यासपध्दती - ऐतिहासिक - वर्गीकृत यांचा अभ्यास करणे. लेखन करणे.
3)	August 2019	* स्वतंत्र स्थानकाय? आणि स्वतंत्र संकल्पना समजून घेणे. * वाग्निप्रियाची रचना व कार्यचा अभ्यास करणे. * स्वतंत्र संकल्पना, स्वतंत्र - स्वतंत्र - स्वतंत्र : परस्पर संबंधांचा अभ्यास * स्वतंत्र निष्पत्तीची ताचे, स्वतंत्र विनिर्माणे प्रकार समजून घेणे. * लेखन करणे, मराठीची स्वतंत्र व्यवस्था समजून घेणे.
4)	September 2019	* स्वतंत्र संकल्पना, स्वतंत्र - स्वतंत्र - स्वतंत्र : संबंध समजून घेणे. * स्वतंत्राची प्रकाश अभ्यास करणे. * स्वतंत्राची प्रकाश अभ्यास करणे.
5)	October 2019	* वाक्य व अर्थविचार समजून घेणे. * वाक्यविचार : प्रयोगात्मक संघटन पध्दत * वाक्यविचाराने प्रकाश व विश्लेषण समजून घेणे * अर्थाने स्वरूप समजून घेणे. * अर्थाने स्वरूप, अर्थप्रतीमा, शब्दाने विविध अर्थ, अर्थित संकल्पना.
6)	November 2019	* शब्दांच्या जाती व उपभोजन * शब्दांच्या जाती : विकारी - अविकारी (उपप्रकारांसह) * विकारी : विकारी प्रकार आणि विकारी प्रत्यय
7)	December 2019	* प्रयोग करणे / कर्मणी, शब्द * वाक्य व अर्थ उपभोजन : वाक्य वाचनकार, शब्दकार, अर्थकार.
8)	January 2020	* अर्थ :- स्वाधी, आशाधी, विद्यधी, लोकाधी
9)	February 2020	* वाक्यार्थ प्रकार व उपभोजन - वाक्याचे प्रकार, केवळवाक्य, मिश्रवाक्य संयुक्त वाक्य
10)	March 2020	* वाक्य संश्लेषण - केवळवाक्य व लुप्त, मिश्र वाक्य व लुप्त, संयुक्त वाक्य व लुप्त * वाक्यकार, शब्द व पारिभाषिक शब्द उपभोजन * वाक्यकार, स्वरूप, अर्थ व उपभोजन * शब्द - स्वरूप अर्थ व उपभोजन * पारिभाषिक शब्द - स्वरूप व उपभोजन

Signature of the Teacher

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Sr.College,Pimpalner Tal.Sakri (Dhule)

TEACHING PLAN

Class : S.Y.B.A Sem.: 3 Subject : लेखन कौशल - मुद्रित Paper Code. : MAR-234

Sr. No.	Month	Topics/Practical's
1)	June 2019	* मुद्रित शोधन : स्वरूप आणि प्रक्रिया
2)	July 2019	* मुद्रित शोधन म्हणजे काय ? * मुद्रित शोधनाची उपभोगाची क्षेत्रे आणि या कौशल्याची आवश्यकता (मुद्रित व इ-इ-साध्य माध्यम, ग्रंथनिर्मिती, नियतकालिक संपादन इ. इत्यादी) (मधील मुद्रित शोधनाची आवश्यकता)
3)	August 2019	* मुद्रित शोधनाच्या खुला, व्यांघ आणि व्यांघ उपभोग * मराठी विरादाचिन्ह आणि लेखन विषयक नियम यांचे मुद्रित शोधनातील महत्त्व
4)	September 2019	* मुद्रित शोधन : उपभोग - * तुमच्या परिसरातील एखादी प्रकाशन संस्था / प्रकाशक / वृत्तपत्र / नियतकालिक / लेखक यांची भेट घेऊन त्यांच्या इच्छातील मुद्रित शोधनाचे स्वरूप, आवश्यकता आणि समस्या यांच्याबद्दल वृत्तपत्र
5)	October 2019	* विमान पाचवे शब्दांचे दोन गद्य आणि निवडून घ्यातील विरादाचिन्ह ओळखणे त्यांची प्रकाशागुणां याची न्याय करणे. * ट्यूटोरिअल / अंतर्गत परीक्षा / सोमेवार घेणे.
6)	November 2019	* सर्जनशील लेखन स्वरूप आणि प्रक्रिया - सर्जनशील लेखन व व्यावहारिक लेखन यातील फरक - कथालेखन : निर्मिती प्रक्रिया (कथाबोध, कथानक - दृश्या व प्रसंगांची गुणवत्ता, व्यक्तिचित्रण, वातावरणनिर्मिती, निवडणे सवाह आणि धरणांची माहिती)
	डिसेंबर 2019	* नाट्य लेखन : निर्मिती प्रक्रिया (विषयसूत्र, कथानक - प्रसंगांची गुणवत्ता, पात्रनिर्मिती व चित्रण, स्थळकालानुसार, नाट्य संवाद, प्रयोगाद्वारा अदि धरणांची माहिती)
	जाने 2020	* सर्जनशील लेखन करताना येणाऱ्या समस्यांचे निराकरण
	फेब्रुवारी 2020	* सर्जनशील लेखन : उपभोग - - एखादी कथा / प्रसंग / अनुभव / कालना यांना केंद्रस्थानी घेऊन कथालेखन करा. - एखादी अनुभव स्वतःच्या शैलीत कथा करा. - वर्गातील पाच विद्यार्थ्यांचा एक गट तयार करा. - ज्यात प्रत्येक गटस्थाला एक विषयसूत्र मिळेल व त्यात त्याच्या आधारे संपादन लेखन करा. - एखाद्या संपादकीय विषयावर पद्यनामक / विवेचनात्मक (जमनीला स्वरूप लेखन करा)
	मार्च 2020	

Signature of the Teacher

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* विज्ञान कथा आणि नोंद लेखन - AECC-1

TEACHING PLAN

Class : S.Y.B.Sc. Sem.: 3 Subject : विज्ञान कथा-नोंद लेखन Paper Code : AECC-1

Sr. No.	Month	Topics/Practical's
1)	June 2019	* विज्ञान कथा या कथाप्रकाराचा परिचय करून देणे. * विज्ञान कथा म्हणजे काय? तीची घटककांणे समजून घेणे.
2)	July 2019	* विज्ञानाच्या क्षेत्रातील विविध विषयांवाला मराठीतून लेखन करण्याची प्रोत्साहन करणे. * नैसर्गिक संज्ञा - संज्ञाप्रकारांवाला विज्ञानकोशातून नोंद लेखन करण्याची नोंद आत्मसात करणे. * विज्ञानाच्या क्षेत्रातील विविध विषयावर लोकप्रयोगी लेखन करून घ्यावे. कौशल्य जाणून घेणे.
3)	August 2019	* विज्ञान कथेचे स्वरूप - विज्ञान कथेची वैशिष्ट्ये इ.चे विवेचन करणे. * कथांक, व्याकीचिह्ने, नैसर्गिकता, व्यापकता, संवाद - जाणार्थता आणि मुख्यतः आधार - डिमिटरि - व्यापकता, महत्त्वात्मकता या कथांचे विवेचन.
4)	September 2019	* विज्ञान कथा एक वाङ्मयप्रकार विवेचन करणे. * लेखन करणे. * 'वि 6 वि 6 पोपट' - युकोथ जालेकर यांच्या कथेचे विवेचन करणे.
5)	October 2019	* लेखन करणे. * 'रेखा वजल यांच्या 'ममी रेखा' यांच्या कथेचे विवेचन. * व्युत्पत्ती/अंतर्गत परीक्षा/समीक्षा घेणे.
सोमि 2020		
6)	November 2019	* विनोदी कथा स्वरूप व वैशिष्ट्ये - विनोदी कथेचे स्वरूप/विनोदी कथेची वैशिष्ट्ये/संवाद/जाणार्थता
7)	December 2019	* 'गुंडाभाऊने दुखले' - चि. वि. जोशी - लेखन - लेखन - सशिव परीक्षा.
8)	January 2020	* जा 203 - शंकर पाटील - लेखन - लेखन - सशिव परीक्षा
9)	February 2020	* 'मैस' - यु. ल. देशपांडे - लेखन - लेखन - सशिव परीक्षा
10)	March 2020	* शाहीद द सच - मंगल गोडबोले - लेखन - सशिव परीक्षा

Signature of the Teacher

Signature of the HOD/Principal
Karm.A.M.Patil Arts, Comm. & Science
Sr.College,Pimpalner Tal.Sakri (Dhule)

Pimpalner Education Society's

**Karm. A. M. Patil Arts, Commerce & Kai. Annasaheb
N. K. Patil Science Senior College Pimpalner, Tal.- Sakri,
Dist.- Dhule.**



NAAC Reaccredited 'B' Grade

TEACHER'S DIARY

ACADEMIC YEAR : 2019 - 2020

Name : Dr. Ram Kashinath Petare

Designation : Asso. Professor.

Department : Zoology



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Science Senior College Pimpalner, Tal.- Sakri, Dist.- Dhule.



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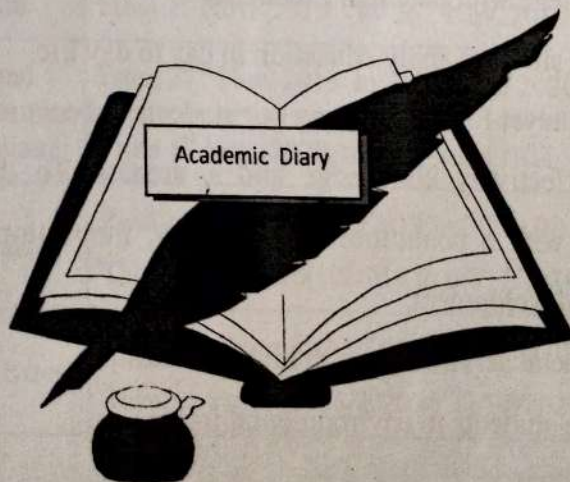
TEACHER'S DIARY

ACADEMIC YEAR : 2019 - 2020

Name : Dr. Ram Kashinath Petare

Designation : Associate Professor

Department : Zoology



TEACHING PLAN

Class : F.Y.B.Sc. Sem.: I Subject : Animal Diversity II Paper Code. : Z00-102

Sr. No.	Month	Topics/Practical's
	June 19 2019	<u>Unit-1: Protochordates.</u> General features and phylogeny of Protochordata
	July 19 2019	<u>Unit-2: Agnatha</u> General features of Agnatha and classification of cyclostomes up to classes.
	July 2019	<u>Unit-3: Pisces</u> General features of Pisces and classification up to orders, osmoregulation in fishes.
	Aug. 2019	<u>Unit-4: Amphibia</u> General characters and classification up to orders. Metamorphosis in frog. Parental care.
	SEP 2019	<u>Unit-5: Reptilia</u> General characters and classification up to orders. Extinct reptiles, poisonous and non-poisonous snakes. Biting mechanism in snakes.
	SEP. 2019	<u>Unit-6: Aves</u> General features and classification up to orders. Flight Adaptation in birds.
	OCT. 2019	<u>Unit-7: Mammals.</u> classification up to orders; origin of mammals.

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TEACHING PLAN

Class : T.Y.B.Sc. Sem.: I Subject : Histology & Physiology Paper Code. : ZOO-353

Sr. No.	Month	Topics/Practical's
	June 2019	Unit-1: Introduction, concept of Histology & Physiology,
	July 2019	Unit-2: Histology of tissue. - Tissue, Types of tissue and structure. - Physiology: Muscle contraction, stimulation.
	July 2019	Unit-3: Skin & Thermoregulation. - Histology of Skin, Derivatives. - Physiology - Thermoregulation & control.
	July 2019	Unit-4: Digestive system - Histology - Histology of Alimentary canal and associated digestive glands. - Physiology - Digestion - oral Gastric, intestinal digestion. - Definitions - Ulcer, constipation, colitis, Cirrhosis.
	Aug 2019	Unit-5: Respiratory system- - Histology - Trachea & Lungs - Physiology - Mechanism of Respiration, transport of gases, chloride shift, RQ, Nervous Control. - Definitions: - Acidosis, Alkalosis, Asphyxia, Anoxia, hypoxia.
	Sep 2019	Unit-6: Circulatory system- - Histology - Blood vessels, Blood. - Physiology - Heart, beat, Cardiac cycle, Blood pressure, Pacemaker, Neurogenic myogenic hearts, Blood clotting.
	Oct. 2019	- Definitions - Echo Echo cardiogram, Color Dopler, Angiography, Arterio ptery.

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TEACHING PLAN

Class : S.Y.B.Sc. Sem. : II Subject : Genetics Paper Code. : ZOO-401 (CBCS)

Sr. No.	Month	Topics/Practical's
	Nov. 19	<p><u>Unit-1: Introduction to Genetics</u></p> <ul style="list-style-type: none"> - Mendell's work on transmission of traits. - Genetic Variation, Molecular basis of Genetic information
	Dec. 2019	<p><u>Unit-2: Mendelian Genetics and it's Extension</u></p> <ul style="list-style-type: none"> - principle of inheritance, chromosome theory of inheritance, incomplete dominance, co-dominance, Polygenic inheritance, Multiple alleles, Lethal genes, Epistasis, pleiotropy sexlinked inheritance, extra chromosomal inheritance
	JUN 2020	<p><u>Unit-3: Linkage crossing over and chromosomal mapping.</u></p> <ul style="list-style-type: none"> - linkage & crossing over, - Recombination frequency as measure of linkage intensity two factor & three factor crosses. - Definition of gene mapping.
	Feb 2020	<p><u>Unit-4: mutations.</u></p> <ul style="list-style-type: none"> - chromosomal mutations: deletion, Duplication, Inversion, Translocation, Aneuploidy polyploidy - Gene Mutation versus spontaneous mutations
	March 2020	<p><u>Unit-5: Sex determination chromosomal methods of sex determination</u></p>

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Topics/Practical's

Sr. No.	Month	Topics/Practical's
	Nov. 2019	<p><u>Unit-1: study of scoliodon</u></p> <ul style="list-style-type: none"> - systematic position, Habitat & Habitat. - External characters - shape, size, colour, division of body. - skin and its derivatives - Locomotion. - Coelom.
	Nov. & Dec. 2019	<p><u>Unit-2: Internal structure of scoliodon</u></p> <ul style="list-style-type: none"> → <u>Digestive system</u>: Alimentary Canal and its associated digestive glands. → <u>Respiratory system</u>: Respiratory organs, Respiratory mechanism & physiology. → <u>Circulatory system</u>: Blood, Blood vessels & Heart. Arterial & venous system. → <u>Nervous system</u>: central, peripheral and autonomous nervous system sense organs.
	Jan. 2020	
	Feb. 2020	<ul style="list-style-type: none"> → <u>Urogenital system</u>: male and female urogenital system, copulation, fertilization & development.
	March 2020	<p><u>Unit 3 - General topics - Comparative Study of -</u></p> <ul style="list-style-type: none"> - Skin - Heart - Aortic arches - Kidney - Brain.
		= Total <u>5949</u> Periods

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TEACHING PLAN

Class : To.Y.B.Sc Sem.: II Subject : Histology & physiology Paper Code. : 200-363

Sr. No.	Month	Topics/Practical's
	Dec-2019	Unit:1 - Excretory system and excretion.
	Nov-2019	<ul style="list-style-type: none"> - Definition of excretion, - Histology of kidney microscopic structure of uriniferous tubule, J.G apparatus - Physiology of urine formation. ultrafiltration, selective reabsorption and tubular secretion, counter current mechanism of urine concentration. - Definitions.
	Jan. 2020	Unit - Nervous system. <ul style="list-style-type: none"> - Meninges of brain. - spinal cord - structure & functions. - Origin and conduction of nerve impulse. - Ultra structure & functions of synapse. - Definitions. - Sense organs - Eye & ear: structure & functions.
	Feb 2020	Unit - Reproductive system <ul style="list-style-type: none"> - Histology of testis - microscopic structure of seminiferous tubules, Male sex hormones & physiological role. - Histology of ovary - microscopic structure of ovarian follicle - female sex hormones & physiological role. - Reproductive cycles - Oestrous & Menstrual cycle. - Definitions.
	March.	Unit - Endocrine system. <ul style="list-style-type: none"> - Pituitary gland - structure and functions, - Thyroid gland - — — — — — — - Adrenal gland — — — — — — - Pancreas — — — — — — - Feedback mechanisms - positive and Negative feedback mechanism.

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TEACHING PLAN

Skill Enhance Course

Class: Soy. B.Sc Sem.: II Subject: Medical Diagnostics Paper Code.: Z00-104
Skill Enhancement

Sr. No.	Month	Topics/Practical's - (20 periods)
	<u>DEC-2019</u>	
1	<u>NOV 2019</u>	<u>Unit-4: Non-infectious Diseases -</u> (Coop.) - Definition & concept. - Types of Non-infectious diseases. - Symptoms, Diabetes - types, symptoms, diagnosis, prevention.
	<u>DEC-2019</u>	<u>Unit-4 -</u> (07 periods) - Hypertension - primary & secondary symptoms of - Sympto hypertension. - Causes, diagnosis, complications, prevention. - Testing of blood glucose. <u>Unit-5: Infectious diseases -</u> - Infectious diseases - Definition & concept - Causes. (A) Tuberculosis - Causes, types, symptoms, diagnosis and prevention. (B) Hepatitis - Causes, types, symptoms, diagnosis and prevention.
	<u>JAN-2020</u>	<u>Unit-6 - Tumours</u> (09 periods) -- Definition, - Types of Tumours, - Diagnosis, - Medical Imaging - X-ray of bone fracture, PET, MRI, CT scan using photographs.
		N.B. Unit 1, 2 & 3 were taught will teach by Dr. BC. Mohan

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2019-20

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Kai. Annasaheb N. K. Patil Science Senior College,**
Pimpalner, Tal.- Sakri, Dist.- Dhule.



NAAC Reaccredited 'B' Grade

TEACHER'S DIARY

ACADEMIC YEAR : 2019 - 2020

Name : PROF. S. K. KAKAD

Designation : Associate Profssor in Geography

Department : Dept. of Geography



2019-20

Pimpalner Education Society's

Karm. A. M. Patil Arts, Commerce & Kai. Annasaheb N. K. Patil
Science Senior College Pimpalner, Tal.- Sakri, Dist.- Dhule.



NAAC Reaccredited 'B' Grade

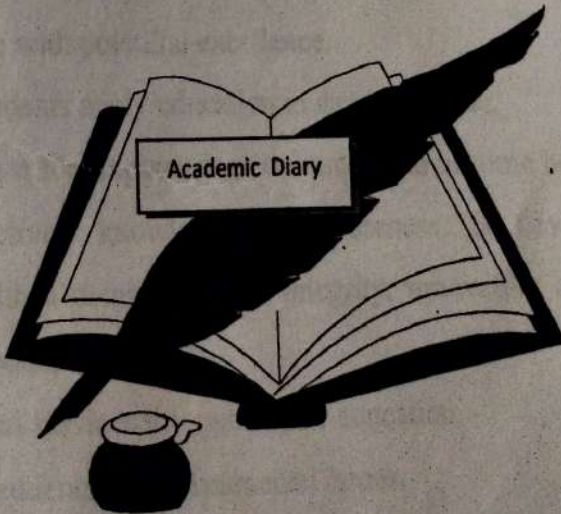
TEACHER'S DIARY

ACADEMIC YEAR : 2019 - 2020

Name : PROF. KAKAD SHIVAJI KISAN

Designation : Assot. Professor in Geography

Department : Dept. of Geography



**** SEMESTER PATTERN TEACHING PLAN ** (Year - 2019 - 2020)**

Semester - I (From 15th Jun, 2019 to 31st Oct. - 2019)

New Syllabus : Coce Based Credit System (CBSC) : From : June 2018

Physical Geography Paper - I (Lithosphere) (60+40 Pattern)

F.Y.B.A.

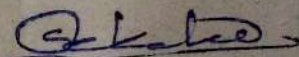
**** Name of the teacher :- S. K. Kakad**

Subject :-
 Class :-

Sl. No.	Month & Year	Topics / Units to be taught	Sub - Topics / Units to be taught	Periods	Total Periods	Remarks
1	Jun-19	Topic No. 1 Imaginary Lines and Movement of The Earth	Syllabus Writing & Introduction to subject	1	7	
			A. Imaginary Lines i. Parallels of Latitudes - Equator, Tropic of Cancer & Capricorn, Artic, Antarctica Circles and Poles.	6		
2	July - 2019		ii. Meridians of Longitudes - Prime Meridian	4	14	21
			B. Movement of The Earth i. The Earth Axis	2		
			ii. Rotation of the earth and it's effects	4		
			iii. Revolution of the earth and its effects	4		
3	Aug. - 2019	Topic No. 2 Origin of Oceans and Continents	A. Wager's Continental Drift Theory and Interior of the Earth		3	
			i. Salient feature of distribution of Continent and Oceans. Continental Drift Theory	3		
			a) Basic Concept b) Evidences c) Criticism	3		
			ii. Interior of the earth Crust, Mantle, Core and their minor details	3		
			B. Rocks and Earthquake and Volcanoes			
		i. Definition, Classification and Characteristics of Rocks	1	14	21	
		a) Igneous Rocks	3			
		b) Sedimentary Rocks	2			
		c) Metamorphic Rocks	1			
4	Sept - 2019		Test - I	1	4	
			ii. Causes & effects of Earthquake with examples.	2		
			iii. Volcanoes - Types, Causes, effects	2		
5	Octo. - 2019	Topic No. 3 Weathering and Work of Geomorphical Agents	A. Weathering		14	
			i. Definition	1		
			ii. Types of weathering i. Mechanical ii. Chemical iii. Biological	5		
			B. Work of Geomorphical Agents			
		a) River - Erosional landforms of river :	4	4		
		i. V shaped Valley, ii. Pot holes, iii. Gorge iv. Rapid, v. Waterfall				
		b) River- Depositional Landforms of river	4	14		
		i. Meanders, ii. Ox-Bow lakes, iii. Flood Plains iv. Levees, v. Deltas				
6			c) Winds, Erosional landforms of wind	3	6	20
			i. Blow-out or Deflation, ii. hollows, iii. Mushroom Rock,, iv. Yardangs, v. Zeugen, vi. Inselburgs.			
			d) Depositional landforms of wind - Sand Dunes, Bharkhans and Loess.	3		
		Seminar/Oral Exam	Seminar/Oral	4		
	Oct - 2019. & Nov. 19	Exam.	College Internal Exam.	7	7	11
		Examination	University Exam.			
		Vacation	Dipawali Vacation			

Principal

Signature of Principal/HOD
 K.A.M. Patil Arts, Comm. &
 Kai. Annasaheb N. K. Patil Science
 Sr. College, Pimpalner, Sakri (Dhule)


 Signature of teacher.

SEMESTER PATTERN TEACHING PLAN (Year - 2019-20)
 (Semester - III) (From 15th Jun 2019 to 31st Oct 2019)

Subject :- **General Cartography (DSC1 C)**

Paper No. :- **Gg. 231 (DSC) G2.**

Class :- **S.Y.B.A.**

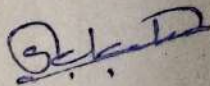
Name of the teacher :- **Prof. S. K. Kakad**

Sr. No.	Month & Year	Topics / Units to be taught	Sub - Topics / Units to be taught	Periods allotted	Total Periods	Remarks
1	June - 2019.	UNIT No. 01. Practical Component	Syllabus writing & subject Introduction	2		
			A) Representation of Data: Symbols, dots, Choropleth, Isopleths and Flow Diagram.	1		
				3	6	
2	July - 2019.		B) Practical Component	3	3	9
		UNIT No. 02. Introduction of cartography And Maps	(A) Define the cartography	} 2		
			(B) Explain the history of cartography in modern India			
			(C) Types of Map			
			(i) Thematic Map	1		
			(ii) Topological Map	1		
			(D) Elements Map	2		
			(E) Uses of Maps in various fields	1	7	7
		UNIT No. 03. Maps & Scale	(A) Definition of scale	} 1		
			(B) Methods of representing of scale			
			(a) Numerical Scale (b) verbal Scale	1		
			(c) Graphical Scale	1		
			(C) Conversion Scale : British & Metric System	2		
			(D) Conversion of Nautical Mile in feet and Meters	1		
			* TEST No. 01	1	7	7
3	Aug - 2019	UNIT No. 04. Map Projection	(A) Introduction	1		
			(i) Definition of map & globe			
			(ii) Definition of map projection			
			(B) Classification of map projection (according to constructional approach)	2		
			(i) Perspective projection			
			(ii) Non- perspective projection			
			(C) Criteria for choice of following projections			
			a) Developable Surface			
			b) Source of Light			
			c) Position of Developable Surface Projections			
			i, Zenithal Gnomonic projection			
			ii, Zenithal stereographic projection			
			iii, Cylindrical equal area Projection			
			iv, Conical Projection with one standard parallel			
			v, Bonne's projection			

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	Aug - 2019		(D) Properties & Uses of following projection i, Zenithal Gnomonic projection ii, Zenithal stereographic projection iii, Cylindrical equal area Projection iv, Conical Projection with one standard parallel v, Bonne's projection	2		
4	August, September, October 2019	Topic No. 01	B) Practical Component (Every candidate shall complete the 04 practicals) 1. Reading of Map Scale 2. Actual measurements of land as per scale 3. Draw a simple graphical Scale 4. Map labeling 5. Draw the major parallels of latitudes on the world map 6. Draw the major meridians of longitudes on the world map 7. Draw the great circle on the map 8. Prepare a one air route on a world map 9. Filling the major city/canal/capital on the world map 10. Draw the weather symbols 11. Prepare star diagram 12. Draw the cylindrical equal area projection 13. Draw the combined line and bar graph 14. Construct the conical projection 15. Interpretation of thematic map 16. Analyzed of weather data 17. Criteria of forecasting of weather	27	7	7
5	Oct - 2019 Nov. 2019	Examination	Internal Exam.	27		27
			University Exam Start			
		Vacation	Dipawali Vacation - 1st Nov. to 25th Nov.			

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Principal
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Kai.Annasaheb N.K.Patil Science
Sr.College,Pimpalner Tal.Sakri (Dhule)


Signature of Subject teacher.

**** SEMESTER PATTERN TEACHING PLAN ** (Year - 2019 - 2020)**

Semester - **V** (From 15th Jun. 2019 to 31st Oct.- 2019.)

Subject :- **Population Geography**

**** Paper No. :- Gen. 3.**

(60+40)

Class :- **T.Y.B.A.**

**** Name of the teacher :- Prof. S. K. Kakad**

Sr. No.	Month & Year	Topics / Units to be taught	Sub - Topics / Units to be taught	Periods	Total Periods	Remarks
1	Jun.- 2019	Topic No. 1 Introduction (Nature, Scope of Population Geography and Population Data)	Syllabus Writing & Introduction	1	6	
			1. Definitions, Nature and Scope of Popul. Geog	5		
2	July. 2019		2. Need and Types of Population Data a) Primary data b) Secondary data	3	7	13
			3. Sources of Population Data a) Census b) National Sample Survey	2		
3	Aug.- 2019	Topic No. 02 Population Dynamics (Density, Distribution, Affecting Factors of Population and Population Composition)	4. Problems related to collection and utilization of population data	2	8	
			1. Definition and Types of Density of Population : a) Arithmetic Density b) Agriculture Density c) Economic Density d) Critical Density	3		
4	Sept.- 2019	Topic No. 03 Demographic Attributes (Human Migration and Theories of Population Growth)	2. Distribution of Population: World & Indian Scenario.	3	9	
			3. Factors Affecting the Distribution of World Population: a) Physical Factors: Location, Topography, Climate, Soil, Water availability, Forest.	2		
5	Oct.- 2019	Topic No. 04 Population Policies from 2015 and Current Issues	b) Cultural Factors: Religion, Economic Development, Transportation, Govt. Policies, Agriculture and Political setup.	3	10	
			4. Population Composition: Age and Sex, Rural-Urban & Economic	2		
6	Oct & Nov. 2019	Examination	TEST I	1	9	17
			1. Definition and Classification, of Migration	4	8	17
	2. Measures of Population, Fertility, Mobility and Mortality, Marital Status	5				
			3. Theories of Population a. Malthus: Population Theory	4		
			b. Demographic Transition Model (DTM)	4		
			1. Population Policies in the Context of Growth, Structure, Distribution & Quality Life	5		
			2. National Population Policies in India (from 2015)	5		
			3. Current Issues and Problems of Population in India: a. Decreasing Sex Ratio and its Impact on Society	2		
			b. Excess Urbanization and Pollution Problems	2		
			c. Brain Drain of Human Resource	2		
			TEST -II	1	7	17
			Revision of Syllabus	6	6	6
			Revision & Internal Exam in IInd week	7		7
			University Exam Start from last week of March			

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Principal
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Kai. Anasaheb N. K. Patil Science
Sr. College, Pimpalner, Tal. Sakri, (Dhule)

Signature of teacher.

SEMESTER PATTERN TEACHING PLAN : 2019 - 2020.
(Semester - 1) (From 15th June 2019 to 31st Oct. 2019.)

Subject :- **Geography of Disaster Management - I**
Class :- **F.Y.B.Com.**

(60+40 Pattern)

** Name of the teacher :- **S. K. Kakad**

Sl. No.	Month & Year	Topics / Units to be taught	Sub - Topics / Units to be taught	Periods	Total Periods	Remarks	
1	2	3	4	5	6	7	
1	June - 2019.	UNIT - 01. Introduction	Syllabus Writing	1	5		
	i) Meaning, of Disaster & Its Management		1				
ii) Nature of Disaster	2						
2	July - 2019.		iii) Characteristics of Disaster	1	5		
			iv) Classification of Disasters	1			
	v) Importance of Disaster Studies	1	5	10			
	vi) Aims & Objectives of Disaster Studies	1					
	vii) Difference bet'n accidents & disasters	2					
			UNIT - 02. Geo-physical Disaster	Causes, Effects and Management (Pre, During, Post) of following Disasters.		12	12
				i) Earthquake	3		
ii) Land Slide				3			
iii) Tsunami				2			
iv) Landslide and Mining				2			
v) Volcanic Eruption				2			
3	Aug.- 2019	UNIT - 03. Atmospheric Disaster	Causes, Effects and Management (Pre, During, Post)of following Disasters.		13	13	
			i) Cyclone	3			
			ii) Floods	2			
			iii) Drought	3			
			iv) Lighting	2			
	v) Hailstorms	2					
	Test -	TEST - I	1				
	4	Sept.- 2019.	UNIT - 04. Man Made Disaster	Causes, Effects and Management (Pre, During) of following Disasters.		7	11
				i) Fire - Building fire, Coal fire, Oil fire and forest fire	2		
				ii) Terrorism	2		
iii) Accidents - Road accidents, Rail, accidents, Water accidents, and Air accidents				3			
iv) Wars				2			
v) Chemical disast	1						
Test -	TEST - II	1					
		UNIT - 05. House Hold Disasters	Causes, Effects and Management (Pre, During, Post) of following Disasters.		8	8	
			i) Gas Cylinder Explosion	2			
			ii) Short Circuits	2			
			iii) Snake & Dog Bite	2			
			iv) Electric Shock	2			

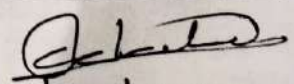
**** SEMESTER PATTERN TEACHING PLAN **** (Year - 2019 - 2020.)
 (Semester - II) (From 26th Nov.2019 to 30th April - 2020)

Subject :- Physical Geography Paper - II * Paper No. :-
 Class :- F.Y.B.A.

** Name of the teacher :- S. K. Kakad

Sr. No.	Month & Year	Topics / Units to be taught	Sub - Topics / Units to be taught	Periods	Total Periods	Remarks
1	Nov.- 2019	Topic No. 01. Atmosphere And Insolation	Syllabus Writing & Introduction to subject A) Origin Composition and Structure of Atmosphere :- i) Introduction, Meaning of Atmosphere ii) Composition of Atmosphere	1 1 2	4	
2	Dec.- 2019		iii) Structure of Atmosphere: i) Troposphere ii) Stratosphere iii) Ionosphere etc B) i) Insolation - Definition ii) factors affecting the insolation a) Angle of the sunrays b) Length of the days c) Distance between earth and sun d) Effect of atmosphere iii) Temperature- Horizontal and vertical Test - I	6 1 6 3 1	6 11	21
3	Jan.- 2020	Topic No. 02. Atmosphere Pressure and Winds, and Atmospheric Moisture	A) Pressure Belt and Winds :- I) Measurement of Atmospheric pressure II) Definition of Isobars III) Formation of Pressure Belts IV) Shifting of Pressure Belts & their effects ** Geograpy Day - i) Geographical Tour ii) Geographical G.K. Competitions II) Winds :- Types of Wind :- i) Planetary winds ii) Monsoon winds iii) Land and sea breezes B) Humidity and Precipitation I) Defination & Types of Humidity :- (a) Absolute Humidity b) Relative Humidity II) Forms of Precipitation Fog, Dew, Frost, Hail, Rain, Snowfall	1 1 1 2 1 1 3 1 1 3 2	11 6	
4	Feb.- 2020		iv) Types of Rainfall : a) Convectonal b) Orographic c) Cyclonic Test - II	3 1	4	21
		Topic No. 03. Hydrosphere	A) Submarine Relief :- i) General Structure of Ocean Floor ii) Submarine Relief of Indian Ocean B) Ocean Currents i) Definition & Causes of Ocean Currents ii) Ocean Currents of Atlantic Ocean. iii) Ocean Currents of Indian Ocean. Tutorial/Home assignment/Oral	5 5 2 4 4 1	21	21
5	Mar. & April 2020	Examination	i) Revision of Syllabus & Internal Exam. ii) University Exam.			

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 Karm. Ash. Patil Arts, Comm. & Science
 Sr. College Pimpalner Tal. Sakri (Dhule)


 Signature of Subject teacher.

PES's, K.A.M. PATIL ARTS, COMM. & KAI. ANNASAHEB N. K. PATIL SCIENCE COLLEGE
 PIMPALNER, TAL.- SAKRI, DIST.- DHULE; PIN.- 424306.

**** SEMESTER PATTERN TEACHING PLAN **** (Year - 2019- 20.)
 (Semester - IV) (From 26th Nov. 2019 to 30th April. 2020)

Subject :- Human Geography (DSC 1 - D)

Class :- S.Y.B.A.

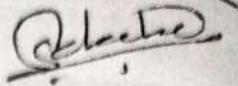
Paper No. :- Gg. 241 (DSC) G2.

Name of the teacher :- Prof. S. K. Kakad

Sr. No.	Month & Year	Topics / Units to be taught	Sub - Topics / Units to be taught	Periods allotted	Total Periods	Remarks
1	Nove. 2019.	UNIT No. 01. Practical Component	Syllabus writing & subject Introduction	2	4	
2	Dec.- 2019.		1. Calculate child women ratio of the (District/Tahsil/Village)	2		
			2. Age Sex pyramid	2		
			3. Dependency ratio	1		
			4. Population growth rate	2		
			5. Density of population	2		
			6. Fertility rate	2		
			7. Mortality rate	2		
			8. Study of settlement of any region (Size, Location, Work etc.)	2		
			9. Study of health facilities of tribal people	2		
3	Jan. 2020		10. Study of mode of life of local tribes	2	17	
			11. Distribution of population	2	10	31
			12. Occupational structure	2		
			13. Educational structure	2		
			14. Socio-economic condition of local area	2		
			15. Economic status according to income	2		
			** Geography Day Programme	1		
		UNIT No. 02 Introduction to Human Geography	1. Definitions, Nature & Scope of Human Geog.	2		
			2. Branches of Human Geography	1		
			3. Determinism and Possibilism	2		
			4. Stop and Go Determinism	1		
			** TEST - I	1	7	7
4	Feb. 2020	UNIT No. 03 The Race of Mankind, Religion and Language	1. Meaning and definition of race	1	8	8
			2. Physical basis of racial groups	1		
			3. Classification of World Races (Caucasoid, Mongoloid, Negroid, Australoid)	2		
			4. Ethnic groups in India.	1		
			5. Major religion in the world and their distribution	1		
			6. Major languages in India (Hindi, Marathi, Gujrathi and Tamil)	1		
			** TEST - II	1		
		UNIT No. 04. Population and Settlement	A) Population:			
			1. Factors affecting population distribution	2		
			2. Distribution of population and growth of Population: Global and National	2		
			B) Settlement:			
			1. Definitions of Rural and Urban Settlement	1		
			2. Types of Settlements: Rural & Urban	2		
			3. Process of Urbanization	1		
			4. Patterns of Rural Settlement.	1	9	9

5	March 2020 and April 2020	Exam.	** Home Assignment/Oral/Seminar Internal Exam/ Practical Exam. University Exam.			
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Signature of Subject teacher

**** SEMESTER PATTERN TEACHING PLAN ** (Year - 2019 - 2020)**
Semester - VI (From 26th Nov. 2019 to 30th April- 2020)

Subject :- Political Geography

** Paper No. :- Gen. 3, (60+40) NEW

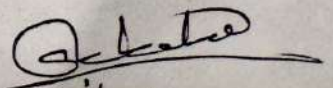
Class :- T.Y.B.A.

** Name of the teacher :- Prof. S. K. Kakad

Sr. No.	Month & Year	Topics / Units to be taught	Sub - Topics / Units to be taught	Periods	Total Periods	Remarks
1	Nov.- 2019	Unit - No. 01 Introduction to Political Geography	Syllabus Writing & Introduction	1	4	
			i) Definition of Political Geography.	1		
ii) History and Development of Political Geography	2					
iii) Nature and Scope of Political Geog.	5					
2	Dec. 2019		iv) Elements of Political Geography.	5	13	17
			a) Physical Elements: Relief, Climate, Seas and Ocean.	3		
			b) Economic Elements : Mineral and power Resources, Trade and Transport			
3	Jan.- 2020	Unit - No. 02 Evolution of State & Nation	i. Concept of State	1	7	
			ii. Centrifugal and Centripetal Forces in the State	3		
			iii. Factors affecting the State.			
			a) Physical Factors: Location , Relief	3		
			Climate , Shape and Size	2		
			TEST - I	1		
			b) Cultural Factors : Population, Religion, Human Race, Languagesand Government.	4		
			iv. Concept of Nation	1		
			v. Difference between State and Nation	2	10	17
4	Feb.- 2020	Unit - No. 03 Geopolitics	i. Origin and Concept of Geopolitics	1	10	
			ii. Theories regarding global Geo-Strategic Views:			
			a) Mackinder's Heartland Theory	3		
			b) Spykman Rimland Theory	3		
			iii Geo Political Significance of Indian Ocean	2		
			** Geograpgy Day - i) Geographical Tour and Geographical G.K. Competitions	1		
			iv. Geo- Political Issues of India.			
			a) Kashmir Problem	4		
			b) Cauveri River Water Dispute.	3	7	17
5	Mar & April 2020	Unit - No. 04 Frontiers and Boundaries	i) Definition of Frontiers and Boundaries	1	13	13
			ii) Distinctions Between Frontiers and Boundaries	3		
			iii) Morphological and Genetic Classification of Boundaries.	4		
			iv) Boundaries of India	4		
			TEST - II	1		
			Examination			
			Revision & Internal Exam in IInd week	7		7
			University Exam Start from last week of March			

Principal

Karm A.M. Patil Arts, Comm. & Science
Sr. College, Pimpalner Tal. Sakri (Dhule)



Signature of Subject teacher.

Pimpalner Education Society's

**Karm. A. M. Patil Arts, Commerce & Kai. Annasaheb
N. K. Patil Science Senior College Pimpalner, Tal.- Sakri,
Dist.- Dhule.**



NAAC Reaccredited 'B' Grade

TEACHER'S DIARY

ACADEMIC YEAR : 2019 - 2020

Name : Dr. W. B. SHIRSATH

Designation : Associate Professor

Department : CHEMISTRY



TEACHING PLAN

Class : S.Y.B.Sc. Sem.: IIIrd Subject : Chemistry

Paper Code. : CHE-301

Sr. No.	Month	Topics/Practical's
1	June-2019	Syllabus writing and discussion about course.
2	July-19	<p><u>Chapter - I - Solutions.</u> Introduction - Solubility factors affects solubility Types of solⁿ, Ideal & non-ideal solⁿ, Raoult's law and its limitation, The v.p. of actual liquid pairs and the v.p. of ideal solⁿ. Classification of binary solⁿ of completely miscible liquids (Type-I, Type-II, Type-III) on the basis of Raoult's law B.p. Diagram of miscible binary mixtures Distillation of binary miscible solⁿ. Azeotropes Fractionating Column, Solubility of partially miscible liquids pairs, Phase diagrams phenol-water system, Triethyl amine-water & Nicotine water system.</p>
		<p><u>Chapter - II - Colligative Properties -</u> Introduction, lowering of v.p. of solvent, calculation of mol. wt. of solute from lowering of v.p. of solvent</p>
3	August-19	<p>B.p. elevation of solⁿ, calculation of mol. wt. of solute from b.p. elevation of solⁿ, Freezing pt. depression of solⁿ, calculation of mol. wt. of solute from depression in t.p. Normal & abnormal, Relation of o.p. to v.p. Van't Hoff eqⁿ for o.p.: Landberger's method for the determination of elevation of b.p. Beckmann method for determination of depression in t.p. Berthelot & Hearty's method, solⁿ of electrolyte</p>
4	Sept. 2019	Colligative Properties of electrolyte; related numerical
5	Sept-19	<p><u>Chapter - 3 - The d-block elements</u> Elements of IInd, IIIrd & IIIrd transition series, General characteristics of d-block elements a) metallic character b) molar volume and densities, c) Atomic & ionic radii</p>

Signature of the Teacher


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
TEACHING PLAN

Class: Ey. B. Sc. Sem. Ist Subject: Chemistry

Paper Code: CH-101

Sr. No.	Month	Topics/Practical's
1	July - 2019	<p>Chapter - Electrolytic Conductance.</p> <p>Electrolytic conductance, Equivalent conductance</p> <p>Determination of conductance, Variation of conductance with concentration equivalent conductance at infinite dilution, Kohlrausch's law & its application</p> <p>Application of conductance measurement.</p> <p>a) Solubility of sparingly Soluble Salt</p> <p>b) Determination of degree of Ionisation</p> <p>c) Determination of Ionic Product of water.</p> <p>d) Conductometric titration. Acid-Base titrations.</p> <p>Numerical Problems related to topic</p> <p>Chapter - 2nd. Surface Chemistry</p> <p>Introduction, Adsorption, Mechanism of adsorption, Factors affecting adsorption of gases by solid</p>
2	August - 2019	<p>Difference betⁿ Adsorption & Absorption, Types of Adsorption, Physical & Chemical adsorption</p> <p>Types of adsorption Isotherm - Freundlich & Langmuir adsorption (Derivation)</p> <p>Chapter - 3rd - Mathematical Preception in Chemistry</p> <p>Logarithm - Rules of logarithm, Characteristics & mantissa of logarithm, Negative logarithm</p> <p>Numerical based on application of logarithm in Calculating PH with change of base of logarithm.</p> <p>Antilogarithm. Problems on logarithm</p> <p>Graphical representation - Rules for drawing graph, Co-ordinate etc. Eqⁿ of st. line, Slope & Intercept, Plotting the graph from the chemical properties & problems.</p> <p>Behaviour - Rules of Differentiating (Without proof.)</p> <p>Algebraic, logarithmic & exponential function & derivatives</p>
3	Sept. 2019	<p>Integration - Rules of Integration (without proof)</p> <p>& Integration with limit Algebraic, logarithmic & exponential function & numericals</p> <p>Numerical related to Chemistry</p>



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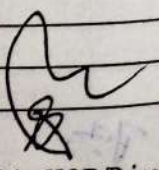

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TEACHING PLAN

Class: P.Y.B.Sc Sem.: I Subject: Chemistry Practical Paper Code.: CH-103

Sr. No.	Month	Topics/Practical's
1	July-2019	<p>Physical experiment -</p> <ol style="list-style-type: none"> 1) Calibration of volumetric flask/Pipette. 2) To determine the eq. wt. of mg metal by using Endometal method 3) Determination of dissociation constant of weak monobasic acid by conductance measurement 4) Determination of the solubility of soluble salt by conductometry.
2	August-2019	<ol style="list-style-type: none"> 1) Preparation of std. 0.1 N oxalic acid solⁿ and standardisation of K₂Cr₂O₇ 2) Preparation of std. 0.1 N K₂Cr₂O₇ solⁿ & standardisation of ferrous ammonium sulphate solⁿ 3) Preparation of std. 0.1 N NaCl solⁿ & standardisation of ferrous ammonium sulphate solⁿ AgNO₃ solution 4) To investigate the adsorption of o.a. from aq. solⁿ by activated charcoal and examine the validity of Freundlich & Langmuir adsorption isotherm.
3	Sept-19	<ol style="list-style-type: none"> 1) Determination of loss per gram & % Purity of zinc carbonate gravimetrically. 2) Determination of loss per gram & % Purity of Na₂ mixture Na₂CO₃ & Na₂SO₄ by gravimetric analysis <p>Compound No-1 Compound No-2</p>
4	Oct-2019	<p>Inorganic Q.A.</p> <ol style="list-style-type: none"> i) Compound No-3 ii) Compound No-4 iii) Compound No-5 <p>Internal Practical Examination.</p>


Signature of the Teacher


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TEACHING PLAN

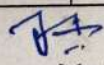
Class : 3rd B.Sc. Sem.: III Subject : Chemistry Paper Code : CH-303

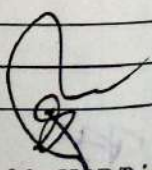
Sr. No.	Month	Topics/Practical's
		Physical Chemistry Experiments -
1	July - 2019	1) Determination of mol. wt. of Solute Sulphur / Acetanilide / m-dinitrobenzene by depression of Freezing Point method 2) Determination of mol. wt. of non volatile Solute (KCl / BaCl ₂ / urea) by using Landberger apparatus. 3) Determination of E° electrode potential of Cu/Cu ²⁺ or Ag/Ag ⁺ , Zn/Zn ²⁺ electrode potentiometrically. 4) Volumetric analysis 5) Estimation of Acetic acid in commercial vinegar using NaOH
	August - 2019	1) Estimation of aspirin in drug sample - 2) Estimation of Fe(II) by redox titration with KMnO ₄ 3) Estimation of Mn ²⁺ by complexometric titration with EDTA 4) Determination of dissolved oxygen (DO) in water sample
	Sept-2019	1) Separation of mixture of o-nitro aniline & p-nitroaniline by Thin layer chromatography. 2) Separation of mixture of any two amino acids by paper chromatography. 3) Preparation of semicarbazone derivative of Aldehyde / Ketone 4) Benzoyl derivative of -OH/Ph ₂
	Oct-2019	Reading of practicals ; Internal Practical Examination.

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Sr. No.	Month	Topics/Practical's
1	Dec-2019	<p>Chapter - 2 - Gaseous state -</p> <p>Kinetic theory of ideal gas, Assumptions of kinetic theory of gas, Kinetic gas eqn and its significance. Deduction of Avogadro's law, Graham's law. Kinetic theory of transition, Definition of real gas, Deviation of ideal behaviour, Reasons for deviation, Compressibility factor, Van der Waals eqn its application, Andrews Isotherm of CO_2, Relation bet. critical constant & Van der Waals constant.</p> <p>Liquefaction of gases. Joule-Thomson effect. Related numericals.</p>
2	Jan-2020	<p>Liquid state - Introduction, S.T. of liquid, unit of S.T. of liquid. Factor affecting S.T. Determination of S.T. by static capillary rise method & stalagmometer method.</p> <p>Viscosity of liquid, unit of viscosity, measurement of viscosity of liquid by Ostwald's method. Related numericals.</p> <p>IIIrd law of thermodynamics, Spontaneous & nonspontaneous process with example. Statement of IIIrd law of thermodynamics. Entropy, unit of entropy, Entropy change in isolated system, Entropy change for system. Entropy of mixing of gases, Entropy change in ideal gas & physical transformations, numerical (related problems).</p>
3	Feb-2020	<p>metals and metallurgy</p> <p>Occurrence of metals, various steps involved in metallurgical process, Concentration of ore, Calcination, Roasting, reduction to free metal. Electrometallurgy, Hydrometallurgy, Refining of metals.</p>

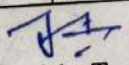

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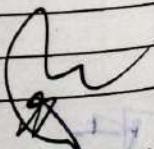

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TEACHING PLAN

Class: F.Y.B.Sc. Sem.: II Subject: Chemistry Practical Paper Code.: CH-203

Sr. No.	Month	Topics/Practical's
1	Dec-2019	<p>A) Physical Chemistry Experiment</p> <p>1) Determination of heat of solⁿ of KNO_3 / $NaCl$ by Water equivalent method</p> <p>2) Determination of relative viscosity of liquid A & liquid B by viscometer.</p> <p>3) Determination of Normality & Strength of acid (HCl / CH_3COOH) Conductometrically.</p> <p>4) Determination of % Composition (v/v) of given mixture of ethyl alcohol and water by viscometer.</p>
2	Jan-2020	<p>B) Analytical Chemistry Experiment</p> <p>1) Preparation of std. solⁿ of $ZnSO_4$ & standardisation of EDTA solⁿ.</p> <p>2) Preparation of 0.1N K_2CrO_7 solⁿ & standardisation of $Na_2S_2O_3$ solⁿ.</p> <p>3) Estimation of Aniline / Phenol.</p> <p>4) Determination of no. of molecules of water of crystallisation in sample of crystalline $BaCl_2$ / mg</p>
3	Feb-2020	<p>Organic qualitative analysis</p> <p>1) Type determination</p> <p>2) Preliminary test</p> <p>3) Physical constants</p> <p>4) Functional group test</p> <p style="text-align: center;">Analyse four compounds</p>
4	Mar-2020	<p>Internal Practical Examination</p>

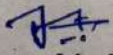

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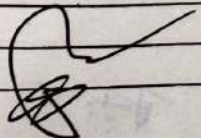

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TEACHING PLAN

Class : S.Y.B.Sc. Sem.: II Subject : Chemistry Paper Code. : CH-401

Sr. No.	Month	Topics/Practical's
		<u>Chapter - I - Electrochemistry :</u>
1	<u>Dec-2019</u>	<p>Introduction, EMF & its measurement, Reversible & Irreversible Cell, Std. Cell, Cell Reaction & EMF, Convention regarding sign of EMF, Single electrode Potential, Calculation of single electrode potential. Std. hydrogen electrode, Calomel electrode. Calculation of cell EMF from single electrode potential. Thermodynamics of EMF, ΔG, ΔH, ΔS from EMF data. Thermodynamics of electrode potential (Nernst eqn.) Std. Potential & E° constant. Classification of electrode, Related numericals. Unit-test.</p>
2	<u>Jan-2020</u>	<p>Chemistry Thermodynamics.</p> <p>Introduction, The Helmholtz free energy ΔA for reaction, Gibbs free energy, ΔG for reaction, Properties & significance of Gibbs free energy changes, Fugacity & activity concept, The reaction isotherm, Std. free energy change of formation, Criteria of E°.</p> <p>Physical equilibria involving pure substance, Clapeyron eqn and its use v.p. of liquid & variation of v.p. with temp. Clausius-Clapeyron eqn different form of Clausius-Clapeyron eqn & its application. Related problems; Unit-test.</p>
3	<u>Feb-2020</u>	<p>Basic concepts of Coordination Chemistry</p> <p>Double Salts & Coordination compounds</p> <p>Co-ordination complexes and complex ion</p> <p>Co-ordination number, monodentate, bidentate & Polydentate ligands; Chelating ligand & Chelates</p> <p>Physical methods used in study of complex</p> <p>Nomenclature of Co-ordination compounds; Unit-test</p>
4	<u>Mar-2020</u>	<p>Problems on Electrochemistry and thermodynamic</p> <p>Internal Examination.</p>

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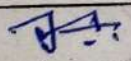
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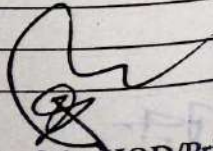
TEACHING PLAN

Class : S.Y.B.Sc. Sem.: II Subject : Chemistry Practical Paper Code CH-203

Topics/Practical's

Sr. No.	Month	Topics/Practical's
		<u>Physical Chemistry Experiments</u>
1	Dec-2019	1) Determination of Critical Solution temp. of Phenol-Water System 2) Determination of Molarity and Strength of HCl titrating with std. NaOH potentiometrically. 3) Construction of Daniel cell & determination of thermodynamic parameters, ΔG , ΔH , ΔS of the cell.
2	Jan-2020	<u>Organic Qualitative Analysis -</u> Determination of type. a) Preliminary test b) Physical constant c) Elements detection (Na-fusion test) d) functional group test e) Structure - Analyse four organic compounds -
3	Feb 2020	<u>Analyse of organic compound (IVth compound)</u> Gravimetric Analysis - 1) Estimation of Ni as Ni-DMG (by counterpoise method) 2) Estimation of Pb as PbCrO ₄ (Counterpoise method) 3) Estimation of Ba as BaSO ₄ (Ignition method)
4	Mar-2020	<u>Inorganic Precipitation</u> 1) Precipitation of tetramine (Cu(II) Sulphate. 2) Hexamine Ni(II) Chloride. Internal practical examination


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TEACHING PLAN

Class : S.y.B.JC Sem.: I Subject: Basic Analytical Chemistry Paper Code.: Sec-I

Sr. No.	Month	Topics/Practical's
1	July-2019	<p>Precipitation titration - Principle, Precipitation titration curve, Use of indicators in detection of end point, Preparation of AgNO₃ solution, Standardization of AgNO₃ solution by Mohr's method, Estimation of chlorides by Fajans' method, Application of precipitation titration.</p>
2	August-2019	<p>Chromatography - Introduction, Advantages of Chromatography, Disadvantages of Chromatography, Principle Chromatography, Classification of Chromatographic methods.</p> <p>Paper chromatography, Technique of Paper Chromatography, Rf value, Factors affecting types of value, (Rf value), Types of paper chromatography, Separation of metal ions, paper chromatography, Application of Paper chromatography.</p>
3	Sept 2019	<p>Thin layer paper chromatography, Principles & technique of thin layer chromatography, Application of TLC - Ion Exchange (column) Chromatography, Application of Ion Exchange Chromatography, Ion exchange resins, Technique of Ion exchange chromatography, Internal test examination.</p>
4	Oct-2019	<p>Acid-Base titration - Principle of acid-base titration - Eq. pt. Neutral pt. End pt. Acid-Base Indicator, Hammett-Hasselbalch eqⁿ, Titration range of Indicator.</p> <p>S.A vs S.B. titration - Nature of titration curve; Characteristic features of S.A with S.B. titration curve, Selection of Indicator, Calculation of pH during S.A-S.B. titration.</p> <p>W.A-S.B. titration - Nature of titration curve, Characteristic features of W.A-S.B. titration, Selection of Indicator, Calculation of pH during W.A-S.B. titration, Application of Acid-Base titration.</p>

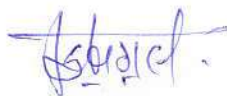
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TEACHING PLAN

Class : FYBSc. **Sem :** I **Subject :** Dynamics and Elasticity **Paper Code :** PHY 102

Sr. No.	Month	Topics/Practicals
1)	July Aug. 2019	Unit 1: Gravitation: Newton's Law of Gravitation, Motion of a particle in a central force field (motion is in a plane, angular momentum is conserved, areal velocity is constant), Kepler's Laws (statement only), satellite in circular orbit and applications, Geosynchronous orbits, Weightlessness, Basic idea of global positioning system (GPS). (08 Lectures, 16 Marks)
2)	Sept. 2019	Unit 2. Oscillations: Simple harmonic motion, Differential equation of SHM and its solutions, Kinetic and Potential Energy, Total Energy and their time averages, Damped oscillations. (07 Lectures, 14 Marks)
3)	Oct 2019	Unit 3. Elasticity: Hooke's law, Stress-strain diagram, Elastic moduli, Relation between elastic constants, Poisson's Ratio, Expression for Poisson's ratio in terms of elastic constants, work done in stretching and work done in twisting a wire, Twisting couple on a cylinder, Determination of Rigidity modulus by static torsion, Torsional pendulum, Determination of Rigidity modulus and moment of inertia - α , η and σ by Searles method. (08 Lectures, 16 Marks)
4)	Nov 2019	Unit 4. Viscosity: Introduction, definition of viscosity, general concept of fluid flow, Streamline and turbulent flow, Energy possessed by a liquid and Bernoulli's Theorem and its application: venturimeter, Rate flow of liquid in a capillary tube-Poiseuille's formula, determination of coefficient of viscosity of a liquid by using Poiseuille's equation, variations of viscosity of a liquid with temperature. (07 Lectures, 14 Marks)



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TEACHING PLAN

Class : SYBSc. Sem : III Subject : Electronics-I Paper Code : PHY 302(A)

Sr. No.	Month	Topics / Practicals
1)	July 2019	<p>Unit 1 Semiconductor diodes (07 L, 14 M)</p> <p>(Revision on metal, insulator and semiconductors, Intrinsic and Extrinsic semiconductor), Semiconductor Diodes: p and n type semiconductors, Barrier Formation in PN Junction Diode, Qualitative Idea of Current Flow Mechanism in Forward and Reverse Biased Diode, PN junction and its characteristics, Static and Dynamic Resistance, Principle, Construction, Working and Characteristics of (1) LEDs (2) Photodiode (3) Solar Cell (P-N Junction), (4) Zener Diode</p>
2)	Aug 2019	<p>Unit 2: Rectifiers and Power Supplies (05 L, 10M)</p> <p>Introduction to Rectifiers, Types: Half-wave & Full-Wave Rectifiers (Centre-tapped and Bridge Rectifiers), Calculation of Ripple Factor and Rectification Efficiency, Basic idea about capacitor filter, D.C. power Supply (unregulated and regulated), Zener Diode as a voltage regulator.</p>
3)	Sept- 2019	<p>Unit 3: Bipolar junction transistor (06L, 12M)</p> <p>Bipolar Junction transistors: n-p-n and p-n-p Transistors, Characteristics of CB, CE and CC configurations. Active, Cutoff, and Saturation Regions. Current gains α and β. Relations between α and β. Load Line analysis of Transistors, DC Load line and Q point.</p>
4)	Oct Nov 2019	<p>Unit 4: Digital Electronics (12 L, 24 M)</p> <p>Binary Numbers, Decimal to Binary and Binary to Decimal Conversion, Binary Addition, Binary Subtraction using 2's Complement Method, AND, OR and NOT Gates (Realization using Diodes and Transistor), NAND and NOR Gates as Universal Gates, XOR and XNOR Gates, De Morgan's Theorems, Boolean Laws, Simplification of Logic Circuit using Boolean Algebra, Fundamental Products, Min terms and Max terms, Conversion of a Truth Table into an Equivalent Logic Circuit by (1) Sum of Products Method and (2) Karnaugh's Map, Half Adders and Full Adders and Subtractors, 4-bit binary Adder-Subtractor.</p>



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TEACHING PLAN

Class : TYBSc. **Sem :** V **Subject :** Classical Mechanics **Paper Code :** PHY-352

Sr. No.	Month	Topics / Practicals
1)	July Aug 2019	<p><u>Unit- 1: Introduction to Classical Mechanics</u> <u>Introduction of classical mechanics, Historical development of classical mechanics, Discussion on Newton's laws of motion, Limitations of Newton's law, Types of forces: Force of gravitation, Lorentz force, Hooks force, Frictional force, Fundamental forces of nature, Projectile motion in various medium, Rocket motion.</u> (10P, 12M)</p>
2)	sept. 2019	<p><u>Unit- 2: Motion in Central Force Field</u> <u>Concept of central force, Properties of central force, Reduction of two body problem into equivalent one body problem, Motion in central force field, General features of motion, Equation of an orbit, Orbits of artificial satellites, Deduction of Kepler's laws of planetary motion.</u> (14P, 16M)</p>
3)	oct. 2019	<p><u>Unit 3: Lagrangian Formulation</u> <u>Types of constraints, degrees of freedom, Generalized coordinates, Concept of virtual displacement and virtual work, D'Alemberts principle Lagrange's equation from D'Alembert's principle, Properties of Lagrange's equation, Applications of Lagrange's equation (simple pendulum, linear simple harmonic oscillator, compound pendulum and Atwood's machine)</u> (14P, 16M)</p>
4)	NOV 2019	<p><u>Unit 4: Hamiltonian Formulation</u> <u>Cyclic coordinates, Phase space, Hamiltonian, Hamiltonian's canonical equation of motion, Physical significance of Hamiltonian, Advantages of Hamiltonian approach, Applications of Hamilton's equation (simple pendulum, compound pendulum and linear harmonic oscillator), Poisson Bracket: Definition and Properties.</u> (14P, 16M)</p>



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TEACHING PLAN

Class : TYBSc. Sem : V Subject : Electronics- II Paper Code : PHY- 354(A)

Sr. No.	Month	Topics/Practicals
1)	July Aug. 2019	<p><u>Unit 1: Semiconductor Devices</u> <u>FET: Types (n-channel and p-channel), Constructional detail, electronic symbol, working principle and I-V Characteristics, FET parameters, Intro to MOSFET, Applications: FET as a VVR, FET as an amplifier.</u> <u>UJT: Constructional detail, Equivalent circuit, symbol, working principle and I-V Characteristics, Applications: UJT as a switch, UJT as a relax osci</u> <u>SCR: Constr detail, symbol, Equi circuit of SCR, working principle and I-V Chara, Transistor analogy and its working, Imp terms (break over voltage, holding current, forward current rating), Applications: SCR as a switch, Controlled recti using SCR. (11P, 12M)</u></p>
2)	Sept 2019	<p><u>Unit 2: DC Power Supplies</u> <u>Block diagram of unregu and regu p/s, their merits and demerits, Series regu p/s, Voltage regulation (Load and Line), Study of Monolithic voltage regulators: Precision voltage regu (IC 723), Three-terminal general purpose regu ICs- 78xx and 79xx. (7 P, 8M)</u> <u>Unit 3: Differential Amplifier</u> <u>Intro, black box concept, basic circuit of diff amp, Need of const current source in diff amp, different configurations of diff amp, CMRR. (5P, 6M)</u></p>
3)	Oct 2019	<p><u>Unit 4: Operational Amplifier and its applications:</u> <u>Block dia, Schematic symbol and Pin dia of IC 741, Imp terms of OPAMP such as I/P impedance, O/P impedance, i/p offset voltage, open loop voltage gain, i/p bias current, slew rate. Ideal and practical parameters of Op-Amp, Concept of virtual ground, inv and non-inverting ampli with gain expressions, off-set null, frequency response of opamp, Applications: Adder, Subtractor, Integrator, Differentiator, Comparator. (10P, 14M)</u></p>
4)	15 th Nov 2023 2019	<p><u>Unit 5: Digital Electronics</u> <u>a) Counters: Types of counters (Asynchr and Synchro), 4-bit Asynchr down counter (Serial counter), 3-bit Up-down counter, modulus of counter, mod-3 counter, mod-5 counter, and mod 10. (9P, 8M)</u> <u>b) Data Processing circuits:</u> <u>Multiplexer (2 to 1 & 4 to 1 line), De-multiplexer (1 to 2 & 1 to 4 line), Decoder, Encoder. (5P, 6M)</u> <u>c) Timer: - Functional block diag. of IC-555 (Timer), Pin configuration, Astable, Monostable and Bistable multivi using IC 555, Application: Square wave Generator (5P, 6M)</u></p>



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TEACHING PLAN

Class : TYBSa. **Sem :** V **Subject :** Technical Electronics I **Paper Code :** PHY 356(A)

Sr. No.	Month	Topics / Practicals
1)	July Aug 2019	<p><u>Unit 1: Components and devices</u> <u>Resistors, Capacitors, Inductors (Types, construction and specification).</u> <u>Identification of resistor and capacitor values, Transformers: Types,</u> <u>(Single phase power transformer, auto transformer, isolation, AF, RF,</u> <u>IF), Switches, Types of switches, Relay: Types (list only), EM relay:</u> <u>Principle, Construction and Working. [Ref. 1 to 5] (10P, 12M)</u></p>
2)	Sept	<p><u>Unit 2: Optoelectronic Device</u> <u>LED (Construction, Working & Applications), Multicolour LED, Seven</u> <u>Segment Display, LCD, Photodiode (construction, Chara & applications),</u> <u>LDR, Intro to phototransistor. [Ref. 2, 3 & 4] (10P, 10M)</u> <u>Unit 3: Printed Circuit Board</u> <u>Idea of PCB, advantages, copper clad, Etching processes, Different</u> <u>steps for making PCB, Precautions while making PCB, Principle of</u> <u>Photolithography (For PCB). [Ref. 2, 3 & 4] (6P, 6M)</u></p>
3)	Oct	<p><u>Unit 4: Transducers I</u> <u>Defn, Classification, Selection of transducer, Electrical transducer:</u> <u>Thermistor, Thermocouple, Pressure Transducer; Strain gauges (wire,</u> <u>foil, & semiconductor) Displ transducer: LVDT. [Ref. 3, 4 & 10] (8P, 10M)</u> <u>Unit 5: Data Converters</u> <u>D to A Converters: Resistive divider network, Binary ladder network. A</u> <u>to D Converters: Successive approximation type, Voltage to Time (Single</u> <u>slope, Dual slope), Voltage to Frequency. [Ref. 7 & 8] (8P, 10M)</u></p>
4)	15 th Apr 2023 2019	<p><u>Unit 6: Measuring instruments</u> <u>Cathode Ray Oscilloscope: Block diagram, Front Panel Control, Dual beam</u> <u>oscilloscope, measurement of voltage, current, frequency, phase using</u> <u>CRO, Function Generator: Block diagram and features, Digital Frequency</u> <u>meter (Frequency mode only); Block diagram & features, Digital</u> <u>Voltmeter (Ramp type only); Block diagram & features. [Ref. 3, 4, 6 &</u> <u>11] (10P, 12M)</u></p>



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TEACHING PLAN

Class : FYBSc. **Sem :** II **Subject :** Die, Magne and Electromagne **Paper Code :** PHY 202

Sr. No.	Month	Topics/Practicals
1)	NOV 2019	Unit 1: Capacitance and dielectrics: Introdu , Capacitance of an isolated spherical conductor, Parallel plate, spherical and cylindrical condenser, Energy per unit volume in electrostatic field, Dielectric medium, Polarisation, Displacement vector, Gauss's theorem in dielectrics, Parallel plate capacitor completely filled with dielectric. (10 Lectures, 20 Marks)
2)	NOV Dec 2019	Unit 2. Magnetism: Magnetic properties of materials: Magnetic intensity, magnetic induction, permeability, magnetic susceptibility, Brief introduction of dia-, para- and ferro-magnetic materials. Introduction of Magnetostatics: Biot-Savart's law & its appli-straight conductor, circular coil, solenoid carrying current, Divergence and curl of magnetic field, Magne vector potential, Ampere's circuital law. (08 Lec, 16 Marks)
3)	Jan 2020	Unit 3. Electromagnetic Induction: Faraday's laws of electromagnetic induction, Lenz's law, self and mutual inductance, L of single coil, M of two coils, Energy stored in magnetic field. (06 Lectures, 12 Marks)
4)	Feb 2020	Unit 4. Maxwell's equations and Electromagnetic wave propagation: Equation of continuity of current, Displacement current, Maxwell's equations, Poynting vector, electromagnetic wave propagation through vacuum and isotropic dielectric medium, transverse nature of EM waves, polarization. (06 Lectures, 12 Marks)



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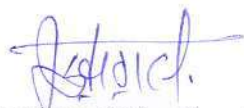


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TEACHING PLAN

Class : SYBSc. **Sem :** IV **Subject :** Ele Ckts & Network Skills **Paper Code :** PHY 404

Sr. No.	Month	Topics / Practicals
1)	Nov 2019	<p><u>Unit 1. Basic Electricity Principles: Voltage, Current, Resistance, and Power. Ohm's law. Series, parallel, and series-parallel combinations. AC Electricity and DC Electricit. Familiarization with multimeter, voltmeter and ammeter. (03 L, 06 M)</u></p> <p><u>Unit 2. Understanding Electrical Circuits: Main electric circuit elements (R,L,C) and their combination. Rules to analyze DC sourced electrical circuits (KCL, KVL) Current and voltage drop across the DC circuit elements, Diode and rectifiers, . Response of inductors and capacitors with DC or AC sources Single-phase and three-phase alternating current sources. Rules to analyze AC sourced electrical circuits, Real, imaginary and complex power components AC source. Power factor. Saving energy and money. (07 L, 14 M)</u></p>
2)	Nov Dec 2019	<p><u>Unit 3. Electrical Drawing and Symbols: Drawing symbols. Blueprints. Reading Schematics. Ladder diagrams. Electrical Schematics. Power circuits. Control circuits. Reading of circuit schematics. Tracking the connections of elements and identify current flow and voltage drop. (04L, 08M)</u></p> <p><u>Unit 4. Generators and Transformers: Types of DC Power sources. Principle of DC/AC generators, construction of DC generator, Operation of transformers. (03 L, 06 M)</u></p>
3)	Jan 2020	<p><u>Unit 5. Electric Motors: Single-phase AC & DC motors (Basic design). Interfacing DC or AC sources to control heaters & motors. Speed & power of ac motor. (04 L, 8 M)</u></p> <p><u>Unit 6. Electrical Protection: Relays. Fuses and disconnect switches. Circuit breakers. Overload devices. Ground-fault protection. Grounding and isolating. Phase reversal. Surge protection. Interfacing DC or AC sources to control elements (relay protection device) (04L, 08 M)</u></p>
4)	Feb 2020	<p><u>Unit 7. Electrical Wiring: Different types of conductors and cables. Basics of wiring-Star and delta connection. Voltage drop and losses across cables and conductors. Instruments to measure current, voltage, power in DC and AC circuits. Insulation. Solid and stranded cable. Conduit. Cable trays. Splices: wirenuts, crimps, terminal blocks, split bolts, and solder. Preparation of extension board. (05 L, 10 M)</u></p>



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TEACHING PLAN

Class : TYBSc. Sem : VI Subject :: Classical Electrodynamics Paper Code : PHY 361

Sr. No.	Month	Topics / Practicals
1)	NOV 2019	<p><u>Unit 1: Electrostatics</u> (Revision- Electrical charge, Coulomb's law, Electric field, Electrostatic potential), Principle of superposition, continuous charge distribution, Linear, surface and volume charge density, Flux of an electric field, statement of Gauss's law. Differential form of Gauss's law, applications of Gauss's law- i) Electrical field outside the charged sphere ii) Electric field inside charged sphere iii) Electric field due to infinite sheet of charge, Electric dipole, Expression for potential & intensity. (10 P, 12 M)</p>
2)	Dec 2019	<p><u>Unit 2: Electrostatic field in dielectrics</u> Dielectric materials, polar and non polar molecules, polarization vector, Electric field vector at exterior point of dielectric medium, Electric displacement vector, Susceptibility, Permittivity, Dielectric constant, Relation between, Boundary condition for and Dielectric sphere in uniform electric field, The method of electrical image for grounded plane and grounded conducting sphere (point charge near a grounded charged sphere, potential and intensity at a point M(r, θ)). (12 P, 16 M)</p>
3)	Jan 2020	<p><u>Unit 3 Magnetostatics</u> Current density (J), Equation of continuity, Magnetic induction, Lorentz force on a point charge moving in a magnetic field, Biot and Savart's law, Magnetic induction due to a current flowing in a long straight wire, Magnetic induction due to a current carrying circular loop, Axial magnetic field of a solenoid, Magnetic forces between two current carrying loops, Ampere's circuital law and its applications for long cylindrical current carrying wire, co-axial cable. Magnetic vector potential and relation between them, Mag suscep & permeability, Boundary conditions for. (16 P, 16 M)</p>
4)	Feb 2020	<p><u>Unit 4: Electrodynamics</u> Electromagnetic field, Faraday's law of induction in differential and integral form. Modified Ampere's law, Maxwell's equation in differential and integral form. Electromagnetic waves - solution of a plane wave in free space, Poynting vector in free space and electromagnetic energy. Reflection and refraction of a plane wave from non-conducting boundaries (Normal incidence only). (14 P, 16 M)</p>



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TEACHING PLAN

Class : TYBSc. **Sem :** VI **Subject :** Tech Electronics- II **Paper Code :** PHY- 366(A)

Sr. No.	Month	Topics/Practicals
1)	Nov 2019	<p><u>Unit 1: Sound System</u> <u>Microphones: characteristics, types (list only), carbon microphone and dynamic type microphone (principle, construction and working), Loud speakers: Characteristics, Dynamic (Moving coil type) speaker, Multiway speaker system (woofer and tweeter), Connection type of speakers (series, parallel and series-parallel type). [R1, R2, R9]. (12P, 12M)</u></p>
2)	Dec 2019	<p><u>Unit 2: Public address system</u> <u>Block diagram of P.A. system and its explanation, requirements of P A system, typical P.A. Installation planning (Auditorium having large capacity, college sports), Volume control, Tone control and Mixer system, Concept of Hi -Fi system, Monophony, Stereophony, Quadra phony, Dolby A and Dolby B system, CD- Player: Block diagram of CD player and function of each block. [R1, R2, R9]. (10P, 14M)</u></p>
3)	Jan 2020	<p><u>Unit 3: Medical instruments.</u> <u>Biopotential, Types of electrodes, ECG (principle, block diagram, features) Ultrasonography: working principle [R 3, 4, 5] (8P, 8M)</u> <u>Unit 4: Transducer II</u> <u>Piezo-electric Transducer, Optoelectronic transducers: LDR, Chemical sensors: PH sensor, Gas sensor (Fundamental aspects), Humidity sensor (Resistive). [R7, R8]. (10P, 12M)</u></p>
4)	Feb 2020	<p><u>Unit 5: Modern appliances</u> <u>Remote control : Operating principle, block diagram, features</u> <u>Microwave Oven : Operating principle, block diagram, features</u> <u>Cellular phone : Operating principle, Block diagram, specifications, features, and functions performed;</u> <u>Washing machine : Operating principle, block diagram, features, Fuzzy Logic (Idea only),</u> <u>Electronic weighing machine : Principle, Block diagram, features,</u> <u>Electronic Weighing Systems - Operating principle, Block diagram, features. (12P, 14M)</u></p>



Signature of the Teacher



Signature of the HOD/Principal