



# PATTAMUNDAI COLLEGE

## PATTAMUNDAI, KENDRAPARA

**SESSION 2021 -2022**

CLASS +3 1st Yr, +3 2nd Yr, +3 3rd Yr

**+3 STREAM**

## LESSON PLAN AND PROGRESS REGISTER

(To be maintained by all members of teaching staff)

FULL NAME OF THE TEACHER ARABINDA PANDAY

DESIGNATION LECTURER IN MATHEMATICS

DEPARTMENT MATHEMATICS

*Arbinda Panday*  
Signature

# PATTAMUNDAI COLLEGE

Pattamundai, Kendrapara

Affix  
Photograph

## BIODATA

1. Name : ARABINDA PANDAB (Capital Letters)
2. Designation : lecturer in Mathematics
3. Date of Birth : 30.05.1973
4. Date of joining : 20.03.1998
5. Academic Qualification : M.Sc (Mathematics)
6. Academic achievement :
  - a) No. of Research Project completed :
  - b) No. of On-going Projects :
  - c) No. of Research Scholars :
    - (i) Completed Ph.D. :
    - (ii) Continuing Ph. D. :
    - (iii) Completed M.Phil.:
    - (iv) Continuing M.Phil :
7. Any distinctions / prizes / awards received :
8. No. of Books published : \_\_\_\_\_
9. No. of Research paper published & Communicated \_\_\_\_\_
10. Present Address : Pattamundai College,  
Pattamundai  
Kendrapara Odisha

Contact No. : Phone :/Mob. 9931254024

e-mail ID : arabindapandab@gmail.com

**Time Table for the First Half (July - December)**

Period/days	10.1 <sub>3</sub>	10.2 <sub>4</sub>	11.3 <sub>30</sub>	12.1 <sub>15</sub>	1.6 <sub>3</sub>	1.6 <sub>15</sub>	7	8	9	10
Monday					+3.15.14 <sub>7</sub> Core					
Tuesday	+3.30.17 <sub>7</sub> Core			+3.22.18 <sub>7</sub> Core						
Wednesday						+3.20.17 <sub>7</sub> Core				
Thursday	+3.30.17 <sub>7</sub> Core									
Friday			+3.20.17 <sub>7</sub> Core			+3.20.17 <sub>7</sub> Core				
Saturday	+3.30.17 <sub>7</sub> Core				+3.15.14 <sub>7</sub> Core					

**Total No. of Classes likely to be available during the first half for the different classes**

	+21st yr.			+2 2nd yr.			+3 1st yr				+3 2nd yr.				+3 3rd yr.		
	Arts	Sc	Com.	Arts	Sc	Com.	Comp	Hons	Pass	Elect.	Comp	Hons	Pass	Elect.	Comp.	Hons.	Elect.
Theory																	
Practical																	
Total Class																	

**Time Table for the Second Half (January - May)**

Period/days	1	2	3	4	5	6	7	8	9	10
Monday										
Tuesday										
Wednesday										
Thursday										
Friday										
Saturday										

**Total No. of Classes likely to be available during the Second Half for the different classes**

	+21st yr.			+2 2nd yr.			+3 1st yr				+3 2nd yr.				+3 3rd yr.		
	Arts	Sc	Com.	Arts	Sc	Com.	Comp	Hons	Pass	Elect.	Comp	Hons	Pass	Elect.	Comp.	Hons.	Elect.
Theory																	
Practical																	
Total Class																	

Counter Signature by HOD :

Signature of Teacher : *Amal*

# CONTENTS

Sl. No.	Class/Semester	Paper/Unit	Topics assigned	Page No.
1	2	3	4	5
01	+3 1st Yr Sc Core (Semester I)	Core I Unit I Unit II Unit III Unit IV	Calculus	02
02	+3 2nd Yr Sc Core (Semester III)	Core VII Unit I Unit II Unit III Unit IV	Partial Differential Equations and system of ODEs	08
03	+3 3rd Yr Sc Core (Semester V)	Core XI Unit I Unit II Unit III Unit IV	Multivariate Calculus	14
04	+3 3rd Yr Sc DSE (Semester V)	DSE-I Unit I Unit II Unit III Unit IV	Linear programming	20
05	+3 1st Yr Sc Core (Semester II)	Core IV Unit I Unit II Unit III	Differential Equations	26
06	+3 2nd Yr Sc Core (Semester IV)	Core VIII Unit I Unit II Unit III	Numerical Methods and Scientific Computing	32
07	+3 3rd Yr Sc Core (Semester VI)	Core XIV Unit I Unit II Unit III Unit IV	Group Theory II	38

# LESSON PLAN

Class 7.3.1st Yr. Sc. Subject Core I (Calculus) No. of Periods/Week 02

Sl. No	Month	Paper & Unit	Topics to be covered	No. of classes required
01	Nov & Dec	Core I Unit I	Hyperbolic Functions, Higher order derivatives, Leibnitz rule and its applications to problems of the type $\int e^{ax} \sin bx dx$ , $\int e^{ax} \cos bx dx$ , $(\sin x)^n$ , $(\cos x)^n$ , Concavity & inflection points, asymptotes, curve tracing in cartesian coordinates, tracing in polar coordinates of standard curves, L'Hospital's rule, Application in Business, Economics & Life sciences.	10
02	Dec & Jan	Unit II	Riemann Integration as a limit of sum, Integration by parts, Reduction formulae, derivation and illustration of reduction formulae of the type $\int \sin^n x dx$ , $\int \cos^n x dx$ , $\int \tan^n x dx$ , $\int \sec^n x dx$ , $\int (\log x)^n dx$ , $\int \sin^m x \cos^n x dx$ , definite integral, Integration by substitution.	10
03	Feb & March	Unit III	Volumes of slabs, disks and washers, methods, volumes by cylindrical shells, parametric equations, parametrizing a curve, arc length, arc length of parametric curves, area of surface revolution, techniques of sketching cones, reflection properties of cones, rotation of axes and second degree equations, classification into conics using the discriminant, polar equations of conics.	20
04		Unit IV	Triple product, Introduction to vector fields, operations with vector valued functions, limits and continuity of vector families, differentiation and integration of vector families, tangent and normal components of acceleration.	10

Counter Signature by HOD

Arshad Iqbal  
Signature of Teacher

# PROGRESS

Semester I

Class +3 1st yr. science

Subject Core I (Calculus)

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
01	01/11/21	1 PM	Hyperbolic Functions and Derivative of hyperbolic functions	Ala	
02	17/11/21	1 PM	Higher order derivative of hyperbolic functions.	Ala	
03	19/11/21	1 PM	Leibnitz rule and its applications to problems of the type $e^{ax+b} \sin cx$ , $e^{ax+b} \cos cx$	Ala	
04	20/11/21	1 PM	Leibnitz rule and its applications to problems of the type $(ax+b)^n \sin cx$ , $(ax+b)^n \cos cx$ .	Ala	
05	13/12/21	1 PM	Concavity and Inflection points; Second derivative test for determining intervals of concavity.	Ala	
06	18/12/21	1 PM	Asymptotes: Inclined asymptote, vertical asymptote & horizontal asymptote.	Ala	
07	20/12/21	1 PM	Tracing of curve for Cartesian equation.	Ala	
08	21/12/21	1 PM	Tracing of curve for parametric equation.	Ala	
09	22/12/21	1 PM	Tracing of curve for polar equation (standard curves)	Ala	
10	23/12/21	1 PM	L'Hospital's rule of $\frac{0}{0}$ form and problems on it.	Ala	
11	24/12/21	1 PM	L'Hospital's rule of $\frac{\infty}{\infty}$ form and problems on it.	Ala	

# PROGRESS

Class +31st yr. Subject

Covered (Calculus)

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./Principal
12	11/1/22	1:40	Optimization in Business, Economics and life sciences	Ala	Academic Bursar 17.1.22
13	13/1/22		Dimensional Integration as a limit of a sum. Statement, Proof and few problems	Ala	Principal Pattamundai College
14	18/1/22		Integration by parts	Ala	
15	4/2/22		Reduction formulae, Derivatives.	Ala	
16	11/2/22		Illustration of reduction formula of the type $\int \sin^n x dx$ , $\int \cos^n x dx$	Ala	
17	12/2/22		Illustration of reduction formula of the type $\int \tan^n x dx$ , $\int \sec^n x dx$	Ala	
18	16/2/22		Illustration of reduction formula of the type $\int (\log x)^n dx$	Ala	
19	18/2/22		Reduction formula of the type $\int \sin^m x \cos^n x dx$	Ala	
20	21/2/22		Describe Integral, concepts and problems on	Ala	
21	22/2/22		Integration by substitution and more problems	Ala	
22	24/2/22		Volume of Many solid of revolution	Ala	
23	29/2/22		Volume by slicing using Disk method	Ala	

# PROGRESS

Class 13 1st Y Science

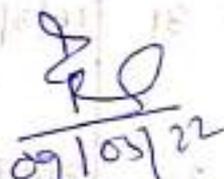
Subject Core 1 (Calculus)

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
24	2/3/22		Volume by slicing / Wasy washer method	Ale	
25	3/3/22		Cylindrical shell Method and problems on it.	Ale	
26	4/3/22		Parametric Equations	Ale	
27	7/3/22		Geometrical meaning of parametric parameterizing a curve	Ale	
28	9/3/22		Tangents lines to parametric curves	Ale	
29	11/3/22		Arc length for Cartesian curve.	Ale	
30	14/3/22		Arc length for parametric curves	Ale	
31	16/3/22		Surface of revolution Introduction and conceptual Discussion	Ale	
32	21/3/22		Area of surface of revolution and parameterized curves	Ale	
33	24/3/22		Techniques for sketching the parabola $y^2 = 4ax, a > 0$	Ale	
34	21/4/22		Technique for sketching the Ellipse	Ale	
35	22/4/22		Technique for sketching hyperbola in standard form	Ale	
36	26/4/22		Reflective property of parabola	Ale	

# PROGRESS

Class +3 Ist Yr Science

Subject Core I (Calculus)

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
37	28/4/22		Reflection properties of Ellipse and Hyperbola and problems on it	Abe	
38	2/5/22		Rotation of axes and second degree equations.	Abe	
39	5/5/22		More problems on rotation of axes and second degree equations.	Abe	
40	7/5/22		Classification of conic using the discriminant $B^2 - 4AC$ .	Abe	
41	9/5/22		Parametric equations of conic	Abe	 09/05/22 <b>Academic Bursar</b>

# LESSON PLAN

Class +3 2nd Yr Science

Subject Core VII (Partial Differential Equations and  
of PDE's) No. of Periods/Week 04

Sl. No	Month	Paper & Unit	Topics to be covered	No. of classes required
01	Nov	Core VII Unit-I	Partial Differential Equations - Basic concepts and Definitions, Mathematical Problems, First-order Equations: Classification, Construction and Geometrical Interpretation, Method of Characteristics for obtaining General Solution of Quasi linear Equations, Canonical forms of First-order linear Equations. Method of Separation of variables for solving first-order partial differential equations.	08
02	Dec	Unit-II	Derivation of Heat Equation, wave equation and Laplace equation. Classification of second order linear equations as hyperbolic, parabolic or elliptic. Reduction of second order linear equations to canonical forms.	10
03	Jan & Feb	Unit-III	The Cauchy problem, Cauchy problem of an infinite string. Initial Boundary Value problems, Semi-Infinite string with a fixed end, Semi-Infinite string with a free end. Equations with non-homogeneous boundary conditions, Non-homogeneous wave equation. Method of separation of variables. Solving the vibrating string problems Solving the Heat Conduction problem	19
04	March	Unit-IV	Systems of linear differential equations, types of linear systems, differential operators, an operator method for linear systems with constant coefficients, Basic theory of linear systems at normal form, homogeneous linear systems with constant coefficients. Two equations in two unknown functions, the method of successive approximation.	15

Counter Signature by HOD

  
 Signature of Teacher

# PROGRESS

Semester IV

Class +3 2nd Yr Science

Subject Part II Differential Equations

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
01	03/11/21	1.45	Partial Differential Equations - Basic concepts, order and Degree.	Ala	
02	08/11/21	1.00	Mathematical problems of PDE.	Ala	
03	05/11/21	12.15	First-order equations: Classification.	Ala	
04	11/11/21	12.15	First-order equations: Formulation and Geometrical Interpretation.	Ala	
05	17/11/21	1.45	Method of characteristics for obtaining general solution of quasi-linear equations.	Ala	
06	23/11/21	12.15	Canonical forms of 1st order linear equations.	Ala	
07	24/11/21	1.45	Problems on canonical form of 1st-order linear equations.	Ala	
08	26/11/21	1.45	Method of separation of variables for solving 1st-order partial differential equations.	Ala	
09	30/11/21	12.15	Problems on variable separable method of 1st order PDE.	Ala	
10	10/12/21	1.45	Derivation of Heat equation as problem on it.	Ala	
11	13/12/21	1.45	Derivation of wave equation and problems on it.	Ala	

# PROGRESS

Class 13, 2nd yr. Science

Subject Partial Diff Equations and Integration of P.D.E's

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
12	18/12/21	1.45	Laplace equation - problems and	Ala	
13	24/12/21	11.30	Classification of 2nd order linear equations: Hyperbolic, parabolic, elliptic	Ala	
14	24/12/21	1.45	Problems on 2nd order hyperbolic and parabolic equations.	Ala	
15	10/1/22	12.15	Problems on 2nd order elliptic equations.	Ala	
16	15/1/22	12.15	Reduction of 2nd order linear equations to canonical form	Ala	Academic Burs 17.1.22
17	21/1/22		More problems on reduction of 2nd order linear equations to canonical form.	Ala	Principal Pattamundai College
18	24/1/22		The Cauchy problem: Definition and conceptual study.	Ala	
19	28/1/22		Cauchy problem of an infinite strip.	Ala	
20	29/1/22		More problems based on Cauchy problem of an infinite strip.	Ala	
21	2/2/22		Initial, Boundary value problems.		

# PROGRESS

Civill (Partial Diff Equations  
as system of ODEs)

Class +3 2nd Yr Science

Subject as system of ODEs

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
22	7/2/22	2:15	Important problems on mixed Boundary value problem	Alu	10/12 28
23	9/2/22	2:15	Semi-infinite string with a fixed end	Alu	10/12 28
24	11/2/22		More problems on semi infinite string with a fixed end	Alu	10/12 28
25	12/2/22	2:15	Semi infinite string with a free end	Alu	10/12 28
26	16/2/22	2:15	More problems on semi infinite string with a free end	Alu	10/12 28
27	17/2/22	2:15	Equations with non homogeneous boundary condition	Alu	10/12 28
28	18/2/22		More problems on equations with non homogeneous boundary condition	Alu	10/12 28
29	22/2/22	2:15	Non homogeneous wave equation	Alu	10/12 28
30	23/2/22	2:15	Important problems on Non homogeneous wave equation	Alu	10/12 28
31	26/2/22		Method of separation of variables	Alu	10/12 28
32	28/2/22		More problems on method of separation of variables	Alu	10/12 28

**PROGRESS** Core VII (Partial Diff Equations)

Class +3 2nd yr Science Subject and System of ODEs

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D/Principal
33	2/3/22	3:30	Solving the vibrating string problems.	Ala	
34	4/3/22	3:30	More problems on solving the vibrating string problems.	Ala	
35	8/3/22	3:30	Solving the heat conduction problems.	Ala	
36	9/3/22	3:30	More problems on solving the heat conduction problems.	Ala	
37	11/3/22	3:30	System of linear differential equations.	Ala	
38	12/3/22	3:30	Types of linear systems, Definition and Conceptual Discussion.	Ala	
39	15/3/22	3:30	Differential operators Definition and Uses.	Ala	
40	16/3/22	3:30	An operator method for linear systems with constant coefficients.	Ala	

# PROGRESS

Cor-VI (Partials with Algebra and System of ODEs)

Class +3 2nd yr Science

Subject .....

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D/Principal
41	21/3/22		More problems on operator method for linear systems with constant coefficients	Alk	
42	22/3/22		Bartz theory of linear systems in normal form.	Alk	 Academic Bursar 29/05/22
43	19/4/22		More problems on Basic theory of linear systems in Normal form	Alk	

# LESSON PLAN

Core XI

Class 12 Science Subject Mathematics Calculus, No. of Periods/Week 03

Sl. No	Month	Paper & Unit	Topics to be covered	No. of classes required
01	Nov	Core XI Unit I	<p>Function of several variables, limits and continuity of function of two variables. Partial differentiation, total differentiability and differentiability, sufficient condition for differentiability, chain rule for one and two independent parameters, directional derivatives, the gradient, maximal and normal property of the gradient, tangent planes.</p>	12
02	Dec	Unit II	<p>Extrema of function of two variables, method of Lagrange multipliers, constrained optimization problems. Definition of vector field, divergence and curl, Double integration over rectangular region, double integration over nonrectangular region. Double integrals in polar co-ordinates.</p>	15
03	Jan & Feb.	Unit III	<p>Triple integrals, Triple integral over a parallelepiped and solid regions. Volume by triple integrals, cylindrical and spherical co-ordinates. Change of variables in double integrals and triple integrals.</p>	12
04	March	Unit IV	<p>Line integrals, Applications of line integrals: Max &amp; Min. Fundamental Theorem for line integrals, conservative vector fields, independence of path. Green's theorem, surface integrals, Integrals over parametrically defined surfaces. Stokes's Theorem. The Divergence Theorem.</p>	15

# PROGRESS

Semester 2  
Case XI

Class #3 2nd Yr Science

Subject Multivariable Calculus

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
01	03/11/21	10 AM	Function of two variables and its domain, function of three variables and its domain, Neighbourhood of a point	Alr	
02	05/11/21	10 AM	Double or simultaneous level of a function of two variables	Alr	
03	10/11/21	10 AM	Simultaneous level, Repeated level of a function of two variables.	Alr	
04	13/11/21	10 AM	Continuity of a function of two variables.	Alr	
05	16/11/21	10 AM	partial Differentiation	Alr	
06	17/11/21	10 AM	Differentiability and Differential. Necessary condition for differentiability. Sufficient condition for differentiability	Alr	
07	18/11/21	10 AM	partial derivative of higher order	Alr	
08	19/11/21	10 AM	partial derivative as the slope of a tangent line, partial derivatives as rates of change.	Alr	
09	20/11/21	10 AM	Derivatives of composite functions and change of variables.	Alr	
10	23/11/21	10 AM	Derivative of implicit function	Alr	
11	24/11/21	10 AM	Directional Derivative and problems on it.	Alr	
12	25/11/21	10 AM	Gradient and problems related to it.	Alr	
13	29/11/21	10 AM	Maximal and normal properties of gradient.	Alr	
13	30/11/21	10 AM	Tangent planes.	Alr	

Class 3<sup>rd</sup> Yr ScienceSubject Multivariable Calculus

Sl No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
14	02/12/21	10:45 AM	Expansion of functions of two variables: Taylor's Theorem, Maclaurin's Theorem, Jacobians.	the	
15	07/12/21	10:45 AM	Extreme values of a function of two variables	the	
16	09/12/21	11:45 AM	Extreme values of a function of three variables	the	
17	11/12/21	10:45 AM	Method of Lagrange multipliers	the	
18	14/12/21	10:45 AM	Constrained optimization problem	the	
19	17/12/21	10:45 AM	vector field and its properties.	the	
20	18/12/21	10:45 AM	Divergence and curl of a vector function	the	
21	21/12/21	10:45 AM	Problems on Divergence and curl of a vector function	the	
22	22/12/21	10:45 AM	Double integration over rectangular region	the	
23	23/12/21	10:45 AM	Problems on double integration over rectangular region	the	
24	10/1/22	10:45 AM	Double integration over non-rectangular regions	the	

# PROGRESS

Core XI

Class # 3<sup>rd</sup> 2<sup>nd</sup> Yr Science

Subject Multivariable Calculus

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D/Principal
25	13/1/22	10AM	Problems on double integrations over non rectangular region	Ala	
26	15/1/22	10AM	Double integrals in polar coordinates	Ala	17.01.2022 Academic Bursar
27	17/1/22		Tuple integrals & 2D properties of triple integrals	Ala	17.1.22 Principal Pattamundai College
28	29/1/22		Reduction of triple integrals to repeated integrals.	Ala	
29	31/1/22		Volume by triple integrals.	Ala	
30	10/2/22		Cylindrical Co-ordinates Definition and conceptual studies	Ala	
31	14/2/22		Tuple integrals in cylindrical coordinates.	Ala	
32	15/2/22		Centre of gravity and centroid of a solid	Ala	
33	18/2/22		Conversion formulas involving spherical coordinates	Ala	
34	21/2/22		Tuple integrals in spherical coordinates	Ala	
35	23/2/22		More problems on triple integrals and spherical coordinates	Ala	

Class +3 3rd Yr SolveSubject Multivariable - Calculus

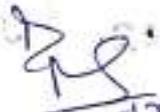
Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
36	24/2/22	2/1A	Change of variables in double integrals and triple integrals	Ala	
37	26/2/22	2/1A	More problems in change of variables in double integrals and triple integrals.	Ala	
38	28/2/22	2/1A	Line integrals, Basic facts about line integrals	Ala	
39	2/3/22	2/1A	Line integrals of vector fields and problems on it.	Ala	
40	3/3/22	2/1A	Appreciate of line integrals: Mass & work	Ala	
41	4/3/22	2/1A	The fundamental theorem and path independence	Ala	
42	4/3/22	2/1A	Closed loop integrals and problems on it.	Ala	
43	7/3/22	2/1A	Fundamental theorem for line integrals and proof	Ala	
44	8/3/22	2/1A	Conservative vector fields and problems on it.	Ala	

# PROGRESS

Case I

Class 13 3rd yr Scree

Subject Multivariate - Calculus

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
45	10/3/22		Curl criteria for a conservative vector field in $R^3$ .	Ala	
46	11/3/22		Green's Theorem Statement and proof	Ala	
47	12/3/22		Area as a line integral. Green's Theorem for multiply-connected region	Ala	
48	15/3/22		Green's Theorem in the plane in vector notation	Ala	 09/05/22 <b>Academic Bursar</b>
49	16/3/22		Normal Derivatives and Surface integrals.	Ala	

## LESSON PLAN

DSE-I

Class +3 3rd Yr Science

Subject Linear Programming No. of Periods/Week

Sl. No	Month	Paper & Unit	Topics to be covered	No. of classes required
01	Nov & Dec	DSE-I Unit-I	Introduction to linear programming problem, Theory of simplex method, optimality and unboundedness, the simplex algorithm, simplex method in tabular format, introduction to artificial variables, two-phase method, Big M-method and their comparison.	12
02	Jan	Unit-II	Duality, formulation of the dual problem, primal-dual relationships, Fundamental Theorem of Duality, Economic interpretation of the dual.	08
03	Feb	Unit-III	Transportation problem and its mathematical formulation, northwest-corner method, least cost method and Vogel approximation method for determination of starting basic solution, algorithm for solving transportation problem, Assignment problem and its mathematical formulation, Hungarian method for solving assignment problem.	09
04	March	Unit-IV	Game Theory, formulation of two person zero sum games, solving two person zero sum games, games with mixed strategies, graphical solution procedure, linear programming solution of games.	15

# LESSON PLAN

DSE-1

 Class B.Sc. 2nd Year Subject Linear Programming No. of Periods/Week .....

Sl. No	Month	Paper & Unit	Topics to be covered	No. of classes required
01	Nov & Dec	DSE-1 Unit-I	Introduction to linear programming problems, Theory of simplex method, optimality and unboundedness, the simplex algorithm, simplex method in tabular format, introduction to artificial variables, two-phase method, Big M method and their comparison.	12
02	Jan	Unit-II	Duality, formulation of the dual problem, primal-dual relationship, Fundamental Theorem of Duality, Economic interpretation of the dual.	08
03	Feb	Unit-III	Transportation problem and its mathematical formulation, northwest-corner method, least cost method and Vogel approximation method for determination of starting basic solution, algorithm for solving transportation problem. Assignment problem and its mathematical formulation, Hungarian method for solving assignment problem.	09
04	March	Unit-IV	Game Theory, formulation of two person zero sum games, solving two person zero sum games, games with mixed strategies, graphical solution procedure, linear programming solution of games.	15

Counter Signature by HOD

 Arundhathi  
Signature of Teacher

# PROGRESS DIV - I

Class ...+3... 2nd Yr. ...

Subject ...Linear Programming...

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
01	03/11/21	10 AM	Introduction to Linear Programming problem, Formulation, Canonical form.	Alo	
02	06/11/21	10 AM	Simplex method and its concepts.	Alo	
03	09/11/21	10 AM	Optimality in Simplex method.	Alo	
04	11/11/21	10 AM	Unboundedness in Simplex method.	Alo	
05	15/11/21	10 AM	The Simplex algorithm.	Alo	
06	17/11/21	10 AM	Simplex method in tableau format.	Alo	
07	18/11/21	10 AM	Introduction to artificial variables, slack variables as surplus variables.	Alo	
08	19/11/21	10 AM	Problems on artificial variables.	Alo	
09	3/1/22	10 AM	Mathematical formulation and solution of problem by simplex method using slack variable and surplus variable.	Alo	
10	24/1/22	10 AM	Use of artificial variables in Two phase method.	Alo	

Academic

17.1.22

Principal

Pattanamundai College

# PROGRESS

DSE-I

Class +3 3rd Yr Science

Subject Linear Programming

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./ Principal
11	27/1/22	10 AM	More problems on Two phase method	Alh	
12	31/1/22	10 AM	Use of artificial variables in Big M-method or Method of penalties.	Alh	
13	9/2/22	10 AM	More problems on method of penalties.	Alh	
14	9/2/22	10 AM	Comparison between Two phase method and Big M method.	Alh	
15	10/2/22	10 AM	Degeneracy in linear programming.	Alh	
16	14/2/22	10 AM	Application of Simplex method to real life problem.	Alh	
17	16/2/22	10 AM	General Form - Dual Pair (Definition). Method of formulating a Dual Problem.	Alh	
18	17/2/22	10 AM	Theorem on Form as Dual, Statement as proof.	Alh	
19	22/2/22	10 AM	Form - Dual relationship.	Alh	

# PROGRESS

DSE-D

Class 13 3<sup>rd</sup> yr Science Subject Linear Programming

Sl. No	Date	Time	Topics covered: (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
20	23/2/22	10 AM	Fundamental theorem of Duality of an LP problem and its interpretation.	Ala	80
21	25/2/22	10 AM	Economic interpretation of the dual and primal problems and its.	Ala	70
22	26/2/22	10 AM	Transportation problem (Definition) & Mathematical formulation.	Ala	60
23	2/3/22	JA	Determination of starting basic solution by North-west Corner method.	Ala	10
24	3/3/22	JA	Determination of starting basic solution by least cost method.	Ala	50
25	4/3/22	JA	Determination of starting basic solution by Vogel approximation method.	Ala	50
26	7/3/22	JA	Algorithm for solving transportation problems.	Ala	40
27	8/3/22		Assignment problem (Definition) and Mathematical formulation.	Ala	

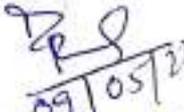
# PROGRESS

DSR-I

Class +2 3rd yr Science

Subject Linear Programming

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
28	9/3/22	2:15 A	More problems on mathematical formulation of assignment problem	Ala	
29	10/3/22	2:15 A	Hungarian method for solving assignment problem	Ala	
30	11/3/22	2:15 A	More problems on Hungarian method for solving assignment problem	Ala	
31	12/3/22	2:15 A	Game theory (Definition), Formulation of two person zero sum games	Ala	
32	14/3/22	2:15 A	Solving two person zero sum game	Ala	
33	15/3/22	2:15 A	More problems of solving two person zero sum game	Ala	
34	16/3/22	2:15 A	Games with mixed strategies	Ala	

  
 09/05/22  
**Academic Bursar**

# LESSON PLAN

Core IV

Class +3 Ist yr. Science Subject Differential Equations No. of Periods/Week .....

Sl. No	Month	Paper & Unit	Topics to be covered	No. of classes required
01	July & August	Core IV Unit I	Differential Equations and mathematical models, General, Particular, Explicit, Implicit and singular solution of a differential equation. Exact differential equations and integrating factors, Separable equations and equations reducible to this form, Linear equations and Bernoulli's equation special integrating factors and transforming.	12
02	Sept.	Unit II	Introduction to compartmental models. Exponential decay radio-activity (case study of detecting art forgeries), Lake pollution model (with case study of Lake Barley Grotton), drug assimilation into the blood (case study of dull, dizzy and dead). exponential growth of population. Density dependent growth, limited growth with harvesting.	08
03	Oct.	Unit III	General solution of homogeneous equation of second order, principle of superposition, Wronskian, its properties and applications, method of undetermined coefficients, Method of variation of parameters, Cases homogeneous and non-homogeneous equations of higher order with constant coefficients, Euler's equation.	12

Counter Signature by HOD

*Amal Kals*  
Signature of Teacher

# PROGRESS

Semester II

20

Class 12<sup>th</sup> Vidyapeeth

Subject Differential Equations

Case IV

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./Principal
01	14/3/22	9:30 A	Differential Equations, order and Degree, Mathematical models of Differential Equations	HLR	
02	15/3/22	9:30 A	Types of solutions: General, Particular, Explicit, Implicit and Integral Solution	HLR	
03	20/3/22	9:30 A	Exact Differential Equations	HLR	
04	22/3/22	9:30 A	Definition, types of exactness and solutions. Integrating factor of type $\frac{1}{xy}$ , $\frac{1}{x^2+y^2}$	HLR	
05	26/3/22	9:30 A	Integrating factor of type $e^{\int P(x) dx}$	HLR	
06	29/3/22	9:30 A	Integrating factor of type $e^{\int \frac{P(x)dx + Q(y)dy}{xy}}$	HLR	
07	1/4/22	9:30 A	Solution of differential Equations by using separation of variables	HLR	
08	3/4/22	9:30 A	Homogeneous Differential Equations	HLR	
09	16/4/22	9:30 A	Equation reducible to Homogeneous Differential Equation	HLR	

# PROGRESS

Class +3 1st Yr SemesterSubject Differential Equations

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
10	20/8/22	2:15 A	Linear Differential Equations and solutions of linear differential equation.	Alr	
11	23/8/22	2:15 A	Bernoulli's Differential Equations. Define and solution of Bernoulli's differential equation.	Alr	
12	25/8/22	2:15 A	Spectral Integrating factors and transformation.	Alr	
13	27/8/22	2:15 A	Introduction to Computational and problems with solutions.	Alr	
14	29/8/22	2:15 A	Exponential decay radioactivity (Case study of detecting forgeries)	Alr	
15	31/8/22	2:15 A	Cake pollution model (with case study of Lake Barlow Griffin)	Alr	
16	6/9/22	2:15 A	Drug assimilation into the blood (Case study of dull, dizzy & dead)	Alr	
17	12/9/22	2:15 A	Exponential growth of population.	Alr	

# PROGRESS

Class +3: 1st & 2nd Subject Differential Equations

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
18	15/9/22		Density dependent growth and problems on it.	ALG	
19	17/9/22		Constant growth with harvesting and problems on it.	ALG	
20	19/9/22		Homogeneous equation of second order and its general solution.	ALG	
21	20/9/22		Principle of Superposition and problems on it.	ALG	
22	22/9/22		Wronskian, Definition, Properties of Wronskian, Applications of Wronskian.	ALG	
23	24/9/22		More problems of Homogeneous equation of second order using Wronskian.	ALG	
24	11/10/22		Method of undetermined coefficients and solution of homogeneous equation of 2nd order by using UC.	ALG	
25	12/10/22		Method of variation of parameters.	ALG	

# PROGRESS

Class 2<sup>nd</sup> / 15 / 12 General Subject Dr. H. K. Bhatia / P. K. Bhatia

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./Principal
20	14/11/22	11:30 AM	Linear homogeneous equations of higher order with constant coefficients.	 <b>Academic Bursar</b>	 H.O.D./Principal
		12:30 PM	...		
		1:30 PM	...		
		2:30 PM	...		
		3:30 PM	...		
		4:30 PM	...		
		5:30 PM	...		
		6:30 PM	...		

# LESSON PLAN

Numerical Methods of (CVIII)

Class +3 22 Yr Science Subject Science Computing No. of Periods/Week

Sl. No	Month	Paper & Unit	Topics to be covered	No. of classes required
01	July & August	Core VIII Unit-I	Rate of convergence, Algorithms, Errors: Relative, Absolute, Round off, Truncation. Approximation in scientific computing, Error propagation and amplification, condition, stability and accuracy, Computer arithmetic mathematical software and libraries, visualization, Numerical solution of non-linear equations, Bisection method, Regula-Falsi method, Secant method, Newton-Raphson method, Fixed point iteration method	12
02	Sept	Unit-II	Rate of convergence of the above methods. System of linear algebraic equations: Gaussian Elimination and Gauss Jordan methods. Gauss Jacobi method, Gauss Seidel method and their convergence analysis, Computing eigen-values and eigen vectors.	14
03	Sept- & Oct	Unit-III	Polynomial interpolation: Existence uniqueness of interpolating polynomials. Lagrange and Newton's divided difference interpolation, Error in interpolation, central difference and averaging operators, Gauss-forward and backward difference interpolation, Hermite and Spline interpolation, piecewise polynomial interpolation.	15

Counter Signature by HOD

*Arvind Kulkarni*  
Signature of Teacher

120209 **PROGRESS**

120209 Science

Subject Numerical Methods & Scientific Computing

Sl. No.	Date	Time	Topics covered (if class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
01	14/3/22		Rate of convergence, Algorithms	Ale	14/3/22
02	16/3/22		Different types of errors: 1) Relative error 2) Absolute error 3) Roundoff error 4) Truncation error	Ale	16/3/22
03	19/3/22		Approximation in scientific computing	Ale	19/3/22
04	20/3/22		Error propagation and amplification	Ale	20/3/22
05	21/3/22		Conditioning, stability and accuracy in calculation	Ale	21/3/22
06	25/3/22		Computer arithmetic mathematical software and libraries	Ale	25/3/22
07	25/3/22		visualisation and conceptual discussion	Ale	25/3/22
08	30/3/22		Numerical solution of non linear equation by using Bisection method	Ale	30/3/22
09	3/4/22		Numerical solution of non linear equation by using Regula-Falsi method	Ale	3/4/22

# PROGRESS Case VIII

Class 13 2nd Yr SecSubject Numerical methods of Engineering

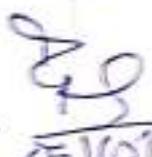
Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
11	12/8/22		Numerical solution of non linear equation by using Secant method	Ala	
12	16/8/22		Numerical solution of non linear equation by using Newton-Raphson method.	Ala	
13	19/8/22		Numerical solution of non linear equation by using Fixed-point iteration method	Ala	
14	20/8/22		Rate of convergence of Bisection method and Regula-Falsi method	Ala	
15	22/8/22		Rate of convergence of Secant method and Newton-Raphson method	Ala	
16	25/8/22		Rate of convergence of Fixed point iteration method	Ala	
17	27/8/22		Solution of the system of linear algebraic equations by Gaussian Elimination method	Ala	
18	29/8/22		<sup>Solution of</sup> system of system of linear algebraic equations by Gauss Jordan method	Ala	
19	02/09/22		Solution of system of linear algebraic equations by Gauss Jacobi method	Ala	

# PROGRESS

Core VIII

Class 13 2<sup>nd</sup> yr Science

Subject Numerical method of Sciences Computer

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
20	05/09/22		Solution of the system of linear algebraic equations by using Gauss serial method.	Ala	
21	06/09/22		Convergence analysis of Gaussian elimination method.	Ala	
22	03/9/22		Convergence analysis of Gauss Jordan method	Ala	
23	05/9/22		Convergence analysis of Gauss Jacobi method.	Ala	
24	09/9/22		Convergence analysis of Gauss - serial method	Ala	
25	15/9/22		Computing eigen values and eigenvectors.	Ala	
26	17/9/22		More problems on eigen values and eigenvectors	Ala	
27	19/9/22		Theorem on existence of uniqueness of interpolating polynomials and simple problems.	Ala	 25/05/22 Academic Bursar

# PROGRESS

Class 13th Science

Subject Neurophysiology of Nervous System

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./Principal
28	20/9/20	2:15	Lagrange Interpolation and problems on it.	SS/P/20	A/B
		2:15	To explain Lagrange's method of interpolation.	SS/P/20	
		2:15	To explain Newton's method of interpolation.	SS/P/20	
		2:15	To explain Stirling's method of interpolation.	SS/P/20	
		2:15	To explain Bessel's method of interpolation.	SS/P/20	
		2:15	To explain Gauss's method of interpolation.	SS/P/20	
		2:15	To explain Everett's method of interpolation.	SS/P/20	
		2:15	To explain the method of finite differences.	SS/P/20	
		2:15	To explain the method of undetermined coefficients.	SS/P/20	

  
 A. Arshad  
 Academic In-charge

# LESSON PLAN

Core XIV

Class +3 2nd yr Science Subject Group Theory II No. of Periods/Week .....

Sl. No	Month	Paper & Unit	Topics to be covered	No. of classes required
1	April & May	Core XIV Unit I	Automorphism, Inner Automorphism, Automorphism groups, Automorphism groups of finite and infinite cyclic groups, Application of factor groups to automorphism groups, Characteristic subgroups	10
2	May	Unit II	Commutator subgroup and its properties, properties of external direct products, the group of units modulo $n$ as an external direct product, internal direct products, Fundamental theorem of finite abelian groups.	10
3	June	Unit III	Group action, stabilizers and kernels, permutation representation associated with a given group action, Application of group action: Generalised Cayley's theorem, Index Theorem	06
4	June	Unit IV	Groups acting on themselves by conjugation, Class equation and consequences, Conjugacy in $S_n$ , $p$ -groups, Sylow's theorems and consequences, Cauchy's theorem, Simplicity of $A_n$ for $n \geq 5$ , non-simplicity tests	10

Counter Signature by HOD

*Aravind Reddy*  
Signature of Teacher

No. of classes required

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./Principal
01	14/4/22	2/A	Automorphism of group Fundamental concepts	Ala	
02	20/4/22	2/A	Inner Automorphism Definition and conceptual Discussion	Ala	
03	22/4/22	2/A	Automorphism groups Basic definition and Theorem	Ala	
04	23/4/22	2/A	Automorphism and cyclic groups	Ala	
05	26/4/22	2/A	Automorphism of finite cyclic groups and Theorem	Ala	
06	27/4/22	2/A	Automorphism groups of infinite cyclic groups and Theorem	Ala	
07	29/4/22	2/A	Applications of factors groups to automorphism groups	Ala	
08	30/4/22	2/A	Theorems of factors groups to automorphism groups as problems on it	Ala	
09	04/5/22	2/A	Characteristic subgroups Conceptual Discussion	Ala	
10	05/5/22	2/A	Problems on characteristic subgroups	Ala	

10

10

6

0

10

# PROGRESS

Semester - VI

Core XIV

Date: 23/04/22

Subject: Groups Theory II

Sl No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./Principal
01	23/4/22	2:30	Automorphism as group Fundamental concepts	Ala	
02	24/4/22	2:30	Inner Automorphism Definition and conceptual Discussion	Ala	
03	25/4/22	2:30	Automorphism groups 3, or 4 definition and theorem	Ala	
04	26/4/22	2:30	Automorphism and cyclic groups	Ala	
05	27/4/22	2:30	Automorphism of finite cyclic groups as theorem	Ala	
06	28/4/22	2:30	Automorphism groups of infinite cyclic groups as theorem	Ala	
07	29/4/22	2:30	Application of factor groups to automorphism groups	Ala	
08	30/4/22	2:30	Theorems of factor groups to automorphism groups as problems with	Ala	
09	01/5/22	2:30	Characteristic subgroups Conceptual Discussion	Ala	
10	02/5/22	2:30	Problems on characteristic subgroups	Ala	

10

10

06

10

# PROGRESS

Semester VI

Class +3 B.Sc. Science

Core VII

Subject Group Theory

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
01	19/4/22	2/A	Automorphism in group Fundamental concepts	Ale	
02	20/4/22	2/A	Inner Automorphism Definition and conceptual Discussion	Ale	
03	22/4/22	2/A	Automorphism groups Basic definition and Theorem	Ale	
04	23/4/22	2/A	Automorphism and cyclic groups	Ale	
05	24/4/22	2/A	Automorphism of finite cyclic groups and Theorem	Ale	
06	27/4/22	2/A	Automorphism groups of infinite cyclic groups and Theorem	Ale	
07	29/4/22	2/A	Application of factors groups to automorphism groups	Ale	
08	30/4/22	2/A	Theorems of factors groups to automorphism groups and problems on it	Ale	
09	04/5/22	2/A	Characteristic subgroups Conceptual Discussion	Ale	
10	05/5/22	2/A	Problems on characteristic subgroups	Ale	

# PROGRESS

Conc XIV

Class ... B.Sc. Mathematics Subject ... Group Theory

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./Principal
11	6/5/22	2/1A	Commutator subgroups Definitions and different examples	Ala	
12	7/5/22	2/1A	Properties of commutator subgroups	Ala	
13	7/5/22	2/1A	Fundamental concept of external direct product	Ala	
14	9/5/22	2/1A	Properties of external direct products	Ala	
15	10/5/22	2/1A	Theorems and properties of external direct products	Ala	
16	11/5/22	2/1A	The group of units modulo $n$ as an external direct product	Ala	
17	12/5/22	2/1A	External direct product Basic definition and properties	Ala	
18	14/5/22	2/1A	Isomorphism of external direct products	Ala	
19	16/5/22	2/1A	Fundamental Theorem of finite abelian groups.	Ala	

Ala  
09/05/22  
Academic Bursa

# PROGRESS

Core XIV

Class +3 Sci for Science

Subject Group Theory

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
20	17/5/22		More problems on finite abelian groups	Ale	
21	19/5/22		Group actions	Ale	
22	24/5/22		Stabilizers and kernels Problems related to stabilizers and kernels	Ale	
23	23/5/22		Permutation representation associated with a given group action.	Ale	
24	24/5/22		Application of group action and conceptual study	Ale	
25	12/6/22		Generalised Cayley's Theorem statement and proof	Ale	
26	20/6/22		Index Theorem: Statement and proof	Ale	
27	21/6/22		Groups acting on themselves by conjugation	Ale	
28	22/6/22		Class equation and consequences.	Ale	
29	23/6/22		Conjugation on $S_n$ and related problems on it.	Ale	 25/07/22 <b>Academic Bursar</b>
30	29/6/22		p-groups and problems on it.	Ale	

Session: 2021-2022.



**PATTAMUNDAI COLLEGE**  
**PATTAMUNDAI, KENDRAPARA**

**SESSION 2021 -2022**

**JUNE — DEC.**

CLASS +3, 5<sup>TH</sup>, 3<sup>RD</sup> & 1<sup>st</sup> Sem.

**+3 STREAM**

**LESSON PLAN AND PROGRESS REGISTER**

(To be maintained by all members of teaching staff)

FULL NAME OF THE TEACHER Ranjit Keshari Senapati

DESIGNATION Reader in Sociology

DEPARTMENT Sociology

*Signature*

# PATTAMUNDAI COLLEGE

Pattamundai, Kendrapara

Affix  
Photograph

## BIODATA

1. Name : Ranjit Kachari Senapati (Capital Letters)

2. Designation : Reader in Sociology

3. Date of Birth : \_\_\_\_\_

4. Date of joining : \_\_\_\_\_

5. Academic Qualification : \_\_\_\_\_

6. Academic achievement :

a) No. of Research Project completed : \_\_\_\_\_

b) No. of On-going Projects : \_\_\_\_\_

c) No. of Research Scholars :

(i) Completed Ph.D. : \_\_\_\_\_

(ii) Continuing Ph. D. : \_\_\_\_\_

(iii) Completed M.Phil.: \_\_\_\_\_

(iv) Continuing M.Phil : \_\_\_\_\_

7. Any distinctions / prizes / awards received : \_\_\_\_\_

8. No. of Books published : \_\_\_\_\_

9. No. of Research paper published & Communicated \_\_\_\_\_

10. Present Address : Pattamundai College, Pattamundai

Contact No. : Phone :/Mob. 9437276191

e-mail ID : \_\_\_\_\_

# CONTENTS

Sl. No.	Class/ Semester	Paper/Unit	Topics assigned	Page No.
1	2	3	4	5
	5TH Semester	Core-11	Research Methodology (unit - 3 & 4) only.	01
		DSE-01	Sociology of Health.	07
		Core-12	Sociology of social Movements. (unit - 3 & 4) only.	05
	3RD Semester	Core-6	Social Change and Development.	13
		Core-7	Sociology of Gender unit - I & II only.	19
	1ST Semester	Core-2	Introduction to Sociology-II	25

Rami Jada

# LESSON PLAN

## Core - II

Class 5th Sem. Subject Research Methodology No. of Periods/Week .....

Sl No	Month	Paper & Unit	Topics to be covered	No. of classes required
		Unit-1 <i>Taught by M.P.</i>	Meaning, Definition and Utility of Social research. Major Steps in social research. Scientific Methods - its Characteristics Application of scientific Method.	
		Unit-2 <i>M.P. Taught by M.P.</i>	Meaning, Definition and Characteristics of Hypothesis. Types and Sources of Hypothesis Sampling - Meaning & characteristics Types of sampling - Probability and Non-Probability.	
		Unit-3 <i>RKS</i>	Qualitative and Quantitative Methods - Observation, Interview Schedule and Questionnaire. Case study method.	12
		Unit-4 <i>RKS</i>	Data Analysis & Report Writing. Significance & measures of Central Tendency - Mean, Median & Mode. Tabulation & Data Analysis Report Writing.	14
Total no of classes Required =				26

*Prasad*  
Counter Signature by HOD

Signature of Teacher

# LESSON PLAN

Core-11

Class 5th Sem.

Subject Research Methodology

No. of Periods/Week .....

Sl. No	Month	Paper & Unit	Topics to be covered	No. of classes required
		Unit-1 Taught by M.P.	Meaning, Definition and Utility of social research. Major Steps in social research Scientific Methods - its Characteristics Application of scientific Method.	
		Unit-2 Taught by M.P.	Meaning, Definition and Characteristics of Hypothesis. Types and sources of Hypothesis Sampling - Meaning, & characteristics Types of sampling - Probability and Non-Probability.	
		Unit-3 RKS	Qualitative and Quantitative methods - Observation, Interview Schedule and Questionnaire. Case study method.	12
		Unit-4 RKS	Data Analysis & Report Writing: Significance of measures of Central Tendency - Mean, Median & Mode. Tabulation & Data Analysis Report writing.	14
Total no. of classes Required =				26

Prepared:

Counter Signature by HOD

Signature of Teacher

# PROGRESS

Class 5th Sem.

Subject Research Methodology

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./ Principal
1.	3.11.21	10.00	Unit-3 Qualitative and Quantitative method - its meaning	<i>[Signature]</i>	
2.	5.11.21	10.00	Observation Method - its meaning & definition, Features	<i>[Signature]</i>	
3.	5.11.21	11.00	Types of observation, do.	<i>[Signature]</i>	
4.	8.11.21	11.00	Role of observation	<i>[Signature]</i>	
5.	9.11.21	10.00	Limitations of observation	<i>[Signature]</i>	
6.	9.11.21	11.00	Interview method - its meaning & definition	<i>[Signature]</i>	
7.	9.11.21	12.00	Types of Interview	<i>[Signature]</i>	
8.	10.11.21	11.00	Role of Interview in Social research	<i>[Signature]</i>	
9.	11.11.21	10.00	Critical evaluations	<i>[Signature]</i>	
10.	11.11.21	11.00	Questionnaire method - its meaning & definition	<i>[Signature]</i>	
11.	13.11.21	10.00	Types of Questionnaire	<i>[Signature]</i>	
12.	13.11.21	11.00	Schedule - its meaning and Types	<i>[Signature]</i>	
13.	15.11.21	10.00	Distinction between Questionnaire & schedule	<i>[Signature]</i>	
14.	15.11.21	11.00	Case Study method - its meaning & definition	<i>[Signature]</i>	
15.	16.11.21	10.00	Role of Case Study in Social research	<i>[Signature]</i>	
16.	16.11.21	11.00	UNIT - 4		
17.	18.11.21	11.00	Merits and Demerits of Measure of Central Tendency & its meaning	<i>[Signature]</i>	
18.	22.11.21	11.00	Mean & Median Mode	<i>[Signature]</i>	

*Provide*  
22.11.21

*[Signature]*

# PROGRESS

Class .....

Subject .....

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./Principal
19.	23.11.21	10.00	Calculation of Mean	<i>[Signature]</i>	
20.	23.11.21	11.00	Calculation of Median	<i>[Signature]</i>	
21.	24.11.21	11.00	Calculation of Mode	<i>[Signature]</i>	
22.	27.11.21	10.00	Calculation of Merit	<i>[Signature]</i>	
23.	27.11.21	11.00	Calculation & problem solution	<i>[Signature]</i>	
24.	30.11.21	10.00	Tabulation and data analysis methods and procedure	<i>[Signature]</i>	<i>[Signature]</i> 21/11/21
25.	30.11.21	11.00	Preparation of Table as per data collected -	<i>[Signature]</i>	<i>[Signature]</i> 21/02/22
26.	30.11.21	12.00	Procedures and format of Report writing	<i>[Signature]</i>	
			<p>Allocated portion of the course is hereby completed.</p> <p><i>[Signature]</i></p>		

# PROGRESS

Sociology of social Movement.

5TH SEM.

Class .....

Subject .....

Sl No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D/Principal
			<p><u>only unit - 3 &amp; 4 allotted to me.</u></p> <p><u>unit - 3</u></p> <p>Mahar movement in Maharashtra Dalit Movement and Non-Brahmin movement in Tamil Nadu, SNDP movement in Kerala, Santhal Insurrection, Jharkhand Movements.</p>		15
			<p><u>unit - 4</u></p> <p>Womens' movement in India — The social reforms movements and women, Women in the Indian National movement Women in Chipko movement Contemporary Womens' movements in India.</p>		15
			<p>—————</p> <p>2 units</p> <p>provid</p>	<p>Total no of classes required = 30</p>	

**PROGRESS**

Class 5TH SEM.

Unit III

Subject Social Movements in India

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
1.	3.12.21	11.00	Historical background of Maharashtra movement of Maharashtra	<i>[Signature]</i>	
2.	4.12.21	10.00	Aims and objectives -	<i>[Signature]</i>	
3.	4.12.21	11.00	Effects of Maharashtra movement	<i>[Signature]</i>	
4.	17.12.21	11.00	Dalit Movement - its aims and objectives	<i>[Signature]</i>	
5.	18.12.21	10.00	Effect and consequences of Dalit movement -	<i>[Signature]</i>	
6.	18.12.21	11.00	Non-Brahmin Movement of Tamil Nadu - Aims	<i>[Signature]</i>	
7.	20.12.21	10.00	Causes of Non-Brahmin movement	<i>[Signature]</i>	
8.	20.12.21	11.00	Consequences of Non-Brahmin movement	<i>[Signature]</i>	
9.	21.12.21	10.00	SNMP movement of Kerala, its effect and consequences	<i>[Signature]</i>	
10.	21.12.21	11.00	- do -	<i>[Signature]</i>	
11.	22.12.21	10.00	Santhal Insurrection - its aims and causes	<i>[Signature]</i>	
12.	22.12.21	11.00	Effect and consequences of Santhal Insurrection.	<i>[Signature]</i>	
13.	23.12.21	10.00	Jharkhand movement - its historical background and aims	<i>[Signature]</i>	
14.	23.12.21	11.00	Causes of J. movement	<i>[Signature]</i>	
ONLINE CLASSES RESUMED!					
15.	3.1.22	10.00	UNIT - 4 Role of women in various social reform movements	<i>[Signature]</i>	
16.	8.1.22	10.00	- do -	<i>[Signature]</i>	
17.	10.1.22	10.00	Role of women in National movements of India	<i>[Signature]</i>	
18.	12.1.22	10.00	Contributions of women leaders	<i>[Signature]</i>	

*[Signature]*  
23.12.21

ONLINE classes started

*[Signature]*

# LESSON PLAN

DSE - 1

Class 5TH SEM.

Subject Sociology of Health

No. of Periods/Week         

Sl. No	Month	Paper & Unit	Topics to be covered	No. of classes required
		Unit-1	Sociology of Health — meaning & perspectives Emergence of Health sociology Scope, Social Determinants of Health.	12
		Unit-2	Sociological Perspectives of Health — Functionalist, Marxist, Post structuralist, Feminist.	12
		Unit-3	Health Programmes in India:— Pradhan Mantri Swasthya Surakhya Yojana (PMSSY) Janani Surakhya Yojana (JSY) National Urban Health Mission National Aids Control Programme	14
		Unit-4	Health Sector Reforms of Govt.— Health Policies of G.O.I. Role of ICDS Protective and Preventive measures - Promotive measures (Modern and Indigenous).	14
<p>progress of this paper begins from Page no-09.</p> <p style="text-align: right;">(P.T.O.)</p>				52

Counter Signature by HOD

Signature of Teacher

# PROGRESS

SOCIAL MOVEMENT IN INDIA.

Class

5TH SEM. 1002

Subject

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./Principal
19.	18.1.22	10.00	Chipko <sup>unit-14</sup> Movement - The role played by Women	<i>[Signature]</i>	
20.	21.1.22	10.10	Effects of chipko movements in India.	<i>[Signature]</i>	
21.	24.1.22	10.10	Contemporary Women's movements in India during Pre-Independence period.	<i>[Signature]</i>	
22.	27.1.22	10.10	Women's movements after Independence Sahada Movement, Anti-Dowry movement, Anti-Price-rise Women's movement (of 1970)	<i>[Signature]</i>	<i>[Signature]</i> 21/02/22
23.	<del>28.1.22</del> 29.1.22	10.10	Nav Nirman Movement, Meira Paibi Movement of Manipur	<i>[Signature]</i>	
24.	30.1.22	10.00	Chipko Movement of Women	<i>[Signature]</i>	
			The allotted portion of this paper has been covered up.		

# PROGRESS

Subject SOCIOLOGY OF HEALTH

Class 5TH SEM.

Sl No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
<u>UNIT - 1</u>					
1.	1.2.22	10.00	Meaning and definition of Sociology of Health and its emergence	[Signature]	[Signature]
2.	3.2.22	11.00	Perspectives of sociology of Health	[Signature]	[Signature]
3.	7.2.22	10.00	Marxian, Functionalist perspectives of Health	[Signature]	[Signature]
Physical classes					
4.	7.2.22	10.45	scope of sociology of Health	[Signature]	[Signature]
5.	8.2.22	10.00	- do -	[Signature]	[Signature]
6.	8.2.22	10.45	Social determinants of Health -	[Signature]	[Signature]
7.	8.2.22	11.30	Economic determinants of Health	[Signature]	[Signature]
8.	9.2.22	11.30	Importance of sociology of Health in India -	[Signature]	[Signature]
<u>UNIT - 2</u>					
9.	11.2.22	11.30	Sociological Perspectives of Health	[Signature]	[Signature]
10.	12.2.22	10.00	Functionalist Perspectives - view of Emile Durkheim	[Signature]	[Signature]
11.	12.2.22	10.45	Spencer's view on health	[Signature]	[Signature]
12.	14.2.22	10.00	Comte's view on Health	[Signature]	[Signature]
13.	14.2.22	10.45	Talcott Parson's Perspectives	[Signature]	[Signature]
14.	15.2.22	10.00	Marxian Perspectives -	[Signature]	[Signature]
15.	15.2.22	10.45	views of Lewis Coser	[Signature]	[Signature]
16.	15.2.22	11.30	Views of Morgan	[Signature]	[Signature]
17.	16.2.22	11.30	Feminist Perspectives -	[Signature]	[Signature]
18.	17.2.22	10.45	Post-structural perspectives	[Signature]	[Signature]
19.	18.2.22	11.30	views of M.E. Durkheim, Malinowski, R.K. Merton	[Signature]	[Signature]
20.	19.2.22	10.45	Comparative views of Marxian and Functionalist perspectives -	[Signature]	[Signature]
21.	19.2.22	11.30	Limitations of Marxian, Functionalist approach -	[Signature]	[Signature]

*Princip*  
19.2.22

# PROGRESS

Class .....

Subject .....

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
			<u>UNIT - III</u>		
22.	21.2.22	10.00	Health programme in India - Pandhvan Mantri Surasthya yojana.	[Signature]	
23.	21.2.22	10.45	Aims and objectives of this yojana	[Signature]	
24.	22.2.22	10.00	Institutional set up under this scheme -	[Signature]	
25.	22.2.22	10.45	Effects of Pandhvan Mantri Surasthya Surasthya yojana	[Signature]	
26.	22.2.22	11.30	Janani Surasthya yojana	[Signature]	
27.	24.2.22	10.45	Broad objectives and implementation -	[Signature]	
28.	24.2.22	11.30	Outcomes of Janani Surasthya yojana	[Signature]	
29.	25.2.22	10.45	National Urban Health Mission -	[Signature]	
30.	26/2/22	11.30	Major activities of NUHM and critical evaluation.	[Signature]	
31.	26/2/22	12.45	National AIDS control programme - objectives	[Signature]	
31.	26/2/22	1.00	Role of NACP.	[Signature]	
<del>32.</del>	<del>10/3/22</del>	<del>10.45</del>	<u>UNIT - IV</u>		
32.	10/3/22	10.45	Health Policies of Govt. of India	[Signature]	
33.	11.3.22	10.45	Role of I.C.D.S. in improving human health.	[Signature]	
34.	11.3.22	11.35		[Signature]	
35.	14/3/22	10.45	Protective and preventive measures taken by GOI	[Signature]	
36.	14/3/22	11.30	Promotive measures taken by GOI to reform Health Sector.	[Signature]	
37.	15/3/22	10.45	Health Sector Reforms	[Signature]	
38.	15/3/22	11.30	Health policies of State Govt.	[Signature]	
39.	15/3/22	12.15	National AIDS control programme	[Signature]	
40.	21/3/22	10.45	Causes deterioration of Health - Q. no 1 k. k. Report.	[Signature]	
			21/3/22		

Final  
 24/2/22  
 [Signature]  
 24/2/22

Courses are covered.

# LESSON PLAN

Core - 6

Social Change and Development.

Class 3rd Sem.

Subject ..... No. of Periods/Week .....

Sl. No	Month	Paper & Unit	Topics to be covered	No. of classes required
		Unit-1	<p>Social Change :-            Meaning &amp; Definition            Social Evolution and Progress            Meaning &amp; Features,            Factors of social change :-            Cultural, Technological and Demographic.</p>	
		Unit-2	<p>Theories of change :-            Evolutionary, Functionalist,            Conflict, &amp; cyclical theory.</p>	
		Unit-3	<p>Models of Development :-            Indicators of social Development            Capitalist, Socialist            and Gandhian.</p>	
		Unit-4	<p>Processes of social Change :-            Sanskritization,            Westernization,            Modernization,            Secularization.</p>	

Prepared

# PROGRESS

## SOCIAL CHANGE & DEVELOPMENT.

Subject

Class 3RD SEM.

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D/ Principal
<u>UNIT - I</u>					
1.	3.11.21	11.30	Meaning and definitions of social change - Nature of social change.	<i>[Signature]</i>	
2.	5.11.21	12.15	Social Evolution - its meaning and Nature	<i>[Signature]</i>	
3.	9.11.21	12.15	Social Progress - its meaning and nature	<i>[Signature]</i>	
4.	10.11.21	11.30	Social Development - meaning and Definition and its nature.	<i>[Signature]</i>	
5.	11.11.21	11.30	Distinction between social change and Evolution	<i>[Signature]</i>	
6.	11.11.21	12.15	Distinction between social progress and development.	<i>[Signature]</i>	
7.	13.11.21	11.30	Factors of social change: - Cultural Factor	<i>[Signature]</i>	
8.	15.11.21	12.15	Technological factor of change	<i>[Signature]</i>	
9.	17.11.21	12.15	Demographic factor of social change -	<i>[Signature]</i>	
10.	18.11.21	11.30	Social factor of change -	<i>[Signature]</i>	
<u>UNIT - II</u>					
11.	19.11.21	12.15	Theories of social change: - Evolutionary theory of change - Views of Comte, Herbert Spencer	<i>[Signature]</i>	
12.	20.11.21	11.30	Views of other sociologists on evolutionary theory	<i>[Signature]</i>	
13.	20.11.21	12.15	Functionalist theory of change - Views of Emile Durkheim, Talcott Parsons -	<i>[Signature]</i>	
14.	23.11.21	11.30	Views of Malinowski,	<i>[Signature]</i>	
15.	24.11.21	12.15	Views of R.K. Merton on functionalist theory	<i>[Signature]</i>	
16.	25.11.21	12.15	Conflict theory of social change - Views of Karl Marx, Engels	<i>[Signature]</i>	
17.	26.11.21	11.30	Views of Lewis Coser	<i>[Signature]</i>	
18.	26.11.21	12.15	Views of Max Weber and George Simmel -	<i>[Signature]</i>	
19.	27.11.21	12.15	Cyclical theory of change views of Oswald Spengler, Toynbee	<i>[Signature]</i>	
20.	30.11.21	11.30	Views of Redcliffe Brown	<i>[Signature]</i>	

Ranjit Sarkar

# PROGRESS

Class .....

Subject .....

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
21.	1.12.21	11.30	Criticisms of Evolutionary and Functionalist Theory	<i>[Signature]</i>	
22.	1.12.21	12.15	Criticism of Conflict and Cyclical Theory -	<i>[Signature]</i>	
23.	3.12.21	11.30	<u>UNIT-3</u>		
			Models of Development:-	<i>[Signature]</i>	
24.	3.12.21	12.15	Capitalist model of development	<i>[Signature]</i>	
25.	17.12.21	11.30	Its basic assumptions	<i>[Signature]</i>	
26.	17.12.21	12.15	Main features of Capitalist model -	<i>[Signature]</i>	
27.	22.12.21	11.30	advantages & disadvantages of Capitalist model -	<i>[Signature]</i>	
28.	22.12.21	12.15	Socialist model of Development - its features	<i>[Signature]</i>	
29.	23.12.21	11.30	Merits and demerits of Socialist Model -	<i>[Signature]</i>	
30.	23.12.21	12.15	Limitations of socialist model -	<i>[Signature]</i>	
Online classes begin					
31.	10.01.22	11.00	Gandhian model of dev. - its features	<i>[Signature]</i>	
32.	11.1.22	11.00	Merits & demerits of Gandhian Model of Dev.	<i>[Signature]</i>	
33.	13.1.22	11.00	Relevance of Gandhian model	<i>[Signature]</i>	
34.	15.1.22	11.00	Sustainable Development through Gandhian model -	<i>[Signature]</i>	
35.	17.1.22	11.00	Indicators of social developments	<i>[Signature]</i>	
36.	19.1.22	11.00	GDP, GNP, GNP per Capita, HDI, Literacy rate & Life expectancy, etc.	<i>[Signature]</i>	
37.	20.1.22	11.00	-do-	<i>[Signature]</i>	
			<u>Unit-4</u>		
38.	21.1.22	11.00	Process of <del>sanskritization</del> , Process of Sanskritization - Concept & Features	<i>[Signature]</i>	
39.	24.1.22	11.00	Causes of Sanskritization	<i>[Signature]</i>	
40.	28.1.22	11.00	Effects of Sanskritization	<i>[Signature]</i>	
41.	31.1.22	11.00	Westernization - Meaning and its Features -	<i>[Signature]</i>	

*Ranjit Jambh*

# PROGRESS

Class .....

Subject .....

Sl No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
42.	2.2.22	11.00	Impact of Westernization on Indian Society.	<i>[Signature]</i>	
43.	4.2.22	12.15	Modernization - its meaning and characteristics	<i>[Signature]</i>	
44.	7.2.22	11.30	Concept and different Connotations	<i>[Signature]</i>	
45.	8.2.22	12.15	Effects of Modernization	<i>[Signature]</i>	
46.	9.2.22	11.30	Merits and demerits of Modernization	<i>[Signature]</i>	
47.	10.2.22	12.15	Secularization - Meaning and characteristics	<i>[Signature]</i>	
48.	11.2.22	11.30	Effects of Secularization in India	<i>[Signature]</i>	
49.	14.2.22	12.15	Factors responsible for Secularization -	<i>[Signature]</i>	
50.	16.2.22	12.15	Secularization facilitates the process of Sanskritization in India - A critical analysis.	<i>[Signature]</i>	

Total  
16.2.22  
*[Signature]*  
24/02/22

All the courses of this paper are covered till date.  
*[Signature]*  
16.2.22.

## LESSON PLAN

Core-7

## Sociology of Gender

Class 3RD SEM.

Subject

No. of Periods/Week

Sl. No	Month	Paper & Unit	Topics to be covered	No. of classes required
		unit-I.	<p><u>unit-I</u></p> <p>Social construction of Gender:            Gender as a social construct,            Gender vs Sex            Gender stereotyping and Gender Socialization,            Gender Role and Identity.</p>	10
		unit-II.	<p><u>unit-II</u></p> <p>Feminism:-            Its meaning and definition,            Origin, Growth of feminism,            Waves of feminism.            Patriarchy,            Theories of feminism:-            Liberal, Radical, Socialist,            Marxist and Materialist.</p>	12
			<p>— o —</p> <p>Total no classes required = 22</p>	22

*P. P. P. P.*  
 Counter Signature by HOD

Signature of Teacher

## PROGRESS

SOCIOLOGY OF GENDER

Class 13 3RD SEM.

Subject

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
			<u>UNIT - I.</u>		
1.	17.2.22	11.30	Meaning and discussing the concept of sex and Gender.		
2.	18.2.22	11.30	Social Construction of Gender.		
3.	19.2.22	12.15	Gender vs Sex		
4.	23.2.22	11.30	Gender as a social construct		
5.	24.2.22	12.15	Gender stereotyping		
6.	25.2.22	11.30	Gender stereotyping		
7.	25.2.22	12.15	Gender socialization		
8.	26/2/22	11.30	Relationship between Gender socialization and stereotyping		
9.	10/3/22	11.30	Gender Role and Identity.		
			<u>UNIT - II</u>		
10.	11.3.22	11.30	Feminism - meaning and concept.		
11.	11.3.22	12.15	Origin & growth of Feminism		
12.	12.3.22	12.15	1st Wave & 2nd Wave of Feminism		
13.	14.3.22	11.30	3rd & 4th Wave of Feminism		
14.	15.3.22	12.15	Patriarchy - meaning & background		
15.	17.3.22	12.15	Theories of Feminism - Liberal Feminism		
16.	21.3.22	11.30	Radical Feminism		
17.	22.3.22	12.15	Socialist Feminism		
18.	22.3.22	1.00	Marxist Feminism -		
19.	23.3.22	11.30	Materialist Feminism.		
20.	23/3/22	12.15	Critical evaluation of theories		
			Allotted portion of the courses are completed.		

Ranjit Kaur Gupta  
23/3/22.

Class 1st Sem. Subject ..... No. of Periods/Week .....

Sl. No	Month	Paper & Unit	Topics to be covered	No. of classes required
		<u>unit - I</u>	Individual, Society & Culture: Social Structure, Types of Society - Primitive, Agrarian and Industrial. Relationship between Individual and Society. Culture and Personality: Theories of Self :- G.H. Cooley, & G.H. Mead.	
		<u>unit - 2</u>	<u>Socialization</u> : Meaning, definition and Types, Stages of Socialization, Agencies of Socialization, Theories of Socialization - G.H. Mead & G.H. Cooley.	
		<u>unit - 3</u>	<u>Social Control</u> :- Meaning and definition, its nature. Importance of Social Control, Types of Social Control - Formal and Informal Social Control, Agencies of Social Control.	
		<u>unit - 4</u>	<u>Social Processes</u> : Meaning and definition, Associative social processes - Co-operation, Accommodation and Assimilation. Dissociative social processes - Competition and Conflict. Co-operation, Conflict and Competition - Interrelationships and tolerance.	

Counter Signature by HOD

Signature of Teacher

# PROGRESS

INTRODUCTION TO SOCIOLOGY-II.  
Subject .....

Class 1st Sem.

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
1.	5.11.21	1.00	<u>UNIT-1</u> Society - Meaning and characteristics -	[Signature]	
2.	5.11.21	1.45	Relationship between Individual and Society -	[Signature]	
3.	8.11.21	1.00	Theories for Individual and Society -	[Signature]	
4.	8.11.21	1.45	Culture - Meaning and characteristics -	[Signature]	
5.	9.11.21	1.45	Types of culture - Material culture & Non-Material	[Signature]	
6.	10.11.21	1.00	Concept of Cultural-lag -	[Signature]	
7.	11.11.21	1.45	Functions of culture -	[Signature]	
8.	15.11.21	1.00	Social structure - meaning and features -	[Signature]	
9.	15.11.21	1.45	Types of society -	[Signature]	
10.	16.11.21	1.45	Personality - meaning and nature	[Signature]	
11.	17.11.21	1.00	Role of culture in the dev. of personality.	[Signature]	
12.	19.11.21	1.00	Theories of self - C.H. Cooley	[Signature]	
13.	22.11.21	1.00	Cooley's view on self	[Signature]	
14.	22.11.21	1.45	G.H. Mead's theory of self.	[Signature]	
			<u>UNIT-11</u>		
15.	23.11.21	1.00	Socialization - its meaning and nature	[Signature]	
16.	23.11.21	1.45	Types of socialization	[Signature]	
17.	24.11.21	1.00	Stages of socialization	[Signature]	
18.	26.11.21	1.45	Agencies of socialization	[Signature]	
19.	30.11.21	1.00	- do -	[Signature]	
20.	17.12.21	1.45	Theories of socialization. G.H. Mead's theory	[Signature]	
21.	19.12.21	1.00	Mead's view of socialization.	[Signature]	
22.	20.12.21	1.00	C.H. Cooley's theory of socialization	[Signature]	
23.	21.12.21	1.45	Mead's theory on socialization.	[Signature]	
24.	22.12.21	1.00	Criticisms of Cooley & Mead's theory -	[Signature]	
			<u>UNIT-3</u>		
25.	10.1.22	12.00	Social Control - its meaning and nature -	[Signature]	
26.	13.1.22	12.00	Importance of social control -	[Signature]	
27.	15.1.22	12.00	Types of social control -	[Signature]	
28.	17.1.22	12.00	Formal & Informal social control -	[Signature]	

Ranjit Kumar

Jaspreet  
11/22

PROGRESS

INTRODUCTION TO SOCIOLOGY - II

Class 1st Sem.

Subject

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D/Principal
29.	19.1.22	12.00	Agencies of social control - Formal agencies	[Signature]	
30.	20.1.22	12.00	Informal agencies of social control -	[Signature]	
31.	21.1.22	12.00	Relationship between Socialization and social control -	[Signature]	
32.	24.1.22	12.00	Acculturation, Cultural diffusion, Cultural conflict -	[Signature]	
33.	24.1.22	12.00	Cultural Ambivalence, Cultural lag	[Signature]	
34.	28.1.22	12.00	Role of culture in maintaining social control -	[Signature]	
		12.00	Unit - 4		
35.	31.1.22	12.00	Social processes - its meaning, nature	[Signature]	
36.	31.1.22	12.00	Associative social process - Co-operation - its meaning and characteristics	[Signature]	
37.	2/2/22	12.00	Types of Co-operation	[Signature]	
38.	4/2/22	12.00	Role of co-operations.	[Signature]	
39.	7.2.22	12.15	Physical classes basis - Meaning & definition & Features of Accommodation.	[Signature]	
40.	7.2.22	1.00	Forms and methods of accommodation in society	[Signature]	
41.	9.2.22	1.00	Types of accommodations.	[Signature]	
42.	11.2.22	12.45	Assimilation - its meaning and characteristics	[Signature]	
43.	12.2.22	1.00	Types of assimilation -	[Signature]	
44.	14.2.22	12.15	Assimilation vs acculturation -	[Signature]	
45.	15.2.22	1.45	Dissociative process - Competition - its meaning and characteristics.	[Signature]	

15/2/22

Ranjit Jurela

# PROGRESS

Class ..... Subject .....

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./ Principal
46.	16.2.22	1.45	Types of Competitions	<i>[Signature]</i>	
47	18.2.22	1.00	Role of competitions in Society	<i>[Signature]</i>	
48.	23.2.22	12.15	Conflict as social process -	<i>[Signature]</i>	<i>[Signature]</i> 13.2.22
49.	25.2.22	1.00	Meaning and characteristics	<i>[Signature]</i>	<i>[Signature]</i>
50.	26/2	1.45	Types of Conflict.	<i>[Signature]</i>	24/02/22
51.	11/3/22	12.15	Role of conflict in Society	<i>[Signature]</i>	
52.	12/3/22	12.15	Distinguish between competition and conflict	<i>[Signature]</i>	
53.	14/3/22	12.15	Interrelationship & relevance of competition and conflict.	<i>[Signature]</i>	
54.	14/3/22	1.00	Interrelationship between cooperation and accommodation.	<i>[Signature]</i>	
55.	17/3/22	12.15	Revision & doubt clearing classes -	<i>[Signature]</i>	

Courses are covered.

Ranjit Kishor Singh  
17.3.22



# PATTAMUNDAI COLLEGE

## PATTAMUNDAI, KENDRAPARA

**SESSION 2021 -2022**

*Odd Semester*

CLASS *+3 1st, 2nd and 3rd Years*.....

**+3 STREAM**

## LESSON PLAN AND PROGRESS REGISTER

(To be maintained by all members of teaching staff)

FULL NAME OF THE TEACHER SUBHASIS MISHRA

DESIGNATION LECTURER IN ECONOMICS

DEPARTMENT ECONOMICS

*S. Mishra*  
Signature

# PATTAMUNDAI COLLEGE

Pattamundal, Kendrapara

Attach  
Photograph

## BIODATA

1. Name : SUBHASIS MISHRA (Capital Letters)
2. Designation : Lecturer in Economics
3. Date of Birth : 07.06.1990
4. Date of joining : 06.10.2016
5. Academic Qualification : MA, NET, JRF
6. Academic achievement :
  - a) No. of Research Project completed :
  - b) No. of On-going Projects :
  - c) No. of Research Scholars :
    - (i) Completed Ph.D. :
    - (ii) Continuing Ph. D. :
    - (iii) Completed M.Phil.:
    - (iv) Continuing M.Phil :
7. Any distinctions / prizes / awards received :
8. No. of Books published : \_\_\_\_\_
9. No. of Research paper published & Communicated \_\_\_\_\_
10. Present Address : At - Damarpur Shasan  
Po - Damarpur, Dist - Kendrapara  
Odisha PIN - 754217  
Contact No. : Phone :/Mob. 7205425848  
e-mail ID : Subhasismishra5@gmail.com

# CONTENTS

Sl. No.	Class/ Semester	Paper/Unit	Topics assigned	Page No.
1	2	3	4	5
01	+3 5th Sem.	DSE-1, Unit-1 Unit-2 Unit-3 Unit-4	Introduction to public finance and public budget. public Expenditure Public Revenue. Public debt.	01
02	+3 5th Sem.	DSE-2, Unit-3 Unit-4	Agriculture, industry, infrastructure and environment in odisha Social Sector in odisha.	07
03	+3 3rd sem	core-7, unit-1 unit-2 unit-3 unit-4	Data collection and measure of central tendency and dispersion Correlation and regression Time series and index number Probability theory and Sampling.	13
04	+3 1st sem.	core-1, unit-1 unit-2 unit-3 unit-4	Subject matter of economics market and welfare. Theory of consumer choice The firm and market structure The input markets.	19

# LESSON PLAN

Class #3 3rd Year

Subject Economics, DSE-1 No. of Periods/Week

Sl. No	Month	Paper & Unit	Topics to be covered	No. of classes required
1	Nov 2021	DSE-1 unit-1	Public finance: meaning scope, public and private finance good, principle of MSA.	06
2	Nov 2021	Unit-1	Market failure and role of the Govt., public budget, Kinds of budget classification of budget.	06
3	Nov 2021	Unit-1	Balance and unbalanced budget, balance budget multiplier, budget as an instrument of economic policy.	05
4	Dec 2021	unit-2	public expenditure: meaning, classification, principles, canons and effect.	07
5	Dec, 2021	unit-2	causes of growth of public expenditure wagner's and peacock-wiseman hypothesis	06
6	Dec, 2021	unit-3	Taxation: meaning, canons, classification, impact and incidence, tax burden. Benefit and ability to pay approach.	08
7	Jan, 2022	unit-3	Taxable capacity, effect of taxation, characteristic of good tax system major trends in tax revenue of the Govt.	07
8	Jan, 2022	unit-4	public debts: sources, effect, debt burden shifting intergenerational equity.	07
9	Jan, 2022	unit-4	method of debt redemption, debt management, tax versus debt.	06

# PROGRESS

Class +3 3rd Year

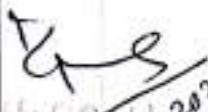
Subject Economics DSE-1

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
1	01.11.21	10.00	Introduction and meaning of public finance.	S. Mishra	
2	02.11.21	10.00	Nature and scope of public finance.	S. Mishra	
3	04.11.21	11.30	Distinction between public and private finance.	S. Mishra	
4	05.11.21	10.45	public goods and private goods.	S. Mishra	
5	09.11.21	10.00	principle of maximum social advantage.	S. Mishra	
6	10.11.21	11.30	principle of maximum social advantage.	S. Mishra	
7	12.11.21	10.45	Market failure and role of the government.	S. Mishra	
8	15.11.21	10.00	market failure and role of the government.	S. Mishra	
9	17.11.21	11.30	Meaning and kinds of budget	S. Mishra	
10	18.11.21	11.30	Economic and functional classification of budget	S. Mishra	
11	22.11.21	10.30	Balanced budget and unbalanced budget	S. Mishra	
12	23.11.21	10.00	Balance budget multiplier	S. Mishra	

# PROGRESS

Class 12 3rd Year Subject Economics DSE-1

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
13	25.11.21	11.30	Budget as an instrument of economic Policy.	S. Mishra	
14	26.11.21	10.45	Budget as an instrument of economic Policy.	S. Mishra	
15	07.12.21	10.00	Meaning and classification of public expenditure	S. Mishra	
16	08.12.21	11.30	Classification of public expenditure.	S. Mishra	
17	10.12.21	12.45	Canons and principles of public expenditure	S. Mishra	
18	14.12.21	10.00	Effects of public expenditure.	S. Mishra	
19	15.12.21	11.30	Causes of growth of public expenditure.	S. Mishra	
20	17.12.21	10.45	Wagner's law of increasing state activity.	S. Mishra	
21	18.12.21	10.00	Wagner's law of increasing state activity.	S. Mishra	
22	20.12.21	10.00	Peacock-wiseman hypothesis	S. Mishra	
21	22.12.21	11.30	Meaning and sources of public revenue	S. Mishra	
22	23.12.21	11.30	Meaning and canons of taxation.	S. Mishra	

  
 19.01.2022

# PROGRESS

9

Class +3 3rd Year

Subject Economics, DSE-1

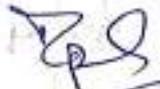
Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D/Principal
23	10.01.22	10.00	Classification of taxes, impact and incidence of taxes.	S. Mishra	
24	17.01.22	10.00	Division of tax burden	S. Mishra	
25	19.01.22	10.00	Division of tax burden	S. Mishra	
26	21.01.22	10.00	the Benefit theory of taxation	S. Mishra	
27	24.01.22	10.00	The Ability to pay theory of taxation.	S. Mishra	
28	28.01.22	10.00	the Ability to pay theory of taxation.	S. Mishra	
29	31.01.22	10.00	Taxable capacity and effect of taxation.	S. Mishra	
30	02.02.22	10.00	Effect of taxation.	S. Mishra	
31	04.02.22	10.00	characteristics of a good tax system.	S. Mishra	
32	07.02.22	10.00	Trends in the tax revenue of the central govt.	S. Mishra	
33	09.02.22	10.00	Trends in the tax revenue of the central govt.	S. Mishra	
34	11.02.22	10.00	Meaning and sources of public debt.	S. Mishra	

# PROGRESS

Class ... 13 ... 2nd ... year ...

Subject ... Economics ... DSE-1

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D, Principal
35	14.02.22	10.00	Effect of public debt	S. Mishra	
36	16.02.22	10.00	Debt burden - classical and Ricardian view	S. Mishra	
37	18.02.22	10.00	Debt burden - Keynesian and Post Keynesian view	S. Mishra	
38	21.02.22	10.00	Shifting of tax burden	S. Mishra	
39	23.02.22	10.00	Theory of Intergenerational equity	S. Mishra	
40	25.02.22	10.00	Methods of debt reduction	S. Mishra	
41	28.02.22	10.00	Management of public debt	S. Mishra	
42	02.03.22	10.00	principles of public debt management	S. Mishra	
43	04.03.22	10.00	Tax versus debt	S. Mishra	
44	07.03.22	10.00	Revision of the 1st unit	S. Mishra	
45	09.03.22	10.00	Revision of the 2nd unit	S. Mishra	
46	11.03.22	10.00	Revision of the 3rd unit	S. Mishra	
47	14.03.22	10.00	Revision of the 4th unit	S. Mishra	

  
 15/03/22

## LESSON PLAN

 Class +3 3rd Year Subject Economics, DSE-2 No. of Periods/Week .....

Sl. No	Month	Paper & Unit	Topics to be covered	No. of classes required
01	NOV 2021	DSE-1 Unit-3	Land ownership and land tenure, agricultural wages, rural unemployment production and productivity of major crops	04
02	NOV 2021	Unit-3	Agricultural inputs, agricultural policy animal husbandry and fisheries.	04
03	DEC 2021	Unit-3	Industrial policy, growth of large industries, mining and quarrying construction.	05
04	DEC 2021	Unit-3	Tourism, transport, power, water resources and forest resources	04
05	JAN 2022	Unit-4	poverty, inequality, health sector infrastructure, public health, NRHM	06
06	JAN 2022	Unit-4	Education - Literacy, primary education, secondary and higher education, SSA, human development.	07

Counter Signature by HOD

 S. Mishra  
Signature of Teacher

# PROGRESS

 Class 12<sup>th</sup> 3<sup>rd</sup> Year

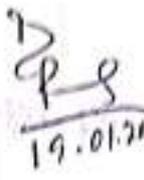
 Subject Economics - DSE-2

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
01	03.11.21	11.30	Introduction to Odisha Economy. Land ownership	S. Mishra	
02	08.11.21	10.00	Land ownership and land tenure.	S. Mishra	
03	11.11.21	11.30	Agricultural wages and rural unemployment	S. Mishra	
04	16.11.21	10.00	production and productivity of major crops.	S. Mishra	
05	19.11.21	10.45	Agricultural inputs	S. Mishra	
06	24.11.21	11.30	Agricultural policy of Odisha.	S. Mishra	
07	06.12.21	10.00	Animal husbandry and fishery.	S. Mishra	
08	09.12.21	11.30	Animal husbandry and fishery.	S. Mishra	
09	13.12.21	10.00	Industrial investment and policy of Odisha.	S. Mishra	
10	16.12.21	11.30	Industrial policy and growth of large industry.	S. Mishra	
11	21.12.21	10.00	mining and quarrying in Odisha.	S. Mishra	

# PROGRESS

Class 13 3rd Year

Subject Economics OSB-2

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D/Principal
12	24.12.21	10:45	constitutional and industrial sector of odisha	S. Mishra	
13	02.01.22	10:45	Transport and power of odisha	S. Mishra	 19.01.21
14	12.01.22	10:00	Water resources of odisha	S. Mishra	
15	17.01.22	10:00	Forest resources of odisha	S. Mishra	
16	21.01.22	10:00	Forest resources of odisha	S. Mishra	
17	24.01.22	10:00	Poverty: Absolute, relative and income poverty.	S. Mishra	
18	28.01.22	10:00	Poverty in odisha. Poverty line	S. Mishra	
19	02.02.22	01:00	Estimation of poverty in odisha.	S. Mishra	
20	07.02.22	01:00	Inequality in odisha Gini coefficient	S. Mishra	
21	09.02.22	01:00	Health sector of odisha Infrastructure	S. Mishra	
23	14.02.22	01:00	Public health system in odisha	S. Mishra	
24	18.02.22	01:00	NRHM	S. Mishra	

# PROGRESS

Class +3 3rd yearSubject Economics DSE-2

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
25	23.02.22	01:00	Education : literacy and primary education.	S. Mishra	
26	02.03.22	01:00	SSA and secondary education.	S. Mishra	
27	07.03.22	01:00	Higher education in Odisha.	S. Mishra	
28	09.03.22	01:00	Human development	S. Mishra	 15/3/22

# LESSON PLAN

Class t3 and Year..... Subject Economics core-7 No. of Periods/Week .....

Sl. No	Month	Paper & Unit	Topics to be covered	No. of classes required
1	NOV 2021	core-7 unit-1	Data collection: primary and secondary data, presentation of data, graphic and diagrammatic representation of data.	05
2	NOV 2021	unit-1	Measures of central tendency: mean, median, mode, G.M. and H.M	06
3	NOV 2021	unit-1	measure of dispersion: Range, mean deviation, standard deviation, quartile deviation, measure of skewness, kurtosis	07
4	Dec, 2021	unit-2	Correlation: Scatter diagram, Karl Pearson correlation, Spearman rank correlation, Probable error.	06
5	Dec, 2021	unit-2	Regression line, coefficients, properties and standard error of estimate.	06
6	Dec 2021	unit-3	Time series: components, measurement of trend; free hand, semi average, moving average, least square, Seasonal variation.	07
7	Jan, 2022	unit-3	Index number: Laspeyres, Paasche and Fisher index, problem and limitation Ideal index number.	06
8	Jan, 2022	unit-4	Probability: addition and multiplication rules, Conditional Probability.	06
9	Feb, 2022	unit-4	Sampling: TYPES of sampling, error Sampling and non-sampling.	07

# PROGRESS

Class 10<sup>th</sup> and year

Subject Economics - 1

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
1	01.11.21	12:15	Introduction, Population, Sample parameter and statistics.	S. Mishra	
2	03.11.21	1:45	Data collection, Primary and Secondary data.	S. Mishra	
3	04.11.21	1:45	methods of collection of primary data.	S. Mishra	
4	06.11.21	12:25	Frequency distribution and cumulative frequency.	S. Mishra	
5	08.11.21	12:25	Graphic and diagrammatic representation of data.	S. Mishra	
6	09.11.21	1:45	measure of central tendency property of a good average.	S. Mishra	
7	11.11.21	1:45	Arithmetic mean: mathematical properties and calculation.	S. Mishra	
8	13.11.21	12:15	Median: calculation, merit and demerit.	S. Mishra	
9	15.11.21	12:25	Mode, and Geometric mean.	S. Mishra	
10	17.11.21	1:45	Geometric mean and harmonic mean.	S. Mishra	
11	18.11.21	1:45	Absolute and relative measures of dispersion.	S. Mishra	
12	20.11.21	12:25	Range and quartile deviation.	S. Mishra	

# PROGRESS

Class 12<sup>nd</sup> year

Subject Economics Core-7

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./Principal
13	20.11.21	12.15	Quartile deviation and mean deviation.	S. Mishra	
14	24.11.21	1.45	Standard deviation, computation and properties.	S. Mishra	
15	25.11.21	1.45	Standard deviation and coefficient of Variation.	S. Mishra	
16	27.11.21	12.15	Measures of skewness and Kurtosis	S. Mishra	
17	06.12.21	12.15	Types of skewness and Kurtosis	S. Mishra	
18	08.12.21	1.45	Meaning and types of correlation.	S. Mishra	
19	09.12.21	1.45	Scatter diagram method of correlation.	S. Mishra	
20	11.12.21	12.15	Kear Pearson correlation coefficient; computation	S. Mishra	
21	13.12.21	12.15	properties of correlation coefficient	S. Mishra	
22	15.12.21	1.45	Probable error of correlation coefficient	S. Mishra	
23	16.12.21	1.45	Spearman's rank correlation coefficient	S. Mishra	

# PROGRESS

Class 13 and yearSubject Economics Core-1

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
24	18.12.21	12.15	Regression; two variable linear regression	S. mithan	
25	20.12.21	12.15	Estimation of regression lines	S. mithan	
26	22.12.21	1.45	computation of regression coefficient	S. mithan	
27	23.12.21	1.45	properties of regression coefficient	S. mithan	
28	24.12.21	12.15	standard error of an estimate.	S. mithan	
29	11.01.22	11.00	Time series: definition and component	S. mithan	
30	13.01.22	11.00	Components of time series and free hand method	S. mithan	 19.01.2022
31	15.01.22	11.00	Semi average and moving average method.	S. mithan	
32	18.01.22	11.00	Least square method for trend measurement	S. mithan	
33	20.01.22	11.00	Least square method for trend measurement	S. mithan	
34	22.01.22	11.00	Measurement of seasonal component.	S. mithan	

# PROGRESS

Class                     Subject                     

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./Principal
35	25.01.22	11:00	Measurement of seasonal Variation	Simithan	
36	27.01.22	11:00	Index number meaning and uses	Simithan	
37	29.01.22	11:00	Types of Index number Price, quantity and Value	Simithan	
38	01.02.22	11:00	Laspeyres index and Pascher's index number	Simithan	
39	03.02.22	11:00	Fisher ideal index number	Simithan	
40	08.02.22	11:00	Family budget method	Simithan	
41	10.02.22	11:00	problem in the construction of index number	Simithan	
42	12.02.22	11:00	problem in the construction of index and limitation.	Simithan	
43	15.02.22	11:00	Test for ideal index number.	Simithan	
44	17.02.22	11:00	Time factorials and Time reversal test	Simithan	
45	19.02.22	11:00	probability: meaning and definition.	Simithan	
46	22.02.22	11:00	Basic concepts of probability.	Simithan	

# PROGRESS

Class .....

Subject .....

Sl No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
47	24.02.22	11:00	Addition theorem of probability.	S. Mittal	
48	26.02.22	11:00	Multiplication theorem of probability.	S. Mittal	
49	03.03.22	11:00	Conditional probability	S. Mittal	
50	05.03.22	11:00	Sampling : meaning and uses.	S. Mittal	
51	08.03.22	11:00	probability and non-probability sampling.	S. Mittal	
52	10.03.22	11:00	Simple random and stratified random sampling.	S. Mittal	
53	15.03.22	11:00	Systematic, multistage and quota sampling.	S. Mittal	
54	17.03.22	11:00	Sampling and non-sampling error.	S. Mittal	15/3/22

# LESSON PLAN

Class +3 1st Year Subject Economics core-1 No. of Periods/Week .....

Sl. No	Month	Paper & Unit	Topics to be covered	No. of classes required
1	Nov, 2021	core-1 Unit-1	The ten principles of economics, the scientific method, observation, Economic model, Graph in economics.	07
2	Nov, 2021	core-1 Unit-1	Demand, supply, price elasticity of demand, price elasticity of supply, consumer and producer surplus.	08
3	Dec, 2021	Unit-2	The budget constraints, preferences indifference curve, optimization	07
4	Dec. 2021	Unit-2	price, income and substitution effect, derivation of demand curve	08
5	Jan 2022	Unit-3	The various measures of cost, cost curves and their shapes, costs in short and long run - Economies and diseconomies of scale.	08
6	Jan 2022	Unit-3	firms in a competitive market, profit maximization, supply decision of firm in short and long run. Supply curve in a competitive market.	07
7	Feb 2022	Unit-4	The demand for labour - production function and $MP_L$ , $VMP$ and shift in the labour demand curve.	06
8	Feb. 2022	Unit-4	The supply of labour - trade-off between work and leisure. shift in labour supply and equilibrium in labour market.	07

Counter Signature by HOD

S. Mishra  
Signature of Teacher

# PROGRESS

Class 13 1st year

Subject Economics Core-1

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D./ Principal
1	01.11.21	1.00	Introduction to economics and ten principles of economics.	S. Mittal	
2	02.11.21	1.45	Ten principles: How people make decisions.	S. Mittal	
3	05.11.21	1.00	Working of an economy as a whole.	S. Mittal	
4	06.11.21	1.00	Thinking like an economist and economist as scientist.	S. Mittal	
5	08.11.21	1.00	The scientific method, observation.	S. Mittal	
6	09.11.21	1.45	Use of assumption in economics.	S. Mittal	
7	12.11.21	1.00	Economics models. Graph in economics.	S. Mittal	
8	13.11.21	1.00	Why economist disagree.	S. Mittal	
9	15.11.21	1.00	Demand: meaning, determinants and demand curve.	S. Mittal	
10	16.11.21	1.45	Law of demand, Shift in demand.	S. Mittal	
11	19.11.21	1.00	Elasticity of demand and its determinants.	S. Mittal	
12	20.11.21	1.00	price, income and cross elasticity of demand.	S. Mittal	

# PROGRESS

Class 13 1st year

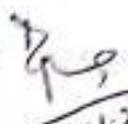
Subject Economics core-1

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D/Principal
13	22.11.21	1.00	Supply, meaning, determinants and supply curve.	S. Mishra	
14	23.11.21	1.45	Shift in supply curve and market equilibrium.	S. Mishra	
15	26.11.21	1.00	The price elasticity of supply.	S. Mishra	
16	27.11.21	1.00	Consumer and producer surplus.	S. Mishra	
17	07.12.21	1.00	The budget constraints and budget line.	S. Mishra	
18	13.12.21	1.00	Indifference curve and MRS.	S. Mishra	
19	14.12.21	1.45	properties of indifference curve.	S. Mishra	
20	17.12.21	1.00	optimization and consumer equilibrium.	S. Mishra	
21	18.12.21	1.00	price, income and substitution effect.	S. Mishra	
22	20.12.21	1.00	ICC, PEC, income and substitution effect.	S. Mishra	
23	21.12.21	1.45	Derivation of the demand curve.	S. Mishra	

# PROGRESS

Class 12<sup>th</sup> 1st Year

Subject Economics (012-)

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
24	29.12.21	1.00	Demand for bitter goods	S. Mishra	
25	10.01.22	12.00	Wages and labour supply Interest rate and saving	S. Mishra	
26	12.01.22	12.00	Various measures of cost AC, MC and their shape	S. Mishra	 19.01.2022
27	17.01.22	12.00	Short run cost and their shape	S. Mishra	
28	19.01.22	12.00	Long run cost and their shape	S. Mishra	
29	21.01.22	12.00	Economies and dis - economies of scale	S. Mishra	
30	24.01.22	12.00	Economies and dis - economies of scale	S. Mishra	
31	28.01.22	12.00	Competitive market and its feature.	S. Mishra	
32	31.01.22	12.00	Competitive firm supply curve.	S. Mishra	
33	02.02.22	12.00	The marginal cost curve and firm's supply decision.	S. Mishra	
34	04.02.22	12.00	profit maximization under perfect competition.	S. Mishra	
35	07.02.22	12.00	Long run equilibrium of firmy.	S. Mishra	

# PROGRESS

Class .....

Subject .....

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
36	07.02.22	12-00	Long run equilibrium of industry	Simithan	
37	09.02.22	12-00	Supply curve of industry in perfect competition.	Simithan	
38	11.02.22	12-00	Long run supply curve of industry	Simithan	
39	14.02.22	12-00	The input market: Demand for labour	Simithan	
40	16.02.22	12-00	production function and marginal product of labour	Simithan	
41	18.02.22	12-00	Value of marginal product of labour.	Simithan	
42	21.02.22	12-00	Shifts in the labour demand curve.	Simithan	
43	23.02.22	12-00	Supply of labour and its determinants	Simithan	
44	25.02.22	12-00	Trade off between work and leisure.	Simithan	
45	28.02.22	12-00	Shift in the labour supply curve.	Simithan	
46	02.03.22	12-00	Equilibrium in the labour market.	Simithan	
47	04.03.22	12-00	Land market and equilibrium.	Simithan	

# PROGRESS

24

Class .....

Subject .....

Sl. No	Date	Time	Topics covered (If class not taken, mention the reasons)	Signature of Teacher	Signature of H.O.D / Principal
48	07.03.22	12.00	Capital and its equilibrium	S. Mishra	
49	09.03.22	12.00	Linkages among factors of production.	S. Mishra	
50	11.03.22	12.00	Revision of the 1st unit.	S. Mishra	
51	14.03.22	12.00	Revision of the 2nd unit.	S. Mishra	
52	16.03.22	12.00	Revision of the 3rd unit.	S. Mishra	 15/3/22
53	18.03.22	12.00	Revision of the 4th unit.	S. Mishra	