COMMISSIONERATE OF COLLEGIATE EDUCATION
GOVT. OF ANDHRA PRADESH

GOVT. DEGREE COLLEGE

PADERU - 531024.
ALLURI SITHARAMA RAJU (DT.)

(NAAC Accreditated "C" Grade Institution)



TEACHING NOTES / PLAN

Name of the Department / Subject : Mathematics

Name of the Lecturer B. Vineela

Academic Year 2022 - 23

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TEACHING NOTES / PLAN

Name of the Department / Subject : Mathematics

Name of the Lecturer : K. Prasanna Kumari

Course / Group : II B.Sc (M.P.CT)

Paper : Sem-III

Name of the Topic : Groups

Hours Required : 15 hours

Learning Objectives : Black Board

Previous Knowledge :

To be reminded : Group Theory

Topic Synopsis : Algebraic structure

Group (definition):

Algebraic structure :- A non-empty set G equipped with one or more binary operations is called an algebraic structure or an algebraic system.

If o is a binary operation on G, Then the algebraic structure is written as (G, o).

Ex:- (N, +), (Q, -), (R, +) are algebraic structure

Semi-Groups :- An algebraic structure (S, o) is called a semi group if the binary operation o is associative in S

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TEACHING NOTES / PLAN

Name of the Department / Subject : Mathematics

Name of the Lecturer : K. Prasanna Kumari

Course / Group : II B.Sc (M.P.C.WT)

Paper : Sem-III

Name of the Topic : Unit element in Groups, Commutative groups

Hours Required : 2 hrs

Learning Objectives : Black Board

Previous Knowledge :

To be reminded : Groups definition

Topic Synopsis :

Identity Element:- Let S be a non-empty set and o be a binary operation on S.

Ex:- In the algebraic system $(Z, +)$, the number 0 is an identity element.

Group:- Let G be a non-empty set and o is a binary operation defined on G. Such that the following three laws are satisfied Then (G, o) is a group.

i) Closure law: for $a, b \in G \Rightarrow a o b \in G$

ii) Associative law: for $a, b, c \in G$

$(a o b) o c = a o (b o c)$

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TEACHING NOTES / PLAN

me of the Department / Subject : Mathematics

me of the Lecturer : K. Prasanna Kumari

urse / Group : III B.Sc MPCS

per : VI, Sem-II

me of the Topic : Gauss central difference formula.

urs Required : 3hrs

arning Objectives :

evious Knowledge :

be reminded :

pic Synopsis : Gauss central difference formula

GAUSS'S CENTRAL DIFFERENCE FORMULAE:-

THEOREM:- (Gauss's forward formula for equal intervals):-

If $V = f(x)$ is a function, which takes the values $\cdots y_{-2}, y_{-1}, y_0, y_1, y_2 \cdots$ corresponding to the values of $x = x_0 - 2h, x_0 - h, x_0, x_0 + h, x_0 + 2h \cdots$ then

$$y_u = y_0 + u\Delta y_0 + \frac{u(u-1)}{2!}\Delta^2 y_{-1} + \frac{(u+1)\,u(u-1)}{3!}\Delta^3 y_{-1} + \frac{(u+1)\,u(u-1)(u-2)}{4!}\Delta^4 y_{-2} + \cdots$$

where $u = \dfrac{x - x_0}{h}$

THEOREM:- (Gauss's backward formula for equal intervals):- If $y = f(x)$ is a function, which takes the

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TEACHING NOTES / PLAN

Name of the Department / Subject : Mathematics

Name of the Lecturer : K. Prasanna Kumari

Course / Group : III B.Sc MPCs

Paper : II, Sem-IV

Name of the Topic : Lagrange's interpolation formula.

Hours Required : 3hrs

Learning Objectives :

Previous Knowledge :

To be reminded :

Topic Synopsis : Lagrange's interpolation formula.

Example :- The values of x and y are given as below

x	5	6	9	11
$f(x)$	12	13	14	16

By lagrange's interpolation formula, find the value of y at $x=10$.

Sol :- Here the values of x are not equally spaced

we have $x_0=5, x_1=6, x_2=9, x_3=11$ and $y_0=12, y_1=13, y_2=14, y_3=16$

$$\therefore y_{10} = \frac{(10-6)(10-9)(10-11)}{(5-6)(5-9)(5-11)} \times 12 + \frac{(10-5)(10-9)(10-11)}{(6-5)(6-9)(6-11)} \times 13 +$$

$$\frac{(10-5)(10-6)(10-11)}{(9-5)(9-6)(9-11)} \times 14 + \frac{(10-5)(10-6)(10-9)}{(11-5)(11-6)(11-9)} \times 16$$

$$= \frac{4\times1\times-1}{-1\times-4\times-6} \times 12 + \frac{5\times1\times-1}{1\times-3\times-5} \times 13 + \frac{5\times4\times-1}{4\times3\times-2} \times 14 + \frac{5\times4\times1}{6\times5\times2} \times 16$$

$$= 2 - 4.33 + 11.67 + 5.33 = 14.67$$ Hence $y_{10} = 14.67$.

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TEACHING NOTES / PLAN

Name of the Department / Subject : Mathematics

Name of the Lecturer : K. Prasanna Kumari

Course / Group : III BSc MPCS

Paper : VI, Sem-V

Name of the Topic : Stirling's formula.

Hours Required : 4hrs

Learning Objectives :

Previous Knowledge :

To be reminded :

Topic Synopsis : Stirling's formula.

$$\left[\frac{dy}{dx}\right]_{x=x_0} = \frac{1}{h}\left[\frac{\Delta y_0 + \Delta y_{-1}}{2} - \frac{1}{6}\left(\frac{\Delta^3 y_{-1} + \Delta^3 y_{-2}}{2}\right) + \cdots\right]$$

Again differentiating (1) we get

$$\frac{d^2y}{dx^2} = \frac{1}{h^2}\left[\Delta^2 y_{-1} + \frac{6u}{6}\left(\frac{\Delta^3 y_{-1} + \Delta^3 y_{-2}}{2}\right) + \frac{12u^2 - 2}{4!}\Delta^4 y_{-2}\right] \longrightarrow (3)$$

At $x = x_0$, $u = 0$ putting $u = 0$ in (3) we get

$$\therefore \left[\frac{d^2y}{dx^2}\right]_{x=x_0} = \frac{1}{h^2}\left[\Delta^2 y_{-1} - \frac{1}{12}\Delta^4 y_{-2} + \cdots\right]$$ and

so on

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TEACHING NOTES / PLAN

Name of the Department / Subject : Mathematics

Name of the Lecturer : K. Prasanna Kumari

Course / Group : III B.Sc MPCS

Paper : V, Sem-V

Name of the Topic : Simpson's 1/3 Rule

Hours Required : 4hrs

Learning Objectives :

Previous Knowledge :

To be reminded :

Topic Synopsis : Simpson's 1/3 rule.

degree 2 so that differences of order 3 and >3 becomes 0

$$\int_{x_0}^{x_2} y\,dx = h\left[2y_0 + 2\Delta y_0 + \tfrac{1}{3}\Delta^2 y_0\right]$$

$$= h\left[2y_0 + 2(y_1 - y_0) + \tfrac{1}{3}(y_2 - 2y_1 + y_0)\right]$$

$$= \tfrac{h}{3}\left[y_0 + 4y_1 + y_2\right]$$

Similarly $\int_{x_2}^{x_4} y\,dx = \tfrac{h}{3}\left[y_2 + 4y_3 + y_4\right]$

$$\int_{x_{n-2}}^{x_n} y\,dx = \tfrac{h}{3}\left[y_{n-2} + 4y_{n-1} + y_n\right]$$

Adding these integrals $\int_{x_0}^{x_n} y\,dx = \tfrac{h}{3}\left[y_0 + 4y_1 + y_2 + y_2 + 4y_3 + \cdots + y_{n-2} + 4y_{n-1} + y_n\right]$

$$= \tfrac{h}{3}\left[(y_0 + y_n) + 4(y_1 + y_3 + \cdots y_{n-1}) + 2(y_2 + y_4 + \cdots + y_{n-2})\right]$$

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TEACHING NOTES / PLAN

ame of the Department / Subject : Mathematics

ame of the Lecturer : K. Prasanna Kumari

ourse / Group : III B.Sc MPCS

aper : I

ame of the Topic : Euler-maclaurin's summation formula

ours Required : 3hrs

earning Objectives :

evious Knowledge :

be reminded :

pic Synopsis : Euler-maclaurin's summation formula.

Adding all these integrals, we get

$$\int_{x_0}^{x_n} y\,dx = \frac{3h}{10}\left[y_0+5y_1+y_2+6y_3+y_4+5y_5+2y_6+5y_7+y_8+\cdots+y_n\right]$$

EULER-MACLAURIN'S SUMMATION FORMULA:-

THEOREM:- Let $y=f(x)$ be a function which assumes the values $y_0, y_1, y_2 \cdots y_n$ corresponding to the values $x_0=a$, $x_1=a+h \cdots x_n=a+nh=b$ so that $b-a=nh$

Then $\int_a^b y\,dx = \frac{h}{2}\left[y_0+2y_1+2y_2+2y_3+\cdots+2y_{n-1}+y_n\right] - \frac{h^2}{12}$

$$\left[y_n'-y_0'\right]+\frac{h^4}{720}\left[y_n''-y_0''\right]-\cdots$$

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TEACHING NOTES / PLAN

ame of the Department / Subject : Mathematics

ame of the Lecturer : K. Prasanna Kumari

ourse / Group : III B.Sc MPCS

aper : V, Sem-V

ame of the Topic : Euler's method

lours Required : 4 hrs

earning Objectives :

revious Knowledge :

o be reminded :

opic Synopsis : Euler's Method.

Continuing in this manner we obtain $y^{(3)}, y^{(4)} \ldots y^{(n-1)}$ and $y^{(n)}$ where

$$y^{(n)} = y_0 + \int_{x_0}^{x} f(x)\, y^{n-1})\, dx \text{ with } y^{\circ} = y_0$$

EULER'S METHOD:- the oldest and simplest method was derived by Euler. It gives the basic idea of those numerical methods which seek to determine the change Δy in y corresponding to a small increment in the argument x.

Consider the first order differential equation

$y' = f(x, y)$ with $y = y_0$ when $x = x_0 \longrightarrow (1)$

we wish to slove (1) for values of y at $x = x_1$;

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TEACHING NOTES / PLAN

Name of the Department / Subject : Mathematics

Name of the Lecturer : K. Sowmya Kumari

Course / Group : I B.Sc MPC

Paper : I, Sem-I

Name of the Topic : Linear differential Equation

Hours Required : 3hrs

Learning Objectives : Black Board

Previous Knowledge : previous knowledge in differentiation and Integration

To be reminded :

Topic Synopsis : Linear Differential Equation

Linear differential Equation

An Equation of the form $\frac{dy}{dx} + Py = Q$, where P and Q are the functions of x only defined over the interval I alone is called a linear differential equation of first order in y.

problem :- obtain the Equation of the curve satisfying the differential Equation $(1+x^2)\frac{dy}{dx} + 2xy - 4x^2 = 0$ and passing through the origin

Sol:- Given Equation is $(1+x^2)\frac{dy}{dx} + 2xy = 4x^2 \rightarrow (1)$

Dividing Eqn (1) by $(1+x^2)$ to reduce the standard form

$$\Rightarrow \frac{dy}{dx} + \frac{2x}{1+x^2}y = \frac{4x^2}{1+x^2}$$

$\therefore$ It is the linear D.E

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TEACHING NOTES / PLAN

Name of the Department / Subject : Mathematics

Name of the Lecturer : K. Poosanna Kumari

Course / Group : B.Sc (M.P.C)

Paper : I, Sem-I

Name of the Topic : Differential Equation of 1st Order but not 1st degree

Hours Required : 4 hrs

Learning Objectives :

Previous Knowledge :

To be reminded :

Topic Synopsis : Differential Equations of 1st Order but not 1st degree

Definition:- An Equation of the form $f(x,y,p)=0$ where p is not of first degree is called differential equation first order and first degree general form.

$$p^n + P_1(x,y)p^{n-1} + P^2(x,y)np^{n-2} + \dots + P_{n-1}(x,y)p^n + P^n(x,y) = 0 \quad \text{--- (1)}$$

is called general first order equation of first order Equation of first degree $n>1$ This Equation are four

Types:-

1) Equation solvable for p
2) Equation solvable for x
3) Equation solvable for y
4) Clairaut's Equation.

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TEACHING NOTES / PLAN

Name of the Department / Subject : mathematics

Name of the Lecturer : K. Prasanna Kumari

Course / Group : I B.Sc MPC

Paper : I, Sem-I

Name of the Topic : Higher Order linear differential Equation-III

Hours Required : 4 hrs

Learning Objectives :

Previous Knowledge :

To be reminded :

Topic Synopsis :

put $m=1$, $m-1=0$
$m=1$

1	1	2	-1	-2
	0	1	3	2
	1	3	2	0

$\Rightarrow m^2+3m+2=0$

$\Rightarrow m^2+m+2m+2=0$

$\Rightarrow m(m+1)+2(m+1)=0$

$\Rightarrow m=1,-1,-2$

$\therefore$ The roots are distinct

$\therefore$ The complementary function $\Rightarrow y=(c_1+c_2x+c_3x^2)e^{-x}$

$\therefore$ The G.S is $y=(c_1+c_2x+c_3x^2)e^{-x}$

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TEACHING NOTES / PLAN

Name of the Department / Subject : Mathematics

Name of the Lecturer : K. Prasanna Kumari

Course / Group : I B.Sc M.P.C

Paper : I, Sem-I

Name of the Topic : Cauchy-Euler Equation

Hours Required :

Learning Objectives :

Previous Knowledge :

To be reminded : Cauchy-Euler Equation on problems

Topic Synopsis :

$$P.I = \frac{1}{(D+1)^2(1-e^x)^2} = \frac{1}{D+1}\left[\frac{1}{D+1}\frac{1}{(1-e^x)^2}\right] = \frac{1}{D+1}\left[e^{-x}\int\frac{1}{(1-e^x)^2}e^{2x}dx\right]$$

$$\because \frac{1}{D+\alpha}R = e^{-\alpha x}\int R e^{\alpha x}dx = \frac{1}{D+1}\left[e^{-x}\int\frac{dt}{(1-t)^2}\right] \text{ where } t = e^x, \; dt = e^x dx.$$

$$= \frac{1}{D+1}e^{-x}\frac{1}{1-t} = \frac{1}{D+1}\frac{e^{-x}}{1-e^x} = e^{-x}\int\frac{e^x}{1-e^x}e^x dx$$

$$= e^{-x}\int\frac{dx}{1-e^x} = e^{-x}\int\frac{e^{-x}}{e^{-x}-1}dx = -e^{-x}\log|e^{-x}-1|$$

$\therefore$ The G.S of (2) is $y = y_c + y_p \Rightarrow y = (c_1+c_2x)e^{-x} - e^{-x}\log|e^{-x}-1|$

$\Rightarrow$ The G.S of (1) is $y = (c_1+c_2\log x)\frac{1}{x} - \frac{1}{x}\log\left|\frac{1-x}{x}\right|$

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TEACHING NOTES / PLAN

Name of the Department / Subject : Mathematics

Name of the Lecturer : K. Prasanna Kumari

Course / Group : I B.Sc MPC

Paper : I, Sem-I

Name of the Topic : Legendre's Equation

Hours Required : 4hrs

Learning Objectives :

Previous Knowledge :

To be reminded :

Topic Synopsis : Legendre's Equation

The A-E is $f(m)=0$

$\Rightarrow m^2+1=0 \Rightarrow m=-i,i$

$\therefore y_c = c_1\cos z + c_2 \sin z$

$y_c = c_1\cos\log(1+x)+c_2\sin\log(1+x)$

$y_p = 4\cdot\frac{1}{D^2+1}\cdot\cos z = 4\cdot\frac{z}{2}\sin z = 2z\sin z = 2\log(1+x)\cdot\sin\log(1+x)$

$\therefore$ The G.S of (3) is $y = y_c + y_p$

$y = c_1\cos z + c_2\sin z + 2z\sin z$.

$\Rightarrow$ The G.S of (1) is $y = c_1\cos\log(1+x)+c_2\sin\log(1+x)$
$+2[\log(1+x)]\sin\log(1+x)$

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TEACHING NOTES / PLAN

Name of the Department / Subject : Mathematics

Name of the Lecturer : K. Prasanna Kumari

Course / Group : II B.Sc (M.P.C, M.P.Cs & web)

Paper : Sem-IV (Paper V)

Name of the Topic : Infinite series

Hours Required : 3hrs

Learning Objectives :

Previous Knowledge :

To be reminded :

Topic Synopsis :

Definition:- if $\{u_n\}$ is a sequence Then $u_1+u_2+u_3+\cdots+u_n$ is called a infinite series. it is denoted by $\sum_{n=1} u_n$ or u_n

* Let even be a series of $S_n = u_1+u_2+\cdots+u_n \ \forall n \in N$. Then $\{S_n\}$ is called partial sum sequence of $\sum u_n$

Convergence of sequence:-

⇒ Let $\{S_n\}$ be the sequence of partial sum of the series $\sum u_n$ then $\sum u_n$ is set to be convergent if $\{S_n\}$ is convergent.

⇒ The limit of $\{S_n\}$ is called the sum of the series $\sum u_n$

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TEACHING NOTES / PLAN

Name of the Department / Subject : Mathematics

Name of the Lecturer : K. Prasanna Kumari

Course / Group : B.Sc (M.P.C, M.P.Cs & web)

Paper : IV

Name of the Topic : Geometric series

Hours Required :

Learning Objectives :

Previous Knowledge :

To be reminded :

Topic Synopsis : Geometric series

① if $|r|<1$ (or) $-1<r<1$ then the series $\sum r^n (n \in R)$ is convergent to $\frac{1}{1-r}$ if and $|r| \geq 1$ then the series $\sum r^n$ is divergent.

Proof:- let $|r|<1$

$\Rightarrow -1<r<1$

$\Rightarrow \lim_{n\to\infty} r^n = 0$

let $\{s_n\}$ is a partial sum of the series $\sum r^n$

$\Rightarrow s_1 = u_1$, $s_2 = u_1+u_2$, $s_3 = u_1+u_2+u_3$

$= r_1 + r^2 + r + r^2 + r^3$

$\therefore s_n = u_1+u_2+\cdots+u_n$

$= r+r^2+\cdots+r^n = \frac{1-r^n}{1-r}$

$\Rightarrow s_n = \frac{1-r^n}{1-r}$

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TEACHING NOTES / PLAN

Name of the Department / Subject : Mathematics

Name of the Lecturer : K. Prasanna Kumari

Course / Group : B.Sc (M.P.C, M.A.C.S & Hons)

Paper : IV

Name of the Topic : Sequence and Series

Hours Required : 3hrs

Learning Objectives :

Previous Knowledge :

To be reminded :

Topic Synopsis :

Case(iii) :- if $|r| \geq 1$

$\Rightarrow r \leq -1$ (or) $r \geq 1$

$\Rightarrow \lim_{n\to\infty} r^n = 0$

$\lim_{n\to\infty} S_n = \lim_{n\to\infty} \left(\frac{1-r^n}{1-r}\right)$

$= \infty$

$\Rightarrow \{S_n\}$ is divergent

$\Rightarrow \sum u_n$ is divergent

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TEACHING NOTES / PLAN

Name of the Department / Subject : Mathematics

Name of the Lecturer : K. Prasanna Kumari

Course / Group : II B.Sc (M.P.C, M.A.C.S/Hebb)

Paper : IV

Name of the Topic : vector space

Hours Required : 4 hrs

Learning Objectives :

Previous Knowledge :

To be reminded :

Topic Synopsis :

Commutative law :- $\forall \alpha, \beta \in V_n$

$\Rightarrow (\alpha+\beta = (a_1+b_1, a_2+b_2 \cdots a_n+b_n)$

$= (b_1+a_1, b_2+a_2, \cdots b_n+a_n)$

$= \beta+\alpha$

$\therefore \alpha+\beta = \beta+\alpha \neq \forall \alpha, \beta \in V_n$

$\therefore (V_n, +)$ commutative group

ii) $\forall \alpha \in V_n, a$

$= (aa_1, aa_2 \cdots aa_n)$ $\lceil \because a, a_i \in F \Rightarrow aa_i \in F$

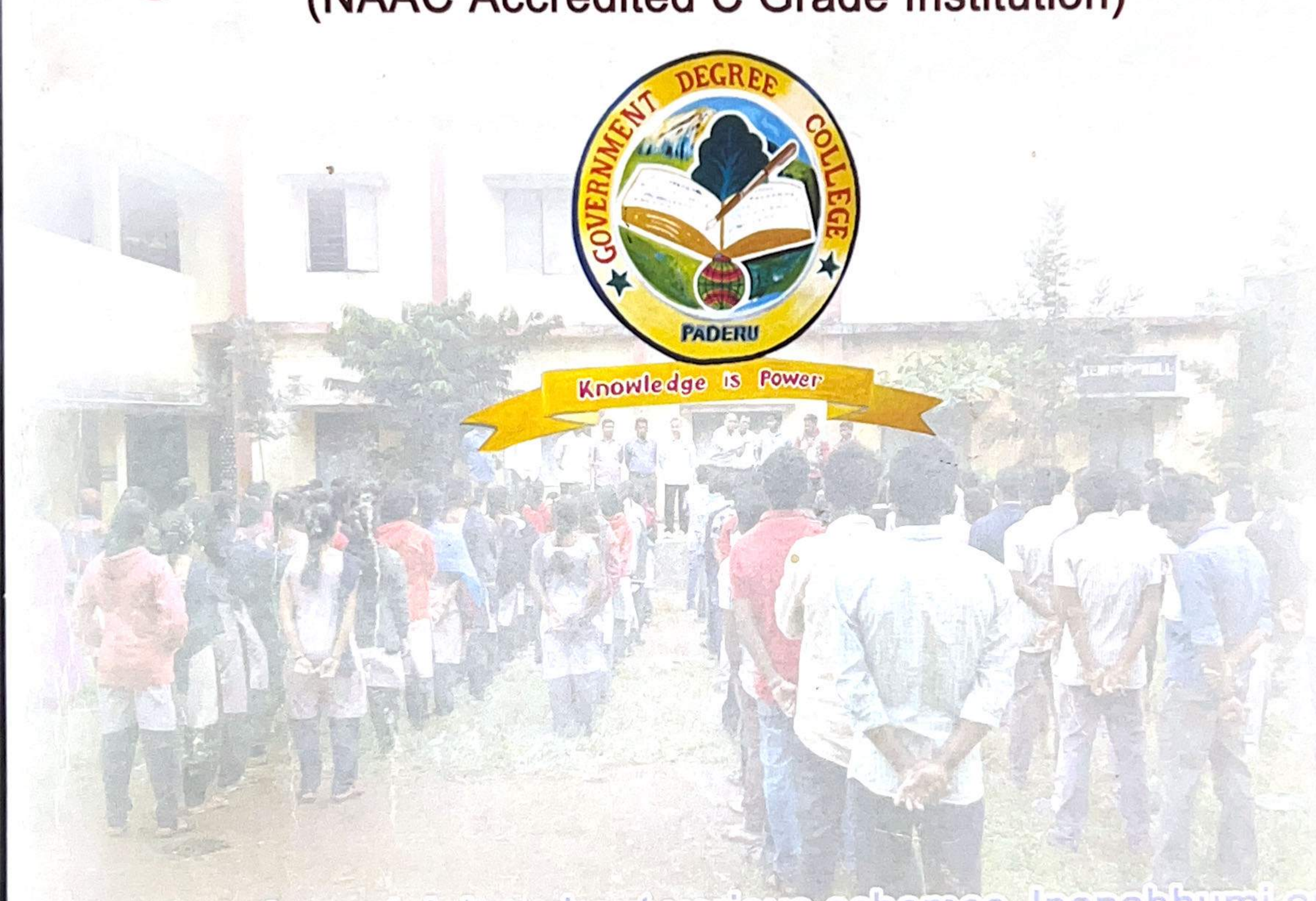
$\therefore \forall \alpha \in V_n, a \in F \Rightarrow a\alpha \in V_n$

$\forall \alpha, \beta \in V_n, a, b \in F$

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TECAHING NOTES/PLAN

Name of the Department/Subject : Mathematics
Name of the Lecturer : B. Vineela
Academic Year : 2021-22, 2022-23

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TEACHING NOTES /PLAN

ne of the Department /Subject	:	MATHEMATICS
ıe of the Lecturer	:	B.Vineela
˙se / Group	:	B.Sc (MPC & MPCS)
er	:	V
ıe of the topic	:	Rings - I.
˙s Required	:	15 hours
ning Ojectives	:	Black Board
ious Knowlwdge		Group theory Extension
e reminded	:	

: Synopsis :

Ring : Let R be a non-empty set and +, · be two binary operations in R. (R, +, ·) is said to be a Ring if, for a, b, c ∈ R

(i) (R, +) is a commutative Group

(ii) (R, ·) is a Semi group and

(iii) Distributive laws hold.

i.e. $a(b+c) = ab+ac \quad \forall a, b, c \in R$

Ex:- (Z, +, ·), (IR, +, ·), (Q, +, ·) are Rings.

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TEACHING NOTES /PLAN

ne of the Department /Subject : MATHEMATICS

e of the Lecturer : B.Vinecla

se / Group : III - B.Sc (MPC & MPCS)

er : V

e of the topic : Unity Rings, Commutative Rings.

s Required : 2 hrs

ning Ojectives : Black board

ous Knowlwdge

e reminded : Ring definition.

Synopsis :

Unity Element: In a Ring $(R,+,\cdot)$ if $\exists$ $1 \in R$ such that $a\cdot 1 = 1\cdot a = a$ $\forall a \in R$.

Commutative Ring: In a Ring $(R,+,\cdot)$ if $a\cdot b = b\cdot a$ for $a,b \in R$ then we say that R is a Commutative Ring.

Basic properties of Rings

If R is a Ring and $0, a, b \in R$ then

(i) $0a = a0 = 0$ (ii) $a(-b) = (-a)b = -(ab)$

(iii) $(-a)(-b) = ab$ (iv) $a(b-c) = ab - ac$.

Boolean Ring:- In a Ring R if $a^2 = a$ $\forall a \in R$ then R is called a Boolean Ring.

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TEACHING NOTES /PLAN

me of the Department /Subject : MATHEMATICS

ne of the Lecturer : B. Vinecla

rse / Group : III B.Sc (MPC & MPCS)

er : V

ne of the topic : Zero Divisors of a Ring

rs Required : 3hrs

ning Ojectives : Black Board

ious Knowlwdge : Commutative Rings

e reminded :

c Synopsis : Zero Divisors : Two non zero Elements a, b of a Ring R are said to be zero divisors if $ab = 0$ where $0 \in R$ is the zero Element.

Note :- A Ring R has no zero Divisors $\Leftrightarrow$ $a, b \in R$ and $ab = 0 \Rightarrow a = 0$ or $b = 0$

Cancellation Laws in a Ring :

In a Ring R, for $a, b, c \in R$ if $a \neq 0$ $ab = ac \Rightarrow b = c$ and $a \neq 0$, $ba = ca \Rightarrow b = c$ then we say that Cancellation laws hold in R.

Theorm :- A Ring R has no zero divisions iff the Cancellation laws hold in R

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TEACHING NOTES /PLAN

ne of the Department /Subject : Maltimatics

ıe of the Lecturer : B. Vineela

rse / Group : I, BSc (mpc, mpcs, mpwt)

er : I, sem-I

ıe of the topic : Errors

's Required : 5 hrs

ning Ojectives : knowledge on 3D

ious Knowlwdge

e reminded : Geomentry

: Synopsis : Errors

1. Inherent Errors :- Inherent errors are those that are present in the given data or the errors arise due to the limitations of the computing aids: mathematical tables, calculators or the digital computer.
2. Absolute, Relative and percentage Errors :-

i) $|x - x'|$ is called the absolute error E_A.

$$\therefore E_A = |x - x'|$$

ii. the Relative error E_R is defined by

$$E_R = \frac{E_A}{x} = \left|\frac{x - x'}{x}\right|$$

iii. the percentage error E_p is defined by

$$E_p = 100 \times E_R = \left|\frac{x - x'}{x}\right| \times 100$$

If Δx be such a number that

$$|x - x'| \leq \Delta x.$$

Examples/Illustrations :

Additional Inputs :

Teaching Aids Used :

Refernces Cited :

Student Activity planned

After the teaching :

Activity planned

Outside the Classroom,If any :

Any other activity :

B. Vini
Signature of the Lecture

ommissionerate of Collegiate

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Visakhapatnam-5

TEACHING NOTE

the Department /Subject : Mathem

the Lecturer : B. Vine

Group : I, BSC (

: I, Sem

the topic : Regula

quired : 4 hrs

Ojectives : Know.

Knowlwdge

minded : Geome

nopsis : Regu

FALSE POSITION METH

In the False pos

of the equation $f(x) =$

values x_0 and x_1 near

$f(x_1)$ have different

between x_0 and x_1.

To obtain the Equati

to the root.

Let $A = (x_0, F(x_0))$ an

$y = F(x)$. then the

equation to the ch

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TEACHING NOTES /PLAN

ne of the Department /Subject : Mathimatics

ıe of the Lecturer : B. Vineela

rse / Group : I, BSc (mpc, mpcs, mpwt)

er : I, sem-I

e of the topic : Regular-falsi Methodes

s Required : 4 hrs

ning Ojectives : knowledge on 3D

ous Knowlwdge

e reminded : Geomentry

: Synopsis : Regular-falsi methode

FALSE POSITION METHOD (REGULA - FALSI METHOD)

In the False position method we will find the root of the equation $f(x)=0$. Consider two initial approximate values x_0 and x_1 near the required root so that $f(x)$ and $f(x_1)$ have different signs. This implies that a root lies between x_0 and x_1.

To obtain the Equation to find the next approximation to the root.

Let $A=(x_0, F(x_0))$ and $B=(x_1, F(x_1))$ be the points on the curve $y=F(x)$. Then the

equation to the chord AB is $\frac{y-F(x_0)}{x-x_0} = \frac{f(x_1)-f(x_0)}{x_1-x_0}$.

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TEACHING NOTES /PLAN

e of the Department /Subject : Mathematics

of the Lecturer : B.Vineela

e / Group : I B-Sc

: I

of the topic : plans

Required :

ng Ojectives :

us Knowlwdge

reminded :

Synopsis : Two dimensional Geometry

Definition:- If a plane cuts x-axis at A(a,0,0), y-axis at B(0,b,0) and z-axis at C(0,0,c) then a is called x-intercept, b is called y-intercept and c is called z-intercept of the plane.

The equation of the plane having x-intercept a, y-intercept b, z intercept c is $x/a + y/b + z/c = 1$

proof:- x-intercept of the plane is a $\Rightarrow$ plane cuts x-axis at A(a,0,0). y-interept of the plane is b $\Rightarrow$ plane cuts y-axis at B(0,b,0).

z-interept of the plane is c $\Rightarrow$ plane cuts z-axis at C(0,0,c).

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TEACHING NOTES /PLAN

of the Department /Subject : MATHEMATICS

of the Lecturer : B-Vineela

e / Group : I B.sc (MPC & MPCs)

: II

of the topic : Coordinates of three dimensional Geomentry

Required : 3 hrs

ng Ojectives : Text Book

us Knowlwdge

reminded : Two Dimensional Geomentry

Synopsis :

∴ d.c's of the axis are $\cos\theta, \cos\theta, \cos\theta \Rightarrow$ d.r's the axis are (1,1,1) Let α be the semi vertical angle of the cone with vertex P(2,-3,5).

∴ The equation to the cone is

$[(x-2)^2+(y+3)^2+(z-5)^2](1+1+1)\cos^2\alpha = [1(x-2)+1(y+3)+1(z-5)]^2$

The point A(1,-2,3) lies on the cone

$\Rightarrow [(1-2)^2+(-2+3)^2+(3-5)^2]\cos^2\alpha = [(1-2)+(-2+3)+(3-5)]^2 \Leftrightarrow \cos\alpha = \sqrt{2}/3.$

∴ The Equation to the required cone is-

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TEACHING NOTES /PLAN

e of the Department /Subject : Mathematics

of the Lecturer : B.Vineela

e / Group : III B.Sc (M.P.C & M.P.Cs)

: VI.

of the topic : Beta function

Required : 2 hrs

ng Ojectives :

us Knowlwdge

eminded : Special functions.

ynopsis :

Solved Examples :-

① show that $\int_0^{\pi/2} \sin^m\theta \cos^n\theta \, d\theta = \frac{1}{2} B\left(\frac{m+1}{2}, \frac{n+1}{2}\right)$

Solution :- $\int_0^{\pi/2} \sin^m\theta \cos^n\theta \, d\theta = \int_0^{\pi/2} \sin^{m-1}\theta \cos^{n-1}\theta (\sin\theta\cos\theta) \, d\theta$

$= \int_0^{\pi/2} (\sin^2\theta)^{\frac{m-1}{2}} (\cos^2\theta)^{n-1/2} (\sin\theta\cos\theta) \, d\theta$

put $\sin^2\theta = x$ so that $\sin\theta\cos\theta \, d\theta = \frac{dx}{2}$

$\therefore \int_0^{\pi/2} \sin^m\theta \cos^n\theta \, d\theta = \frac{1}{2} \int_0^1 x^{\frac{m-1}{2}} (1-x)^{n-1/2} \, dx$

$= \frac{1}{2} \int_0^1 x^{\left(\frac{m-1}{2}\right)-1} (1-x)^{\left(\frac{n-1}{2}\right)-1} dx = \frac{1}{2} B\left(\frac{m+1}{2}, \frac{n+1}{2}\right)$

we have $\int_0^{\pi/2} \sin^{2m-1}\theta \cos^{2n-1}\theta \, d\theta = \frac{1}{2} B(m,n)$ —(1)

put $p = 2m-1$, $q = 2n-1$ so that $m = (p+1)/2$ and $n = (q+1)/2$.

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TEACHING NOTES /PLAN

ıe of the Department /Subject : Mathematics

e of the Lecturer : B. Vineela

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e of the topic :

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ıing Ojectives :

ous Knowlwdge

reminded :

Synopsis :

$$\int_0^3 \frac{1}{\sqrt{9-x^2}}\,dx = \int_0^3 \frac{1}{\sqrt{9-9t}}\,\tfrac{3}{2}\,t^{1/2}\,dt$$

$$= \tfrac{3}{2}\int_0^3 \frac{1}{\sqrt{9(1-t)}}\,t^{1/2}\,dt = \tfrac{3}{2}\cdot\tfrac{1}{3}\int_0^3 (1-t)^{-1/2}\,t^{1/2}\,dt$$

$$= \tfrac{1}{2}\int_0^3 t^{1/2}(1-t)^{-1/2}\,dt$$

$$= \tfrac{1}{2}\int_0^3 t^{\frac{1}{2}-1}(1-t)^{\frac{1}{2}-1}\,dt \qquad \because \int_0 x^{m-1}(1-x)^{n-1} = \beta(m,n)$$

$$= \tfrac{1}{2}\,\beta\left(\tfrac{1}{2},\tfrac{1}{2}\right)$$

$$\therefore \int_0^3 \frac{1}{\sqrt{9-x^2}}\,dx = \tfrac{1}{2}\,\beta\left(\tfrac{1}{2},\tfrac{1}{2}\right)$$

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TEACHING NOTES /PLAN

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of the Lecturer : B. Vineela

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of the topic :

Required :

ng Ojectives :

us Knowlwdge

reminded :

Synopsis :

* Power Series Definition :- The power series in powers of $(x-x_0)$ is defined $\sum_{n=0}^{\infty} a_n (x-x_0)^n = a_0 + a_1(x-x_0) + a_2(x-x_0)^2 + a_3(x-x_0)^3 + \cdots + a_n(x-x_0)^n$.
where $a_0, a_1, a_2, a_3 \cdots a_n$ are Constants (or) Complex numbers. (or) Coefficient of series. Here x_0 is called Center of power series.

* Convergence of Power series :- The radius of Convergence R is defined of the power series $\sum_{n=0}^{\infty} a_n x^n$ is $\frac{1}{R} = \lim_{n\to\infty} \left|\frac{a_{n+1}}{a_n}\right|$ (or) $\frac{1}{R} = \lim_{n\to\infty} (a_n)^{1/n}$.

① find the radius of Convergence $f(x) = \sum_{n=0}^{\infty} \frac{x^n}{n!}$

Solution :- $f(x) = \sum_{n=0}^{\infty} \frac{x^n}{n!}$

$= 1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + \frac{x^4}{4!} + \cdots + \frac{x^n}{n!} + \cdots$

Here $a_n = \frac{1}{n!}$, $a_{n+1} = \frac{1}{(n+1)!}$

Radius of Convergence

$\frac{1}{R} = \lim_{n\to\infty} \left|\frac{a_{n+1}}{a_n}\right|$

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TEACHING NOTES /PLAN

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e of the Lecturer : B. Vineela

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Synopsis :

$$= (2a_2 + 3\cdot 2a_3 x + 4\cdot 3a_4 x^2 + 5\cdot 4 a_5 x^3 + \cdots + n(n-1)a_n x^{n-2} + \cdots) - x(a_0 + a_1 x + a_2 x^2 + a_3 x^3 + a_4 x^4 + a_5 x^5 + \cdots + a_n x^n + \cdots) = 0$$

$$= 2a_2 + (3\cdot 2a_3 - a_0)x + (4\cdot 3a_4 - a_1)x^2 + (5\cdot 4a_5 - a_2)x^3 + (6\cdot 5a_6 - a_3)x^4 + \cdots + (n(n-1)a_n - a_{n-3})x^{n-2} + \cdots$$

$\Rightarrow 2a_2 = 0$ $\quad \Rightarrow 3\cdot 2\, a_3 - a_0 = 0$ $\quad \Rightarrow 4\cdot 3\, a_4 - a_1 = 0$

$a_2 = 0.$ $\quad 3\cdot 2a_3 = a_0$ $\quad 4\cdot 3\, a_4 = a_1$

$a_3 = \frac{a_0}{3\cdot 2}$ $\quad a_4 = \frac{a_1}{4\cdot 3}$

$\therefore a_3 = \frac{a_0}{3!}$ $\quad \therefore a_4 = \frac{2a_1}{4!}$

$\Rightarrow 5\cdot 4\, a_5 - a_2 = 0$

$5\cdot 4 a_5 = a_2$

$a_5 = \frac{a_2}{5\cdot 4}$

$\therefore a_5 = \frac{0}{5\cdot 4} = 0$

equating the coefficient of x^{n-2} is zero

$\Rightarrow n(n-1)a_n - a_{n-3} = 0$

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TEACHING NOTES /PLAN

the Department /Subject : mathematics

the Lecturer : B. Vineela

Group :

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nopsis :

Solved Examples :-

(1) Express $H(x) = x^3 + 3x^2 + 5x + 6$ in terms of Hermite's polynomials.

Solution :- From Sec. 4.6, we have

$H_0(x) = 1$, $H_1(x) = 2x$, $H_2(x) = 4x^2 - 2$ and $H_3(x) = 8x^3 - 12x$

$\therefore$ From $H_3(x) = 8x^3 - 12x$, $x^3 = \frac{1}{8} H_3(x) + \frac{3}{2}(x)$

From $H_2(x) = 4x^2 - 2$, $x^2 = \frac{1}{4} H_2(x) + \frac{1}{2}$

From $H_1(x) = 2x$, $x = \frac{1}{2} H_1(x)$

and $1 = H_0(x)$

Substituting the values of x^3, x^2, x, we have

$$H(x) = \frac{1}{8} H_3(x) + \frac{3}{2} x + 3x^2 + 5x + 6$$

$$= \frac{1}{8} H_3(x) + 3x^2 + \frac{13}{2} x + 6$$

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TEACHING NOTES /PLAN

e Department /Subject : Mathematics

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ynopsis :

$P_n(x)$ is a terminating series and gives what are known as legendre's polynomials for different values of n.

we can write $P_n(x) = \sum_{r=0}^{N} \frac{(-1)^r (2n-2r)!}{2^n r!(n-2r)!(n-r)!}$

where $N = \begin{cases} n/2, & \text{if } n \text{ is even} \\ (n-1)/2, & \text{if } n \text{ is odd.} \end{cases}$

* Legendre's function of second kind $[Q_n(x)]$

when n is a positive integer and $a_0 = \frac{n!}{1\cdot 3\cdot 5 \cdots (2n+1)}$. the above solution (4) is denoted by $Q_n(x)$ and is called the legendre's function of second kind.

$$\therefore Q_n(x) = \frac{n!}{1\cdot 3\cdot 5 \cdots (2n+1)} \left[x^{-n-1} + \frac{(n+1)(n+2)}{2\cdot(2n+3)} x^{-n-3} + \frac{(n+1)(n+2)(n+3)(n+4)}{2\cdot 4\cdot(2n+3)(2n+5)} x^{-n-5} + \cdots \right]$$

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TEACHING NOTES /PLAN

e of the Department /Subject : mathematics

e of the Lecturer : B. vineela

se / Group :

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of the topic :

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ous Knowlwdge

reminded :

Synopsis :

to zero, we have $a_K\{(k+m)^2-n^2\} + a_{k-2} = 0$

(or) $a_k = -\frac{a_{k-2}}{(k+m+n)(k+m-n)}$ ——— (3)

putting $k=3$ in (3), we get-

$$a_3 = -\frac{a_1}{(m+3+n)(m=3-n)}$$

Similarly, putting $k = 5, 7, 9 \ldots$ we can find that $a_5 = a_7 = 0$

$= a_9 = a_{11} = \ldots$ i.e $a_1 = 0 = a_3 = a_5 = \ldots$

Bessel Functions

Hence, we are to evaluate only a_2, a_4, a_6 etc.

Now two cases arise.

Case(i) when $m=n$

In this case from (3) we get $a_k = -\frac{a_{k-2}}{(2n+k)k}$ ——— (4)

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TEACHING NOTES /PLAN

e of the Department /Subject : mathematics

of the Lecturer : B. Vineela

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Synopsis :

$$J_{-n}(x) = \sum_{s=0}^{\infty} \frac{(-1)^{n+s}}{(n+s)!\,\sqrt{(-n+n+s+1)}} \left(\frac{x}{2}\right)^{-n+2n+2s}$$

$$= (-1)^n \sum_{s=0}^{\infty} \frac{(-1)^s}{(n+s)!\,\sqrt{(s+1)}} \left(\frac{x}{2}\right)^{n+2s} = (-1)^n \sum_{s=0}^{\infty} \frac{(-1)^s}{s!\,\sqrt{(n+s+1)}} \left(\frac{x}{2}\right)^{n+2s}$$

$$\left[\because \sqrt{(s+1)} = s! \quad \text{and} \quad (n+s)! = \sqrt{(n+s+1)}\right]$$

$$\therefore J_{-n}(x) = (-1)^n J_n(x)$$

② Using Jacobi Series, prove that $J_0^2 + 2\left[J_1^2 + J_2^2 + J_3^2 + \cdots\right] = 1$

Solution :- The Jacobi series are

$$\cos(x\sin\theta) = J_0 + 2(J_2\cos 2\theta + J_4\cos 4\theta + \cdots) \longrightarrow (1)$$

and $$\sin(x\sin\theta) = 2(J_1\sin\theta + J_3\sin 3\theta + \cdots) \longrightarrow (2)$$

Also we know that if m and n are integers

$$\int_0^{\pi} \sin m\theta \sin n\theta\, d\theta = \int_0^{\pi} \cos m\theta \cos n\theta\, d\theta = \begin{cases} \pi/2, & \text{if } m=n \\ 0, & \text{if } m\neq n \end{cases}$$

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TEACHING NOTES /PLAN

e of the Department /Subject : Mathematics

of the Lecturer : B. Vineela

e / Group :

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of the topic :

Required :

ng Ojectives :

us Knowlwdge

reminded :

Synopsis :

Squaring (1) and integrating with respect to θ between the limits 0 to π, we get-

$$\int_0^{\pi} \cos^2(x\sin\theta)\,d\theta = J_0^2\pi + 2J_2^2\pi + 2J_4^2\pi + \cdots \longrightarrow (3)$$

Now Squaring (2) and integrating w.r.t θ between the limits 0 to π, we get-

$$\int_0^{\pi} \sin^2(x\sin\theta)\,d\theta = 2J_1^2\pi + 2J_3^2\pi + 2J_5^2\pi + \cdots \longrightarrow (4)$$

3 + (4) gives

$$\int_0^{\pi} \left[\cos^2(x\sin\theta) + \sin^2(x\sin\theta)\right] d\theta = \pi\left[J_0^2 + 2\left(J_1^2 + J_2^2 + J_3^2 + \cdots\right)\right]$$

$$(17)\quad \int_0^{\pi} d\theta = \pi\left[J_0^2 + 2\left(J_1^2 + J_2^2 + J_3^2 + \cdots\right)\right]$$

$$(08)\quad (\theta)_0^{\pi} = \pi = \pi\left[J_0^2 + 2\left(J_1^2 + J_2^2 + J_3^2 + \cdots\right)\right]$$

$$\therefore J_0^2 + 2\left(J_1^2 + J_2^2 + J_3^2 + \cdots\right) = 1$$

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TEACHING NOTES /PLAN

e of the Department /Subject : mathematics

e of the Lecturer : B. Vineela

se / Group : III B.Sc

r :

e of the topic : Sequence

s Required :

ing Ojectives :

ous Knowlwdge

reminded :

Synopsis :

$\forall n > m, n \in z^+$

For any $p, q > m$

$\Rightarrow |s_p - l| < \frac{\varepsilon}{2}$ and $|s_q - l| < \frac{\varepsilon}{2}$

$|s_p - s_q| = |s_p - l + l - s_q| \leq |s_p - l| + |l - s_q| < \frac{\varepsilon}{2} + \frac{\varepsilon}{2} = \varepsilon$

$\Rightarrow |s_p - s_q| < \varepsilon . \forall p q > m$

$\therefore \{s_n\}$ is cauchy sequence.

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TEACHING NOTES /PLAN

e of the Department /Subject : mathematics

e of the Lecturer : D. Vineela

se / Group :

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e of the topic :

s Required :

ning Ojectives :

ous Knowlwdge

e reminded :

: Synopsis :

4. $\alpha = \alpha \ \forall \alpha \in V$

① show that the set V_n of all ordered n-Toples over a field is a vector space with respect to addition of n-Toples and multiplication of n-toples by a scalar.

Sol: $(V_n, +)$ commutative Group

(i) closure law : $\forall \alpha, \beta \in V_n$

$\Rightarrow \alpha = (a_1, a_2 \ldots a_n) \quad \beta = (b_1, b_2 \ldots b_n)$

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TECAHING NOTES/PLAN

Name of the Department/Subject : CHEMISTRY
Name of the Lecturer : P. VIJAYA LAKSHMI
Academic Year : 2021-22

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TEACHING NOTES /PLAN

ne of the Department /Subject : chemistry

e of the Lecturer : P. Vijaya Lakshmi

rse / Group : I CBZ

er : I year II Sem

e of the topic : Preparation of Alkanes & Physical Properties

s Required : 1

ning Ojectives :

ious Knowlwdge

e reminded :

: Synopsis : ① Wurtz Reaction:

$$2R-X + 2Na \xrightarrow{\text{Dry Ether}} R-R + NaX$$

② Wurtz Fittig Reaction:

$$R-X + Ar-X + 2Na \xrightarrow{\text{Dry Ether}} R-Ar + 2NaX$$

③ Corey House Reaction:

$$R-X + R_2CuLi \longrightarrow R-R + R-Cu + LiX$$

Gilmenn's Reagent

Physical Properties : 1. Physical state: C_1-C_4 gases
C_5-C_{17} liquids
C_{18} onwards solids

2. Solubility : Soluble in non polar solvents

3. B.P : B.P increases as no. of carbons increases.

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TEACHING NOTES /PLAN

ne of the Department /Subject : Chemistry

e of the Lecturer : P. Vijaya Lakshmi

'se / Group : CBZ

:r : I Year

e of the topic : Aromaticity

s Required : 1 hr

ıing Ojectives :

ous Knowlwdge

e reminded :

Synopsis : Aromaticity :

molecule must be planed (sp^n hybridised)
cyclic & conjugate dbs
Hucked's Rule: possess $(4n+2)\pi$ e's, where n = 0, 1, 2, ...
no. of rings

Benzenoid com:







Non Benzenoid com:



cyclo propenyl cation



cyclo pentadienyl anion



cyclohepta trienyl (tropelium cation)
cation

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GOVT.DEGREE & P.G .COLLEGE,PADERU.

(NAAC Reaccredited C Grade Institution)

Visakhapatnam-531024

TEACHING NOTES /PLAN

e of the Department /Subject : Chemistry

of the Lecturer : P. Vijaya Lakshmi

e / Group : ~~CBZ~~

: I year

of the topic : Stereo chemistry

Required :

ng Ojectives :

us Knowlwdge

reminded :

Synopsis : Relative configuration (D-L configuration)

Earlier the configuration of all compds were studied w.r.t glyceraldehyde. It was taken as arbitary standard. (+)-glyceraldehyde having -OH on right & the H on left, -CHO & $-CH_2OH$ are at top & bottom respectively. It was given the configurational Symbol D. (−)-glyceraldehyde having -OH on left & H on right was given the configurational Symbol L.

Any compound that can be prepared from D converted into D (+)-glyceraldehyde will belong to D- configuration. Eg. glyceric acid.

Any compound that can be prepared from L converted into L (−) glyceraldehyde will belong to L- configuration. Eg.

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TEACHING NOTES /PLAN

me of the Department /Subject :

ne of the Lecturer :

rse / Group :

er :

ne of the topic :

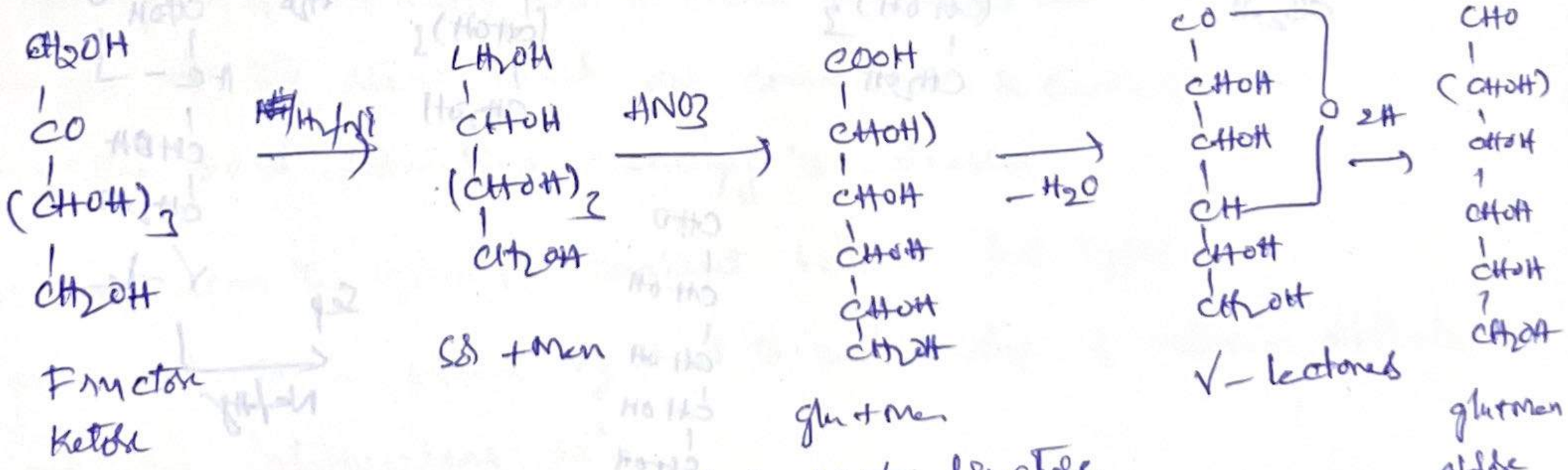
rs Required :

ning Ojectives :

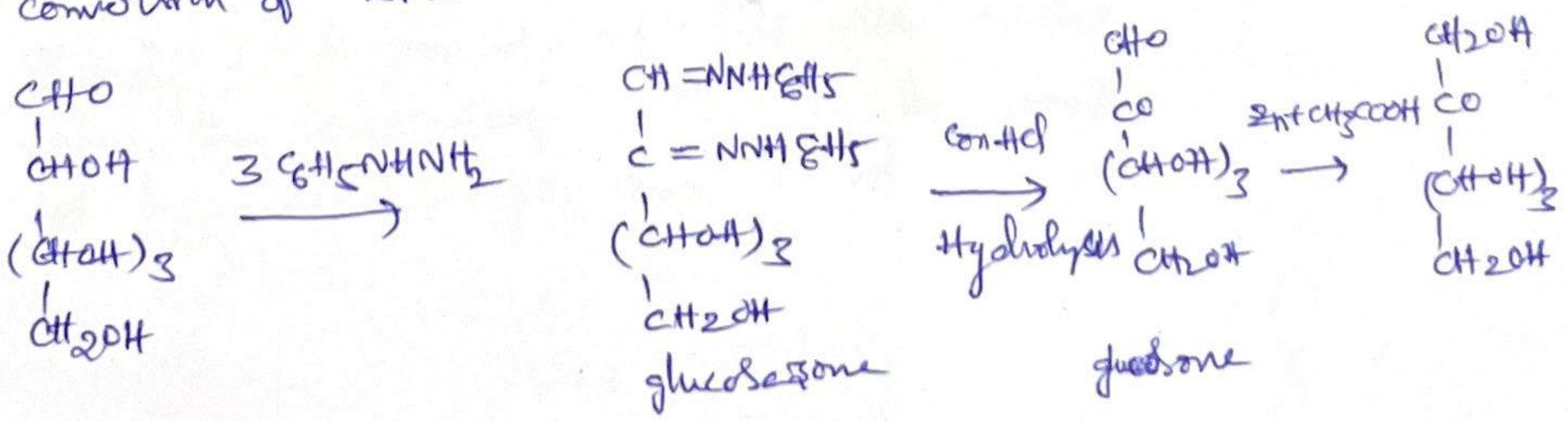
ious Knowlwdge

e reminded :

: Synopsis : ① Conversion of Ketose into Aldose (Fructose to glucose)



② Conversion of Aldose to Ketose (glucose to fructose



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TEACHING NOTES /PLAN

e of the Department /Subject : CHEMISTRY

of the Lecturer : P. VIJAYA LAKSHMI

e / Group : CBZ

: I Year II Sem

of the topic : VBT

Required : 1 hr

ing Ojectives :

ous Knowlwdge

reminded :

Synopsis : VBT: Introduced by Heitler & London developed by pauling & Slater

Main Assumption of this theory are ① Bond is formed due to the interaction of Valence $\bar{e}$s of two atoms which are come closer to eachothers.

② During the bond formation energy is released

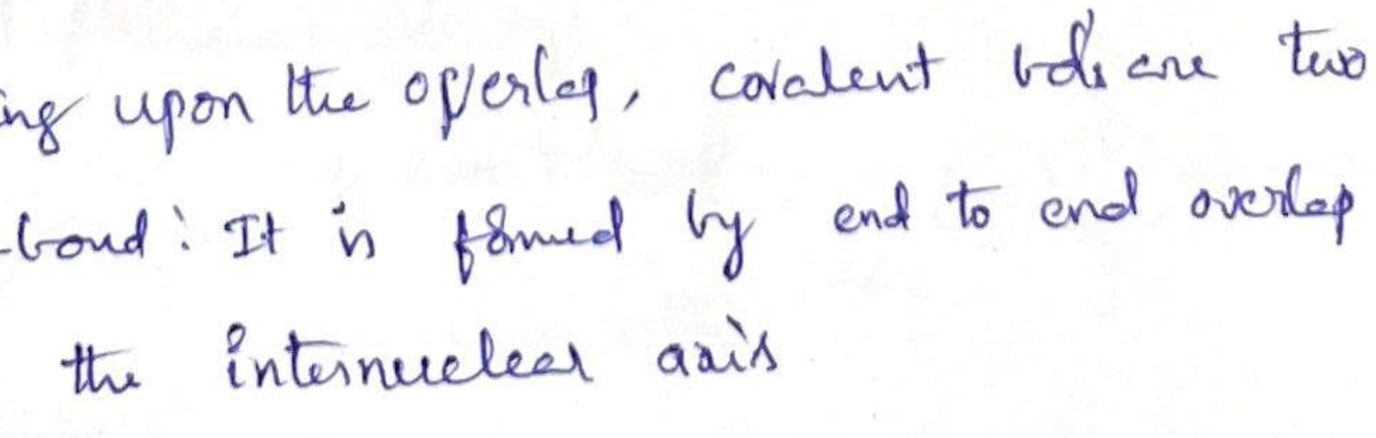
③ Depending upon the overlap, covalent bds are two types

(i) Sigmabond: It is formed by end to end overlap of atomic Orbitals along the internuclear axis

ii) Pi Bond: It is formed by Side wise overlap

④ greater the overlaping stronger the bond

σ bd is more stronger than π bd.





Side wise overlap

π bond formation

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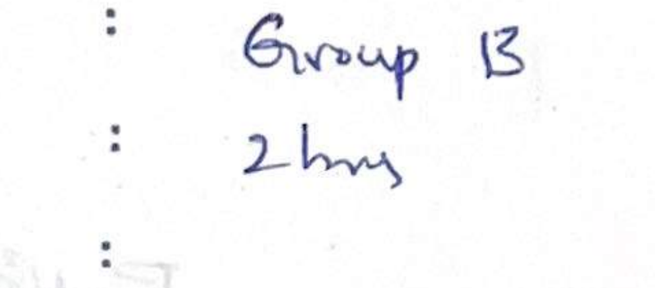
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TEACHING NOTES /PLAN

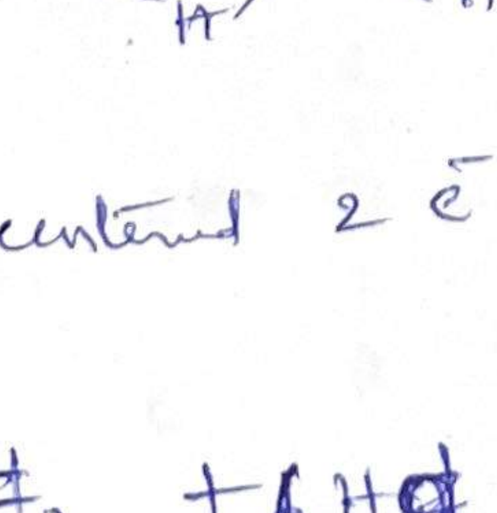
of the Department /Subject	:	chemistry
of the Lecturer	:	P. Vijaya Lakshmi
e / Group	:	BSc, CBZ
	:	paper I
of the topic	:	Group 13
Required	:	2 hrs
ng Ojectives	:	
us Knowlwdge		
reminded	:	
Synopsis	:	Diborane - Structure



3 centred 2 $\bar{e}$ bond ($\bar{e}$ deficient)

$2BH_3 + 6HCl \longrightarrow B_2H_6 + 6HF$

Borazine : $B_2H_6 + NH_3 \longrightarrow B_3N_3H_6$



Inorganic Benzene

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TEACHING NOTES /PLAN

e of the Department /Subject : chemistry

of the Lecturer : P. Vijaya Lakshmi

e / Group : BSc CBZ

: paper I

of the topic : f-Block elements

Required : 3hrs

ng Ojectives :

us Knowlwdge

reminded :

Synopsis : Lanthanides - Configuration $4f^{1-14}$ $5d^{1-2}$ $6s^{2}$

Variable valencies - +3(more stable), +2, +4

magnetic properties - $J = \sqrt{4S(S+1)+L(L+1)}$ BM

Sm has the magnetic moment in predicted

Lanthanide contraction : decrease in size

consequences : occurs with Lanthanides

Alkalinity decreases from La to Lu

Hydration increases from La to Lu

complexing ability increases from La to Lu

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TEACHING NOTES /PLAN

e of the Department /Subject : chemistry

e of the Lecturer : P. vijaya Lakshmi

se / Group : BSc CBZ

r : paper 1

e of the topic : Liquid state

s Required :

ing Ojectives :

ous Knowlwdge

reminded :

Synopsis : Liquid state - Liquid crystals - mesomorphic state

Solid → Liquid crystal → Liquid

classification:

1. Smectic - Soap like - Layer structure - Ordered
2. Nematic - Thread like - exhibit colors
3. cholesteric liquid crystal

Applications of liquid crystals: As LCD Devices

Digital Watches, clocks, TVs, calculators

in medicinal formulation

to detect tumors

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TEACHING NOTES /PLAN

of the Department /Subject : Chemistry

of the Lecturer : P. VIJAYA LAKSHMI

e / Group : CBZ, paper I

:

of the topic : Molecular Orbital Theory.

Required :

ng Ojectives : Formation of Bonding

us Knowlwdge

reminded : Chemical Bonding

Synopsis : Developed by Hund & Mulliken.

According to MO Theory

~~A.Os overlap to form~~ M.Os are formed by the overlapig of A.Os

M.O Surrounds the nuclei of the both atoms ② No. of M.Os formed equal to no. of A.Os involved in overlapig

Energy of M.O is less than the sum of the energies of A.Os & consequently M.O is more stable than A.O.

③ Like A.Os M.Os also obeys Aufbau & Pauli Exclusion principles.

When two A.Os combine two M.Os are produced. Then Two M.Os are called as Bonding Mol. Orbital & Anti Bonding Mol Orbital.

Half of the M.Os will have less energy & called B.O.s Half of the M.O will have high energy & called A.B.Os

A/c to LCAO method the M.O is a linear comb^n of AO & have functions of the

A.O a. Consider the two atoms A & B of a diatomic molecule

Let ψ_A , ψ_B Represents the Wave functions of atoms A & B respectively. Then

$$\psi_b = \psi_a + \psi_B \text{ -①} \qquad \psi_a = \psi_A - \psi_B \text{ -②}$$

where ψ_b & ψ_a correspond to wave functions of bonding & anti bonding MOs respe

Since Square of the W.fun gives the probability of finding e^-, Squaring eq ① & ② we get

$$\psi_b^2 = \psi_A^2 + \psi_B^2 + 2\psi_A\psi_B \text{ -③} \quad \& \quad \psi_a^2 = \psi_A^2 + \psi_B^2 - 2\psi_A\psi_B \text{ -④}$$

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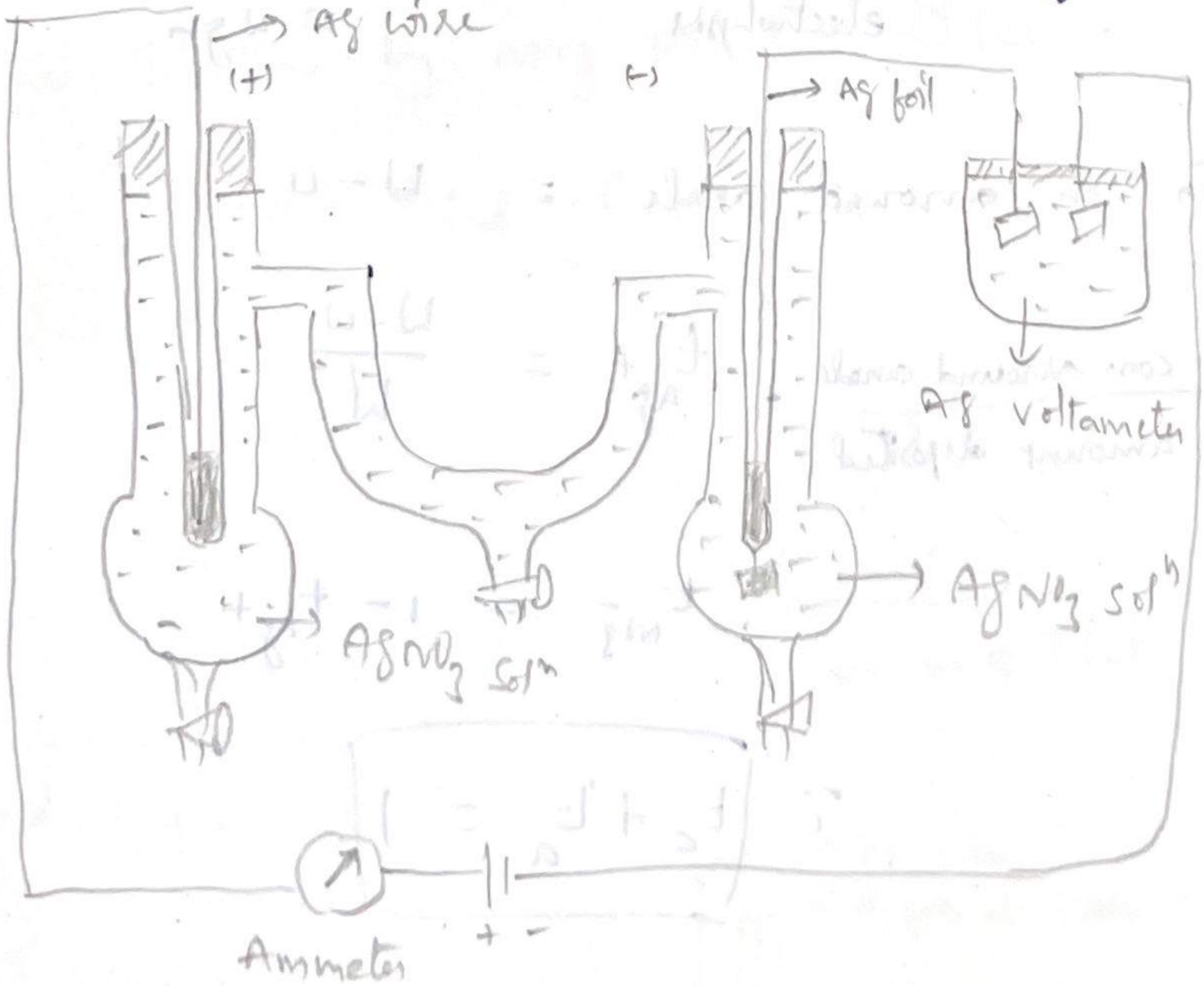
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TEACHING NOTES /PLAN

of the Department /Subject	:	Chemistry
f the Lecturer	:	P. VIJAYA LAKSHMI
/ Group	:	CBZ
	:	
f the topic	:	Transport Number
equired	:	
g Ojectives	:	Conductivity
s Knowlwdge		
eminded	:	electrochemistry
ynopsis	:	Defⁿ of transport number by using Hittorf's method



Transport no. of cation = $\frac{\text{current carried by cation}}{\text{Total current}}$ (or)

= $\frac{\text{velocity of cation}}{\text{velocity of cation + velocity of Anion}}$

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TEACHING NOTES /PLAN

e of the Department /Subject : Chemistry

of the Lecturer : P. VIJAYA LAKSHMI

e / Group : CBZ

: III year

of the topic : Environmental Chemistry

Required : 4

ing Ojectives :

ius Knowlwdge

reminded :

Synopsis : classification of Natural resources :—

Natural resources are classified into two types on the basis of their replenishing ability. They are (1) Renewable resources

(2) Non renewable resources.

Renewable resources: Renewable resources are those which can be replenished & renewed naturally over time.

The five majo renewable energy resources are

(i) Solar

ii) Water

iii) Wind

iv) Biomass

v) Geothermal

Non renewable resources

i) Coal, Natural gas, fossil fuel

ii) Atomic Energy

Examples/Illustrations : Scilab, Dance

Additional Inputs :

Teaching Aids Used : Digital Board

References Cited :

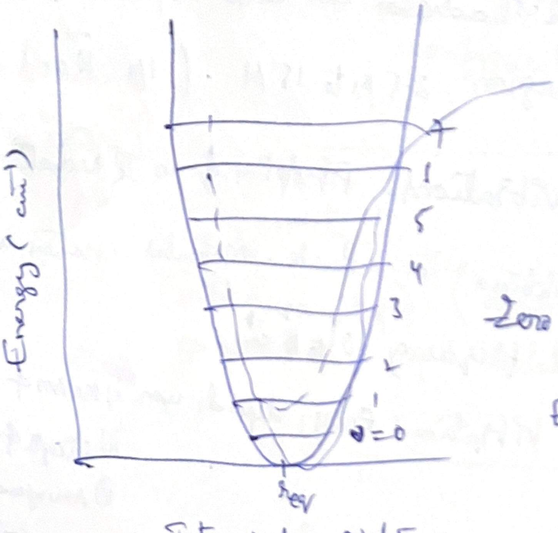
Student Activity planned

After the teaching :

Activity planned

Outside the Classroom, If any :

Any other activity :



Potential Energy curve of a simple Harmonic oscillator

Dotted curve for a typical diatomic molecule

$E_v = (v+\frac{1}{2})h\nu$, v = vib quantum no. = 0, 1, 2, ...

$E_v = (v+\frac{1}{2})hc\bar{\omega}_e$ ($\because \bar{\omega}_e = \frac{\nu}{c}$), $\bar{\omega}_e$ = vib freq

$E_0 = \frac{1}{2}h\nu$

$E_1 = \frac{3}{2}h\nu$

$E_2 = \frac{5}{2}h\nu$ ...

Zero point Energy

$E_0 = \frac{1}{2}hc\bar{\omega}_e$

P. Vijaya Lakshmi

Signature of the Lecturer

Natural resources

Renewable resources

The five major

(i) Solar

ii) Water

iii) Wind

iv) Biomass

v) Geothermal

దీని ప్రధాన భాగాలు :

(1) సమాచార మార్పిడి పద్ధతి

(2) సమాచార పెంపుదల

(3) భాగ కర్తృత్వ నిర్ణయం

(4) సమీకరణం

(5) సంక్షిప్తీకరణ, శీర్షిక నుండి

(6) రిజర్వేషన్లు నాశనం చేస్తాయి

ఇతివృత్తం ఎన్ని అధ్యాయాలను సూచించింది.
కాని వాటి పేర్లు లేవు.

Examples / Illustrations :
Additional inputs :
Teaching Aids used : Black Board
References cited : పాఠ్య పుస్తకాలు.
Student Activity planned after the teaching
Activity planned outside the Class room, if any
Any other activity

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Commissionerate of Collegiate Education, A.P.,

Proforma for Teaching Plan

Name of the Department / Subject : HISTORY

Name of the Lecturer : E.V. Jayalakshmi

Course / Group : III B.A

Paper : EL-I - History of Modern Europe

Name of the Topic : 2వ ప్రపంచయుద్ధం, దాని నేపథ్యం, పరిణామాలు.

Hours required : 8hours.

Learning objectives : ఈ పాఠ్యాంశం వల్ల విద్యార్థులకు ప్రపంచయుద్ధాల గురించి అవగాహన కలిగించడం

Previous Knowledge to be reminded : ముందున్న తరగతుల్లో చదువుకొచ్చిన మరింత అవగాహనను పెంపొందించడం.

Topics synopsis

2వ ప్రపంచ యుద్ధం :—

సామాజిక సమస్యల విషయం గురించి 2వ ప్రపంచ యుద్ధం దోహదపడింది. దీనికి కూడా చాలా కారణాలున్నవి.

1) తీవ్రవాదం పెరిగిపోవడం

2) స్వార్థ ప్రయోజనం

3) హద్దులేని దురాక్రమణలు

4) ఆర్థిక సంక్షోభాలు పెరిగిపోవడం

5) సామ్రాజ్యవాదం

6) రహస్య ఒప్పందాలు మొదలైనవి.

దీనికి ప్రపంచ దేశాలు ఎదుర్కొన్న సమస్యలకి మరల పరిష్కారాలకు కొరకు "ఐక్యరాజ్యసమితి" ఏర్పాటుచేయబడింది.

2) సమావేశపరుచుట:—
ఒకటవ రోజు వారి పిల్లలచే స్నేహ సంబంధ
సాధ్యమైనన్ని ఎక్కువ ప్రోత్సహించి సాధ్యమైన
కొన్ని మంచి పిల్లలు, సాధికారిక పిల్లలు కలిసి
సమావేశపరచి రెండు రోజు పాల్గొనుటకు ఆహ్వానించుట
సమావేశాంశాలు ప్రధానభాగాలు:—

(1) వారి మహోన్నత
(2) వారి మంచి
3, వారివారియందు
4, ఆరోగ్యకరమైన స్నేహములు
5) ఆరోగ్యకరమైన కాంక్ష సంపూర్ణము

Examples / Illustrations :
Additional inputs :
Teaching Aids used : Black Board
References cited : తెలుగు ఆటమీ పుస్తకాలు
Student Activity planned after the teaching
Activity planned outside the Class room, if any
Any other activity

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Commissionerate of Collegiate Education, A.P.,

Proforma for Teaching Plan

Name of the Department / Subject : HISTORY

Name of the Lecturer : E.V. Jayalakshmi

Course / Group : III B.A

Paper : EL-I History of Modern Europe

Name of the Topic : మొదటి ప్రపంచ యుద్ధం - నేపథ్యం కారణాలు

Hours required : 5 hours

Learning objectives : విద్యార్థినీలకు ఈ అంశం ద్వారా కింది విషయాలు తెలియజేయడం

Previous Knowledge to be reminded : గత తరగతులలో చదువుకున్న అంశాలను గుర్తు చేయడం

Topics synopsis

మొదటి ప్రపంచ యుద్ధం :- (1914 to 1918)

1914 Aug 1వ తేదీన ట్రిపుల్ అలయన్స్, ట్రిపుల్ ఎంటెంటు మధ్య జరిగిన సుదీర్ఘ యుద్ధమునకు మొదలాయె ఈ ప్రపంచ యుద్ధమును ఆపడానికి ప్రయత్నాలు చేసినా ఫలించకుండా ఎడతెగని ఒక మారణహోమం జరిగినది. ఇదియే మొదటి ప్రపంచ యుద్ధం, దీనికి అనేక కారణాలున్నవి.

1) ఉగ్రజాతీయవాదం వల్ల ఇరుదేశాల మధ్య
2) సామ్రాజ్య వైరుధ్యం, భక్తి సంఘర్షణలు
3) సైనికవాదము
4) పారిశ్రామిక భూభాగాలు
5) రహస్యమయిన కూటములు.
6) బాల్కన్ సమస్యలు
7) యుద్ధ పరిస్థితుల పర్యవసానాలు
8) తక్షణ కారణం యువరాజు హత్య.

Examples / Illustrations :	
Additional inputs :	
Teaching Aids used :	Blackboard
References cited :	తెలుగు కొటేషన్ పుస్తకాలు
Student Activity planned after the teaching	
Activity planned outside the Class room, if any	
Any other activity	

Signature of the

Commissionerate of Collegiate Education, A.P.,
Proforma for Teaching Plan
Name of the Department / Subject : HISTORY
Name of the Lecturer : E. V. Jayalakshmi
Course / Group : III B. A
Paper : సమకాలీన భారత చరిత్ర CL-II
Name of the Topic : ఆంధ్రదేశంలో ప్రత్యేక రాష్ట్ర ఉద్యమం - మొదటి దశ (1913-1953)
Hours required : 5 hours
Learning objectives : ఈ పాఠ్యాంశం విద్యార్థులకు ప్రస్తుత రాజకీయ పరిస్థితులపై అవగాహన పెంపొందిస్తుంది.
Previous Knowledge to be reminded : మునుపటి తరగతుల పాఠ్యాంశాలను పునశ్చరణ చేయడం.

Topics synopsis

ప్రత్యేక ఆంధ్రదేశం ఏర్పాటు కోసం, 1869 నుండి ప్రారంభమైన జిల్లాల విలీనీకరణ ప్రత్యేక ఆంధ్ర ఉద్యమానికి బీజాలు వేసింది. ఈ విలీనీకరణ వల్ల తెలుగు ప్రజలు ఎదుర్కొన్న కష్టనష్టాలను ఆనాటి నాయకులు ప్రస్తావించారు. 1911 లో ఆంధ్ర మహాసభ ఏర్పడి ఆంధ్ర ఉద్యమానికి ఊపిరి పోసింది. 1913 లో ఆంధ్ర మహాసభ మొదటి సమావేశం జరిగింది. ఆంధ్ర ఉద్యమ చరిత్రలో ఈ సమావేశం ఒక మైలురాయి.

ఆంధ్ర ఉద్యమ చరిత్ర :- ఆంధ్ర ఉద్యమ చరిత్రను తెలుసుకోవడానికి ముందు "Indian Society" అనే పదాన్ని కొంచెం వివరంగా తెలుసుకోవాలి. ఇండియన్ సొసైటీ అనేది వివిధ కులాలు, మతాలు, భాషలు, సంస్కృతులు కలిగిన ప్రజలు నివసించే సమాజం. ఈ సమాజంలో ప్రజలు ఒకరిపై ఒకరు ఆధారపడి జీవిస్తారు. ఈ సమాజంలో ప్రజలు తమ హక్కుల కోసం, అభివృద్ధి కోసం పోరాడుతారు. ఈ పోరాటాలే ఆంధ్ర ఉద్యమానికి దారితీశాయి.

ఆంధ్ర ఉద్యమం మొదటి దశలో ప్రత్యేక ఆంధ్ర రాష్ట్ర ఏర్పాటు కోసం ప్రజలు ఎన్నో త్యాగాలు చేశారు. ఈ ఉద్యమం 1953 లో ఫలించి, ఆంధ్ర రాష్ట్రం ఏర్పడింది. ఈ ఉద్యమం భారత చరిత్రలో ఒక ముఖ్యమైన ఘట్టం.

Examples / Illustrations :

Additional inputs :

Teaching Aids used : BlackBoard

References cited : పాత బుక్స్ చదివాను

Student Activity planned after the teaching

Activity planned outside the Class room, if any

Any other activity

Signature of the Tea

Commissionerate of Collegiate Education, A.P.,

Proforma for Teaching Plan

Name of the Department / Subject : HISTORY

Name of the Lecturer : E.V. Jayalakshmi

Course / Group : III. A

Paper : I చరిత్ర పూర్వయుగం

Name of the Topic : మౌర్య / శాతవాహన వంశం

Hours required : [illegible]

Learning objectives : [illegible]

Previous Knowledge to be reminded [illegible]

Topics synopsis

మౌర్య / శాతవాహన వంశ స్థాపన :—

సుదర్శనం చెరువు నిర్మించిన పుష్యగుప్తుడ్ని అశోకుడు చంద్రగుప్త మౌర్యుడు సింహాసనాన్ని నిష్క్రమించి, తమ్ముడు బిందుసారుడు మౌర్య వంశాన్ని స్థాపించాడు.

బిందుసారుడు :—

అశోకుడు :— చాణక్యుడు సేవచేయడం, బుద్ధుని ప్రచారం, కళింగ యుద్ధం తరువాత బౌద్ధమతం స్వీకరించడం, ధర్మ ప్రచారకుడుగా మారిపోవడం జరిగింది.

మౌర్య / శాతవాహన పరిపాలన, మౌర్యుల కాలంనాటి సాంఘిక, ఆర్థిక, మతపరిస్థితులు, మౌర్యుల పతనానికి కారణాలు వివరించడం జరిగింది.

శ్రీ కృష్ణదేవరాయలు :-

విజయనగర సామ్రాజ్యాన్ని పాలించిన చక్రవర్తులలో శ్రీకృష్ణ
శ్రీ కృష్ణదేవరాయలు (క్రీ.శ. 1509-1529) అతి కలుపరి
విజయనగర సామ్రాజ్యం దక్షిణ భారతదేశమంతటికి విస్తరించింది
దక్షిణ భారత సార్వభౌముడు, కళా పోషకుడయ్యాడు.

శ్రీ కృష్ణదేవరాయలు తుళువ వంశస్థుడు, ఇతని తల్లి
తండ్రులు నరసనాయకుడు, నాగాంబ. బాల్యం నుండి ఉన్నతి
అంచుకే తిమ్మరుసు సేవలతోపాటు సకలవిద్యలు నేర్చుకొని
పాలనకి కావలసిన తన లక్ష్యాలు చుట్టుపక్కలవారిని తన వశ పర్చి చుట్టుపక్క
లా ఆక్రమించిన వీరసేనాయకులను మరణానంతరం శ్రీకృష్ణదేవరాయలు
క్రీ.శ. 1509లో విజయనగర సింహాసనాన్ని అధిష్టించాడు. సామ్రా
విస్తరించుట ఇతని ప్రధానలక్ష్యం. పార్శ్వనేమినాథుని సంధి (ఏ
పరమతసహనం, సర్వమత పోషణ, కళాభిమానం, ఘనత

Examples / Illustrations :

Additional inputs :

Teaching Aids used : Black Board.

References cited : తెలుగు చెకవీ పుస్తకాలు.

Student Activity planned after the teaching

Activity planned outside the Class room, if any

Any other activity

Signature of the Teach

Commissionerate of Collegiate Education, A.P.,

Proforma for Teaching Plan

Name of the Department / Subject : HISTORY

Name of the Lecturer : E.V. Jayalakshmi

Course / Group : III B.A

Paper : VI — భారత చరిత్ర - సంస్కృతి

Name of the Topic : విజయనగర సామ్రాజ్యం

Hours required : 6 hours

Learning objectives : ఈ పాఠ్యాంశం వల్ల విద్యార్థులకి పూర్తి అవగాహన కల్పించడం.

Previous Knowledge to be reminded ముందున్న తరగతుల కంటే వారికి కొంతవరకు అవగాహన ఉంటుంది.

Topics synopsis

విజయనగర సామ్రాజ్య స్థాపన :—

క్రీ.శ. 1336 లో స్థాపించబడిన ఈ విజయనగర సామ్రాజ్యం సుమారు 2 శతాబ్దాల కాలం మరుగు దక్షిణాపథంలో కు యావద్భారతదేశంలో వేయవసంస్కృతికి ప్రతిరూపమైంది. మధ్యయుగ భారతదేశంలో కీలకపాత్ర వహించింది.

విజయనగర స్థాపనకు కారణాలు :—

ప్రధానంగా 3 కారణాలున్నాయి.

1) దక్షిణాపథంలో ముస్లిం రాజ్యవిస్తరణను అడ్డుకోవడం
2) దక్షిణాపథానికి రాజకీయ భద్రతను ప్రసాదించడం
3) దక్షిణ భారతంలో హిందూ సంస్కృతిని పరిరక్షించడం.

సంగమ వంశపాలకులు :—

మొదటి హరిహరరాయలు (క్రీ.శ. 1336 - 1357)
రెండవ బుక్కరాయలు (క్రీ.శ. 1357 - 1377)
రెండవ హరిహరరాయలు (క్రీ.శ. 1377 - 1405)
మొదటి దేవరాయలు (క్రీ.శ. 1406 - 1422)
రెండవ దేవరాయలు లేక ఫ్రౌఢదేవరాయలు (క్రీ.శ. 1422 - 1446)

2) బుద్ధమతం: —

బుద్ధుని బోధనలు సిద్ధార్థుడు- సిద్ధార్థుడు క్రీ.పూ. 6వ శతాబ్దంలో భారతదేశంలో నివసించిన ఒక రాజకుమారుడు. అతను తన రాజభవనాన్ని విడిచిపెట్టి జ్ఞానోదయం పొందాడు. జ్ఞానోదయం తర్వాత అతను బుద్ధుడు అని పిలువబడ్డాడు. బుద్ధుడు తన జీవితాంతం ప్రజలకు బోధించాడు. అతని బోధనలు బౌద్ధమతానికి పునాదిగా మారాయి. బౌద్ధమతం ప్రపంచంలోని అతిపెద్ద మతాలలో ఒకటి. ప్రపంచవ్యాప్తంగా 500 మిలియన్ల మంది బౌద్ధులు ఉన్నారు.

బుద్ధుని బోధనలు చేసిన సూత్రాలు: —

(1) త్రిరత్నాలు
ఇ, త్రైలోక్య మహిమ, ఆ, సంఘం, (4) ఇతర బోధనలు.

Examples / Illustrations :	
Additional inputs :	
Teaching Aids used :	Black Board
References cited :	తెలుగు కొత్త పుస్తకాలు
Student Activity planned after the teaching	
Activity planned outside the Class room, if any	
Any other activity	

Signature of the Teacher

Commissionerate of Collegiate Education, A.P.,

Proforma for Teaching Plan

Name of the Department / Subject : HISTORY

Name of the Lecturer : E. V. Jayalakshmi

Course / Group : IB.A

Paper : I భారతదేశ చరిత్ర – పురాచరిత్ర

Name of the Topic : జైన, బౌద్ధమతాలు, ఆవిర్భావము, వ్యాప్తి, సిద్ధాంతాలు.

Hours required : 6 hours

Learning objectives : ఈ పాఠ్యాంశం ద్వారా విద్యార్థులకు పూర్తి అవగాహన కల్పించడం.

Previous Knowledge to be reminded మీరు ఇప్పటికే ఈ అంశాల గురించి కొంత/మరింత అవగాహన కలిగి ఉన్నారు.

Topics synopsis

జైనమతం :— క్రీ.పూ. ఉపనిషత్తులు ఎలాంటి నూతనభావాలకి చోటు ఇవ్వకుండా అనేక సంప్రదాయాలకు పరిణామాలు సంభవించాయి. పాతవిలువలు, ప్రశ్నలు, విశ్వాసాల పట్ల ప్రజలకు ఉండాల్సిన అధికమయింది. ఈ అంశాల్లో వివిధమతశాఖలు ప్రతిధ్వనిస్తున్నాయి. అందువల్ల ఉపనిషత్తులలో ఉన్న భావాలకు వ్యతిరేకంగా ఏర్పడిన రెండు మతాలే జైనబౌద్ధం.

బౌద్ధమతం కంటే జైనమతం ప్రాచీనమైనది. జైనమత ప్రవక్తలను తీర్థంకరులు అంటారు. వీరు 24 మంది. వారిలో మొదటి తీర్థంకరుడు ఋషభనాథుడు. ఇతనితీర్థంకరులు పార్శ్వనాథుడు, 24వ వర్ధమాన మహావీరుడు ఎంతో తీర్థంకరుడు.

జైనమత బోధనలు :—

1) పంచ వ్రతాలు
2) త్రిరత్నాలు
3) సల్లేఖన వ్రతం
4) కైవల్యం
5) ఇతరసిద్ధాంతాలు
6) జైనమత వ్యాప్తి
7) పతనం

2) భారతదేశ భౌగోళిక పరిస్థితులు — వాటి ప్రభావం :—

భారతదేశంలో గల భౌగోళిక పరిస్థితులను కరక్కుగా వివరించవచ్చును.

1, పీఠభూములు
2, ఇతర పర్వతాలు
3, నదులు
4, తీరప్రాంతం
(5) వాతావరణం వివరించవచ్చును.

Examples / Illustrations :
Additional inputs :
Teaching Aids used : Black Board
References cited : అలగ బొడువీ పుస్తకాలు
Student Activity planned after the teaching
Activity planned outside the Class room, if any
Any other activity

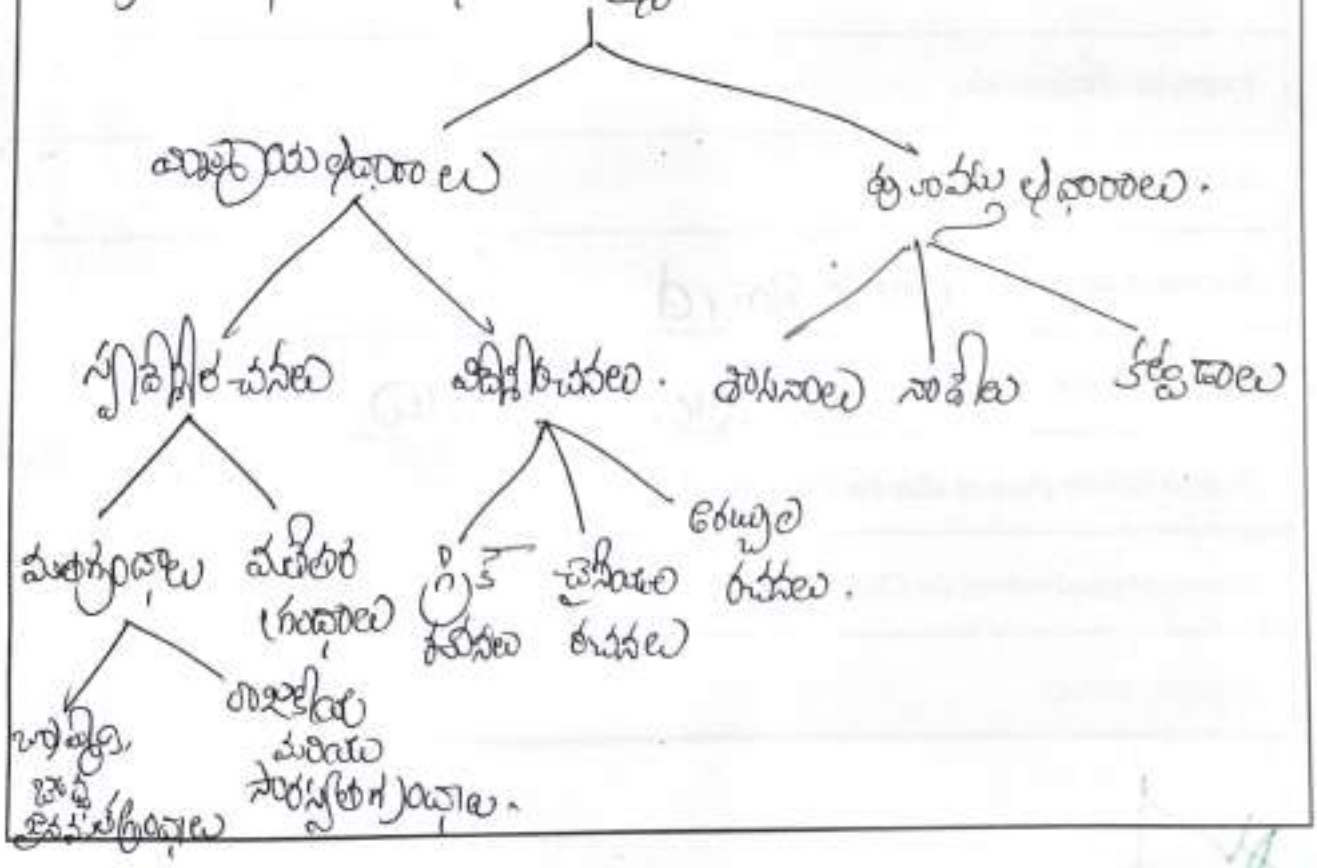
Signature of the Teacher

Commissionerate of Collegiate Education, A.P.
Proforma for Teaching Plan
Name of the Department / Subject : HISTORY
Name of the Lecturer : E. V. Jayalakshmi
Course / Group : IR. A
Paper : I భారతదేశ చరిత్ర - సంస్కృతి
Name of the Topic : భారతదేశ చరిత్ర రచనకు ఫీథాలు - చరిత్రపూర్వ, ఆద్య చారిత్రక యుగాలు
Hours required : 6 hours
Learning objectives : ఈ పాఠ్యాంశం వల్ల విద్యార్థినీలకు చరిత్రపూర్వకాలం గురించి తెలుసుకోవడం
Previous Knowledge to be reminded మీరు ఇప్పటికే చదివేసి ఉంటారు కాబట్టి మరింత ఉత్సాహంగా పాఠం వినడానికి సిద్ధంగా ఉండండి

Topics synopsis

చరిత్ర రచనకు ఫీథాలు -

వివిధ చరిత్రలను పునర్నిర్మించడానికి, దానికి వాడిన ఫీథాలు ఉండవలెను. ఓటి ఫీథాలు లేనియెడల చరిత్రను పునర్నిర్మించడం దుర్లభం అవుతుంది. కాబట్టి భారతదేశ చరిత్రకు నిర్మించడానికి లాగిన ఫీథాలను ఈక్రింది విధంగా విభజించవచ్చును.



ప్రధానమైనది "Blood and Iron Policy" రక్తపాత

విధానం ద్వారా 3 యుద్ధాలను చేసి జర్మనీని ఏకీకరణను

సాధించాడు.

1) డెన్మార్క్ యుద్ధం

2) ఆస్ట్రో - ప్రష్యా యుద్ధం

3) ఫ్రాంకో - ప్రష్యా యుద్ధం.

2) ఇంటి పనిక :-

నాకాశుడు పేరాచొంగా పాఠంలో ఇచ్చిన
ఉదాహరణలు వివరించి. ఇంటి నమూనాలు
చేసి పుట్టలు పంపాలి. ఇటలి ఎక్కిక్కరణక్కి ఏ పనిక
వాటి ముఖ్యాలు ఎవరనగు :—

1) బొమ్మగుడి
2) వేటకుక్కగా
3) గాడుచాలిక.

3) పాఠ్యాంశ ఎక్కిక్కు :—

పాఠ్యాంశ పాఠ్యాలు ఎక్కిక్కి ఇవ్వడం
శిక్షణాలు. పాఠ్యాంశ ఎక్కిక్కరణ చివరిక్కి పాఠ్యాలు

Examples / Illustrations :

Additional inputs :

Teaching Aids used : Black Board

References cited : తెలుగు రెండవ పుస్తకాలు

Student Activity planned after the teaching

Activity planned outside the Class room, if any

Any other activity

Signature of the T

Commissionerate of Collegiate Education, A.P.,

Proforma for Teaching Plan

Name of the Department / Subject : HISTORY

Name of the Lecturer : C. V. Jayalakshmi

Course / Group : IIIB.A

Paper : HISTORY OF MODERN EUROPE - EL - I

Name of the Topic : పాఠ్యాంశ విషయం, ఇటలీ ఏకీకరణ, ఫ్రెంచి విప్లవం

Hours required : 5 hours

Learning objectives : పాఠ్యాంశం ద్వారా విద్యార్థులకు స్పష్టమైన అవగాహన కలిగించడం

Previous Knowledge to be reminded పాఠ్యాంశ విషయానికి సంబంధించిన అంశాలను గుర్తు చేయడం

Topics synopsis

పాఠ్యాంశ విషయం :—

18, 19 శతాబ్దాలలో జరిగిన విప్లవం. కొత్త రకమైన ఉత్పత్తి గల చిన్నపరిశ్రమల స్థానంలో విస్తృతమైన ఉత్పత్తిచేసే యంత్రాల వాడుకను పాఠ్యాంశ విషయం తెలుపును.

ఇది మొదట ఇంగ్లాండులో మొదలయింది.

1) నేత పరిశ్రమ
2) ఇనుము — ఉక్కు పరిశ్రమ
3) రాష్ట్రాంతరాలు సాగడం
4) ఆకరియుక్తి
5) రవాణాలు.

1895 Sep 28న సుబ్బారు చిన్న తమ్ముడే వచ్చినారు. వీరు తల్లిదండ్రులు లింగమ్మ వీరన్న.

వీరు ఎక్కువకాలం 'కాపుపల్లి' భారతి ప్రభుత్వం 'పల్లి భూషణ్. కింద) పాఠశాలలో చదువు చెప్పినట్లు. వీరి వల్ల చుట్టూ ఉన్నవారు చాలామంది చదువు నేర్చుకున్నారు. వీరి కాలికి 'పండపెండేరం' తొడిగారు. 1951లో పరమపదించారు.

మనవడు వెంకటాద్రి సత్యనారాయణ బాబుగారు 'సరిగమ ప్రస్థానము' 'శ్రీ) భాషగారు మధురకవి' రాసినారు.

సుబ్బరాలిది పాఠశాల భూమిత్వం స్వయంపరిపాలన, రాజమండ్రిగారు ప్రవేశించిన రాజమండ్రి 1971 జూలై 24న వీరు మరణించారు.

"పదవ భాగం" అనుభవి పరిచయించి.

ఓంప్రథమే మహీపతయు నమోనమోవిశ్వ, నిరంతరం
పాఠ్యపుస్తకం ప్రారంభించాడు చు" బోధించిన 2005 Dec 16 వ
చేసాడు.

గుర్తు చేసుకోవడం :-

పద్యాన్ని చదివాడు

గ్రహణ కంఠస్థం చేయడం

సమాసం గురించి వివరించి

ఈ పాఠంలో యతి ప్రాస వివరణ కోసం

అలంకారాలకి ప్రాముఖ్యత

ఉపన్యాసం ఎగశీస వ్యాఖ్యానించడం శ్రీ గుర్తు చూశాడు.

Examples / Illustrations :
Additional inputs :
Teaching Aids used : Black Board
References cited : తెలుగు కావ్యాల పద్యాలు
Student Activity planned after the teaching
Activity planned outside the Class room, if any
Any other activity

Edu Tech

Commissionerate of Collegiate Education, A.P.,
Proforma for Teaching Plan
Name of the Department / Subject : HISTORY
Name of the Lecturer : G.V. Jayalakshmi
Course / Group : III B.A
Paper : [illegible] - CL - II
Name of the Topic : [illegible]
Hours required : 5 hours
Learning objectives : [illegible]
Previous Knowledge to be reminded [illegible]
Topics synopsis

సాధించాలనే పైలక్ష్యంతో శ్రీశ్రీ రచనలు చేసి, తెలుగుసాహిత్యాన్ని ప్రగతిపథంలోకి నడిపించిన కవి, రచయిత భీమభీమన్న. ఒకవర్గమూలాలు తెలిసి పాఠకులు ఇంటి పట్టిన కేంద్రసాహిత్యాన్ని చదువుతూ ఉండడం ఎవరికి ఇష్టం లేదు కాబట్టి, మహాకవి భీమభీమన్న, పేదరికం, ఆర్థికసమస్యలు లేకపోతే ఎటువంటి రచనలు చేసేవాడో అనే ఉద్దేశంతో ఈ రచనలు చేసాడు.

తూర్పు గోదావరి జిల్లా మండపేట గ్రామంలో 1911 లో జన్మించిన భీమన్న 1935 లో B.A, 1937 లో B.Ed పూర్తిచేసాడు. ఇతడు 70 పుస్తకాలు వ్రాసాడు. కవిత, నవల, కథ, వచన, నాటకాలు రాసాడు. భీమన్న రచించిన "పాయలపాట రాజేశ్వరి" కథలను ఆధారంగా తీసుకొని నాటకి ఉషారాణి చిత్రాన్ని నిర్మించింది.

"గోరింట పూచింది" అనే సినిమాకి కేంద్రసాహిత్య అవార్డు వచ్చింది. 2001 లో భారత ప్రభుత్వం భీమన్నకు

శాంతి ఉద్యమము, సంతకాలసేకరణము, మళ్ళీమళ్ళీ గారు చేసిన సేవ చిరస్మరణీయము.

యువభారతికి విమర్శనా రచయితగారు చాలా గ్రంథములు రచించిరి. వారి "ఉమర్ ఖయ్యాం", "నవీన వాఙ్మయము" చారిత్రక ప్రసిద్ధి పొందిన గ్రంథములు. రాయప్రోలువారు సవ్యసాచి. వారి ఉద్యమములు ఒంటరిగా పోరాడాయి కాని మళ్ళీమళ్ళీగారి శాంతి ఉద్యమానికి ప్రజల సహకారము లభించినది.

ముగింపు:— శ్రీయుత సంగిశెట్టి శ్రీనివాస్ గారు, పాలసీ దిగ్దర్శకులు, కవి, పండితులు మరియు బహుభాషాకోవిదులు. కేరళ, ఉత్తరప్రదేశ్ గవర్నరుగా పనిచేసి 1967లో మరణించారు.

పెద్ద శ్రీరామమూర్తిగారి వ్యక్తిత్వము గురించి వ్రాయండి

శ్రీరామమూర్తిగారు ఆంధ్రపత్రిక వారపత్రికకు సంపాదకులుగా 1952 నుండి 1957 వరకు పనిచేశారు. ఈయన ఎంతో సుప్రసిద్ధులు. ఈయన ఆంధ్ర విశ్వవిద్యాలయము, ప్రాచ్యకళాశాలలో విద్యార్థులకు పాఠములు చెప్పుటకు ఆహ్వానించగా 1957 May 2 న అనుమతి ఇచ్చినట్లు తెలిపారు.

బొగ్గుల రామప్పంతులు :-

బొగ్గుల రామప్పంతులు క్రీ.శ. 1899 March 19 న జన్మించెను. ఈయన ఓసులు మంచి పేరు ప్రఖ్యాతులు పొందిరి. కొందరు మహాపురుషులు పుట్టగానే పిల్లల బొగ్గులు గుమ్మలో నుండుటవల్ల మహాత్ములు, సంఘ ప్రదాయకులు మనుషులు 'బొగ్గుల' వారింటి పేరుయింది.

Examples / Illustrations :

Additional inputs :

Teaching Aids used : Black Board

References cited : తెలుగు రచయితల పుస్తకాలు

Student Activity planned after the teaching

Activity planned outside the Class room, if any

Any other activity

Signature of the Teach

Examples / Illustrations :

Additional inputs :

Teaching Aids used : Black Board

References cited : వేసవి కవుతి పాఠములు.

Student Activity planned after the teaching

Activity planned outside the Class room, if any

Any other activity

Signature

Commissionerate of Collegiate Education, A.P.,
Proforma for Teaching Plan
Name of the Department / Subject : History
Name of the Lecturer : C.V. Jayalakshmi
Course / Group : IIIB : A
Paper : CL-II (ఆధునిక భారత చరిత్ర)
Name of the Topic : శ్రీకృష్ణదేవరాయల పరిపాలన — విజయనగర సామ్రాజ్య పతనం
Hours required : 5 hours
Learning objectives : ఈ పాఠ్యాంశం ద్వారా విద్యార్థులకు ఏమి తెలియజేయాలనుకుంటున్నారు
Previous Knowledge to be reminded ముందు పాఠ్యాంశాలకు / మొత్తం కోర్సుకు సంబంధం

Topics synopsis

నిజాం నిరంకుశ పాలన — రాజ్యాంధకారమైన నిజాం ఆంధ్రుల తెలంగాణా — జై ఆంధ్ర ఉద్యమాలు, నాయీబ్రాహ్మణుల ఉద్యోగాల పోరాటం మీనవరేఖ చీరువాడ తెలుగుభాషను ఉద్ధరించడం వల్లనే ఉద్యమం ఉధృతమైంది — (శ్రీకృష్ణదేవరాయల) రాయసీమలలో తెలుగుభాషకు పట్టిన దుస్థితి ఆంధ్రులు ఏకమై సేవ చేసిన తీరు తెలుగు భాషోద్యమం తెలంగాణా ఉద్యమం నెలకొల్పడిన ఉద్యమ ఉద్యమాలు ఫలితం లభించింది.

(శ్రీ) యుద్ధాలు రాజధానులు, రాజ్యాలు, కొత్తపాలనలు, పట్టణాలు, మనుగడలు ఏర్పడ్డాయని చెప్పడం వల్ల మొత్తం ప్రపంచ చరిత్ర 1901 Sept 1st క్రైస్తవులు మొదలుపెట్టారు.

విద్యార్థి చూడవలసినది:—

ఎవరైనా చరిత్ర నూతన పద్ధతిలో మనకు కనిపిస్తుంది. ఎలాగైనా కొత్తగా ఏదో ఒకటి చెప్పడం వల్లనే ఎటువంటి సంబంధం లేదు.

Commissionerate of Collegiate Education, A.P.,

Proforma for Teaching Plan

Name of the Department / Subject : HISTORY

Name of the Lecturer : G. V. Jayalakshmi

Course / Group : III B.A CL - I భారతదేశ చరిత్ర - సాంఘిక ఆర్థిక పరిస్థితులు.

Paper : CL - I

Name of the Topic : పల్లవుల కాలంనాటి విద్యావిధానం - శాసనాలు - ఆర్థిక పరిస్థితులు.

Hours required : 5 hours

Learning objectives : వీరి పాలనా కాలంలో అభివృద్ధి పొందిన రంగాలపై అవగాహన కలిగించడం.

Previous Knowledge to be reminded వీరి గురించి గతంలో కొంత తరగతి గదిలో బోధించడం వలన పెంపొందించుకోవడం

Topics synopsis

పల్లవుల కాలం - నిర్వచనాలు :- పల్లవులకు ఒకేక్క కుండి ఒకో విధాలుగా నిర్వచనాలు ఇచ్చారు. ఓరుగల్లు కోట సొగసే వేరయ్యా ప్రకారం ప్రజలలాగు నివసిస్తున్న ప్రదేశం నుండి ఎటువంటి భయం లేకుండా సంతోషంగా సరిహద్దులు దాటి వెళ్ళకుండా గాని, కొద్ది మందిగాని మంత్రి పై ఎటువంటి ప్రాణాలనైనా నివసించే యాత్ర పల్లవులని పేర్కొంది.

వివిధ రకాల పల్లవులు :- సంధిస్థకులు (లేదా) వెలర్చి), పల్లవులకులు (ఉత్తమ), విజయదుర్గాకులు (వెళ్ళకర్షినవ్వ) ఈ 3 పేర్లు చక్కగా సరుండాయి కలిగి ఉంటాయి. ఒక పాలకుడు మరి మరొక పాలకుడిని సంధిస్థకులుగా పరిగణించబడుతుంటారు. తనకు నచ్చిన ప్రదేశాన్ని ఎంచుకుని ఆ పాలకుడు సంచరించడం చేసేవాడు పల్లవులుగా పేరొందినవాడు. విజయదుర్గాకులు వీరే లాగు నివసించిన ప్రదేశం అంటే కనీసం నాలుగైదు ప్రదేశాలను సంచరించేవాడు విజయదుర్గాకులుగా పరిగణించబడుతుంటారు.

Commissionerate of Collegiate Education, A.P.,

Proforma for Teaching Plan

Name of the Department / Subject : History

Name of the Lecturer : E.V Jayalakshmi

Course / Group : I B.A

Paper : I ప్రాచీన భారతదేశ చరిత్ర

Name of the Topic : మౌర్య సామ్రాజ్యం.

Hours required : 6 hours

Learning objectives : ఈ పాఠ్యాంశం ద్వారా విద్యార్థులకు ప్రాచీన భారతదేశ చరిత్ర గురించి అవగాహన కల్పించడం.

Previous Knowledge to be reminded : పూర్వపు తరగతులలో చదువుకున్న అంశాలను గుర్తు చేసుకోవడం.

Topics synopsis

మౌర్య సామ్రాజ్య స్థాపన :—

నంద వంశపు చివరి రాజైన ధనానందుని తుదముట్టించి చాణక్యుని సహాయంతో చంద్రగుప్తమౌర్యుడు నందసామ్రాజ్యాన్ని నిలద్రొక్కి, మౌర్యసామ్రాజ్యాన్ని స్థాపించాడు.

చంద్రగుప్తమౌర్యుని పరిపాలన :—

పరిపాలన :— రాజధానిని పాటలీపుత్రంలో, మరొక రాజధానిని తక్షశిలలో చంద్రగుప్తుడు స్థిరపరిచాడు.

కౌటిల్యుడు అనేవారు చంద్రగుప్తుడు స్థిరపరిచాడు.

మౌర్య సామ్రాజ్య పతనం, మౌర్యుల కాలంనాటి సాంఘిక, ధార్మిక, ఆర్థిక, మత పరిస్థితులు, మౌర్యుల పరిపాలనా కాలంలో విదేశాలతో సంబంధాలు.

BST శోధనలను సహాయంతో తొలగించడం, చెట్టును సమతుల్యం (బ్యాలెన్స్) చేయడం, గొప్ప తొలగించడం విధిగా అమలు చేస్తారు.

Examples / Illustrations :	
Additional inputs :	
Teaching Aids used :	Black Board
References cited :	పాఠ్య పుస్తకాలు.
Student Activity planned after the teaching	
Activity planned outside the Class room, if any	
Any other activity	

Signature of the Teacher

E. V. Jayalakshmi

Commissionerate of Collegiate Education, A.P.,

Proforma for Teaching Plan

Name of the Department / Subject : HISTORY

Name of the Lecturer : E.V. Jayalakshmi

Course / Group : III B.A (H.E.P)

Paper : III భారతదేశ చరిత్ర మరియు సంస్కృతి.

Name of the Topic : 1857 తిరుగుబాటు స్వభావం, కారణాలు, గమనం, ఫలితాలు

Hours required : 6 hours

Learning objectives : పై పాఠ్యాంశానికి విద్యార్థులకు పూర్తి అవగాహన కల్పించుట.

Previous Knowledge to be reminded మునుపటి తరగతిలో కవర్ చేసిన అంశాలకు సంబంధించిన అవగాహన కలిగించుట.

Topics synopsis

1857 తిరుగుబాటు :—

భారతదేశ చరిత్రలో 1857 తిరుగుబాటు ఒక మలుపు. ఇది బ్రిటిష్ పాలనకు వ్యతిరేకంగా జరిగిన మొదటి రాజకీయ, ఆర్థిక, సామాజిక, మత, సైనిక కారణాలు దీనికి దోహదపడ్డాయి.

ఎన్ఫీల్డ్ తుపాకులు, కొవ్వు పూసిన తూటాలు ప్రవేశపెట్టడం సిపాయిల తిరుగుబాటుకు ముఖ్య కారణం.

1857 మార్చి 29 వ తేదీన బరక్‌పూర్‌లో మంగళ్ పాండే అనే సిపాయి కొవ్వు తూటాలను ఉపయోగించడానికి నిరాకరించి బ్రిటిష్ అధికారిని కాల్చిచంపడంతో తిరుగుబాటు మొదలైంది. ఈ తిరుగుబాటు మీరట్, ఝాన్సీ, ఔధ్, రోహిల్ ఖండ్, గ్వాలియర్ మొదలైన ప్రాంతాలకు విస్తరించింది.

1857 తిరుగుబాటు ఫలితంగా భారతదేశంలో పాలనాధికారం తొలగి ఇండియా కంపెనీ చేతుల్లోంచి బ్రిటిష్ క్వీన్ చేతుల్లోకి వెళ్ళింది.

మునుపటి పాఠ్యాంశం యొక్క సారాంశం:-

1761 వ పాఠ్యాంశం యొక్క సారాంశం. ఈ పాఠ్యాంశం
మనుష్యుల భాషలు చేతల కొరకు. ఈ పాఠ్యాంశం మన
అన్నమయ్య కథలు అనే పుస్తకం నుండి ఎంచుకోబడింది. ఇది ఒక
చిన్న కథ ప్రతి ఒక్కరు చదవవలసిన ఈ పాఠ్యాంశమును చెప్పుకోవడం

Examples / Illustrations :

Additional inputs :

Teaching Aids used : Black Board ,

References cited : తెలుగు రెండవ పుస్తకాలు

Student Activity planned after the teaching

Activity planned outside the Class room, if any

Any other activity

G. V. Jayalakshmi
Signature of the Teach

Commissionerate of Collegiate Education, A.P.,
Proforma for Teaching Plan
Name of the Department / Subject : HISTORY
Name of the Lecturer : C. V. Jayalakshmi
Course / Group : II B.A
Paper : III భారతదేశ చరిత్ర) మరియు సంస్కృతి
Name of the Topic : మహిళా సంఘాల విశ్లేషణ
Hours required : 6 hours
Learning objectives : ఈ పాఠ్యాంశం వల్ల విద్యార్థినులు ఏ ఉద్దేశాలను కలిగివుంటారు.
Previous Knowledge to be reminded మీరు ఇప్పటి వరకు చదివిన కొన్ని మహిళా సంఘాల గురించి మనము తెలుసుకుందాము

Topics synopsis

మహిళా సంఘాల విశ్లేషణ :—

17, 18 శతాబ్దాలలో భారత దేశ చరిత్రలో మహిళా సంఘాలు కొన్ని ఏర్పడినవి.

మహిళా ఉద్యమం, మహిళా సంఘాల కార్యకలాపాలు, సాంఘిక, మత, సాంస్కృతిక రంగాలు, దక్షిణ భారత సంస్థలు పాత్ర, ఇంగ్లాండ్ సామ్రాజ్యవాదం, తిరుగు సాయుధపోరాటం మహిళా సంఘాల విశ్లేషణకు దోహదపడ్డాయి.

తిరుగు - సైనిక దాడులు - సంస్థాపన

తిరుగు రకాలు మహిళా ఉద్యమాలు - బాలాదేవ్ వ్యాపార - బొంబాయి — బాలా బాలాంబా, — మహిళా సంఘాలు ఉన్నాయి.

Commissionerate of Collegiate Education, A.P.,
Proforma for Teaching Plan
Name of the Department / Subject : HISTORY
Name of the Lecturer : E. V. Jayalakshmi
Course / Group : IB. A
Paper : I ఛారిటబిక్ చరిత్ర - సంస్కృతి
Name of the Topic : ఛారిటబిక్ చరిత్ర రచనకు మీథాలు - చరిత్రపై బౌద్ధ పరిజ్ఞాన ప్రభావం
Hours required : 6 hours
Learning objectives : ఈ పాఠ్యాంశంపై విద్యార్థులకు పూర్తి అవగాహనను కల్పించడం.
Previous Knowledge to be reminded ముందున్న తరగతులకంటే మరింత కఠినమైనదేమీ కాదు

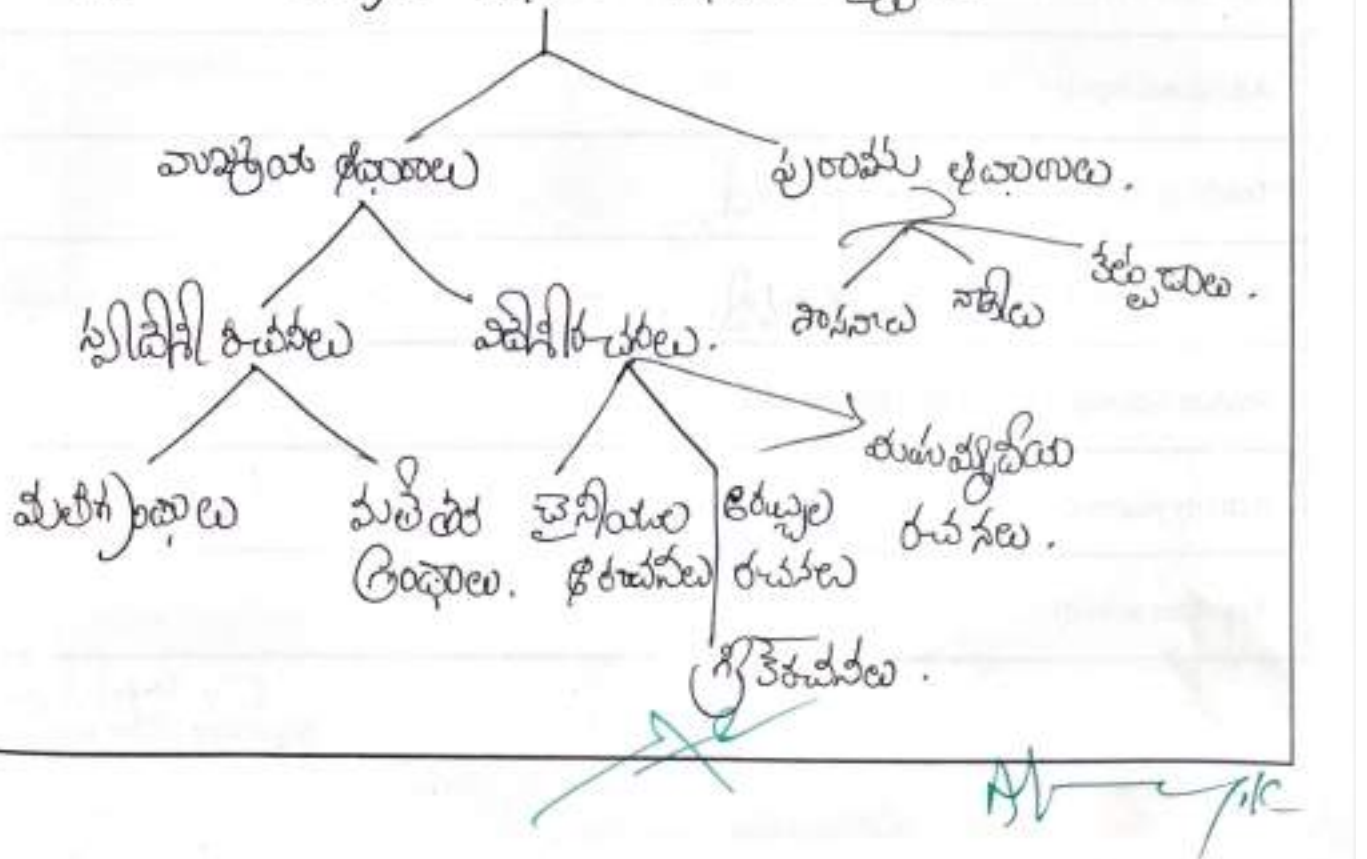
Topics synopsis

1)

చరిత్ర రచనకు, రచనలు, మీథాలు.

ఏ దేశపు చరిత్రనైనను పునర్నిర్మించవలసినప్పుడు దానికి తగిన మీథాలు ఉండవలెను. అట్టి మీథాలు లేనియెడల చరిత్రను పునర్నిర్మించడం దుర్లభం అవ్వగలదు.

ప్రాచీన భారతదేశ చరిత్రను నిర్మించడానికి తగిన మీథాలను క్రింది విధంగా విభజించుకొన్నాను.



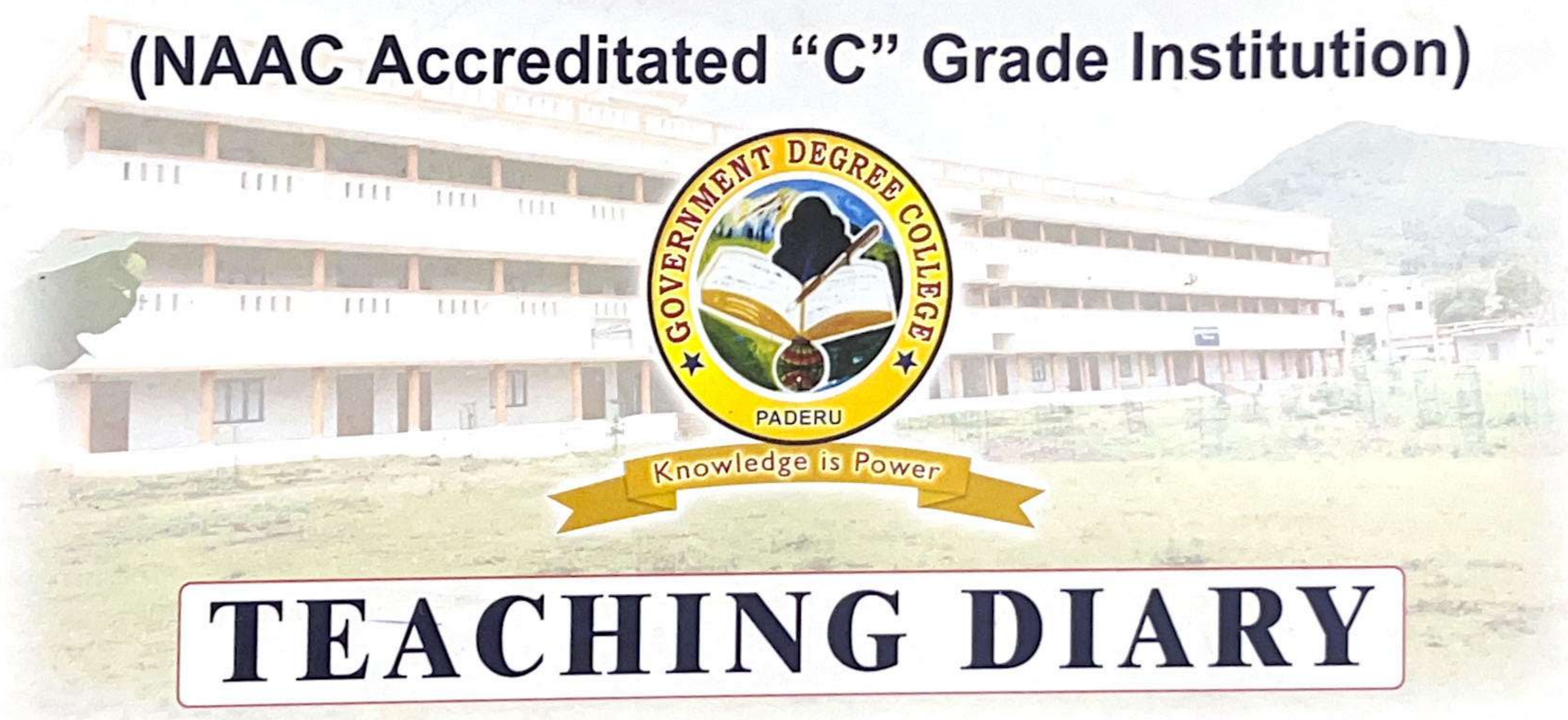
COMMISSIONERATE OF COLLEGIATE EDUCATION, GOVT. OF ANDHRA PRADESH

GOVT. DEGREE COLLEGE

PADERU - 531024.

ALLURI SITHARAMA RAJU (DT.)

(NAAC Accreditated "C" Grade Institution)



TEACHING DIARY

Name of the Department / Subject : Mathematics

Name of the Lecturer : B. Vineela

Academic Year : 2022-23

GOVT. DEGREE & P.G. COLLEGE, PADERU, ALLURI SITHARAMA RAJU-DIST-531024.

(NAAC Reaccredited C Grade Institution)

TEACHING DIARY

S. No.	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No. of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
1	1/1/23		←	→	SUNDAY		←					
2	2/1/23	Mon	II B.Sc	1st	English	Theory	Fundamental theorem of Homomorphism					
			III B.Sc	2nd	"	"	Lagrange's theorem					
			III B.Sc	3rd	"	"	Excersize problems on Lagrange's theorem					
			II B.Sc	5th, 6th	"	pract	Conducting Seminar					
3	3/1/23	Tue	II B.Sc	1st	English	Theory	Second Isomorphism theorem					
			III B.Sc	2nd	"	"	Gama functions					
			III B.Sc	3rd	"	"	problems on Lagrange's theorem					
			III B.Sc	5th, 6th	"	prac	Integrations and Assaignment conducted					
4	4/1/23	wed	II B.Sc	1st	English	Theory	Cycles and Orbits of a permutation group					
			I B.Sc	2nd	"	"	particular Integral					
			II B.Sc	3rd	"	"	Numerical Differentiation					
			II B.Sc	4th	"	"	LSC-1 - Calender problems					

Signature of the Lecturer

Signature of the Department I/C

V. R

Signature of the Principal

DIST-531024

GOVT. DEGREE & P.G. COLLEGE, PADERU, ALLURI SITHARAMA RAJU-DIST-531024.

(NAAC Reaccredited C Grade Institution)

June-23

TEACHING DIARY

S. No.	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No. of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
1	10/6/23	~~Thu~~	TO	10/6/23			TOT at GDC(W) Vishakapatnam.					
2	11/6/23		→	SUNDAY			←					
3	12/6/23	MON	IIB.Sc	2nd	English	Theory						
			IB.Sc	3rd	"	"						
	13/6/23	Tue	IIB.Sc	2nd	English	Theory						
			IB.Sc	3rd	"	"						
	14/6/23	Wed	IIB.Sc	2nd	English	Theory						
			IB.Sc	3rd	"	"						
	15/6/23	Thu	IIB.Sc	2nd	English	Theory						
			IB.Sc	3rd	"	"						

Signature of the Principal

Head of the Department I/C

GOVT. DEGREE & P.G. COLLEGE, PADERU, ALLURI SITHARAMA RAJU-DIST-531024.

(NAAC Reaccredited C Grade Institution)

TEACHING DIARY

S. No.	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No. of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
	1/8/23	Tue	II B.Sc	3rd	Englis	Theory						
			I B.Sc	4th	"	"	→ CASUAL LEAVE ←					
			II B.Sc	5th, 6th	"	practl						
	2/8/23	wed	II B.Sc	2nd	Englis	Theory	Existence of basis extention theorem					
			II B.Sc	3rd	"	"	Finite dimensional vectol space.					
	3/8/23	Thu	→ Clakes Suspend Due state Manyam Bandh ←									
	4/8/23	Fri	→ Farewell day function ←									
	5/8/23	Sat	II B.Sc	2nd	Englis	Theory	Invariance theorem					
			I B.Sc	3rd	"	"	Center and radius of sphere					
	6/8/23		→ SUNDAY ←									

B. [signature]
Signature of the Lecturer

Signature of the Department I/C

V. [signature]
Signature of the Principal

COMMISSIONERATE OF COLLEGIATE EDUCATION, GOVT. OF ANDHRA PRADESH

GOVT. DEGREE COLLEGE

PADERU-531024.
VISAKHAPATNAM DIST.
(NAAC Accredited C Grade Institution)



TECAHING DIARY

Name of the Department/Subject : MATHEMATICS
Name of the Lecturer : B. Vineela
Academic Year : 2021-22

GOVT.DEGREE & P.G.COLLEGE, PADERU,VISAKHAPATNAM-DIST-531024.

(NAAC Reaccredited C Grade Institution)

TEACHING DIARY

S.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
			II B.Sc	2nd	English	Theory	Lagrange's theorm					
			III B.Sc	3rd	"	"	Newton forward Interpolation formula					
			I B.Sc	5th,6th	"	practical	Cauchy Euler Equation					
	8/3/22	Tue	I B.Sc	1st	English	Theory	problems on Cauchy Euler Equation.					
			II B.Sc	2nd	"	"	Revision of Subgroups					
			III B.Sc	3rd	"	"	Women's day Celebrations					
			II B.Sc	5th,6th	"	pract	Cosets theorems, Assaignment-2	Conducted			Assaignment-2 Conducted	
	9/3/22	Wed	I B.Sc	1st	English	Theory	Mid Exam Conducted					
			II B.Sc	2nd	"	"	Normalizer of the Group					
			III B.Sc	3rd	"	"	Newton Backward Interpolation formula.					
			III B.Sc	5th,6th	"	Pract	Mid Exam Duty.					
	10/3/22	Thu	III B.Sc	1st	English	Theory	Bool's ~~difference~~ formula					
			I B.Sc	2nd	"	"	Theorms on Normal Subgroups					
			III B.Sc	5th,6th	"	Pract	Newton Backward differential problems.				Assaignment-4 Conducted	

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GOVT.DEGREE & P.G.COLLEGE, PADERU, VISAKHAPATNAM-DIST-531024.

(NAAC Reaccredited C Grade Institution)

TEACHING DIARY

S.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
			Clutter-I	3rd	Engly	Theory	Cramer's Method					
			Clutter-II	5th, 6th	"	Pract	problems on Matrix Inversion method					
	25/3	Fri	—	Clutter - I		Practical	Conducted ——					
	26/3	Sat	—	Clutter - II		Practical	Conducted ——					
	28/3	Mon	I B.Sc	1st	Engl	Theory	Revision of D.E					
			II B.Sc	2nd		→	MID Exam Conducted ←					
			III B.Sc	3rd		→	MID Exam Conducted ←					
	29/3	Tue	I B.Sc	1st	engl	Theory	Legender's Differential Equation					
			II B.Sc	2nd		→	MID Exam Conducted ←					
			III B.Sc	3rd		→	Bessel's Differential Equations					
	30/3	Wed	I B.Sc	1st	Eng	Theory	Revision of Exact Differential Equations					
			II B.Sc	2nd		→	MID Exam Conducted ←					

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1 Bsc MPC

GOVT. DEGREE COLLEGE

PADERU-531024.
VISAKHAPATNAM DIST.
(NAAC Accredited C Grade Institution)



TECAHING DIARY

Name of the Department/Subject : CHEMISTRY
Name of the Lecturer : P. VIJAYA LAKSHMI
Academic Year : 2020-21

GOVT.DEGREE & P.G.COLLEGE, PADERU, VISAKHAPATNAM-DIST-531024.

(NAAC Reaccredited C Grade Institution)

TEACHING DIARY

OCTOBER

.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
	20/10/21	Wed					Joining	-	-	-	-	
	21/10/21	Thu	III CBZ	10-11	Tel & Eng	T	Introduction to Coordination Compds	Lecture	27	Blackboard		
		Fri	I CBZ	12-1	Tel & Eng	T	Introduction to carbon-carbon Sigma Bonds	Lecture	21	Board	Q&A	
			~~III CBZ~~	~~2-5~~	~~Tel & Eng~~							
	22/10/21	Fri	III CBZ	10-11	Tel & Eng	T	Types of ligands	Lecture	25	Board	Q&A	
			I CBZ	12-1	Tel & Eng	T	classification of Hydrocarbons and IUPAC Naming of Alkanes	Lecture	24	Board	Practice	
	23/10/21	Sat	III CBZ	10-11	Tel & Eng	T	Calculation of ax^n Numbers	Lecture	26			
			~~I CBZ~~	~~Work~~								
	25/10/21	Mon	III CBZ	10-11	Tel & Eng	T	IUPAC nomenclature					
			I CBZ	12-1	Tel & Eng	T	Methods of Preparation of Alkanes	Lecture	20	Board		
			III CBZ	3-5	Tel & Eng		Werner's Theory	L & D	27	chart	Practice	
	26/10/21	Tue	III CBZ	10-11	T & E	T	Sidgwick's Theory	Lecture	25	Board		
			I CBZ	12-1	T & E	T	Physical & chemical properties of Alkanes					
			I CBZ	3-5	T & E		Seminar by Students	Lecture	22	Board	Seminar	
	27/10/21	Wed	III CBZ	10-11	T & E	T	VBT	Lec cum Demo	26	Digital Lab		
			I CBZ	12-1	T & E	T	chemical properties of Alkanes	Lecture & Demo	21	Board	practice	

P. Vijaya Lakshmi

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eaching ds Used	Student Activity Conducted	Remar
	project	
	Quiz	
	exibition	

GOVT.DEGREE & P.G.COLLEGE, PADERU,VISAKHAPATNAM-DIST-531024.

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TEACHING DIARY

S.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
	24/11/23	Fri	III CBZ	II	Eng	T	characteristics of Water	Lecture	23	-		
			III Seed	III	"	"	Water pollution - characteristics of water	"	16			
			III MPC	IV	"	"	"	"	25			
			Che. Hon	V	"	"	classification of carbohydrates	-	28		Assignment	
			III MPC	VI	"	P	Internship Evaluation	Demonstration	27			
			"	VII	"	P	"	"	"			
	25/11/23	Sat	II CBZ	II	Eng	T	Green House effect, Acid Rain, Photochem Smog	22			Assignment	
			III Seed	III	"	"	"	17				
			III MPC	IV	"	"	"	25				
			BSc. Hon	V	"	"	Essentials of chemistry - Path	24	Lecture			
	28/11/23	Tue	II CBZ	I			MID-1 Examinations	-	-	-	-	
	29/11/23	Wed					"	-	-	-	-	
	30/11/23	Thu					"	-	-	-	-	

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GOVT. DEGREE COLLEGE

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(NAAC Accredited C Grade Institution)

TECAHING DIARY

Name of the Department/Subject : COMMERCE
Name of the Lecturer : CH. ATCHUTHA RAO
Academic Year : 2021 - 2022

TEACHING DIARY

S.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
1	01-10-21	FRI	CG	2nd	Telugu	Theory	introduction To Syllabus.	Lecture method		black board		
			CB	4TH			introduction To Syllabus.					
2	02-10-21						GANDHI JAYANTHI					
3	03-10-21						SUNDAY					
4	04-10-21	MON	FA-II	1st	Telugu	Theory	problems explained	Lecture method		black board		
			CG	2nd	"	"	introduction To earth.	"		"		
5	05-10-21	TUE	FA-II	1st	"	"	Machine Sales problems explained	"		"		
			CG	2nd	"	"	internal structure of the earth.	"		"		
			CB	5TH	"	"	Evolution and Function of Central bank	"		"		
6	06-10-21	WED	FA-II	1st	"	"	Machine Sales problems explained	"		"		
			CG	2nd	"	"	about earth explain	"		"		
			CB	5TH	"	"	Central bank functions	"		"		
7	07-10-21	THU	FA-II	1st	"	"	problems explained	"		"		
			CG	2nd	"	"	Latitude explain	"		"		
			CB	5TH	"	"	Central bank Activities.	"		"		
8	08-10-21	FRI	CG	2nd	"	"	Longitude explain	"		"		
			CB	5TH	"	"	Central bank Structure	"		"		

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g ed	Student Activity Conducted	Remarks
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	Seminary	

ncipal

GOVT.DEGREE & P.G.COLLEGE, PADERU,VISAKHAPATNAM-DIST-531024.

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TEACHING DIARY

S.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
28	28-02-23	TUE	AA	1st	Eng	Theory	problems explained	Lecture Method	AA	black board		
		"	BSF	2nd	"	"	problems explained	" "	MD	"		
		"	ACA	3rd	"	"	Amalgamation problems	" "	ASA	"		
		"	DM	4th	"	"	Trends in Digital Marketing	" "	MD	"		
		"	AA	5th	"	"	problems explained	" "	MS	"		
		"						" "				
		"						" "	AA			
		"						" "	MD			
		"						" "	ASA			
		"						" "	MD			
		"						" "	MS			
		"						" "	MD			
		"						" "	MS			
		"						" "	MD			
		"						" "	MS			

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TEACHING DIARY

S.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
29	29-07-21	WED	AA	1st	Eng	Theory	problems explained	Lecture Method		Black board		
			BOM	2nd	"	"	company Features	"		"	Seminar	
			BST	4TH	"	"	problems explained.	"		"		
30	30-07-21						SRIRAMA NAVAMI					
31	31-07-21						STRIKE					

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GOVT.DEGREE COLLEGE

PADERU

TEACHING DIARY

Commissionerate of Collegiate Education, A.P.,

Proforma for Teaching Diary :

Name of the Department / Subject : Commerce

Name of the Lecturer : Ch. Atchutha Rao

S.No.	Date	Day	Class	Period Time	Medium	Theory/ Practical	Topic covered	Methodology Adopted	No. of Students attended	Teaching Aids used	Student Activity Conducted	Remarks
1	01-10-18	MON	GST	1st	Telugu	Theory	brief note on How To Determine time of supply of Goods & Service	Lecture Method		black board		
2			BO/ BOM	2nd	"	"	Memorandum of Association explain	"		"		
3			CA	5th	"	"	Solution of Story problems explained	"		"		
4	02-10-18	TUE					GANDHI JAYANTHI					
5	03-10-18	WED	GST	1st	Telugu	Theory	Description as To How Value of Supply Shall be determined under GST	Lecture method		black board		
6			BO/ BOM	2nd	"	"	articles of Association explained	"		"		
7			CB	4th	"	"	Major aspects of liberalisation in India	"		"		
8			CA	5th	"	"	Re-issue of bonus shares explained	"		"		
9	04-10-18	THU	GST	1st	"	"	Determination of value in Respect of Special Situations	"		"		
10			BO/ BOM	2nd	"	"	Social Responsibility of business	"		"		

Ch. Atchutha Rao
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Commissionerate of Collegiate Education, A.P.,

Proforma for Teaching Diary :

Name of the Department / Subject : Commerce

Name of the Lecturer : Ch. Atchutha Rao

S.No.	Date	Day	Class	Period Time	Medium	Theory/ Practical	Topic covered	Methodology Adopted	No. of Students attended	Teaching Aids used	Student Activity Conducted	Remarks
1	15-10-18	MON	GST	1st	Telugu	Theory	Input Tax Credit by a Registred Person	Lecture Method		Black board		
2			BO/ BOM	2nd	"	"	Syllabus Revision	"		"		
3			CA	5th	"	"	Syllabus Revision	"		"		
4	16-10-18	TUE	GST	1st	"	"	Ticket booking Services by an air Travel Agent	"		"		
5			BO/ BOM	2nd	"	"	Syllabus Revision	"		"		
6			CA	5th	"	"	Syllabus Revision	"		"		
7	18-10-18	TO	21-10-18				DUSSEHRA HOLIDAYS					
8	22-10-18						EXAM DUTY					
9	23-10-18						EXAM INVIGILATION DUTY					
10	24-10-18						EXAM INVIGILATION					

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Commissionerate of Collegiate Education, A.P.,

Proforma for Teaching Diary :

Name of the Department / Subject : Commerce

Name of the Lecturer : Ch. Atchutha Rao

S.No.	Date	Day	Class	Period Time	Medium	Theory/ Practical	Topic covered	Methodology Adopted	No. of Students attended	Teaching Aids used	Student Activity Conducted	Remarks
1	19-12-18	WED	AUDIT	1st	Telugu	Theory	Difference between Annual Audit & General Audit	Lecture Method		Black Board		
2			B.ENV	2nd	"	"	economic development meaning	"		"		
3			FS	4th	"	"	Explain commercial papers	"		"		
4			ASO	5th	"	"	electricity problems explained	"		"		
5			BTP	6th	"	"	indigenous banking	"		"		
6	20-12-18	THU	AUDIT	1st	"	"	Explain about cost Audit characteristics	"		"		
7			B.ENV	2nd	"	"	types of plans explained	"		"		
8			FS	4th	"	"	what is leasing Hire purchase	"		"		
9			ASO	5th	"	"	electricity problems explained	"		"		
10			BTP	6th	"	"	co-operative banking RRB's	"		"		

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Commissionerate of Collegiate Education, A.P.,

Proforma for Teaching Diary :

Name of the Department / Subject : Commerce

Name of the Lecturer : Sri. Atluri Rao

S.No.	Date	Day	Class	Period Time	Medium	Theory/ Practical	Topic covered	Methodology Adopted	No. of Students attended	Teaching Aids used	Student Activity Conducted	Remarks
1			BTP	6TH	Telugu	Theory	customer and banker Relationship	Lecture Method		Black board		
2	6-1-19						SUNDAY					
3	07-1-19	MON	AUDIT	1ST	"	"	Vouching & investigation explain	"	"	"		
4			B-ENVI	2nd	"	"	time year plans explained	"	"	"		
5			ASO	5TH	"	"	problems explained	"	"	"		
6	08-1-2019	TO		10-1-2019			2nd, 4TH, 6TH Semester MID-I EXAMS					
7	11-1-19	FRI	AUDIT	1ST	TELUGU	Theory	cash book vouching explain	Lecture Method		Black board		
8			B-ENVI	2nd	"	"	time year plans explained	"	"	"		
9			FS	4TH	"	"	credit Rating Symbols explained	"	"	"		
10			ASO	5TH	"	"	bank Accounts problems explained	"	"	"		

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Commissionerate of Collegiate Education, A.P.,

Proforma for Teaching Diary :

Name of the Department / Subject : Commerce

Name of the Lecturer : Sri. Atchutha Rao

S.No.	Date	Day	Class	Period Time	Medium	Theory/ Practical	Topic covered	Methodology Adopted	No. of Students attended	Teaching Aids used	Student Activity Conducted	Remarks
1	30-1-19	WED	AUDIT	1st	Telugu	theory	Characters of Auditor	Lecture Method		black board		
2			D-ENVI	2nd	"	"	New industrial Policy explain	"		"		
3			FS	4th	"	"	Explain About CARE	"		"		
4			ASD	5th	"	"	Bonus Allowns Problems explained	"		"		
5			BTP	6th	"	"	KYC NORMS	"		"		
6	31-1-19	THU	AUDIT	1st	"	"	Qualifications of Auditor	"		"		
7			B-ENVI	2nd	"	"	Competition Law explained	"		"		
8			FS	4th	"	"	Mutual funds explained	"		"		
9			ASD	5th	"	"	insurance theory explained	"		"		
10			BTP	6th	"	"	Collecting Banker	"		"		

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Proforma for Teaching Diary :

Name of the Department / Subject : Commerce

Name of the Lecturer : Ch. Athugna Rao

No.	Date	Day	Class	Period Time	Medium	Theory/ Practical	Topic covered	Methodology Adopted	No. of Students attended	Teaching Aids used	Student Activity Conducted	Remarks
1			B.E	3rd	Telugu	Theory	Overview of business environment	Lecture Method		Black board		
2	23-11-19	SAT	Audit	1st	"	"	Audit of clubs explain	"		"		
3			ASD	2nd	"	"	problems explained	"		"		
4			B.E	3rd	"	"	business environment explain	"		"		
5	24-11-19						SUNDAY					
6	25-11-19	MON	Audit	1st	"	"	Audit of charitable Trusts explain	"		"		
7			FS	2nd	"	"	Duties of Merchant bankers	"		"		
8			ASD	3rd	"	"	electricity supply companies Theory explained	"		"		
9			DE	4th	"	"	environment - Meaning	"		"		
10	26-11-19	TUE	Audit	1st	"	"	Types of Audit explain	"		"		

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GOVT.DEGREE & P.G.COLLEGE, PADERU, VISAKHAPATNAM-DIST-531

(NAAC Reaccredited C Grade Institution)

TEACHING DIARY

S.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used
	21/10/23	Sat	II BSc	II	Eng	T	preparation of phenols	Lecture	29	Board
			II CBZ	V			Interaction of radiation with matter, Modes of Vibr		41	
	22/10/23 To 28/10/23	}					Dussehra Vacation			
	30/10/23	Mon	I BSc	I	Eng	T	Definition, Significance & Branches of chemistry	Lecture	26	Board
			II BSc	II	Eng	T	properties of phenols	Lecture	31	
	8		III BSc	III	Eng	T				
	31/10/23	Tue	-	-	-	-	Leave Availed.	-	-	-

P. Vijaya Lakshmi

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(NAAC Reaccredited C Grade Institution)

TEACHING DIARY

Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
26/2/22	Wed	P-II	11-12	Eng	T	Longmire Adaptation Test Term		35		Assignment	
		P-V	2-3	Eng	T	VBT		31		4	
27/2/23	Thu					← Leave Availed —					
28/2/23	Fri					— Leave Availed —					
29/2/23	Sat					← Moharram —					
31/2/23	Mon	P-IV	11-12	Eng	T	preparation of Amino Acids	Lect.	29	ICT		
		P-II	3-4	Eng	P	M.O Theory	Lec Tun Demo	35			
			4-5	Eng	P	M.O Energy diagrams	4	35			

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(NAAC Reaccredited C Grade Institution)

TEACHING DIARY

Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
26/8/22	Fri	IV CBZM	7			class leave suspend due to death of 3 students by accident	—	—	—		
		IV CBZ PS					"	"	"		
27/8/22	Sat	IV CBZM				Academic Audit conducted	—				
		IV CBZ PS				"	"				
		IV CBZ PS				Conductometric titration HCl vs NaOH	practical	19			
		IV CBZ PS				"	"	19			
29/8/22	Mon	IV CBZ PS				Reactions of Organic functional gps	Lecture	24			
		II MPC				Friedel Craft - alkylation and acylation	Lecture	28			
30/8/22	—	—	—	—	—	C.L availed	—	—	—		
31/8/22						Vinayaka Chavithi	—	—	—		

P. Vijaya Lakshmi

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GOVT.DEGREE & P.G.COLLEGE, PADERU,VISAKHAPATNAM-DIST-531024.

(NAAC Reaccredited C Grade Institution)

TEACHING DIARY

No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
	27/6/22	Mon	IV CBZ	II	T&E	T	Election count of mono cyclic O.M.C	Lec & Demo	17	Board		
			II MPC	III	Eng	T	Alkanes - Introduction	Lecture	26			
	28/6/22	Tue	IV CBZ	II	T&E	T	Applns of Aromatic compounds	Lecture	19			
			II MPC	III	Eng	T	prep" of alkanes	Reaction	25			
			II BCST	V	Eng	P	Introduction to C-C single bond	Lecture	17			
			II BCST	VI	Eng	P	"	"	"	"		
	29/6/22	Wed	IV CBZ-PS	II	T&E	T	Werner's Theory	Lec & Demo	21			
			II MPC	III	Eng	T	properties of alkanes	Reaction	27			
			IV CBZ-PY	V	T&E	P	Introduction to carbohydrates	Lecture	15			
			"	VI	T&E	P	"	"	"			
	30/6/22	Thu	IV CBZ	II	T&E	T						
			II MPC	III	ZBG	T	conformational Analysis					
			II MPC	V	Eng	P	Estimation of carbonate & bicarbonate	practical	26			
			II MPC	VI	Eng	P	"	"	"			

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(NAAC Reaccredited C Grade Institution)

TEACHING DIARY

.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
	19/04/22	Tue	II CBZ	III	T&E	T	AU Exam Invigilation					
	20/4/22	Wed	II CBZ	III	T&E	T	NMR – Spectroscopy – Principle, chemical shift					
				V		P	AU Exam Invigilation					
				VI		P	AU Exam Invigilation					
	21/4/22	Thu	II CBZ	III	T&E	T	AU Exam Invigilation					
	25/4/22	Mon	II CBZ	III	T&E	T	AU Exam Invigilation					
	26/4/22	Tue	II CBZ	III	T&E	T	AU Exam Invigilation					
	27/4/22	Wed	II CBZ	II	T&E	T	Revision – Preparation of Alkyl Halides					
						P	AU Exam Invigilation					
						P	AU Exam Invigilation					
	28/4/22	Thu	II CBZ	IV	T&E	T	Revision – S_N1, S_N2 Reactions	Lecture	27			

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GOVT.DEGREE & P.G.COLLEGE, PADERU, VISAKHAPATNAM DIST-531024

(NAAC Reaccredited C Grade Institution)

TEACHING DIARY

S.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted
	1/2/22	Tue	VI CBZ	I	T&E	T	Layers of atmosphere	Lecture	25	Board	-
			I CBZ	IV	Eng	T	Lauthanide contraction	Lecture	23		
			I CBZ	V	Eng	P	Notes given	-	23		
			I CBZ	VI	Eng	P	Student Seminar -	-	23	Board	Seminar
	2/2/22	Wed	VI CBZ	I	T&E	T	Air pollution - classification & pollutants	L & D	09	projector	
			VI CBZ	IV	T&E	T	Sources of air pollution	Lecture	09		
	3/2/22	Thu	VI CBZ C-1	I	T&E	T	NMR - nuclear spine & principle	L & D	10		
			C-3	II	T&E	T	pharmacy, pharmacology &	Lecture	10	-	
			I CBZ	IV	Eng	T	Assignment on Lauthanide contraction	-	32	-	Assignment
			C-1	IV	T&E	T	precisional frequency	L & D	10		
			C-1	V	T&E	P	preparation of Aspirine	Demon	10		
			C-1	VI	T&E	P	observation	do	10		
	4/2/22	Fri	C-1 VI CBZ	I	T&E	T	Binding Energy of nuclei	Demonstration	9		
			C-III VI CBZ	II	T&E	T	Drugs - History, definitions & characteristics	Lecture	?	ICT	

14/4/2023.

P. Vijaya Lakshmi
Signature of the Lecturer

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Signature of the Principal

GOVT.DEGREE & P.G.COLLEGE, PADERU, VISAKHAPATNAM-DIST-531024.

(NAAC Reaccredited C Grade Institution)

TEACHING DIARY

Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
1/11/21	Mon	III CBZ	10-11	Tel & Eng	T	CPSE Calculations	Problem Solving	25	Board	Calculations	
		I CBZ	12-1	Tel & Eng	T	Conformational Analysis of Alkanes	Lec & Demo	47	Atomic models	Q & A	
		III CBZ	3-5	Tel & Eng		Assignment					
2/11/21	Tue	III CBZ	I	Tel & Eng	T	Preparation of nitro hydrocarbons	Lecture	24	Board		
		I CBZ	III	Tel & Eng	T	preparation of Alkenes	Lecture	21	Board		
		I CBZ	V & VI	Tel & Eng	P	observation on preparation of Standard H_2SO_4, SO^{-}	Demonstr	20	Physical Bal		
3/11/21	Wed	III CBZ	I	Tel & Eng	T	properties of aliphatic nitro compds	Lecture	28			
		I CBZ	III	Tel & Eng	T	Elimination Reactions	Lecture	26			
		III CBZ	V & VI	Tel & Eng	P	preparation of nitrobenzene	Lecture	26			
4/11/21	Thu	—	—	—	—	Deewali	—	—	—	—	
5/11/21	Fri	III CBZ	I	Tel & Eng	T	properties of nitro benzene	Lecture	22	Board		
6/11/21	Sat	III CBZ	I	Tel & Eng	T	Types of diff systems	L & D	27	Board		
8/11/21	Mon	III CBZ	I	Tel & Eng	T	Diff types of reactions	Lecture	28	Board		
		I CBZ	III	Tel & Eng	T	properties of Alkenes	Lecture	24			

P Vijaya Lakshmi

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GOVT.DEGREE & P.G.COLLEGE, PADERU,

(NAAC Reaccredited C Grade Institution)

TEACHING DIARY FEBRUARY - 2022

S.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted
	26/2/22	SAT	II BA HEP	2nd 11 To 12-	Tel	Thy	EQUITY & EFFICIENCY ASSIGNMENT-1	LECTURE	50/71	CHALK Black board	
			I BA HEP	4th 2 to 3	"	"	Theory of Production: Laws of Variable Proportions	"	50/60	"	
			III BA HEP	5th 3 To 4	"	"	PAPER: cluster: Agricultural environment in AP	"	22/26	"	
	27/2/22	SUN	—	—	—	—	— SUNDAY —				
	28/2/22	MON	III BA HEP	1st 10 To 11	"	"	PAPER 7: proportional taxation / non-tax Revenue	"	50/69	"	
				12 AM TO 2 PM	—	—	Participated in NATIONAL SCIENCE DAY'	—	—	—	—

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SEM, I, SEM-3, SEM-6

GOVT.DEGREE & P.G.COLLEGE, PADERU, VISAKHAPATNAM-DIST-531024.

(NAAC Reaccredited C Grade Institution) JANUARY-2022

TEACHING DIARY

o	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
	27/1/22	THU	III BA HEP	1st 10 TO 11	Tel	Theory	PAPER-V(E) = PUBLIC FINANCE	LECTURE	30/58	Chalk and Blackboard	—	—
			I BA HEP	4th 2nd 3rd 1st	"	"	MICRO ECONOMICS	"	32/55	"	—	—
			II BA HEP	4th 2 & 3	"	"	PAPER 5-A Agri business	"	10/20	"	—	—
			III BA HEP	5th 3 & 4	"	"	PAPER-5-A Agri business	"	10/20	"	—	—
			III BA HEP	6th 4 & 5	"	"	PAPER-5A - Agri business	"	10/20	"	—	—
	28/1/22	FRI	III BA HEP	1st 10 TO 11	"	"	PAPER-7F - public Finance	"	30/58	"	—	—
			I BA HEP	4th 2 & 3	"	"	MICRO ECONOMICS - Methods	"	30/58	"	—	—
			III BA HEP	5th 3 & 4	"	"	PAPER-6A - Agri business	"	10/20	"	—	—
			III BA HEP	6th 4 & 5	"	"	PAPER-5A - Agri business	"	10/20	"	—	—
	29/1/22	SAT	I BA HEP	4th 2 & 3	"	"	MICRO ECONOMIC Analysis	"	30/58	"	—	—
	30/1/22	SUN					SUNDAY					
	31/1/22	MON	II BA HEP	1st 10 & 11	"	"	PAPER-7 - PUBLIC FINANCE	"	30/58	"	—	—
			III BA HEP	4th 2 & 3	"	"	PAPER5 - cluster - Agri business Environment in AP	"	15/20	"	—	—
							ASSIGNMENT-2					

Signature of the Lecturer

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SEM 1, SEM 3, SEM -5

GOVT.DEGREE & P.G.COLLEGE, PADERU, VISAKHAPATNAM-DIST-5310

(NAAC Reaccredited C Grade Institution)

TEACHING DIARY APRIL - 2022

S.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted
	17/4/22	SUN					SUNDAY				
	18/4/22	MON					No classes and EXAM DUTY SEM1, SEM-6				
	19/4/22	TUE	II BA HEP	2nd 11TO12	TOJ	Thy	Foreign Trade	Lecture	51/71	Chalk Board	
	20/4/22	WED	II BA HEP	2nd 11T012	"	"	Foreign Direct Investment	"	51/71	"	
		WED					SEM1, SEM6 EXAMS DUTY				
	21/4/22	THU	II BA HEP	2nd 11To12	"	"	FIIs	"	51/71	"	
		THU					Involved in SEM-1, SEM-6 EXAMS				
	22/4/22	FRI	II BA HEP	2nd 11To12	"	"	ADB	"	50/71	"	
		FRI					Involved in SEM1, SEM-6 EXAMS				
	23/4/22	SAT	II BA HEP	2nd 11To12	"	"	ADB	"	51/71	"	
		SAT					Involved in SEM-1, SEM-6 EXAMS				
	24/4/22	SUN					SUNDAY				
	25/4/22	MON					NO classes				
		MON					Involved in SEM-1, SEM-6 exam				
	26/4/22	TUE	II BA HEP	2nd 11TO12	"	"	FDI	"	51/71	"	
	27/4/22	WED	II BA HEP	2nd 11TO12	"	"	FO Foreign Portfolio Investment	"	51/71	"	
	28/4/22	THU	II BA HEP	2nd 11TO12	"	"	Foreign trade	"	51/71	"	
	29/4/22	FRI	II BA HEP	2nd 11To12	"	"	Economic planning / Role of state	"	51/71	"	
	30/4/22	SAT	II BA HEP	2nd 11To12	"	"	NITI Aayog / Solow growth model	"	51/71	"	

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COMMISSIONERATE OF COLLEGIATE EDUCATION, GOVT. OF ANDHRA PRADESH

GOVT. DEGREE COLLEGE

PADERU-531024.
VISAKHAPATNAM DIST.
(NAAC Accredited C Grade Institution)

TECAHING DIARY

Name of the Department/Subject : HINDI
Name of the Lecturer : U. VARIJA
Academic Year : 2021 - 22

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अक्टूबर 2021

TEACHING DIARY

S.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted
	27-10-21	बुधवार	I B.Com	3rd	हिन्दी	भाषण	सिलबस बताया गया।				
	28-10-21	गुरुवार	I BA	3rd	हिन्दी	भाषा	प्रस्तावना सिलबस बताया गया				
	29-10-21	शुक्रवार	I B.Sc	2nd	हिन्दी	भाषा	सिलबस बताया गया				
			II BA	3rd							
	30-10-21	शनिवार	I B.Sc	2nd	हिन्दी	भाषण	कार्यालयीन पत्र बताया गया				
			II B.A	3rd							
	~~31-10-21~~		I B.Com	3rd			~~रविवार~~				
							रविवार				
	31-10-21										

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for Principal
Signature of the Principal
GOVT. DEGREE & P.G. COLLEGE
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TEACHING DIARY

DECEMBER 2021

S.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
	30-12-2021	Thursday	I B.Com	3rd	Telugu	Theory						
			I B.A	4th	"	"						
			II B.Com	5th	"	"	Sem Exam					
	31-12-2021	Friday	I B.Sc	3rd	Telugu	Theory	Invigilation Duty					
			I B.Com	4th	"	"	— " —					

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Govt. Degree College
PADERU-531024
Visakhapatnam Agency Dist.

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TEACHING DIARY

जनवरी 2022

S.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
	23.01.2022						रविवार					
	24.01.2022			से		29.2022	कुंदीपर की भौगोलि के अनुसार					
	30.01.2022						रविवार					
	31.01.2022	सोमवार	IDE	2nd	हिन्दी	माध्यम	द्वारा मैं समझाया गया।					
			IHEP	3rd			—11—					

Signature of the Lecturer

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Principal
Govt. Degree College
PADERU - 531024
Alluri Sitharama Raju Dist.,

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COMMISSIONERATE OF COLLEGIATE EDUCATION, GOVT. OF ANDHRA PRADESH

GOVT. DEGREE COLLEGE

PADERU - 531024.

ALLURI SITHARAMA RAJU (DT.)

(NAAC Accreditated "C" Grade Institution)



TEACHING DIARY

Name of the Department / Subject : Hindi

Name of the Lecturer : U. Varija

Academic Year : 2022-23

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(NAAC Reaccredited C Grade Institution) जून 2022

TEACHING DIARY

Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted	Re
13.6.2022	सोमवार	I B.A. HEP	1st	हिन्दी	सामान्य	हार की जीत - कहानी	online	12	write		
		II B.Sc MPC	2nd	-11-	-11-	-11-	online	10	write		
14.6.2022	मंगलवार	I B.A. HEP	1st	-11-	-11-	-11-	online	11	write		
		II B.Sc ST.	2nd	-11-	-11-	-11-	online	13	write		
15.6.2022	बुधवार	I B.A. HEP	1st	हिन्दी	आवश्यक	हार की जीत कहानी (प्रश्नोत्तर)	online	10	write		
		II B.Sc ST	3rd	-11-	-11-	-11-					

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(NAAC Reaccredited C Grade Institution) जून 2022

TEACHING DIARY

S.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used
	16.6.2022	गुरुवार	II B.A. HEP	1st	हिन्दी	आधा	हरे की जीत कहानी (सारांश)	Lecd-u PPT	14	
			II BSc ST	3rd	-11-	-11-	-11-			
			II BCom (Cs)(V)	4th	-11-	-11-	-11-	-4	-1	--
	17.6.2022	शुक्रवार	II BSc ST	1st	हिन्दी	आधा	पत्र लेखन (शिकायत पत्र)	RPT	14	25 8:3
			II BSc C'IPC	4th	-11-	-11-	-11-	-1-	-4	-4
	18.6.2022	शनिवार	III BSc C'IPC	3rd	-11-	-11-	पत्र लेखन (आवेदन पत्र)	RPT	10	-1-
			II BCom (Cs+V)	4th	-11-	-11-	-11-	-4-	-4	-4

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GOVT.DEGREE & P.G.COLLEGE, PADERU,VISAKHAPATNAM-DIST-531

(NAAC Reaccredited C Grade Institution) జులై 2022

TEACHING DIARY

S.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used
	19.7.2022	మంగళవారం	II HEP	2nd	హిందీ	థియరీ	పురస్కార కథానీ ప్రారంభించడం జరిగింది.			
			I BSc	2nd	-11-	-11-	-11-			
			II BSc S-T	3rd	-11-	-11-	-11-			
	20.7.2022	బుధవారం	I HEP	2nd	హిందీ	థియరీ	పురస్కార కథానీ ప్రారంభించడం జరిగింది	P.C		
			II BSc	3rd	-11-	-11-	-11-			
			III BSc S-T (G)	4th	-11-	-11-	-11-			
	21.7.2022	గురువారం	II BSc	3rd	హిందీ	థియరీ	కథానీ యా సంవేదనా పరిచయం			
			I HEP S-T	3rd	-11-	-11-	-11-			
			II BSc (G)	4th	-11-	-11-	-11-			

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(NAAC Reaccredited C Grade Institution)

TEACHING DIARY

Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
30.7.2022	शनिवार	B.Sc	3rd	हिन्दी	अनिवा	मानव व्यवहार सिद्धांत					
		B.Sc (G)	4th	—"—	—"—	समाजीकरण प्रक्रिया					
31.7.2022						सोम वार					

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GOVT.DEGREE & P.G.COLLEGE, PADERU,VISAKHAPATNAM-DIST-53102

(NAAC Reaccredited C Grade Institution) अगस्त 2022

TEACHING DIARY

Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted
22.8.2022	सोमवार	I B.A	2nd	हिन्दी	सांख्य	मेघा - गरीब बालिका ~~का~~ कहानी	V.C.			
		I HEP I B.Sc	3rd	—"—	—"—	समझाया गया —"—				
		II B.Com (A)	4th	—"—	—"—	—"—				
23.8.2022	मंगलवार	I HEP I HBT I B.Sc	2nd	हिन्दी	सांख्य	मेघा - कहानी समझाया गया।			विडियो	
		II B.Sc	3rd	—"—	—"—	—"—				
		II B.Com (A)	4th	—"—	—"—	—"—				
24.8.2022	बुधवार	I HEP	2nd	हिन्दी	सांख्य	स्वप्न काटने वाले दोहराया गया			विडियो	
		I B.Sc	3rd	—"—	—"—	—"—				
		II B.Com (A)	4th	—"—	—"—	—"—				

Signature of ~~the~~ Lecturer

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Signature of the Principa

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GOVT.DEGREE & P.G.COLLEGE, PADERU,VISAKHAPATNAM-DIST-531024.

(NAAC Reaccredited C Grade Institution)

TEACHING DIARY

सितम्बर 2022

Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No of Students Attended	Teaching Aids Used	Student Activity Conducted	Re
14-09-2022	बुधवार					हिन्दी दिवस मनाया गया। का आयोजन किया गया।					
15-09-2022	गुरुवार	II B.Sc II B.A II B.Com (CA)	2nd 2nd 3rd	हिन्दी —"— —"—	अभिग —"— —"—	प्रयोगात्मक परीक्षाओं का आयोजन —"— —"—					
16-09-2022	शुक्रवार					Preparation Holidays					
17-09-2022	शनिवार										
18-09-2022						रविवार					
19-09-2022				30-9-2022		Examinations for Sem - IV & II					

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GOVT.DEGREE & P.G.COLLEGE, PADERU,VISAKHAPATNAM-DIST-531024.

(NAAC Reaccredited C Grade Institution) नवम्बर -2022

TEACHING DIARY

Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
8-11-2022	मंगलवार	I BA B.Com	1st	हिन्दी	भाषण	शब्द भेद — वाक्य, वचन लिंग			Virtual Class	देखना सुनना	
		I B.Sc	2nd	"	"	— " —					
		II BSc	3rd	"	"	आवेदन पत्र के प्रकार			PPT		
		III BA BCom	4th	"	"	— " —					
		III B.Com (V)	5th	English	Lectre	Environmental Education					
			6th			Add on - Course			PPT		
9-11-2022	बुधवार	I BA B.Com	1st	हिन्दी	भाषण	लिंग, वचन, काल सम्बन्धित					
		II BSc	3rd	"	"	आवेदन पत्र के अंग					
		III B.Com	5th	English	Lecture	Types of Environment					
			6th			Add on Course.					

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GOVT.DEGREE & P.G.COLLEGE, PADERU, VISAKHAPATNAM-DIST-531026

(NAAC Reaccredited C Grade Institution) नवम्बर 2022

TEACHING DIARY

S.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No of Students Attended	Teaching Aids Used	Student Activity Conducted
	10.11.2022	गुरुवार	I BA B.Ed	1st	हिन्दी	भाषण	अलंकार - बाल के भेद			डिक्टेशन	ने नहीं
			III BSc	3rd	"	"	हिन्दी साहित्य का इतिहास				
				6th			Add on Course				
	8.12.2022	गुरुवार	I BSc	2nd	हिन्दी	भाषण	वचन परिवर्तन के नियम समझाए गए			नोट्स दिए	नहीं
			III BA B.Ed	3rd	"	"	हिन्दी साहित्य का इतिहास			नोट	नहीं
				6th			Add on Course				
	12.12.2022						द्वितीय शनिवार				
	13.12.2022						रविवार				

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GOVT.DEGREE & P.G.COLLEGE, PADERU,VISAKHAPATNAM-DIST-531024

(NAAC Reaccredited C Grade Institution) नवम्बर 2022

TEACHING DIARY

S.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No. of Students Attended	Teaching Aids Used	Student Activity Conducted
	22-11-2022	मंगलवार	I BA	1st	हिंदी	आधा	प्रेमचंद लेखक परिचय दिया गया			Visual	
			B Com							"	
			I BSc	2nd	"	"	"			"	
			III BSc	3rd	"	"	छात्र सेमिनार का आयोजन			प्रस्तुतीकरण	
			III BA	4th	"	"	"			"	
			B Com								
			III BCom	5th	English	Lecture	Natural Resource				
				6th			Add on Course				
	23.11.2022	बुधवार	I B.A	1st	हिंदी	आधा	कबीर का दोहा कहानी			छात्रों	
			B Com								
			III B.Sc	3rd	"	"	छात्र सेमिनार का आयोजन			प्रस्तुतीकरण	
				6th			Add on Course				

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(NAAC Reaccredited C Grade Institution) नवम्बर 2022

TEACHING DIARY

S.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
	21-11-2022	सोमवार	I B.A	1st	हिन्दी	सामान्य	आज का कुछ अदनी सम्मेलन गया			Virtual	ठीक	
			B.Com		-11-	-11-	——— 11 ———			Class	-11-	
			II B.Sc	3rd	-11-	-11-	छात्र सेमिनार का आयोजन किया गया					
				6th			Add on Course.					
	25-11-2022	शुक्रवार					युवजनोत्सव का आयोजन किया गया					
	28.11.2022	सोमवार	I B.Sc	1st	हिन्दी	सामान्य	टैगोर का कुछ अदनी सम्मेलन गया			विडियो	ठीक था	
			II BA	3rd	-11-	-11-	छात्र सेमिनार का आयोजन किया गया					
			B.Com	"	-11-	-11-	——— 11 ———					
			II BA	5th	English	Lecture	Types of Environmental Education					
			Speaking	6th			Add on Course					

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(NAAC Reaccredited C Grade Institution) दिसंबर 2022

TEACHING DIARY

S. No.	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No. of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
	04.12.2022						रविवार					
	5.12.2022	सोमवार	I B A	1st	हिन्दी	लेखन	भारतीय साहित्य की रचना - प्रश्नोत्तर					
			I B Com				〃					
			I B Sc	2nd	〃	〃	〃					
			III B Sc	3rd	हिन्दी	लेखन	जाति पद्धति लाभ और दोष	virtual	18	PPT video		
			II B.A	4th	〃	〃	〃		10			
			III B Com	4th	〃	〃	〃					
	06.12.2022	मंगलवार	I B A	1st	हिन्दी	लेखन	ज्ञान सेमिनार का आयोजन किया गया					
			I B Com	1st			〃					
			I B Sc	2nd	〃	〃	〃					
			III B Sc	3rd	〃	〃	सूरदास जी पद्धति अनुसार जीवन	virtual	18	PPT video		
			III B A	5th	〃	〃	〃					
			B.Com									
			III B Com	6th	English	Lect	Environment Degradation & Impacts.					

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TEACHING DIARY

दिसम्बर - 2022

S. No.	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No. of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
								virtual	26	PPT video		
	17.12.2022	शनिवार	I B.Sc	1st	हिन्दी	आधा	द्वितीय शनिवार को पढ़ाया जाएगा।					
			III BCom/BA	3rd	-11-	-11-						
	15.12.2022		III BA/Sc	3rd	English	Lecture	Excerpt from Degree द्वितीय शनिवार					
							बाकी आधी पढ़ाई गई	virtual	32	PPT video		
	19.12.2022	सोमवार	I BA	1st	हिन्दी	आधा						
			I B.Com	1st	-11-	-11-						
			III BSc	3rd	-11-	-11-	सभी कार्तिक पाठ्य मित्र का परिचय					
			II BA	4th	-11-	-11-	समाप्त गया					
			III B.Com	-11-	-11-	-11-	-11-					
	20.12.2022	मंगलवार	I BA	1st	हिन्दी	आधा	बाकी आधी पढ़ाई गई					
			I BCom	3rd	-11-	-11-	-11-	virtual	10	PPT video		
			III B.Sc	3rd	-11-	-11-	आओ बढ़ो, ऊँचे चढ़ो कविता समाप्त गया					

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नव वर्ष 2023 — जनवरी 2023

TEACHING DIARY

S. No.	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No. of Students Attended	Teaching Aids Used	Student Activity Conducted	Re
	02-01-2023	सोमवार	I B.Com	1st	हिन्दी	आगण	वापसी कहानी दोहराई गयी					
		I.	I BA	1st	-"-	-"-	— " —					
			III B.Sc	3rd	-"-	-"-	आर्वत काल दोहराया गया					
			II B.Com	4th	-"-	-"-	— " —					
			III BA	4th	-"-	-"-	— " —					
	03-01-2023	मंगलवार	I B.Com	1st	हिन्दी	आगण	वापसी कहानी का संक्षेप लिखाया गया					
			I BA		-"-	-"-	— " —					
			II B.Sc	2nd	-"-	-"-	— " —					
			III B.Sc	3rd	-"-	-"-	अलीर दास का दोहे दोहराये गए					
			III B.A	4th	-"-	-"-	— " —					
			II B.Com	4th	-"-	-"-	— " —					
			III B.Com	6th	English	Lecture	Types of Natural Resources					

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TEACHING DIARY

S No.	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No. of Students Attended	Teaching Aids Used	Student Activity Conducte
	02.01.2023	सोमवार	I BPC	1st	हिन्दी	सामान्य		Module	22	PPT Video	
			II B.Com	3rd	-"-	-"-					
			III B.A	5th	-"-	-"-					
			III B.A Sp Eng		English	Lecture	Types of Environment Explained				
			III B.A Sp Tel		-"-	-"-					
	03.01.2023						रविवार				
	04.01.2023	मंगलवार	I BPC	1st	हिन्दी	सामान्य		Module	32	PPT Video	
			III B.A	3rd	-"-	-"-					
			III B.Com		-"-	-"-					
	9.1.2023		III				Sankranti Holidays.				
	to										
	18.01.2023						19.01.2023 Reopening.				

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TEACHING DIARY

S. No.	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No. of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
	29.01.2023						रविवार					
	30.01.2023	सोमवार	I B.Com	1st	हिन्दी	आकर	सदाचार का तात्पर्य प्रश्न/उत्तर समझाए गये					
			III BPC	3rd	-"-	-"-	कबीरदास के दोहे दोहराए गए	method	12	PPT video		
	31.01.2023	मंगलवार	I BA	1st	हिन्दी	आकर	हरिशंकर परसाई - लेखक परिचय बताया गया					
			I BPC	2nd	-"-	-"-	चतुर्वेदी जी की कविता-चरखे चले रैना चले समझाई गई।					
			III BPC	3rd	-"-	-"-						
			II B.Com	3rd	English	Lecture	Lecture on Intellectual Product of Natural Resource	method	32	PPT video		

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(NAAC Reaccredited C Grade Institution) फरवरी 2023

TEACHING DIARY

S. No.	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No. of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
	14-2-2023	मंगलवार	I B Sc	1st	हिन्दी	भाषण	आवेदन पत्र (दो उदाहरण)	method	17	PPT video		
			I B Sc	2nd	-11-	-11-	-11-					
			III B Sc	3rd	-11-	-11-	मैथली शरण गुप्त और परिचय					
			III B Com	4th	-11-	-11-	-11-					
			III B Com	5th	English	Lecture	Environmental Education Revision	method	29	PPT video		
	15-2-2023	बुधवार	I B Com	1st	हिन्दी	भाषण	लेखक परिचय दो उदाहरण दिया गया					
			III B Sc	2nd	-11-	-11-	और परिचय दो उदाहरण दिया गया।					
			III B Com	5th	English	Lecture	Environment Education Revision					
	16-2-2023	गुरुवार	I B Com	1st	हिन्दी	भाषण	भारतीय साहित्य की एकता (दो उदाहरण)					
			III B Sc	2nd	-11-	-11-	कबीर दास के दोहे (दो उदाहरण)					

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(NAAC Reaccredited C Grade Institution) मार्च 2023

TEACHING DIARY

S. No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No. of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
	07.3.2023	मंगलवार	I BSc	1st	हिन्दी	अनिवार्य	अन्तर्राष्ट्रीय महिला दिवस मनाया गया					
			II BCa	2nd	— " —	— " —	— " —					
			III BSc	3rd	— " —	— " —	— " —					
			IV BCa	4th	— " —	— " —	— " —					
			III BCa	6th	English	Lecture	World Women Day celebrated.					
	08.3.2023	बुधवार					महिला दिवस अवकाश					
	09.3.2023	गुरुवार	I B.Ca	1st	हिन्दी	आलेख	अन्तर्निहित सिद्धांत देखाया गया।					
			III BSc	3rd	— " —	— " —	हिन्दी साहित्य देखाया गया।					

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(NAAC Reaccredited C Grade Institution) ఏప్రిల్ 2023

TEACHING DIARY

S. No.	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No. of Students Attended	Teaching Aids Used	Student Activity Conducted
	10.4.2023	సోమవారం					Invigilation Duty				
	11.4.2023	మంగళవారం					Invigilation Duty				
	12.4.2023	బుధవారం					Invigilation Duty				
	13.4.2023	గురువారం					Invigilation Duty				
	14.4.2023	శుక్రవారం					అంబేద్కర్ జయంతి అధికారిక				
	15.4.2023	శనివారం					Invigilation Duty				
	16.4.2023						ఆదివారం				

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TEACHING DIARY

JUNE 2022

Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
-06-22	WED	II B.Sc MPC	2	EM	T	Fresnel Biprism	lecture	30/45	Google meet		
		MPCs	3	EM	T	Fresnel Biprism	lecture	32/42	G.meet		
2-06-22	THU	II MPC	2	EM	T	Newton Rings	lecture	27/45	G.Meet		
		MPCS	3	EM	T	Newton Rings	lecture	24/42	G.Meet		
-06-22	FRI	II MPWT	1	EM	T	Michelson interferometer	lecture	18/26	G.Meet		
		MPC	2	EM	T	michelson interferometer	lecture	35/45	G.Meet		
		MPCs	3	EM	T	michelson interferometer		24/42	G.Meet		
-06-22	SAT	II MPWT	1	EM	T	Diffraction	lecture	26/26	G.Meet		
		MPC	2	EM	T	Diffraction	lecture	27/45	G.Meet		
		MPCs	3	EM	T	Diffraction	lecture	26/42	G.Meet		
-06-22						← SUNDAY →					
-06-22	MON	II MPWT	1	EM	T	Airy Disc	lecture	16/26	G.Meet		

06/6/22

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(NAAC Reaccredited C Grade Institution)

TEACHING DIARY

S.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted
	07-06-22	TUE					← ONE DAY FDP on Content Development →				
	08-06-22	WED	IMPC	2	EM	T	Grating - 1	lecture	32/46	G.Meet	
			MPCS	3	EM	T	Grating - 1	lecture	24/42	G.Meet	
	09-06-22	THU	IMPC	2	EM	T	Fresnel Diffraction - 1	lecture	25/45	G.Meet	
			MPCS	3	EM	T	Fresnel Diffraction - 1	lecture	23/42	G.Meet	
	10-06-22	FRI	IMPWT	1	EM	T	Fresnel Diffraction - 2	lecture	8/26	G.Meet	
			MPC	2	EM	T	Fresnel Diffraction - 2	lecture	27/45	G.Meet	
			MPCS	3	EM	T	Fresnel Diffraction - 2	lecture	24/42	G.meet	
	11-06-22						← 2nd SATURDAY →				
	12-06-22						← SUNDAY →				
	13-06-22	MON	IMPWT	1	EM	T	Abberations - 1	lecture	18/26	G.Meet	

13/6/22

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TEACHING DIARY

e	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
	18/7/22	Mon	II MPC	V	Eng	T	Halogen Bromamide reactions	Lecture	28			
			II MPC	III	Eng	T	Isomerism	Lecture		chart		
	19/7/22	Tue	II CBZPC	II	Eng	T	Separation of Amines	Lecture	23	Board		
			II MPC	III	"	T	Tautomerism and metamerism	Lecture	28	"		
			II BC BT	V	"	P	properties of Alkenes	Practical	15			
			II BC ST	VI	"	P	—do—	"	15	"		
	20/7/22	Wed	II CBZPS	II	Eng	T	Splitting of d-orbitals in Oh and Td complexes	Lecture	24			
			II MPC	III	"	T	Conformational Isomerism of Butane		26	Models	practice	
			II CBZPC	V	"	P	Revision of VBT		20			
			II CBZPC	VI	"	P	Revision of Application and Limitations of VBT	VBT	20			
	21/7/22	Thu	II CBZPS	II	T	Eng	CFSE calculations	problems	24			
			II MPC	III	T	"	Bayer's strain Theory	Lecture Demo	25			
			II MPC	V	P	"	Revision Halogenation of Alkanes	Practical	25			
			II MPC	VI	P	"		"	4			

P. Vijaya Lakshmi

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TEACHING DIARY

Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
9-5-22	Mon	3 B.Z.H	2-3			[illegible]	—	42	—	—	
		3 HEP	3-4			[illegible]	—	40	—	—	
[illegible]							—	45	—	—	
10-5-22	Tue	3 B.Z.H	2-3			[illegible]	—	40	—	—	
11-5-22		—	—			CONTRACT BREAK PERIOD	—	—	—	—	
21-5-22							—	—	—	—	
31-5-22						AU ~~EXAMS~~					
1-6-22	Wed	2 HEP	10-11			[illegible]		46	[illegible]		
		2 JHC	11-12			[illegible]		44	—	—	
	Thu							42	—	—	
2-6-22	[illegible]	2 Spl.Tel	10-11			[illegible]		40	—	—	
	JHC	2 JHC	11-12			[illegible]		42	—	—	
3-6-22	Wed	2 JHC	11-12			[illegible]		40	—	—	

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TEACHING DIARY

Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
18-10-22	Tue					Exam duties					
19-10-22	Wed					" "					
20-10-22	Thu					" "					
21-10-22	Fri					" "					
22-10-22	Sat					" "					
23-10-22						దీపావళి					
24-10-22	Mon					దీపావళి					
25-10-22	Tue					Exam duties					
26-10-22	Wed					"					
27-10-22	Thu	II, III	11-12	తెలుగు		పాఠ్య విశ్లేషణం	ఉపన్యాస	30	పాఠ్యపుస్తకం		
28-10-22	Fri	II	12-1	"	"	పాఠాంతర విశ్లేషణం	"	25	"	"	
29-10-22	Sat	II	2-3	"	"	" "	"	28	"	"	
30-10-22						దీపావళి					
31-10-22	Mon	III	11-12	"	"	పాఠ్య విశ్లేషణం	ఉపన్యాస	26	"	"	

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TEACHING DIARY

Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
~~30-1-23~~	~~Mon~~	~~2sp~~									
		~~3sp~~									
		~~1sc~~									
~~31-1-23~~	~~Tue~~										
31-1-23	Tue	1HEP	10-11	తెలుగు	థియరీ	పలువాక్యములు	బోధన	42	బ్లాక్ బోర్డు		
1-2-23	Wed	1HEP	10-11	"	"	పలువాక్యములు	"	40			
2-2-23	~~Thu~~	~~1HEP~~	~~10-11~~	"	"	పలువాక్యములు	"	40			
		1B2C	11-12	"	"	పలువాక్యములు	"	41			
		3HPC	12-1	"	"	వాక్యభేదములు తెలుపుట	"	42			
		3sp	2-3	"	"	వాక్యభేదాలను రాయుట	"				
3-2-23	Fri	1HEP	10-11			పలువాక్యములు	"	41			
		1B2C	11-12			పలువాక్యములు	"	40			
		3HPC	12-1			వాక్యభేదములు తెలుపుట	"	39			
		3sp	2-3			వాక్యభేదాలను రాయుట	"	38			
		5sp	4-5			కొనసాగింపు కథలు	"	38			

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GOVT. DEGREE COLLEGE Date : PADERU-531 024

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GOVT. DEGREE & P.G. COLLEGE, PADERU, ALLURI SITHARAMA RAJU-DIST-531024.

(NAAC Reaccredited C Grade Institution)

TEACHING DIARY

NOV – 2022

S. No.	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No. of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
	1-11-22	Tuesday	I B.Sc	4th	English	Theory	Introduction to the Basics in ODE	lecture	50		Assignment	
			II B.Sc	5th, 6th	"	Paper I	Introduction to the Abstract Algebra	Method	"		"	
								"	"		"	
	2-11-22	Wed	I B.Sc	3rd	Eng	Theory	Find the order and degree of ODE	"	"		"	
			II B.Sc	2nd	"	"	Definition of a group	"	"		"	
								lecture	"		"	
	3-11-22	Thu	I B.Sc	3rd	English	Theory	Types of differential equations	method	50		Assignment	
			II B.Sc	2nd	"	"	Order of a group, Semi-group	"	"		"	
								"	"		"	
	4-11-22	Fri	I B.Sc	3rd, 5th, 6th	English	Theory	ordinary Differential Eqn - Introduction	"	"		"	
			II B.Sc	2nd	"	"	Properties of a group	"	"		"	
			II B.Sc (LSI)	4th	"	"	Introduction to Analytical skills	"	"		"	
	5-11-22	Sat	I B.Sc	4th	English	Theory	Exact Differential Eqn method	"	"		Seminar	
			II B.Sc	2nd	"	"	Find the Abelian group	"	"		"	
			I B.Sc		"	"		"	"		"	
	6-11-22				→ SUN DAY ←			"	"		"	
								"	"		"	

K. Varalakshmi Kumari
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TEACHING DIARY

Dec-2022

S. No.	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No. of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
1.	1-12-22	Thu	I B.Sc	7th	English	Theory	Equation Solvable for x	lecture	150	Black board	Solving	
			II B.Sc	2nd	"	"	Lagrange's Theorem.	method		board	"	
2	2-12-22	Fri	I B.Sc	5th,6th	English	practical	Problems solving for Orthogonal Trajectories	"		"	"	
			II B.Sc	4th	"	Theory	Algebraic Equation	"		"	"	
			III B.Sc	2nd	"	Theory	Introduction of Numerical Analysis	"		"	"	
3	3-12-22	Sat	II B.Sc	2nd	English	Theory	Normalisder of the group	"		"	"	
			II B.Sc (SI)	4th	"	"	Divisibility Rules	"		"	"	
			III B.Sc	1st, 3rd	"	"	Newton forward Interpolation formula	"		"	"	
4	4-12-22						SUN DAY ←					
5.	5-12-22	Mon	I B.Sc	4th	English	Theory	Equation Solvable for y	"		"	"	
			II B.Sc	1st, 3rd	"	"	Newton forward Difference formula	"		"	"	
			III B.Sc	3rd	"	"	Numerical Integration	"		"	"	

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TEACHING DIARY

S. No.	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No. of Students Attended	Teaching Aids Used	Student Activity Conducted
29	29-8-23	Tue	II B.Sc	3rd	English	Theory	Inverse method on matrices	lecture	150	black board	Seminar
			I B.Sc	4th	"	"	Introduction of cones	Method			
			II B.Sc	5th,6th	"	practical	problems on inverse method	"			
30	30-8-23	—	—	→ Raksha Bandhan ←							
31	31-8-23	Thu	II B.Sc	2nd	English	Theory	ch-roots & vectors on problems	—	—	—	—
			I B.Sc	4th	"	"	finding the vertex of cone				
			II B.Sc	5th,6th	"	practical	problems on vertex of cone				

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NOVEMBER

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TEACHING DIARY

S. No.	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No. of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
1	1/11/22	Tue	FA	3rd	EM	theory	Definition of Accounting	Lecture method	35	B/board		
			BOM	2nd	"	"	Introduction	"	25	"		
			AC	1st	"	"	Non profit organization	"	31	"		
2	2/11/22	wed	FA	3rd	"	"	Need for accounting	"	30	"		
			BOM	2nd	"	"	concepts of business	"	29	"		
			AC	1st	"	"	Non-profit Entities	"	29	"		
								"		"		
3	3/11/22	Thu	FA	3rd	"	"	objectives of accounting	"	35	"		
			BOM	2nd	"	"	Trade industry & commerce	"	22	"		
			AC	1st	"	"	features	"	21	"		
								"		"		
4	4/11/22	fri	FA	3rd	"	"	Accounting concepts	"	41	"		
			BOM	2nd	"	"	Business meaning	"	31	"		
			AC	1st	"	"	Non-profit entities	"	29	"		
5	5/11/22	Sat	FA	3rd	"	"	Accounting conventions	"	25	"		
			BOM	2nd	"	"	definition	"	29	"		
			AC	1st	"	"	provision as per sec 8	"	31	"		

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TEACHING DIARY

S.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted
18	18-07-22	MON	CA	1st	Tel	Theory	Problems explained	Lecture method		black board	
			Audit	4th	Tel	"	Financial Audit	"		"	
			B.Eco	5th	Eng.	"	Demand curve	"		"	
19	19-07-22	TUE	CA	1st	Tel	"	Discount problems explained	"		"	
			Audit	4th	Tel	"	Financial Audit	"		"	
20	20-07-22	WED	CA	1st	Tel	"	Shares discount problem explai	"		"	
			CA	5th	Tel	"	problems explained	"		"	
21	21-07-22	THU	B.Eco	1st	Eng	"	Typy of Markets	"		"	
			Audit	2nd	Tel	"	Internal Audit	"		"	
			CA	5th	Tel	"	Shares issue on discount	"		"	
22	22-07-22	FRI	B.Eco	1st	Eng	"	Convex demand curve	"		"	
			Audit	2nd	Tel	"	Cost Audit	"		"	
23	23-07-22	SAT	B.Eco	1st	Eng	"	Linear demand curve	"		"	
			Audit	2nd	Tel	"	cost Audit	"		"	
			B.Eco	3rd	Eng	"	convex demand curve	"		"	
24	24-07-22						SUNDAY				

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TEACHING DIARY

S.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
25	25-7-22	MON	CA	1st	Tel	Theory	Mid Semesters exams	Lecture method		black board		
			Audit	4th	Tel	"	"	"		"		
			B.Eco	5th	Eng	"	"	"		"		
26	26-7-22	TUE	CA	1st	Tel	"	"	"		"		
			Audit	4th	"	"	"	"		"		
27	27-7-22	WED	CA	1st	"	"	"	"		"		
			CA	5th	"	"	"	"		"		
28	28-7-22	THU	B.Eco	1st	Eng	"	Perfect competition	"		"		
			Audit	2nd	Tel	"	Tax Audit	"		"		
			CA	4th	"	"	Problems explained	"		"		
29	29-7-22	FRI	B.Eco	1st	Eng	"	Perfect market	"		"		
			Audit	2nd	Tel	"	Tax Audit	"		"		
30	30-7-22	SAT	B.Eco	1st	Eng	"	Imperfect market	"		"		
			Audit	2nd	Tel	"	internal Audit	"		"		
			B.Eco	3rd	Eng	"	Analysing markets	"		"		
31	31-7-22	SUN					SUNDAY					

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GOVT.DEGREE & P.G.COLLEGE, PADERU, VISAKHAPATNAM-DIST-53102

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TEACHING DIARY

S.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted
1	01-09-22	THU	B.Ed	1st	Eng	Theory	Components of national income	Lecture method		black board	
			Audit	2nd	Tel	"	internal control	"		"	
			CA	5th	Tel	"	Share valuation	"		"	
2	02-09-22	FRI	B.Ed	1st	Eng	"	Concepts of national income	"		"	
			Audit	2nd	Tel	"	Audit Report	"		"	
3	03-09-22	SAT	B.Ed	1st	Eng	"	problems in measuring national income	"		"	
			Audit	2nd	Tel	"	investigation	"		"	
			B.Ed	3rd	Eng	"	national income	"		"	
4	04-09-22	SUN					SUNDAY				
5	05-09-22	MON	CA	1st	Tel	"	Shares problems explained	"		"	
			Audit	4th	Tel	"	Audit book	"		"	
			B.Ed	5th	Eng	"	concepts of national income	"		"	
6	06-09-22	TUE	CA	1st	Tel	"	Problems explained	"		"	
			Audit	4th	"	"	Investigation	"		"	
7	07-09-22	WED	CA	1st	"	"	Company final Account	"		"	
			CA	5th	"	"	Company final Account	"		"	
								"		"	

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TEACHING DIARY

S. No.	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No. of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
7	7-10-23	Saturday	IIBA/CA	I	English	Theory	Government of India act 1919	Lecture method	35	Black board Chalk pieces		
			IIBA/Tel	II	"	"	"	"	32	"		
			IIIBA/Tel	III	"	"	Members of the legislature council	"	28	"		
8	8-10-23	Sunday					Sunday					
9	9-10-23	monday	IIBA/CA	I	English	Theory	Government of India act 1935	Lecture method	35	Black board Chalk pieces		
			IIBA/CA	II	"	"	Indian Government act 1935	"	28	"		
			IIIBA/SMC	III	"	"	Legislature Council in the state	"	18	"		
			IBA/HEP	IV	"	"	The Concept of Society	"	26	"		
10	10-10-23	Tuesday	IIIBA/CA	I	"	"	powers of the legislature	"	30	"		
			IIBA/CA	II	English	Theory	Cripps mission - 1942	"	26	"		
			IIIBA/SMC	III	"	"	powers of the legislature	"	18	"		
			IBA/HEP	IV	"	"	Human Nature helps for personality development					
11	11-10-23	wednesday	IIBA/CA	I			CL					
			IIBA/Tel	II								
			IIIBA/SMC	III								
			IBA/HEP	IV								
			IIBA/HEP	V								

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TEACHING DIARY

S.No	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No.of Students Attended	Teaching Aids Used	Student Activity Conducted
7	07.6.22	TUE		one day			FDP on Content Development	~			
8	08.6.22	WED	IIBA SPIE	I	Tel	SPIE	History of English Literature	C.L.T	28	Black Board	
			IIB2H	II	"	Prose	The Dolls House	"	36	"	
			IIBHEP	III	"	Poetry	ode to the west wind	"	29	"	
9	09.6.22	THURS	IIBHEP	I	Tel	Skills	Skimming and Scanning	C.L.T	34	"	
			IIBSPIB	II	"	SPIB	Olive Gold Smith introduction	"	29	Black Board	
			IIBCom	III	"	Prose	The Dolls House	"	36	"	
10	10.6.22	Fri	IIMPC	I	Tel	Poetry	ode to the west-wind	"	29	"	
			IIBA/HEP	II	"	Skills	Skimming and Scanning	C.L.T	28	"	
			IIB2H	III	"	Poetry	ode to the west-wind	"	41	"	
11	11.6.22	~				Second Saturday					
12	12.6.22	~				Sunday					
13	13.6.22	MON	IIBASPIB	I	Tel	SPIB	Drama	C.L.T	23	Black Board	
			IIB2H	II	"	Prose	Florence Nightingale	"	38	"	
			IIMPCS	III	"	Poetry	Upagupta	"	39	"	
14	14.6.22	TUES	IIBA SPIB	I	Tel	SKILLS	Reading Comprehension	C.L.T	28	"	
			IIB2H	II	"	Prose	Florence Nightingale	"	24	Black Board	

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S. No.	Date	Day	Class	Period/ Time	Medium	Theory/ Practical	Topic Covered	Methodology Adopted	No. of Students Attended	Teaching Aids Used	Student Activity Conducted	Remarks
11	11-11-22	Fri.	C&C++	2nd	E.M	Theory	1° Operators	Lecture method	18	Black Board		
			IT	3rd	"	"	Types of computer	"	24	"		
			LSC	4th	"	"	Analytical skill models	"	19	"		
12	12-11-22	-	-	-	"	"	Second Saturday	"	-	"		
13	13-11-22	-	-	-	"	"	SUNDAY	"	-	"		
14	14-11-22	Mon	IT	4th	"	"	limitations	"	27	"		
			C&C++	5th	"	"	Arithmatic operators	"	21	"		
15	15-11-22	Tue	IT	4th	"	"	Generations of computer	"	25	"		
16	16-11-22		C&C++	2nd	"	"	logical operators	"	18	"		
			IT	4th	"	"	Mini computer	"	28	"		
17	17-11-22	Wed	C&C++	2nd	"	"	Arrays in "C"	"	21	"		
18	18-11-22	Thur	IT	3rd	"	"	input devices	"	23	"		
			C&C++	2nd	"	"	variable	"	16	"		
			LSC	4th	"	"	Ratios	"	14	"		
19	19-11-22	Fri	C&C++	2nd	"	"	Function in c++	"	18	"		
			IT	3rd	"	"	output devices	"	26	"		
			LCC	4th	"	"	BODMAS-2	"	17	"		

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