



COMMISSIONERATE OF COLLEGIATE EDUCATION  
GOVERNMENT OF ANDHRA PRADESH



ZOOLOGY  
(UG courses)

GOVERNMENT DEGREE COLLEGE  
RAYACHOTY, ANNAMAYYA (Dist.)

**DEPARTMENT OF ZOOLOGY**

Name of the Lecturer : Dr. M. MUNIYA NAIK  
M.Sc. M.Phil., Ph.D., CSIR-NET.,

Name of the Department : ZOOLOGY

Academic Year : 2021-22

**STUDENT SEMENARS - REGISTER**



# GOVERNMENT DEGREE COLLEGE

RAYACHOTY, ANNAMAYYA (Dist.)

## STUDENT SEMINAR REGISTER

NAME OF THE DEPARTMENT : ZOOLOGY

NAME OF THE LECTURER : Dr.M.MUNIYA NAIK

Sl.No	Date	Class	Name of the student	Seminar Topic
1.	3-12-21	I.BZC	B. Siddeswara	principles of Taxonomy
2.	6-12-21	I.BZC	B. Vishnu Vardhan	Protozoa - Diseases
3.	8-12-21	I.BZC	C. Aswini	Platyhelminthes
4.	22-12-21	I.BZC	D. Veera Mallewarai	Platyhelminthes.
5.	5-1-22	I.BZC	D. Durga Prasad	principles of Taxonomy.
6.	11-1-22	I.BZC	G. Keerthana	Annelida.
7.	19-1-22	I.BZC	K. Manoj	Platyhelminthes.
8.	8-2-22	I.BZC	K. Khadar Basha	Annelida.
9.	17-2-22	I.BZC	K. Venkateswarlu	Porifera
10.	24-2-22	I.BZC	L. Syam Chandu	Nutrition in protozoans
11.	7-3-22	I.BZC	P. Khadar Bee	Kingdom Animalia.
12.	19-3-22	I.BZC	R. Sreenadh	Phylum: Porifera.
13.	30-3-22	I.BZC	S. Venu gopal	Fasciola hepatica.
14.	5-4-22	I.BZC	S. Farooq	Animalia.
15.	13-4-22	I.BZC	S. Shabeena	Platyhelminthes.
16.	16-12-21	I.BZC	B. Vishnu Vardhan	Annelida.
17.	18-1-22	I.BZC	G. Keerthana	Five Kingdom classification
18.	24-3-22	I.BZC	R. Sreenadh.	Principles of Taxonomy.
19.	20-3-22	I.BZC	S. Shabeena.	Principles of Taxonomy
20.	12-3-22	I.BZC	K. Khadar Basha	Annelida.

2021-2022 SM-① Seminars

# GOVERNMENT DEGREE COLLEGE

RAYACHOTY - 516269, KADAPA DISTRICT. (A.P.)



DEPARTMENT OF ZOOLOGY

(UG courses)

Seminar on

1) Principles of Taxonomy

Topic Submitted  
BY

Name of the Student: B. Siddeswara

Class: I<sup>st</sup> BSc, BZC

Date: 3-12-21

Academic Year: 2021-2022



# GOVERNMENT DEGREE COLLEGE: RAYACHOTY

## DEPARTMENT OF ZOOLOGY

Name of the academic activity: Seminar

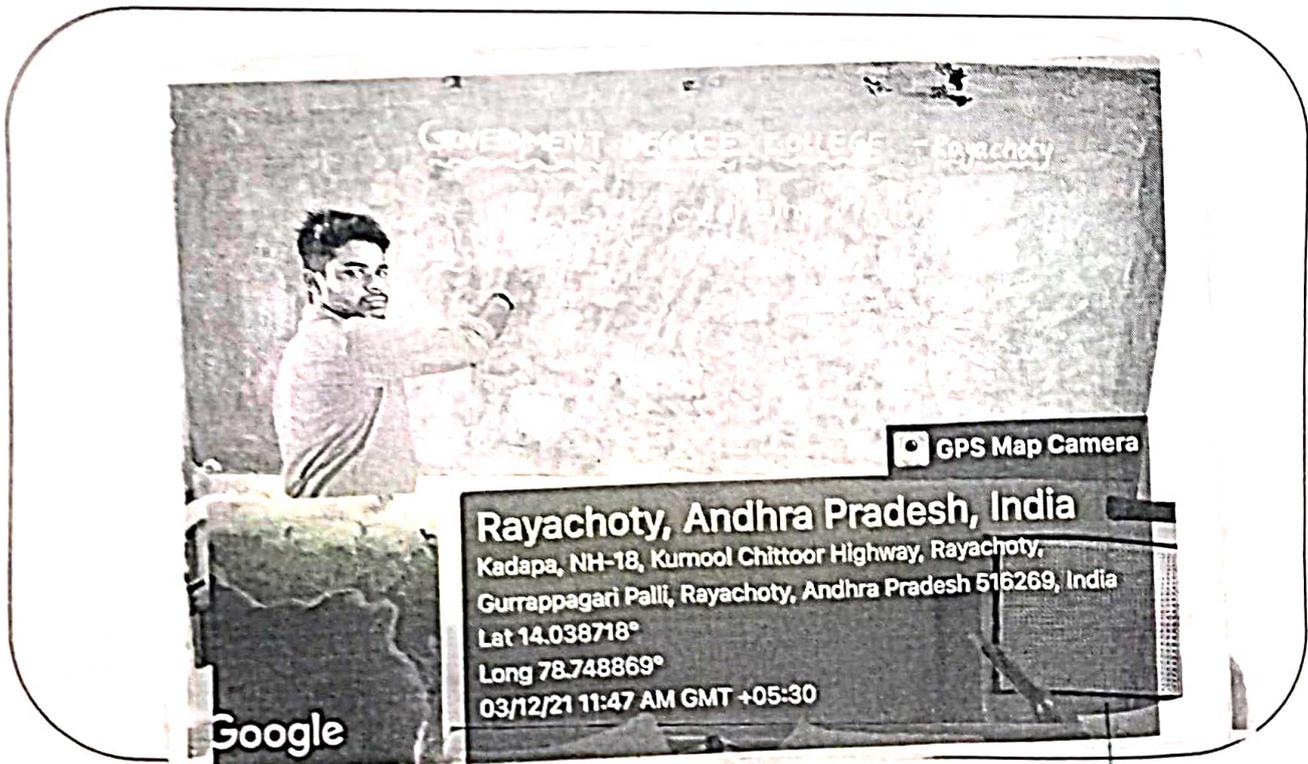
Class: 1<sup>st</sup> B.Sc B.ZC

Date: 3-12-21

Topic: Principles of Taxonomy

SL NO	Signature of the Candidate	SL NO	Signature of the Candidate	SL NO	Signature of the Candidate
1	B. Siddeswara	11	S. Sridhar	21	
2	S. Anjali	12	L. Srin Chanda	22	
3	A. Manoj	13	D. Durga Prasad	23	
4	S. Shabeena	14	R. Sreenadh	24	
5	P. Khadim Bee	15	G. Keerthana	25	
6	S. Farooq	16	G. Sathish	26	
7	D. Veera Maleswari	17	M. Geetha	27	
8	K. Khadim Basha	18	G. Deepika	28	
9	B. Vishnu vardhan	19	C. Agini	29	
10	S. Venkateswara	20	K. Venkateswara	30	

PHOTO



Signature of the Lecturer

Signature of the Department I/C  
LECTURER IN CHARGE

GOVERNMENT DEGREE COLLEGE  
RAYACHOTY

# Principals of Taxonomy

## Seminar - I

AP. de condolle coined the term - Taxonomy.

Taxonomy is the theory and practice of identifying, naming and classification of organisms.

Linnaeus is referred to as the father of taxonomy.

**Nomenclature**:- Naming of animals with a distinctive scientific name is called nomenclature. Binominal nomenclature is generally used in the naming of animals.

① **Binominal Nomenclature**:- The widely used system of nomenclature through the world is binominal nomenclature. Carolus Linnaeus, a Swedish naturalist popularised the binominal nomenclature. He described this system in the 10th edition of his book *Systema Naturae*. The binominal nomenclature of Linnaeus is referred to as Binominal nomenclature. In recent time it is a system of naming animals. According to this system, each animal is named by two words. The first word is called

generic name and the second word is called species name. The generic name starts with a capital letter and the species name starts with a small letter. The name must be in Latin or latinised form and are usually printed in italic type.

II Trinomial nomenclature :- Trinomial nomenclature is a method of naming the animal. Here each animal is named by three words. The first word represents the genus, the second word represents the species, and the third word represents the subspecies (e.g.) The crow contains many varieties and they are named as follows: (i) *Corvus splendens splendens* house crow Pakistan birds

(ii) *Corvus splendens - insokhs - house crow of Burma.*

# GOVERNMENT DEGREE COLLEGE

RAYACHOTY -516269, ANNAMAYYA DISTRICT. (A.P.)



DEPARTMENT OF COMPUTER SCI/APP

(UG courses)

**Seminar Topic**

*Spread sheet.*

**Topic Submitted  
BY**

**Name of the Student :** *C. Vamsi*

**Class :** *1<sup>st</sup> year B.Com*

**Date :** *20-01-2021*

**Academic Year: 2021-22**



GOVERNMENT DEGREE COLLEGE: RAYACHOTY  
DEPARTMENT OF COMPUTER SCIENCE / APPLICATIONS

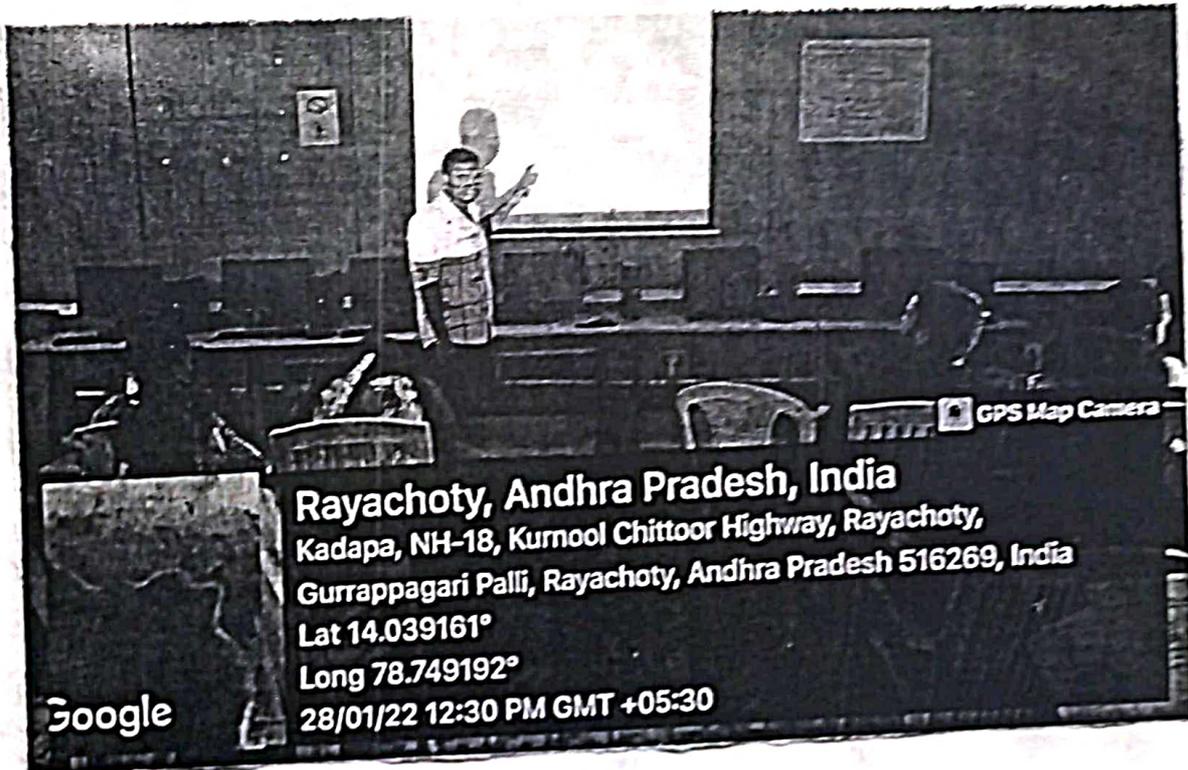
Name of the academic activity: STUDENT SEMINAR

Class : 1<sup>st</sup> year, B.com

Date: 28-01-2021

Topic: spread sheet.

SL NO	Signature of the Candidate	SL NO	Signature of the Candidate	SL NO	Signature of the Candidate
1	Jaleel	11	S. Dilshad	21	
2	(Dudakart)	12	M. Sumittra	22	
3	Mukhtyar Basha	13		23	
4	M. Uday Kumar	14		24	
5	V. Srinivas	15		25	
6	C. Chenna Kesava	16		26	
7	Siva prasad	17		27	
8	Pranindha	18		28	
9	D. Srinivas	19		29	
10	SAT. Kumar	20		30	



Signature of the Lecturer

Signature of the Department I/C

Signature of the Principal



## Work book and work sheet:-

When Excel is opened, a work-book appear with three worksheets. Each worksheet contain columns and rows. There are 1,048,575 and 16,384 columns.

## cell:-

The basic unit in spreadsheet is cell. A cell is formed by the intersection of row and a column. This intersection gives the cell a unique address through which a cell can be reference through its column name followed by it row number.

## Navigating through cells:-

we can use either the mouser or the keyboard to navigate the excel spreadsheet. To use the mouse, simply click in the desired cell. The key board offers a wide range of options for jumping around it. Particular location. The various shortcut keys used to move from one cell to another are listed in the table.

Keys	Description.
UP arrows keys	moves one cell up.
Down arrow key or enter key	moves one cell left.
left arrow key	moves one cell left.

Right arrow key

ctrl + Right arrow key

ctrl + left arrow key

ctrl + UP arrow key

ctrl + Down arrow key

ctrl + Home key

ctrl + end key

Page up

Page down

moves one cell right.

Goes to the end of the row.

Goes to the beginning of the row.

Goes to the top row of the sheet.

Goes to the bottom row of the sheet.

Goes to the top of the worksheet.

move to the end of the worksheet.

move active cell up one screen.

move active cell down one screen.

# **GOVERNMENT DEGREE COLLEGE**

**RAYACHOTY -516269, ANNAMAYYA DISTRICT. (A.P.)**



**DEPARTMENT OF PHYSICS**

**(UG courses)**

**Seminar Topic**

**NORMAL FORM OF A MATRIX**

**Topic Submitted  
BY**

**Name of the Student : M.SAI**

**Class : III M.P.Cs**

**Date : 15-07-2022**

**Academic Year: 2021-22**



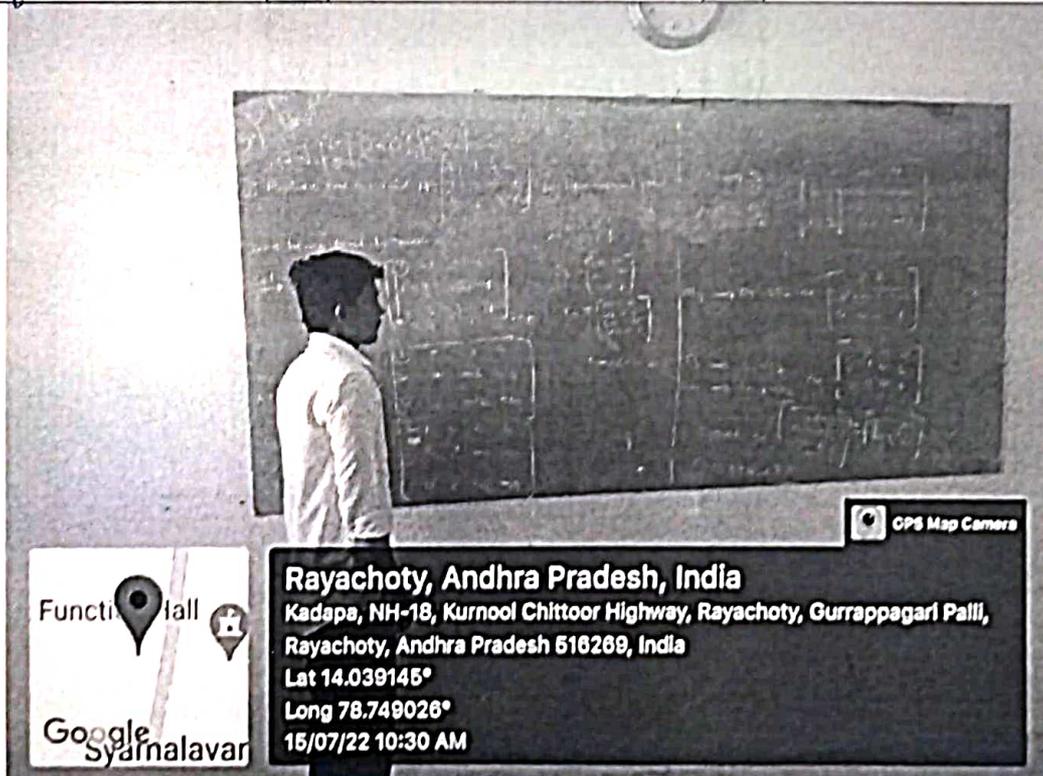
**GOVERNMENT DEGREE COLLEGE: RAYACHOTY**  
**DEPARTMENT OF MATHEMATICS**

Name of the academic activity: **STUDENT SEMINAR**

Class : III M.P.Cs Date: 15-07-2022

Topic: **NORMAL FORM OF A MATRIX**

SL. NO	Signature of the Candidate	SL. NO	Signature of the Candidate	SL. NO	Signature of the Candidate
1	Tirumala	11	Sreedhar Reddy	21	
2	Dharam Reddy	12	S.Md. Jabeed	22	
3	Dharam Reddy	13	S. Khushi Reddy	23	
4	Shagunika	14	Shahel	24	
5	Maheshwari	15	Abdul Mahammed	25	
6	Bhaskar Reddy	16	Mazeda	26	
7	Sai	17	Muneer	27	
8	Damodara	18	T. Tirumala	28	
9	Dandapani Reddy	19		29	
10	Satish Kumar	20		30	



Signature of the Lecturer

Signature of the Department I/C

Signature of the Principal



**GOVERNMENT DEGREE COLLEGE: RAYACHOTY**  
**DEPARTMENT OF URDU**

**Name of the academic activity: STUDENT SEMINAR**

**Class : I BA. HPU , URDU LITRETURE**

**Academic Year: 2021-22**

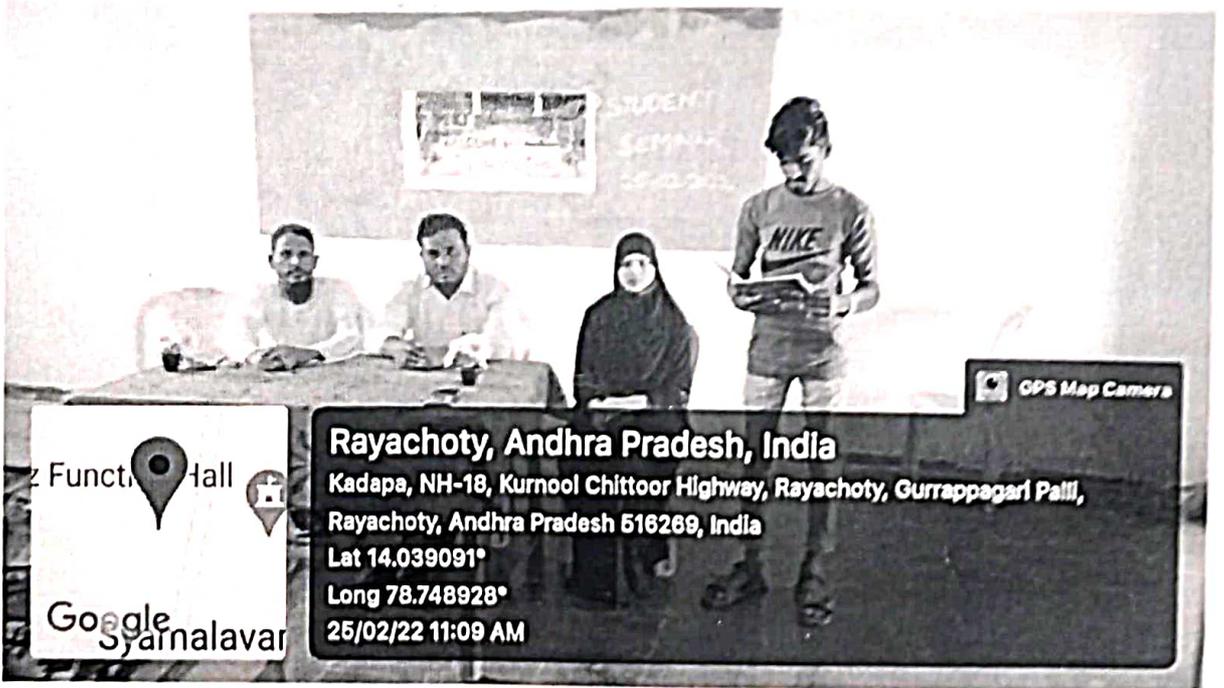
**Name of the Student: SHAIK SADIQ**

**H.T.NO: 211031533020**

**Date: 25-02-2022**

**NAME OF THE LECTURER: N.AFSANA**

**Topic: URDU GAZAL**



*N. Afsana*  
25/02/2022  
Signature of the Lecturer

*[Signature]*  
Signature of the Department I/C

*[Signature]*  
Signature of the Principal  
PRINCIPAL  
Govt. Degree College  
Rayachoty.

# STUDENT SEMINAR

66

2021-22

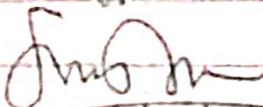
## Urdu Litreture

The Department of Urdu organized Student Seminar for the academic year 2021-22

S.NC	NAME	Topic	Subj	SEM	Section
01	S. Arib	میر تقی میر	اردو	I	Azif
02	S. Sadiq	میر تقی میر	اردو	I	S. B.
03	S. A.	غالب کی نثر	اردو	I	Sameera
04	S. Ruksana	مومن ماسیون	اردو	I	S. B.
05	S. Mohammed	غالب کی نثر	اردو	I	s.mohammed
06	S. Zainab	غالب کی نثر	اردو	I	Zainab
07	S. Sharmila	میر تقی میر	اردو	I	S. Sharmila
08	Muzaffar	مومن کی نثر	اردو	I	Muzaffer
09	Intiyaz	اقبال کی نثر	اردو	I	Intiyaz
10	Mansoor	میر تقی میر	اردو	I	Mansoor

N. Akbar  
25/02/2022

Head of the Department

  
25/2/22



GOVERNMENT DEGREE COLLEGE: RAYACHOTY

DEPARTMENT OF URDU

Name of the academic activity: STUDENT SEMINAR

Class : I BA. HPU , SECOND LANGUAGE URDU

Academic Year: 2021-22

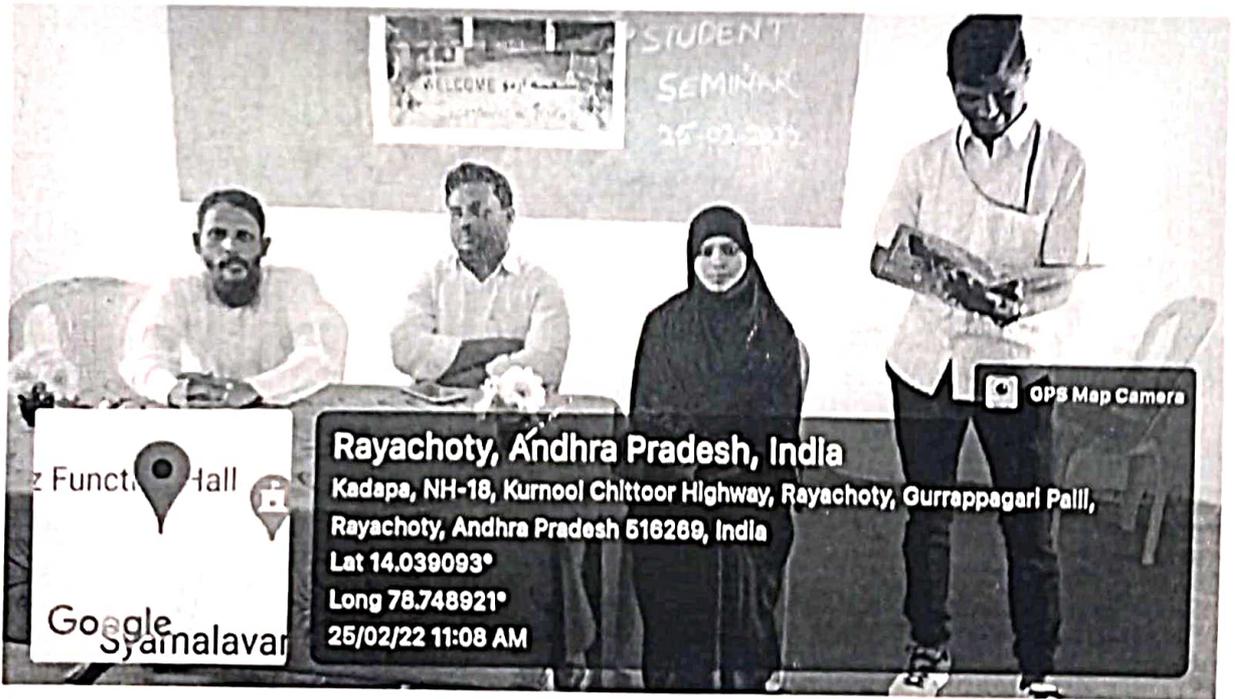
Name of the Student : SHAIK MANSOOR

H.T.NO: 211031533013

Date : 25-02-2022

NAME OF THE LECTURER : S.FAROOQ BASHA

Topic: URDU POETRY



  
Signature of the Lecturer

  
Signature of the Department I/C  
25/2/22

  
Signature of the Principal  
PRINCIPAL  
Govt. Degree College  
Rayachoty.

# STUDENT SEMINAR

2021-22

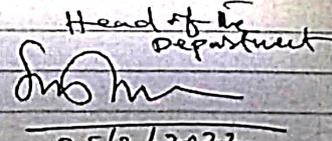
67

## Second Language Urdu.

The Department of Urdu Organized Student Seminar for the academic year 2021-22.

Sno.	Name	Topic	Sub	Sl. No.	Signature
01-	Shaik Needa.	عربی کی تاریخ	1	I	Needa.
02	Shaik Mansoor.	عربی کی تاریخ	1	I	Mansoor
03-	S. To fan.	عربی کی تاریخ	1	I	S. To fan
04-	All-bakasha.	عربی کی تاریخ	1	I	All-bakash
05-	Hameed.	عربی کی تاریخ	1	I	Hameed
06.	S. Tabassum	عربی کی تاریخ	1	I	S. Tabassum
07.	S. Badulsh	عربی کی تاریخ	1	I	Badulsh
08.	Sumiyah.	عربی کی تاریخ	1	I	Sumiyah.
09.	Salma.	عربی کی تاریخ	1	I	Salma.
10.	MoulaBaksha	عربی کی تاریخ	1	I	MoulaBaksha

  
25/2/22

Head of the  
Department  
  
25/2/2022





**GOVERNMENT DEGREE COLLEGE: RAYACHOTY**  
**DEPARTMENT OF POLITICAL SCIENCE**

**Name of the academic activity: STUDENT SEMINAR**

**Class : II BA. HPU ,**

**Academic Year: 2021-22**

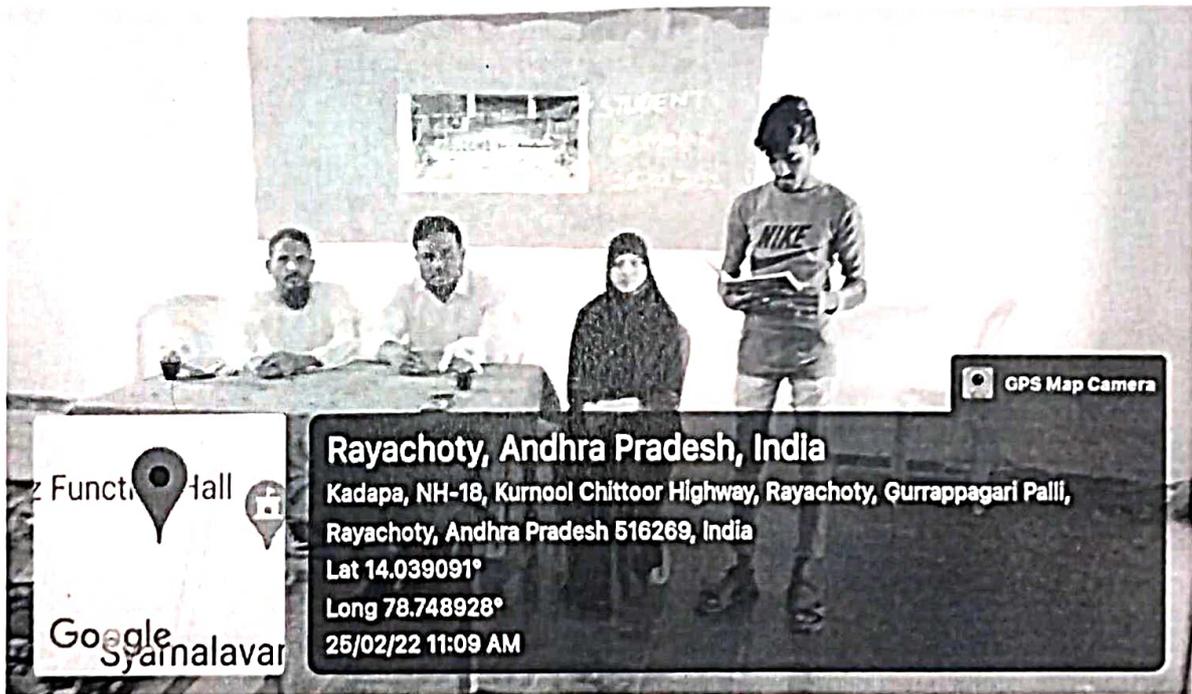
**Name of the Student: Nazy Nawaz Khan**

**H.T.NO: 201031533007**

**Date: 25-02-2022**

**NAME OF THE LECTURER: MD.ISMAIL**

**Topic: BALBAN**



*Md. Ismail*  
25/2/22  
Signature of the Lecturer

*[Signature]*  
25/2/22  
Signature of the Department I/C

*[Signature]*  
Signature of the Principal

## Department of History

The Department of History organised Students  
Seminar for the Academic Year 2021-22

1. Shaik Zainab - Shaik. Zainab
2. Shaik Shermilla - S. Shermilla
3. Shaik Sadik - Shaik. Sadik
4. Shaik Jafan - S. Jafan
5. Shaik Ruksana - Shaik. Ruksana
6. Shaik Tabassum - Shaik Tabassum
7. Shaik Arafat - S. Arafat
8. Shaik Muzaffar - S. Muzaffar
9. Shaik Moula Basra - Shaik. Moula Basra
10. Shaik Mohammad - S. Mohammad

Md. Jemal  
25/02/22

Md. Jemal  
25/2/22  
Head of the Department

# **GOVERNMENT DEGREE COLLEGE**

**RAYACHOTY -516269, ANNAMAYYA DISTRICT. (A.P.)**



**DEPARTMENT OF PHYSICS**

**(UG courses)**

**Seminar Topic**

**ULTRASONICS**

**Topic Submitted  
BY**

**Name of the Student : T Sreevidya**

**Class :I M.P.Cs**

**Date :01-12-2021**

**Academic Year: 2021-22**



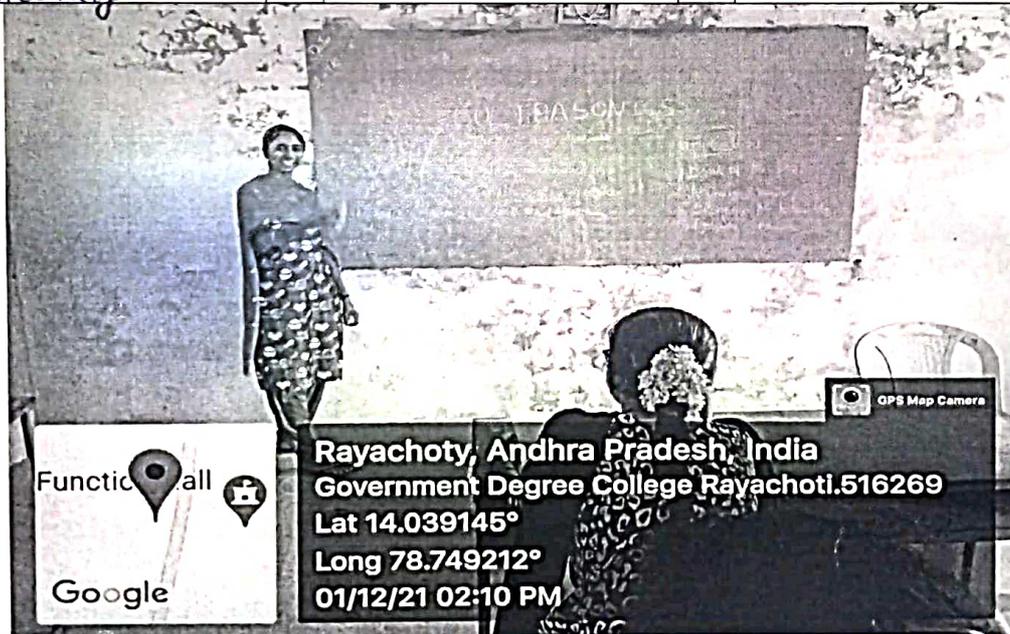
GOVERNMENT DEGREE COLLEGE: RAYACHOTY  
DEPARTMENT OF PHYSICS

Name of the academic activity: STUDENT SEMINAR

Class : I M.P.Cs Date: 01-12-2021

Topic: ULTRASONICS

SL. NO	Signature of the Candidate	SL. NO	Signature of the Candidate	SL. NO	Signature of the Candidate
1	A. Sravani	11	V. Siva sankar	21	
2	B. Reddy prasanthi	12		22	
3	B. Sangeetha	13		23	
4	G. Reddy lokesh	14		24	
5	K. Likhitha	15		25	
6	M. Falguni	16		26	
7	M. Swathi	17		27	
8	S. M. Yousef	18		28	
9	S. Syed Wali	19		29	
10	T. Sreevidya	20		30	



*B. Kiran*  
Signature of the Lecturer  
01/12/2021

*B. Kiran*  
Signature of the Department I/C  
01/12/2021

Signature of the Principal

# **GOVERNMENT DEGREE COLLEGE**

**RAYACHOTY -516269, ANNAMAYYA DISTRICT. (A.P.)**



**DEPARTMENT OF PHYSICS**

**(UG courses)**

**Seminar Topic**

**KEPLER'S LAWS**

**Topic Submitted  
BY**

**Name of the Student : K LIKHITHA**

**Class : I M.P.Cs**

**Date : 02-12-2021**

**Academic Year: 2021-22**



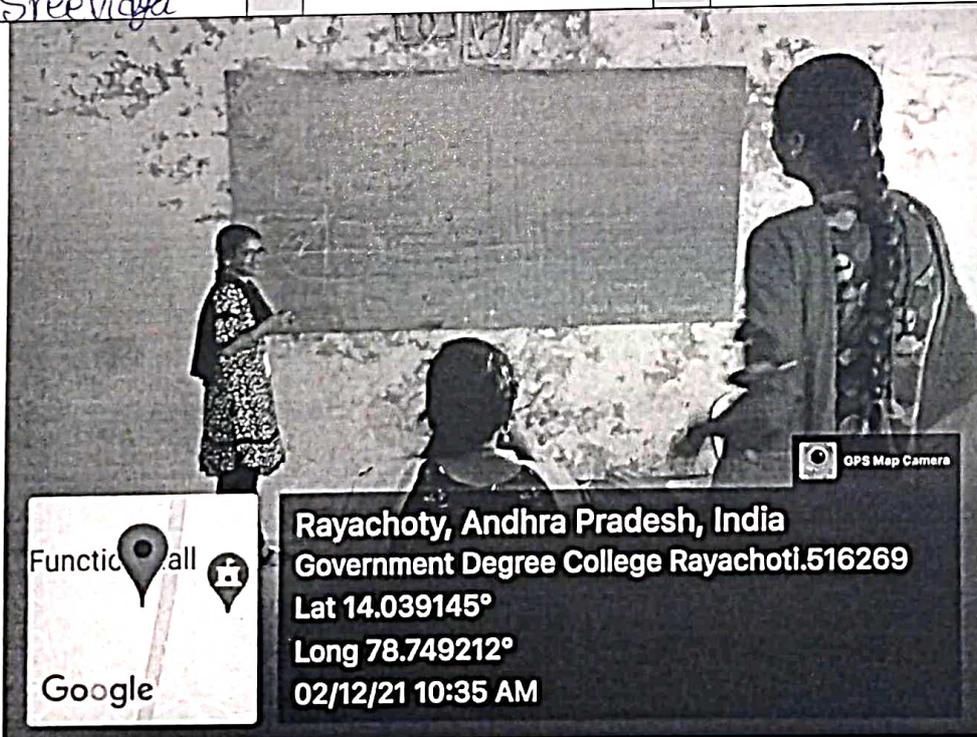
GOVERNMENT DEGREE COLLEGE: RAYACHOTY  
DEPARTMENT OF PHYSICS

Name of the academic activity: STUDENT SEMINAR

Class : I M.P.Cs Date: 02-12-2021

Topic: KEPLER'S LAWS

SL NO	Signature of the Candidate	SL NO	Signature of the Candidate	SL NO	Signature of the Candidate
1	A. sravanani	11	v. siva sankar	21	
2	B. Reddy prasanthi	12		22	
3	B. saugeeltra	13		23	
4	G. Reddy - lokesh	14		24	
5	K. Likhitha	15		25	
6	M. Fathimadulista	16		26	
7	M. swathi	17		27	
8	S.M. Yousef	18		28	
9	S. syed wali	19		29	
10	T. Sreevidya	20		30	



*[Signature]*  
Signature of the Lecturer  
02/12/2021

*[Signature]*  
Signature of the Department-I/C  
02/12/2021

Signature of the Principal



**GOVERNMENT DEGREE COLLEGE: RAYACHOTY**  
**DEPARTMENT OF POLITICAL SCIENCE**

**Name of the academic activity: STUDENT SEMINAR**

**Class : II BA. HPU ,**

**Academic Year: 2021-22**

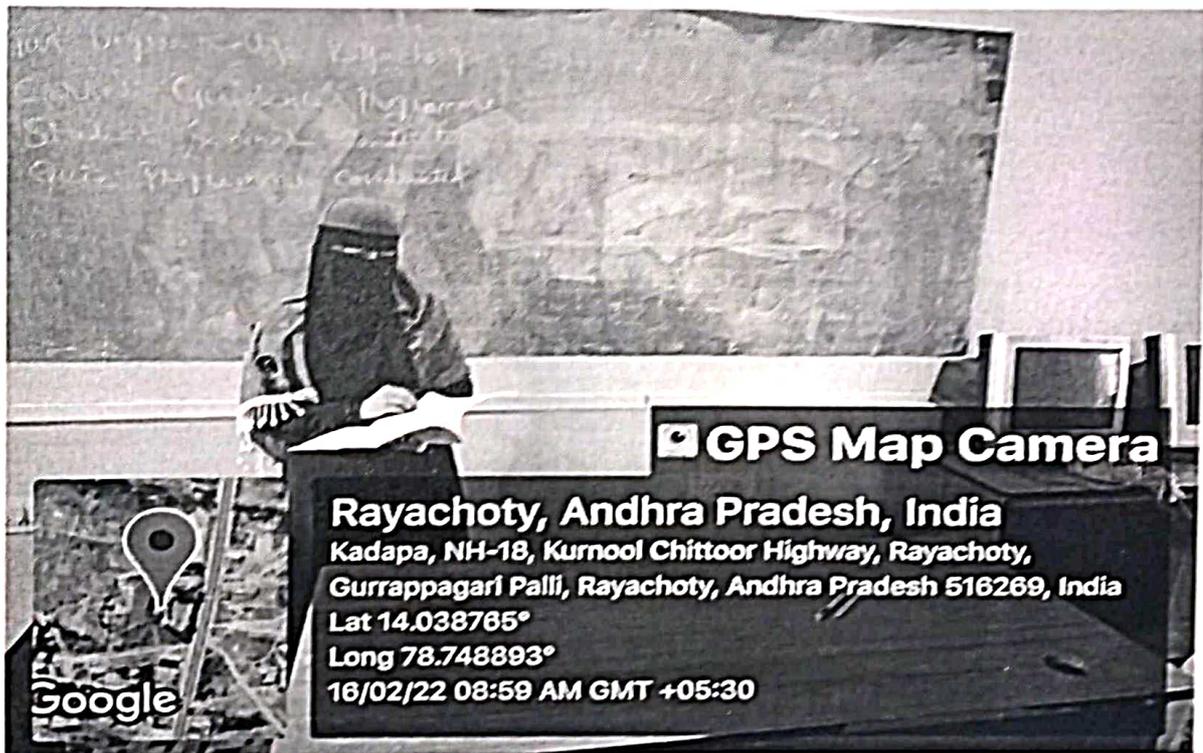
**Name of the Student: SHAIK VAJIHA**

**H.T.NO: 201031533040**

**Date: 16-02-2022**

**NAME OF THE LECTURER: KHAJA VICE KHARNI**

**Topic: LOKA YUKTA**



*Asbhey 16/02/22*  
Signature of the Lecturer

*Asbhey*  
Signature of the Department I/C

*Asbhey*  
Signature of the Principal

Govt degree college

Raychoti

Seminar IV<sup>th</sup> Paper

SUB : Political science

GROUP : B.A (H.P.U)

TOPIC : The election commission  
of india

Student Name : R.K. Sameer

Name of the lecturer : Khaja

Vice Kanni



اکلشن کمیشن سیاسی پارٹیز کے شناخت کرنے ہے۔  
- فیڈ بیک میں جو سیاسی پارٹیز اکلشن کمیشن سے  
ذریعہ 10% ووٹ حاصل کرنے ہے۔ اس پارٹی کو اکلشن  
کمیشن نے ذریعہ شناخت دی جاتی ہے۔ اس کے علاوہ اس  
سے پارٹی کو اکلشن کمیشن میں نرتے بلکے نشان یا تو  
میں ہے جس پارٹی کا نشان مکمل کا پھول اور گلو دینچ پار  
ٹی کا نشان تھا ہے۔

1. اکلشن کمیشن علاقہ میں ایشیا میں شرتی ہے یعنی ایک نمائند  
کی علاقہ کی صدر اکلشن ہے۔

2. صدر پتر اور نائب صدر کے انتخابات چلاتی ہے۔

3. پارٹیز اور ریاست قانون ساز کے انتخابات  
چلاتی ہے۔

4. ریاست اکلشن کمیشن کے مجسٹریٹ کے تعلق سے  
صدر پتر کو اپنا حقورہ دیتی ہے۔

5. ووٹوں کی گنتی و نتائج کا حساب مجسٹریٹ کے اعلیٰ کلاس  
ہے۔

6. اکلشن کمیشن کی تاریخ صدر پتر اکلشن میں کا گیا  
ہی حاصل ہے کہ جو وہاں کی قبر بہت صدر پتر اور ریاست کو  
صدر کو پیش کرنا اکلشن کمیشن کی ذمہ داری ہوتی  
ہے۔

Govt Degree college Rayachoti-2021  
Department of Political Science

44 Student Seminar Register

Student Name	Topic	Signature
1. Shaik Fahimda	Lokpal	Shaik Fahimda
2. Shaik Farzana	Plato Idol State	Shaik Farzana
3. Shaik Nawaz	Rowbreath will	Shaik Nawaz
4. Shaik Noor Anif	Central Vigilance	Shaik Noor Anif
5. Shaik Hasrah	Aristotle Slavery	Shaik Hasrah
6. Shaik Vajiba	Lokayukta	Shaik Vajiba
7. Momin Javadulla	Locke State of Nature	Momin Javadulla
8. Abdul Basit	Panchsheel Raj	Abdul Basit
9. Shaik Muskech	Hobbes PhiloSophy	Shaik Muskech
10. Shaik Heech	Karl Marx	Shaik Heech

Approved by

# GOVERNMENT DEGREE COLLEGE

RAYACHOTY -516269, ANNAMAYYA DISTRICT. (A.P.)



DEPARTMENT OF ECONOMICS

(UG courses)

Seminar Topic

**FIVE YEAR PLANS IN INDIA**

Topic Submitted  
BY

Name of the Student :R.RANGANAYAKULU

Class :IIB.A HEP

Date :02-12-2021

Academic Year: 2021-22



GOVERNMENT DEGREE COLLEGE: RAYACHOTY  
DEPARTMENT OF ECONOMICS

Name of the academic activity: STUDENT SEMINAR

Class : IIB.A HEP Date: 02-12-2021

Topic: FIVE YEAR PLANS IN INDIA

SL NO	Signature of the Candidate	SL NO	Signature of the Candidate	SL NO	Signature of the Candidate
1	S.HUSSEN	11	AMYAM.R	21	M.SATHEEH KUMAR
2	P.VINOSH	12	S.ALIA	22	M.RUSHWAR NAIDU
3	G.RAMESH	13	D.KAVITHA	23	M.PEDDANNA
4	M.MAHESH	14	R.PAVANI	24	N.ESWAR
5	SM.BADULLA	15	S.VVENKATESH	25	N.NAGENDRABABU
6	A.GANESH	16	D.SREEKANTH	26	D.ANIFI
7	B.PRASA	17	E.ASOKE KUMAR	27	P.OBULREDDY
8	C.K.ANIFI	18	D.BHANU PRAKASH	28	D.KARTHIK
9	R.RANGANAYAKULU	19	K,SIVAMANI	29	S.DEVNDRA
10	P.VENKATESWARLU	20	DEVAPTA BHANU PRAKASH	30	T.BALARAJU



*R. E. May*  
Signature of the Lecturer / Signature of the Department I/C

*A. Kumar*  
Signature of the Principal  
**PRINCIPAL**  
Govt. Degree College  
Rayachoty.

# GOVERNMENT DEGREE COLLEGE

RAYACHOTY - 516269, ANNAMAYYA DISTRICT. (A.P.)



DEPARTMENT OF History  
(UG courses)

## Seminar Topic

Vandemalaram Movement held in Andhra

Topic Submitted  
BY

Name of the Student: K. Gayathri

Class: IIIrd. B.A. (H.E.P.).

Date:

Academic Year: 2021-22



GOVERNMENT DEGREE COLLEGE: RAYACHOTY

DEPARTMENT OF History

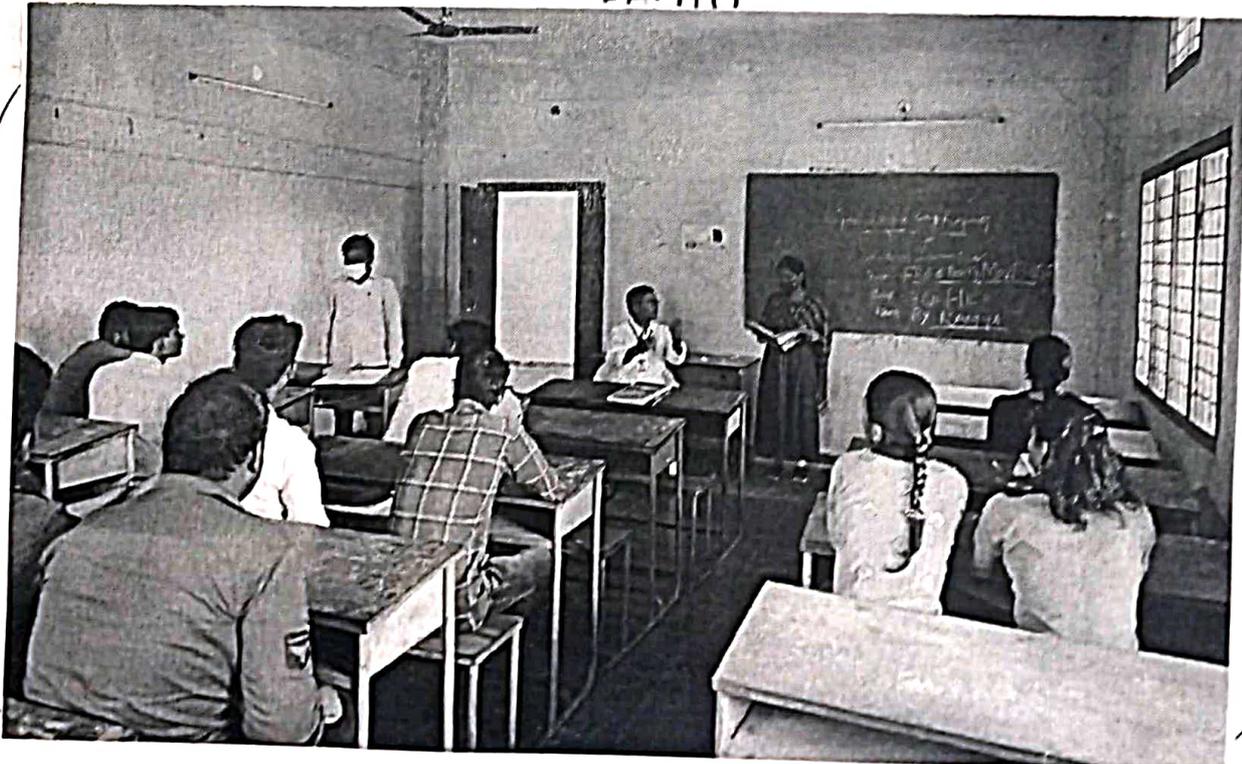
Name of the academic activity: 2021-22

Class: IIIrd BA (HCP) Date: \_\_\_\_\_

Topic: vandhematazara Movement held in Andhra.

SL. NO	Signature of the Candidate	SL. NO	Signature of the Candidate	SL. NO	Signature of the Candidate
1	S. Abdulla	11	S.M. Devaraj Naik	21	S. Abdulla
2	A. PRABHAKARA	12	M. Sukumar Naik	22	S. mahammad Akram
3	M. VIJAY KUMAR	13	M. Sravani	23	S. malik Basba
4	M. SRAVANI	14	N. Anji Kumar Yadav	24	S. mohammad Thaver
5	P. AFRIDI KHAN	15	N. Siva prasad	25	S. Syad Basba
6	P. PARDEEN KHAN	16	N. Sivaiah	26	S. marjunatha
7	S. IMRAN	17	P. Abiridi Kar	27	V. Anusha
8	M.S. AKRAM	18	P. fardeen Khan	28	V. Jayasimha
9	V. JAYASIMHA	19	P. Prfar	29	V. krishan Kumar
10	G. MALLIKARJUNA	20	S. Praran	30	

PHOTO



*K. K. V. V.*  
Signature of the Lecturer

*K. K. V. V.*  
Signature of the Department I/C

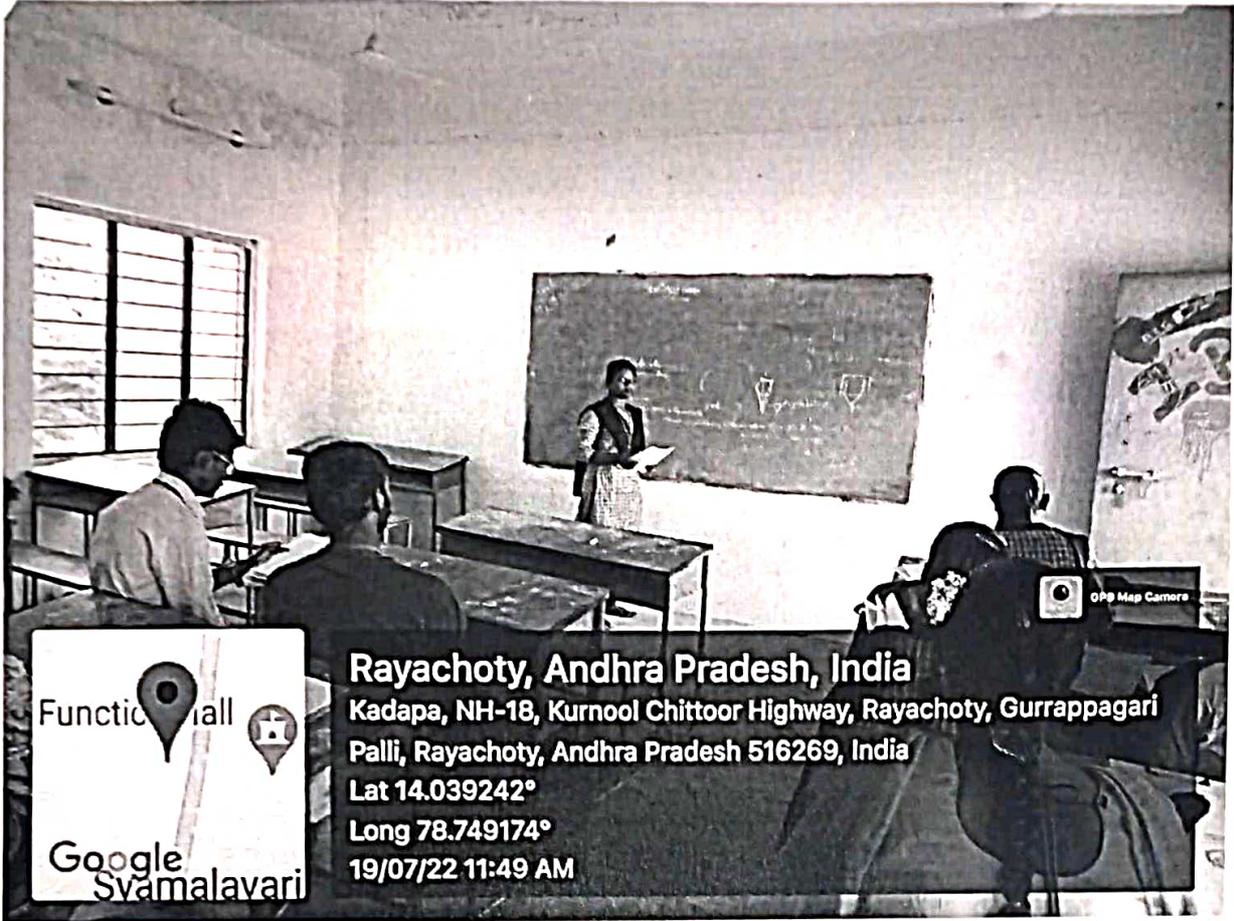
# GOVT.DEGREE COLLEGE RAYACHOTY

Department of chemistry



Name of the student : C. Maneesha  
Group : B-2.c group  
Course : Bsc. II year  
Roll No : 2052031049006  
Title of the Seminar : Perkin Reaction  
2021-22





**Rayachoty, Andhra Pradesh, India**

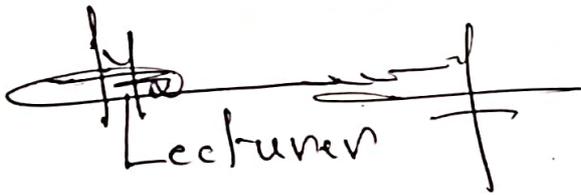
**Kadapa, NH-18, Kurnool Chittoor Highway, Rayachoty, Gurrappagari**

**Palli, Rayachoty, Andhra Pradesh 516269, India**

**Lat 14.039242°**

**Long 78.749174°**

**19/07/22 11:49 AM**

  
Lecturer

  
**PRINCIPAL**  
**Govt. Degree College**  
**Rayachoty.**



GOVERNMENT DEGREE COLLEGE: RAYACHOTY

DEPARTMENT OF PHYSICS

Name of the academic activity: STUDENT SEMINAR

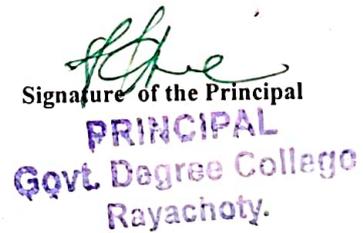
Class : II - B.Sc Date: 19.7.22

Topic: Perkin Reaction

SL. NO	Signature of the Candidate	SL. NO	Signature of the Candidate	SL. NO	Signature of the Candidate
1	D. obuleshu	11	S. Thaslim	21	C. manasha
2	C. Nagaveni	12	Y. Niranbin	22	P. snehabika
3	C. shameer	13	M. Saibhargava	23	U. Nijamgan
4	G. Venkateshwar	14	M. Shiva Shankar	24	
5	G. Sravani	15	G. Nageshwara	25	
6	S. Nageswari	16	C. Manasha	26	
7	Y. Nagaveni	17	D. praveen kumar	27	
8	S. Fahera	18	S. Raffi Kuddin	28	
9	P. sai kumar	19	C. uday kiran	29	
10	P. Sai Kiran	20	m. sravani	30	

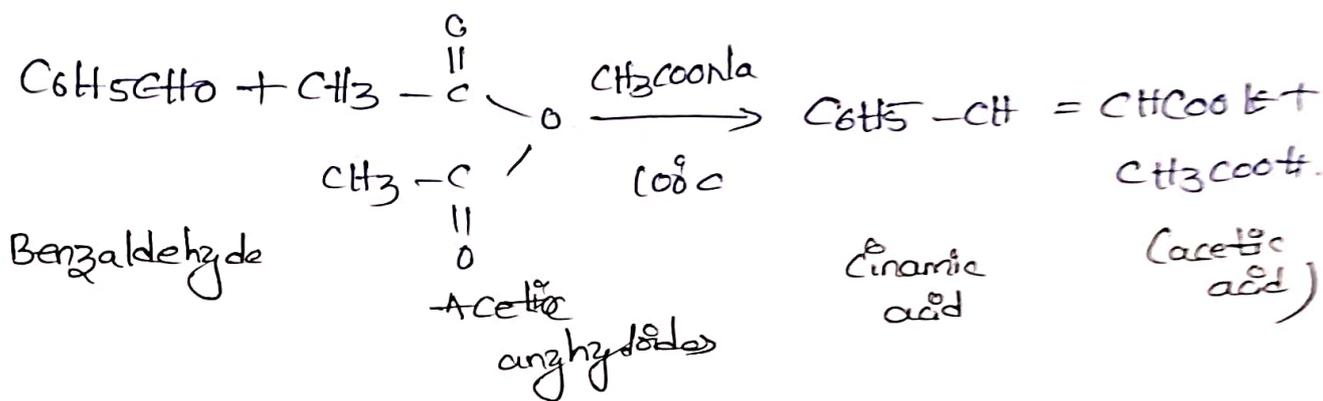
  
Signature of the Lecturer

  
Signature of the Department I/C

  
Signature of the Principal  
**PRINCIPAL**  
Govt. Degree College  
Rayachoty.

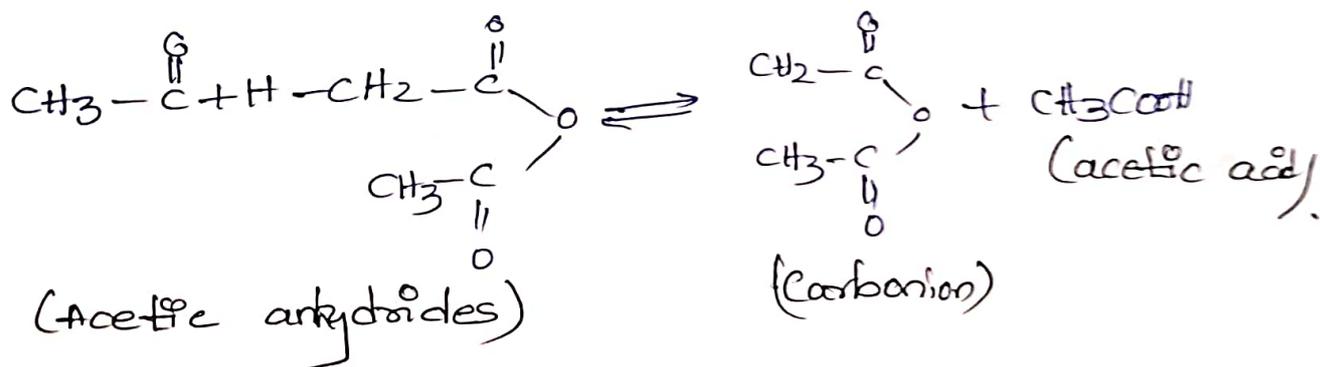
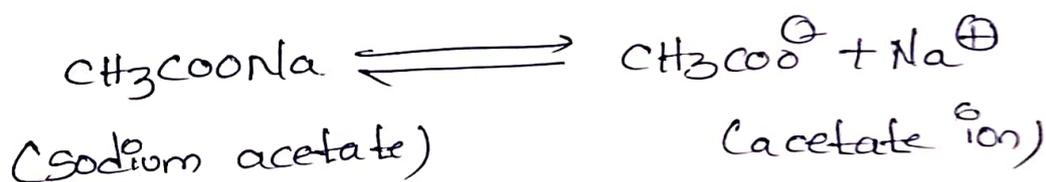
# Perkin Reaction :-

Aromatic aldehydes on heating with aliphatic acid anhydrides in presence of sodium salt of same to form  $\alpha$ - $\beta$ -unsaturated acids.



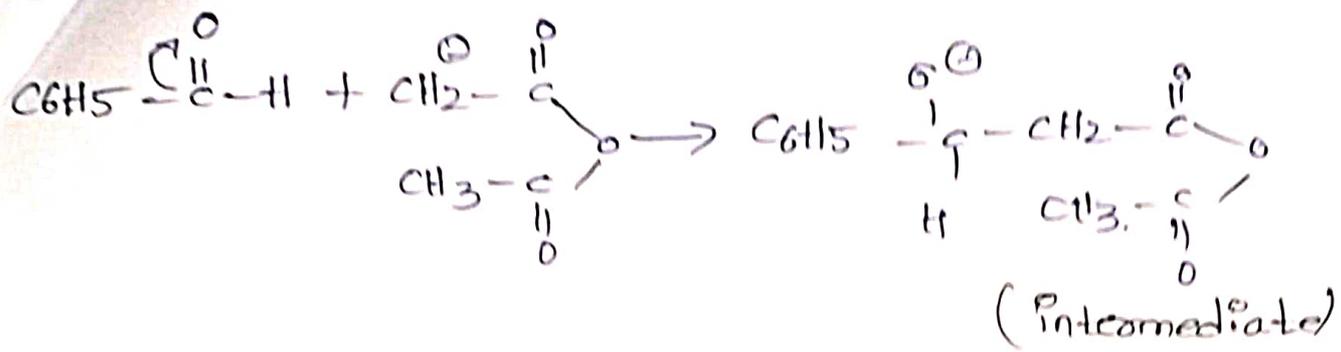
## Mechanism :-

Step 1 :- Formation of carbonion.



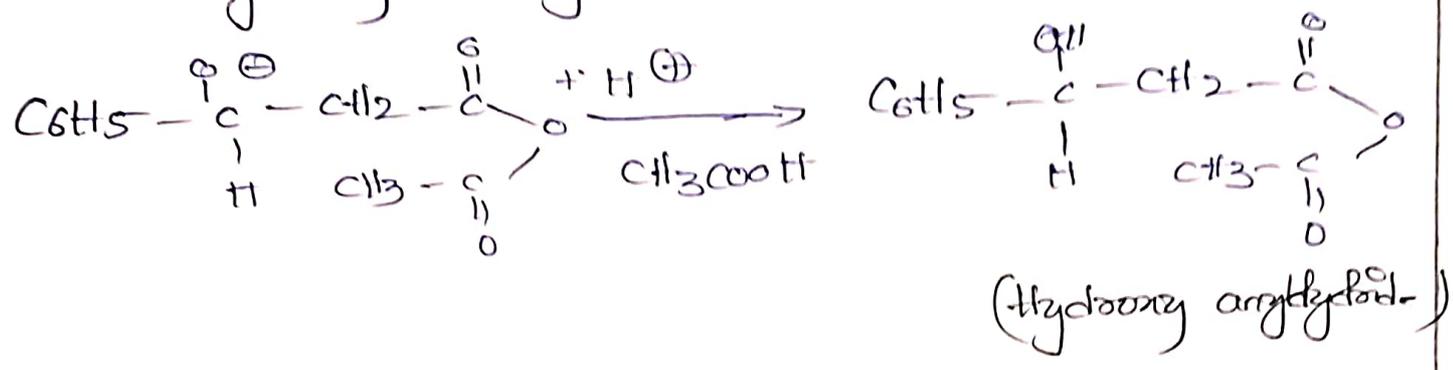
Step 2 :-

Nucleophilic addition of carbonion on benzaldehyde to form intermediate.



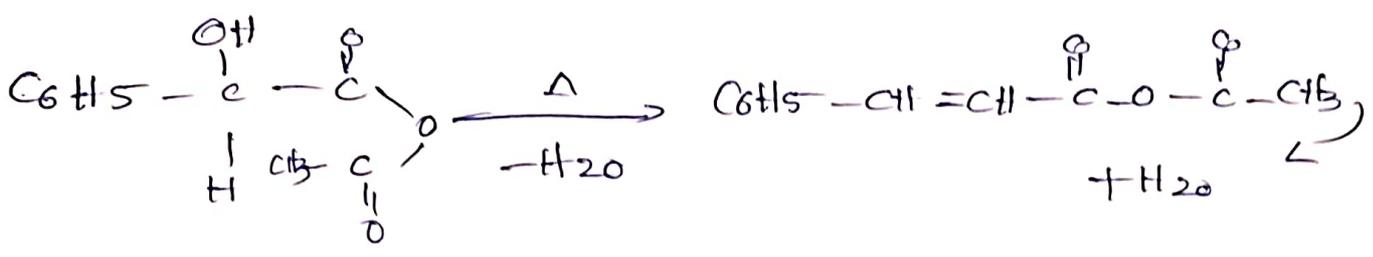
Step: 3:-

-Attack of H<sup>+</sup> ion on the intermediate to form hydroxy anhydride.



Step: 4:-

Formation of  $\alpha, \beta$  unsaturated acid



$\text{C}_6\text{H}_5\text{OH} = \text{CHCOOH} + \text{CH}_3\text{COOH}$   
(Cinnamic acid)