



VISVODAYA GOVERNMENT DEGREE COLLEGE
VENKATAGIRI, TIRUPATI DISTRICT, ANDHRAPRADESH.

Criteria – I – Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process

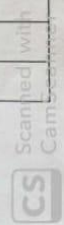
Departmental Activity Register

Commissionerate of Collegiate Education, A.P.,									
Proforma for Departmental Activity Register									
Name of the Department: <u>PHYSICS</u>						Academic Year: <u>2021-2022</u> (01-10-2021)			
S.NO	Date	Conducted through DRC/JKC/NCC/NSS/Department	Nature of Activity	Title of the Activity	Name of the Lecturer(s) involved	Details of the Resource person	No. of students participated	Signature of the Dept., Incharge	Remarks
1.	17-8-21	DEPARTMENT	CURRICULAR (CLASS TEST)	CLASS TEST	N. Nagaraj	-	V SEM ()		
2.	24-11-21	DEPARTMENT	CO-CURRICULAR	STUDENT SEMINAR	N. Nagaraj	-	VI SEM (2)		
3.	06-12-21	DEPARTMENT	CURRICULAR	CLASS TEST	N. Nagaraj	-	V SEM ()		
4.	18-12-21	DEPARTMENT	CURRICULAR	CLASS TEST	N. Nagaraj	-	V SEM ()		
5.	29-12-21	DEPARTMENT	CURRICULAR	CLASS TEST	N. Nagaraj	-	V SEM (II)		
6.	06-01-22	DEPARTMENT	CURRICULAR	CLASS TEST	N. Nagaraj	-	III SEM ()		
7.	07-01-22	DEPARTMENT	CURRICULAR	CLASS TEST	N. Nagaraj	-	V SEM ()		
			<u>SANKRANTI HOLIDAYS</u>						
8.	20-01-22	DEPARTMENT	CURRICULAR	CLASS TEST	N. Nagaraj	-	V SEM ()		
9.	03-02-22	DEPARTMENT	CURRICULAR	CLASS TEST	N. Nagaraj	-	V SEM ()		
10.	04-02-22	DEPARTMENT	CURRICULAR	CLASS TEST	N. Nagaraj	-	V SEM ()		
11.	07-02-22	DEPARTMENT	CURRICULAR	CLASS TEST	N. Nagaraj	-	VI SEM ()		
12.	07-02-22	DEPARTMENT	CURRICULAR	CLASS TEST	N. Nagaraj	-	III SEM ()		

Signature of the Lecturer

Signature of the Dept., Incharge

Signature of the Principal



Annual Curricular Plans

VISVODAYA GOVT. DEGREE COLLEGE Annual Curricular Plan (Lecturer Wise) : 2020-2021

Name of the Department : Zoology

Name of the Lecturer : Dr. D. Sujatha

Month - January

Class : IIIrd B.Sc (B.Z.C) V Semester Year : 2020-2021 Paper : Animal Biotechnology (Paper V)

Month	Week	Hours Available	Syllabus Topic	Additional Input/ Value Addition Provided/ taught	Curricular Activity					Extra / Co-Curricular Activity					Remarks
					Activity Conducted	Hours Allotted	Whether Conducted	Whether Conducted	If not alternate	Activity Conducted	Hours Allotted	Whether Conducted	Whether Conducted	If not alternate	
January 2022	1 st	T P 3+2	Fermentation - types / Submerged Continuous stirred tank Reactor Fixed Bed and Fluidized		Assignment 100-⑤	1	Yes				Field Trip	1 Day	Yes		
January 2022	2 nd	T P 3+2	Downstream Processing - Filtration Centrifugation, extraction, spray drying chromatography and lyophilization		Internal Exam-②	1	Yes				lab cleaning	1 hours	Yes		
January 2022	3 rd	T P 3+2	Agriculture Bioreactors - Monoculture Poly productivity, DNA fingerprinting		Pre final Exam Medal Function Exam	3	Yes								
January 2022	4 th	T P 3+2	Revision of the syllabus												
January 2022	5 th														

D. Sujatha
Signature of the Lecturer

D. Sujatha
Signature of the Department In Charge

[Signature]
Signature of the Principal

VISVODAYA GOVT. DEGREE COLLEGE Annual Curricular Plan (Lecturer Wise) : 2020-2021

Name of the Department : PHYSICS

Name of the Lecturer : N. Nagaraj

Class : III B.Sc (MPC); V SEM Year : 2020-2021 Paper : VI (MODERN PHYSICS)

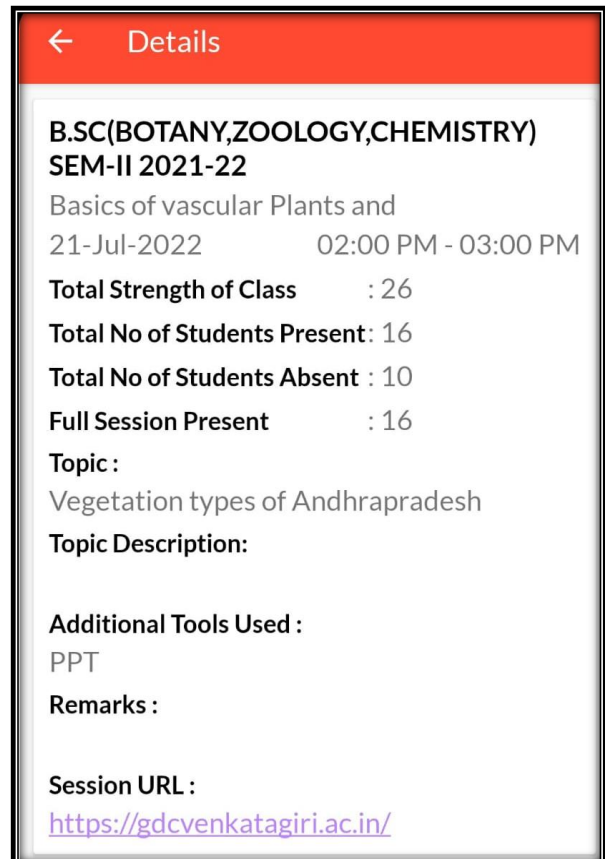
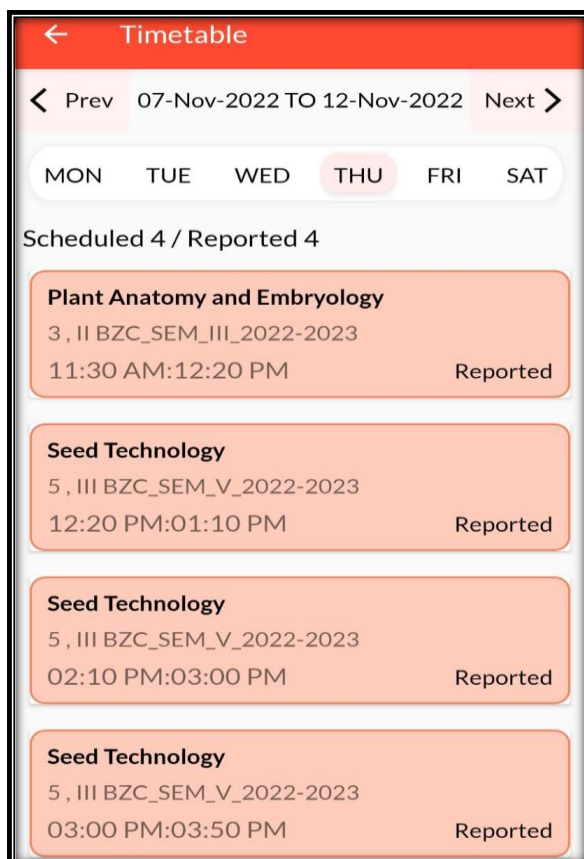
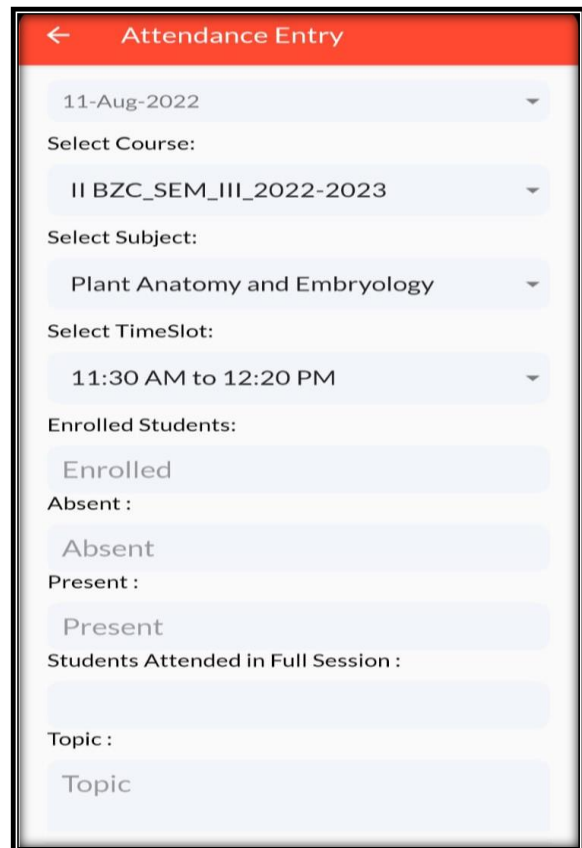
Month	Week	Hours Available	Syllabus Topic	Additional Input/ Value Addition Provided/ taught	Curricular Activity					Co-Curricular Activity					Remarks
					Activity Conducted	Hours Allotted	Whether Conducted	Whether Conducted	If not alternate	Activity Conducted	Hours Allotted	Whether Conducted	Whether Conducted	If not alternate	
OCTOBER	1	-													
	2	3(T) 2(P)	UNIT-1 :- Bohr's atomic model - Sommerfeld elliptical orbits - veblen atom model -	Structure of an atom.	Teaching	02	Yes								
	3	4(T) 2(P)	Stern-Gerlach experiment - Quantum numbers associated with it - L-S & J-J coupling Zeeman effect		Teaching	03	Yes			Class test	01	Yes	Yes		
	4	4(T) 2(P)	Raman effect - Quantum theory of Raman effect - Sp. arrangement - Applications of Raman effect.	About Matter.	Teaching	04	Yes								
	5	4(T) 2(P)	UNIT-2 :- Matter waves, de Broglie hypothesis - Properties of matter waves - Davisson & Germer exp.,		Teaching	05	Yes			STUDENT SETTING	01	Yes			

[Signature]
Signature of the Lecturer

[Signature]
Signature of the Department In Charge

[Signature]
Signature of the Principal

Usage of Teaching – Learning Process (TLP) Mobile App for reporting of curriculum transactions.



Teaching diaries

VISVODAYA GOVT. DEGREE COLLEGE, VENKATAGIRI. Teaching Diary : 2020-2021

Month - January 2022

Name of the Department / Subject: Zoology

Name of the Lecturer: Dr. D. Sujatha

S. No	Day	Date	Period/Time	Class	Medium	Theory/Practical	Topic Covered	Methodology Adopted	No. of Students Attended	Teaching Adis used	Students Activity Conducted	Remarks	
19	Wed	19/1/22	1 10:00-11:00	V Sem	ENRTH	Theory	Reproductive Technologies	Lecture	15	Blackboard	Pr. Questions		
			2 11:00-12:00				class preparation						
			3 12:00-1:00	III LSc-1	ENRTH	Theory	Health and Hygiene. (NDCs & BSc)	Lecture	12	Blackboard	Pr. Questions		
			4 2:00-3:00										
20	Thu	20/1/22	1 10:00-11:00	V Sem	ENRTH	Theory	Complementary & Supplementary genes	Lecture	11	Blackboard	Pr. Questions		
			2 11:00-12:00	V Sem	ENRTH	Theory	Embryo transfer	Lecture	14	Blackboard	Pr. Questions		
			3 12:00-1:00										
			4 2:00-3:00										
21	Fri	21/1/22	1 10:00-11:00	III Sem	ENRTH	Theory	Dominant epistasis & recessive epistasis	Lecture	8	Blackboard	Pr. Questions		
			2 11:00-12:00	V Sem	ENRTH	Theory	Embryo transfer and embryo cloning	Lecture	17	Black	Pr. Questions		
			3 2:00-3:00										
			4 3:00-5:00				Lab work. Solution preparation (P-Bmmldohyde)						

D. Sujatha
Signature of the Lecturer

D. Sujatha
Signature of the Department In Charge

R. Anu
Signature of the Principal

VISVODAYA GOVT. DEGREE COLLEGE, VENKATAGIRI. Teaching Diary : 2021-2022

Name of the Department / Subject: PHYSICS

Name of the Lecturer: N. Nagari

S. No	Day	Date	Period/Time	Class	Medium	Theory/Practical	Topic Covered	Methodology Adopted	No. of Students Attended	Teaching Adis used	Students Activity Conducted	Remarks
1	TUE	01-02	I				preparation for class work.					
			II	II BSc	TEL & ENR	Theory	Adiabatic demagnetization / Liquification of helium.	Teaching Quizzing	02	Computer		
			III	III BSc	TEL & ENR	Theory	Interaction with students on exam pattern.	Interaction	03	Board		
			IV & V				preparation for class work.					
2	WED	02-02	I				preparation of 1 st criteria for NAAC.					
			II	II BSc	TEL & ENR	Theory	preparation for class work.	Teaching Quizzing	05	Board.		
			III				Revision on Matter waves					
			IV	II BSc	TEL & ENR	Theory	Liquification of helium	Teaching Quizzing	03	Computer		
3	THU	03-02	I				preparation of evidences for 2 nd criteria.					
			II	II BSc	TEL & ENR	Theory	preparation for class work	Teaching Quizzing	03	-		
			III	II BSc	TEL & ENR	Theory	Exam on Heisenberg effect	Teaching Quizzing	04	Computer		
			IV				Principle of Refrigeration, effect of CFCs on ozone layer, applications of IR by NAAC					
			V & VI				Read work for NAAC.					

N. Nagari
Signature of the Lecturer

N. Nagari
Signature of the Department In Charge

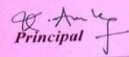
R. Anu
Signature of the Principal

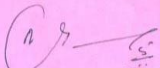
Teaching plans & Synopsis

VISVODAYA GOVT. DEGREE COLLEGE
NAAC 'B' grade
(Affiliated to Vikrama Simhapuri University, Nellore)
VENKATAGIRI - 524 132, S.P.S.R. Nellore Dt., A.P
ACADEMIC YEAR 2021-2022

TEACHING PLAN

DEPARTMENT	PHYSICS
NAME OF THE LECTURER / READER	N. NAGARAJ
QUALIFICATIONS	M.Sc. M.Phil.,
DESIGNATION	LECTURER


 Principal


 Signature of the Lecturer / Reader

Commissionerate of Collegiate Education, A.P.
Teaching Plan

Name of the Department/Subject	Physics
Name of the Lecturer	N. Nagaraj
Course/Group	II B.Sc (MPCs)
Paper	SEM-IV (Thermodynamics)
Name of the topic	Kinetic theory of gases
Hours required	10
Learning objectives	Postulates of kinetic theory of gases, Maxwell's law of molecular speeds, Transport phenomenon.
Previous knowledge to be remembered	Average velocity, rms velocity

Topic Synopsis:


The kinetic theory of gases is a historically significant, but simple model of the thermodynamic behavior of gases with which many principal concepts of thermodynamics were established. The model describes a gas as a large number of identical submicroscopic particles (atoms or molecules), all of which are in constant, rapid, random motion. Their size is assumed to be much smaller than the average distance between the particles. The particles undergo random elastic collisions between themselves and with the enclosing walls of the container. The basic version of the model describes the ideal gas, and considers no other interactions between the particles and, thus, the nature of kinetic energy transfers during collisions is strictly thermal.


The kinetic theory of gases explains the macroscopic properties of gases, such as volume, pressure, and temperature, as well as transport properties such as viscosity, thermal conductivity and mass diffusivity. The model also accounts for related phenomena, such as Brownian motion.


The theory for ideal gases makes the following assumptions:

- The gas consists of very small particles known as molecules. This smallness of their size is such that the total volume of the individual gas molecules added up is negligible compared to the volume of the smallest open ball containing all the molecules. This is equivalent to stating that the average distance separating the gas particles is large compared to their size.
- These particles have the same mass.
- The number of molecules is so large that statistical treatment can be applied.
- The rapidly moving particles constantly collide among themselves and with the walls of the container. All these collisions are perfectly elastic. This means the molecules are considered to be perfectly spherical in shape and elastic in nature.
- Except during collisions, the interactions among molecules are negligible. (That is, they exert no forces on one another.)

Examples/Illustrations	Given
Additional inputs	Viscosity, conduction, diffusion
Teaching aids used	Black board
References cited	Academy, Unified Physics and Vikas text books.
Student activity planned after the teaching	Class tests, Seminars
Activity planned outside the class room, if any	Assignments
Any other activity	Quiz/Group discussion



 Lecturer


 Department Head


 Principal

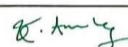
VISVODAYA GOVT. DEGREE COLLEGE, VENKATAGIRI
Teaching Plan & Synopsis

Name of the Department / Subject : Zoology	
Name of the Lecturer : Dr. D. Sujatha	
Course / Group : II B.Sc (BZC) Semester V	
Paper : Paper V Animal Biotechnology	
Name of the Topic :	Fermentation, Different types of Fermentation
Hours required :	3 hours
Learning Objectives :	Submerged & Solid state, Fed batch
Previous knowledge to be reminded :	Fermentation
Topic Synopsis	<p style="text-align: center;">(Continue on the reverse side if needed)</p> <p>→ Fermentation is the process involving the biochemical activity of organisms during their growth, development, reproduction even senescence and death.</p> <p>→ Fermentation technology is the use of organisms to produce food, pharmaceuticals and alcoholic beverages on a large scale industrial base.</p>
Examples / Illustrations :	Industrial Fermentation
Additional inputs :	Upstream processing
Teaching Aids used :	Black Board, digital Board
References cited :	Vivek (ET) Animal Biotechnology text Book.
Student Activity planned after the Teaching :	Put questions
Activity planned outside the Class room, if any :	to know the different types of Fermentation
Any other activity :	To observe the mechanism of Fermentation

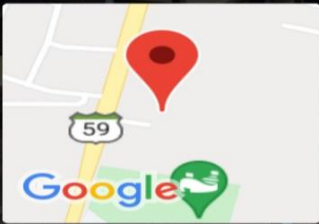

 D. Sujatha
 Signature of the Lecturer

VISVODAYA GOVT. DEGREE COLLEGE, VENKATAGIRI
Teaching Plan & Synopsis

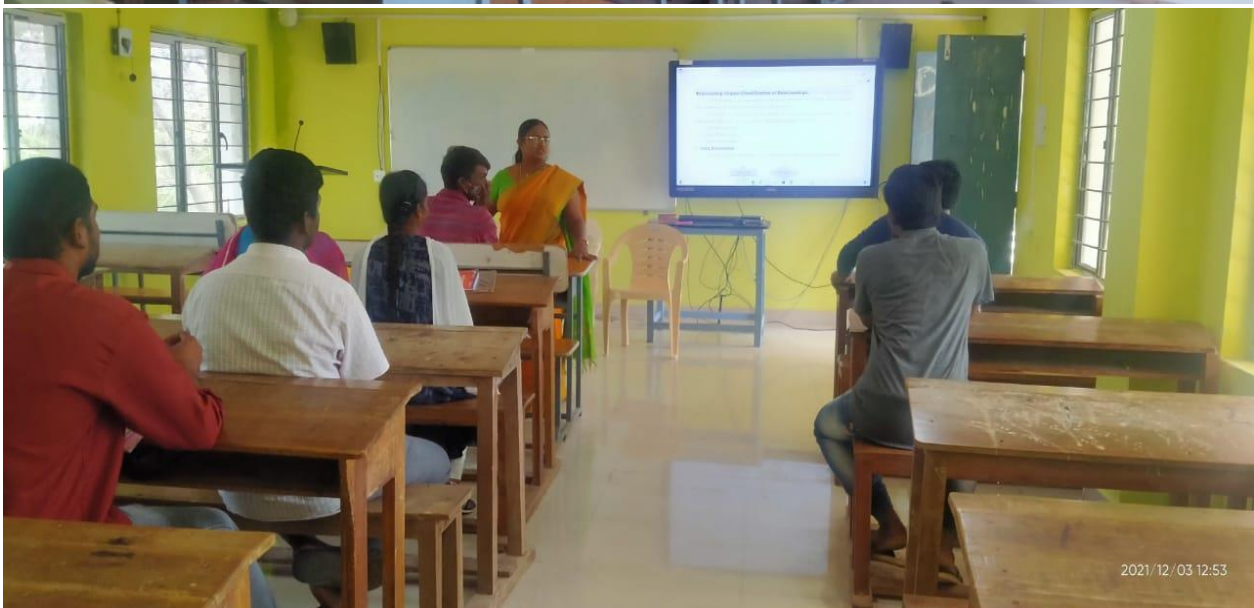
Unit - (1)	
Name of the Department / Subject : Zoology	
Name of the Lecturer : Dr. D. Sujatha	
Course / Group : II B.Sc (BZC) Semester V	
Paper : Paper V Animal Biotechnology	
Name of the Topic :	Transgenic animals
Hours required :	2
Learning Objectives :	Transgenic fish, transgenic goat
Previous knowledge to be reminded :	Growth hormone, recombinant protein
Topic Synopsis	<p style="text-align: center;">(Continue on the reverse side if needed)</p> <p>Transgenic Goat: The sheep the first transgenic animal was used to produce a recombinant protein drug in her milk. Based on this technique Novartis Biotechnology transferred the silk gene from spiders into goat. The resulting milk goats were to spin silk producing transgenic goats.</p>
Examples / Illustrations :	Transgenic organisms Transgenesis
Additional inputs :	ethical issues, Advantages of
Teaching Aids used :	Black Board, digital Board
References cited :	Vivek (ET) Animal Biotechnology text Book.
Student Activity planned after the Teaching :	Put questions
Activity planned outside the Class room, if any :	to observe transgenic animals
Any other activity :	to practice diagrams


 D. Sujatha
 Signature of the Lecturer

ICT Enabled Teaching



Venkatagiri, Andhra Pradesh, India
WHVV+76Q, Teachers Colony, Venkatagiri, Andhra Pradesh 524132, India
Lat 13.942172°
Long 79.593848°
24/11/21 12:10 PM



2021/12/03 12:53

Learning by Doing



25-Jan-2022 at 3:00:31 PM
N4565
Sri Potti Srinani Nellore

Field visits

Botany department field visit to Jayaramaiah nursery



Zoology department field visit to Swarna Milk dairy



Physics department Educational tour to Regional Science Centre



History department field visit to Mahabalipuram



Student seminars

Monohybrid cross

Parental: Tall (TT) × Dwarf (tt)

F₁ generation: Tall (Tt) × Tall (Tt)

F₂ generation: Tall (TT), Tall (Tt), Tall (Tt), Dwarf (tt)

F₃ generation: Tall (TT), Tall (Tt), Tall (Tt), Dwarf (tt)

Figure 16-1 Monohybrid cross

GPS Map Camera

Venkatagiri, Andhra Pradesh, India
Kanigiri - Tirupathi Rd, Venkatagiri, Andhra Pradesh
524132, India
Lat 13.942168°
Long 79.593889°
30/12/21 03:43 PM



GPS Map Camera

Venkatagiri, Andhra Pradesh, India
WHRV+QF7, Kanigiri - Tirupathi Rd, Venkatagiri, Andhra Pradesh
524132, India
Lat 13.941658°
Long 79.594235°
21/06/22 04:07 PM

Student Quiz programmes



Group discussions



Online assessment through Google forms

The screenshot shows a Google Form interface for an online assessment. The form title is "Second Semester Second Internal Exam". It includes a "Form description" section with an "Email" field for contact information. Below this is a question titled "Name of the student" with a "Short answer" response type. The question is marked as "Required" and has "0 points" assigned. The question text in Telugu is "Ylang - Ylang oil is obtained from (య్హొంగ్ - య్హొంగ్ నూనె/ జైలం ఈ మొక్క నుండి లభిస్తుంది *". The interface also shows navigation tabs for "Questions", "Responses" (with a count of 20), and "Settings", along with a "Send" button and a "Total points: 25" indicator.



Dr. Anup
PRINCIPAL
Visvodaya Govt. Degree College
Venkatagiri - 524132
Tirupati Dt. A.P.