

GOVT. COLLEGE FOR WOMEN (AUTONOMOUS) GUNTUR



DEPARTMENT OF ENGLISH

CURRICULAR PLANS OF DR. K. PADMAJA FOR 2021-2022

COMMUNICATIVE ENGLISH SEM.1, 3&5

**Government College for Women, Guntur:**  
**Curricular Plan – Lecturer-Wise ( Communicative English Semester 1 )**

English  
: Dr. K. Padmaja

Month : December 2021

Sl. No.	Class	Syllabus Topic	Additional Input / Value Addition	Curricular Activity					Co-Curricular Activity				Remarks	
				Activity	Hours allotted	Whether conducted	If not. alternate date	Activity	Hours allotted	Whether conducted	If not. alternate date			
4	ICE (sem 1)	Introductory week, timetable, syllabus, model paper discussion, Academic Calendar Course Outcomes, Bridge course		Timetable, outcomes, Bridge course-3 topics	1+3	Yes	-							
4	ICE (sem 1)	Bridge course, Animal and Human Communication,		Bridge course-3 topics Features of animal and human communication	3+1	Yes	-							
5	ICE (sem 1)	Theories of origins of Language Aspects of Language	Role of archeology and ethnography in tracing the origins of language	Lecture presentation	2	Yes	-	Question and answer and eliciting	2	Yes	--			
2	ICE (sem 1)	Language Functions		Lecture presentation	2	Yes	-							
4	ICE (sem 1)	Language Functions		Worksheet on different functions	1	Yes	-	Speaking, fill in the blanks and matching	3	Yes	-			

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Dr. K. Padmaja  
Lecturer

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GOVT. COLLEGE FOR WOMEN (A)  
GUNTUR.

**Government College for Women, Guntur:**  
**Curricular Plan – Lecturer-Wise ( Communicative English Semester 1 )**

Department : English  
 Name of the Lecturer : Dr.K.Padmaja

Month : Jan 2022

Sl. No.	Week	Days	Hours	Class	Syllabus Topic	Additional Input / Value Addition	Curricular Activity				Co-Curricular Activity			
							Activity	Hours allotted	Whether conducted	alter nate date	Activity	Hour s	Whether conducted	If not. altern ate date
1	Jan 1st week	1	1	ICE (sem 1)	Phonology		Identification of phoneme in a language	1	yes	-	-	-	-	-
2	2nd week	3	1	ICE (sem 1)	Phonology	Telugu phonemic system	Distinction of phoneme And allophones	2	yes	-	Minimal pair game	1	yes	--
3	3rd week	1	1	ICE (sem 1)	Speech mechanism- organs of speech		Video and picture presentation	1	yes	-	-	-	-	-
4	4th week	5	1	ICE (sem 1)	Place of articulation		Video and picture presentation	2	yes	-	Identificati on and naming for all consonant s	3	yes	-
5	5th week	4	1	ICE (sem 1)	manner of articulation		Video and picture presentation	2	yes	-	Identificati on of stricture in consonant s	2	yes	-

*K.Padmaja*  
 Signature of Lecturer

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*V.R. Praveen Kumar*  
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**Government College for Women, Guntur:**  
**Curricular Plan – Lecturer-Wise ( Communicative English Semester 1 )**

Subject : English  
 Lecturer : Dr.K.Padmaja

Month : Feb-2022

Sl. No.	Lecturer	Class	Syllabus Topic	Additional Input / Value Addition	Curricular Activity				Co-Curricular Activity			Remarks
					Activity	Hours allotted	Whether conducted	alternate date	Activity	Hours	Whether conducted	
1	Dr.K.Padmaja	I CE (sem 1)	Vowels and consonants of English	Vowels and consonants of Telegu	Flash card activity for identification	2	-	-	Symbol writing	2	-	-
1	Dr.K.Padmaja	I CE (sem 1)	Aspects of listening, Barriers to listening		Lecture presentation	1	-	-	Practical listening activities	2		
1	Dr.K.Padmaja	I CE (sem 1)	Traits of a good listener, Listening types- purposeful listening bottom up listening		Lecture presentation	2	-	-	Practical listening activities	3		
1	Dr.K.Padmaja	I CE (sem 1)	Habits of good readers, reading skills and strategies		Lecture presentation	1	-	-	Practical reading activities	4		
1	Dr.K.Padmaja	I CE (sem 1)	reading for pleasure		-	-	-	Practical activity	1			

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**Government College for Women, Guntur:**  
**Curricular Plan – Lecturer-Wise ( Communicative English Semester 3 )**

Department : English  
 Name of the Lecturer : Dr. K.Padmaja

Month : December 2021

Month & Week	Hours Available	Class Papers	Syllabus Topic	Additional Input / Value Addition	Curricular Activity				Co-Curricular Activity				
					Activity	Hours allotted	Whether conducted	If not, alternate date	Activity	Hours allotted	Whether conducted	If not, alternate date	
Dec. 1st week	4	II CE (sem 3)	Introductory week, timetable, syllabus, model paper discussion, Academic Calendar Course Outcomes, Bridge course		Recap of tenses predictions	2	yes		Practice with worksheets	2			
Dec. 2nd week	4	II CE (sem 3)	Asking Questions		Structure and function of yes/no and wh questions	2	yes		Speaking and writing activities	2			
Dec. 3rd week	5	II CE (sem 3)	Linkers, Simple, Compound and Complex		Types of linkers and functions - explanation	2			Practice worksheets	3			
Dec. 4th week	2	II CE (sem 3)	Simple, Compound and Complex		Use of linkers in transforming sentences	1			Practice worksheets	1			
Dec. 5th week	4	II CE (sem 3)	Picture Description		Vocabulary and form eliciting	2			Practice worksheets	2			

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**Government College for Women, Guntur:**  
**Curricular Plan – Lecturer-Wise ( Communicative English Semester 1 )**

Department : English  
 Name of the Lecturer : Dr.K.Padmaja

Month : March 2022

Week	Hours Available	Class	Syllabus Topic	Additional Value Addition	Curricular Activity				Co-Curricular Activity		
					Activity	Hours allotted	Whether conducted	If not, alternate date	Activity	Hours allotted	Whether conducted
Mar. 1 <sup>st</sup> week	4	ICE (sem 1)	Reading for comprehension, sequencing of ideas, language functions for speaking,		lecture	1			Practical reading and speaking	3	
2 <sup>nd</sup> week	4	ICE (sem 1)	bottom-up speaking skills		lecture	1			Practical activities	3	
3 <sup>rd</sup> week	4	ICE (sem 1)	Accuracy and fluency in structure and pronunciation		lecture	2			Practical activities	2	
4 <sup>th</sup> week	5	ICE (sem 1)	Situational conversation, formal		lecture	2			Practical activities	3	
5 <sup>th</sup> week	3	ICE (sem 1)	Situational conversation, informal		lecture	1			Practical activities	2	

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**Government College for Women, Guntur:**  
**Curricular Plan – Lecturer-Wise ( Communicative English Semester 3 )**

Month : Jan 2022

Department : English  
Name of the Lecturer : Dr.K.Padmaja

S No.	Month & Week	Hours Available	Class Papers	Syllabus Topic	Additional Input / Value Addition	Curricular Activity			Co-Curricular Activity				
						Activity	Hours allotted	Whether conducted	If not, alternate date	Activity	Hours allotted	Whether conducted	
1	Jan 1 <sup>st</sup> week	1	II CE (sem 3)	Describing people and places		Vocabulary and structure elicitation for people	1						
2	2 <sup>nd</sup> week	3	II CE(sem 3)	Describing people and places		Vocabulary and structure elicitation for places	1			Workshop for describing people	2		
3	3 <sup>rd</sup> week	1	II CE(sem 3)	Describing places						Workshop for describing places	1		
4	4 <sup>th</sup> week	5	II CE(sem 3)	Narrating events and experiences		Vocabulary and structure elicitation for narration of events	2			Workshop for narrating events	3		
5	5 <sup>th</sup> week	4	II CE(sem 3)	Narrating events and experiences		Vocabulary and structure elicitation for narration of experiences	1			Workshop for narrating experiences	3		

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GUNTUR

Department

: English

: Dr. K. Padmaja

Month : Feb-2022

**Government College for Women, Guntur;  
Curricular Plan – Lecturer-Wise ( Communicative English Semester 3 )**

Sl. No	Week	Hours Available	Class	Syllabus Topic	Additional Input / Value Addition	Curricular Activity			Co-Curricular Activity					
						Activity	Hours allotted	Whether conducted	If not, alternate date	Activity	Hours allotted	Whether conducted	If not, alternate date	
4	3	II CE(sem 3)	Storytelling and JAM		Vocabulary and structure elicitation for story telling and Rubric for JAM	1				Worksheet for story telling Speaking and story telling	3			
3	3	II CE(sem 3)	Presentation skills		Tips and ideas for presentation	1				Worksheet and presentation	2			
5	3	II CE(sem 3)	Group discussion		Case study for features of GD	1				Worksheet for language structure in GD and Sample GD	4			
5	3	II CE(sem 3)	Note making		Lecture explanation with samples	2				Worksheets in note making	3			
1	3	II CE(sem 3)	Writing notices and circulars		Explanation with samples	1								

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*W.R. Prasad*  
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**Government College for Women, Guntur:**  
**Curricular Plan – Lecturer-Wise ( Communicative English Semester 3 )**

Department : English  
Name of the Lecturer : Dr.K.Padmaja

Month : March 2022

S No.	Month & Week	Hours Available	Class		Syllabus Topic(as per the University)	Additional Input / Value Addition	Curricular Activity			Co-Curricular Activity	Hours allotted	Wh con
			Papers				Activity	Hours allotted	Whether conducted			
1	March 1 <sup>st</sup> week	4	II CE(sem 3)		Writing notices and circulars Agenda and meeting minutes	Explanation and eliciting the structure and vocabulary used in Agenda and minutes	1			Worksheets for notices and circulars, agenda and minutes	3	
2	2 <sup>nd</sup> week	4	II CE(sem 3)		Writing Advertisements	Vocabulary and form discussion	1			Worksheets in writing Ads	2	
3	3 <sup>rd</sup> week	4	II CE(sem 3)		Telephone conversations formal and informal	Explanation with samples	2			Worksheets	2	
4	4 <sup>th</sup> week	5	II CE(sem 3)		Summarizing poems Paraphrasing prose	Steps in summarising and paraphrase-explanation	2			Writing summary and paraphrase	3	
5	5 <sup>th</sup> week	3	II CE(sem 3)		Summarizing poems Paraphrasing prose	Discussion with sample summary and paraphrase				Student writing and presentation	2	

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**Government College for Women, Guntur:**  
**Curricular Plan – Lecturer-Wise ( Communicative English Semester 5, Paper 6 )**

Month : Oct 2021

Sl. No	Month & Week	Hours Available	Class Papers	Syllabus Topic	Additional Input / Value Addition	Curricular Activity			Co-Curricular Activity			Remarks		
						Activity	Hours allotted	Whether conducted	If not, alternate date	Activity	Hours allotted		Whether conducted	If not, alternate date
1	Oct. 1st week	1	III CE (sem 5, paper 6)	Theories of Second Language Acquisition		Introductory explanation	1			Summarising the theory	1			
2	2 <sup>nd</sup> week	3	III CE (sem 5, paper 6)	Behaviourism	Pavlov's experiments	Lecture explanation	2							
3	3 <sup>rd</sup> week	1	III CE (sem 5, paper 6)	Universal Grammar Theory		Lecture explanation	1			Application to ELT context by writing	2			
4	4 <sup>th</sup> week	5	III CE (sem 5, paper 6)	Moritor theory		Lecture explanation	3			Application to ELT context by writing	2			
5	5 <sup>th</sup> week	5	III CE (sem 5, paper 6)	Cognitivism – Motivation Scaffolding techniques		Lecture explanation	3							

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**Government College for Women, Guntur:**  
**Curricular Plan – Lecturer-Wise ( Communicative English Semester 5, paper 6 )**

Month : Nov-21

Sl. No.	Month & Week	Hour Available	Class Papers	Syllabus Topic	Additional Input / Value Addition	Curricular Activity				Co-Curricular Activity		
						Activity	Hours allotted	Whether conducted	If not, alternate date	Activity	Hours allotted	Whether conducted
1	Nov 1 <sup>st</sup> week	4	III CE (sem 5, paper 6)	Methods of Teaching English Audio Lingual Method	Historical perspectives on ELT	Lecture explanation	2			Application to ELT classroom through case study	2	
2	2 <sup>nd</sup> week	4	III CE (sem 5, paper 6)	Structural Approach - Grammar Translation Method		Lecture explanation	2			Application to ELT classroom through case study	3	
3	3 <sup>rd</sup> week	5	III CE (sem 5, paper 6)	Oral Approach – Situational Approach		Lecture explanation	2			Application to ELT classroom through case study	3	
4	4 <sup>th</sup> week	5	III CE (sem 5, paper 6)	Direct Method — Bilingual Method		Lecture explanation	2			Application to ELT classroom through case study	1	
5	5 <sup>th</sup> week	2	III CE (sem 5, paper 6)	Communicative Method - Eclectic Approach		Lecture explanation	1			Application to ELT classroom through case study	1	

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**Government College for Women, Guntur:**  
**Curricular Plan – Lecturer-Wise ( Communicative English Semester , paper 6 )**

Department : English

Name of the Lecturer : Dr.K.Padmaja

Month : Jan- 22

S No.	Month & Week	Hours Available	Class Papers	Syllabus Topic	Additional Input / Value Addition	Curricular Activity				Co-Curricular Activity				
						Activity	Hours allotted	Whether conducted	If not, alternate date	Activity	Hours allotted	Whether conducted	If not, alternate date	
1	Jan 1 <sup>st</sup> week	4	III CE (sem 5, paper 6)	Introduction to Testing and Evaluation Internal and External Evaluation		Lecture explanation	2			Analysis and presentation on various types of tests	2			
2	2 <sup>nd</sup> week	4	III CE (sem 5, paper 6)	Types of Tests		Sample analysis and discussion	2			Summarizing the features of Tests	2			
3	3 <sup>rd</sup> week	1	III CE (sem 5, paper 6)	Presenting the model lessons		Steps in a lesson	1			Demonstrating the lessons designed				
	4 <sup>th</sup> week	5	III CE (sem 5, paper 6)	Presenting the model lessons						Demonstrating the lessons designed	5			
	5 <sup>th</sup> week		III CE (sem 5, paper 6)	Semester end exams										

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**Government College for Women, Guntur:**  
**Curricular Plan – Lecturer-Wise ( Communicative English Semester 5, paper 6 )**

Month : Dec-21

S No.	Month & Week	Hours Available	Class Papers	Syllabus Topic	Additional Input / Value Addition	Curricular Activity			Activity	Hours allotted	If not alternate date	Co-Curricular
						Activity	Whether conducted	Activity				
1	Dec 1 <sup>st</sup> week	3	III CE (sem 5, paper 6)	Learning Styles and Multiple Intelligences		Sample analysis	1		Self application through survey and quiz	2		2
2	2 <sup>nd</sup> week	4	III CE (sem 5, paper 6)	Audio-Visual Aids		Demonstration of AIDS	2		Student presentation on their use	2		2
3	3 <sup>rd</sup> week	5	III CE (sem 5, paper 6)	Activity Based Language Teaching		Lecture explanation	2		Designing Language teaching activities	2		2
4	4 <sup>th</sup> week	2	III CE (sem 5, paper 6)	Content Vs Activities Lesson Planning and Evaluation		Lecture explanation	1		Compare and contrast	1		1
5	5 <sup>th</sup> week	4	III CE (sem 5, paper 6)	Planning Lessons for Prose, Poetry and Grammar		Study of sample lesson plans and discussion	2		Writing lesson plans	2		2

Department : English  
 Name of the Lecturer : Dr. K. Padmaja  
 Signature of Lecturer

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Government College for Women, Guntur:

Curricular Plan – Lecturer-Wise ( Communicative English & Special English Semester 6, paper 8A3)

Name of the Lecturer

: English  
: Dr.K.Padmaja

Month : April '22

Month & Week	Hours Available	Class Papers	Syllabus Topic	Additional Input / Value Addition	Curricular Activity				Co-Curricular Activity								
					Activity	Hours allotted	Whether conducted	If not, alternate date	Activity	Hours allotted	Whether conducted	If not, alternate date					
Apr 1 <sup>st</sup> week	1	III CE&SE (sem 6, paper A3)	Researching for project		Finalizing the topic and title	1											
2 <sup>nd</sup> week	4	III CE&SE (sem 6, paper A3)	Topic Finalisation, primary sources		Selection of primary sources	1				Reading and making notes	3						
3 <sup>rd</sup> week	3	III CE&SE (sem 6, paper A3)	Secondary sources		Selection of secondary sources	1				Making notes	2						
4 <sup>th</sup> week	5	III CE&SE (sem 6, paper A3)	Project chapter division - Draft 1		Chapter division	1				Outline draft of chapters	4						
5 <sup>th</sup> week	3	III CE&SE (sem 6, paper A3)	Project - Draft 1		Draft 1					Writing	3						

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**Government College for Women, Guntur:**  
**Curricular Plan – Lecturer-Wise ( Communicative English & Special English Semester 6, paper 8A3)**

Department : English  
 Name of the Lecturer : Dr.K.Padmaja

Month : May '22

S No.	Month & Week	Hours Available	Class Papers	Syllabus Topic	Additional Input / Value Addition	Curricular Activity				Co-Curricular Act		
						Activity	Hours allotted	Whether conducted	If not. alternate date	Activity	Hours allotted	Wh con d
1	May 1 <sup>st</sup> week	4	III CE&SE (sem 6, paper A3)	Project draft evaluation		Draft evaluation	2			Peer evaluation of draft	2	
2	2 <sup>nd</sup> week	4	III CE&SE (sem 6, paper A3)	Project Draft 2		Draft 2				Writing of the draft	4	
3	3 <sup>rd</sup> week	5	III CE&SE (sem 6, paper A3)	Project Draft 2 evaluation		Draft evaluation	2			Revision of draft	3	
4	4 <sup>th</sup> week	5	III CE&SE (sem 6, paper A3)	Project Final draft		Final draft editing	1			Revision and finalization	4	
5	5 <sup>th</sup> week	1	III CE&SE (sem 6, paper A3)	Project submission		Submission with certification	1					

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**Government College for Women, Guntur:**

**Curricular Plan – Lecturer-Wise ( Communicative English & Special English Semester 6, paper 8A3)**

Department : English  
 Name of the Lecturer : Dr. K. Padmaja

Month : Feb 2022

Sl No	Month & Week	Hours Available	Class Papers	Syllabus Topic	Additional Input / Value Addition	Curricular Activity				Co-Curricular Activity				
						Activity	Hours allotted	Whether conducted	If not, alternate date	Activity	Hours allotted	Whether conducted	If not, alternate date	
	Feb. 2 <sup>nd</sup> week	3	III CE&SE (sem 6, paper A3)	Introductory week, syllabus, outcomes, model paper		Sharing syllabus and model paper discussion of outcomes	3							
	3 <sup>rd</sup> week	5	III CE&SE (sem 6, paper A3)	Bridge course on literature and types		Teaching	3			Student presentation	2			
	4 <sup>th</sup> week	5	III CE&SE (sem 6, paper A3)	Poetry and its features for analysis		Sample analysis- features discussion	2			Analysis and appreciation of poems	3			
	5 <sup>th</sup> week	1	III CE&SE (sem 6, paper A3)	Appreciating a poem			-			Writing	1			

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**Government College for Women, Guntur:**  
**Curricular Plan – Lecturer-Wise ( Communicative English & Special English Semester 6, paper 8A3)**


Department : English  
 Name of the Lecturer : Dr.K.Padmaja

Month : March '22

S No	Month & Week	Hour Avail able	Class	Papers	Syllabus Topic	Additional Input / Value Addition	Curricular Activity			Co-Curricular Activity			
							Activity	Hours allotted	Whether conduc ed	If not, alterna te date	Activity	Hours allotted	Whether conduc ed
1	Mar. 1 <sup>st</sup> week	4	III CE&SE (sem 6, paper A3)		Introduction to Research Methodology - Approaching a Literary Text		Teaching	2			Analysis of lit text	2	
2	Mar. 2 <sup>nd</sup> week	4	III CE&SE (sem 6, paper A3)		Thesis Writing – Elements –		Teaching	2			Identificat ion	2	
3	Mar. 3 <sup>rd</sup> week	5	III CE&SE (sem 6, paper A3)		Integrity and Plagiarism – Referencing – Bibliography - MLA Style		Teaching	2			Applicatio n of the analysis	3	
4	Mar. 4 <sup>th</sup> week	5	III CE&SE (sem 6, paper A3)		Sample paper analysis		demonstration	2			Analysis	3	
5	Mar. 5 <sup>th</sup> week	3	III CE&SE (sem 6, paper A3)		Planning Project		Identifying the genre, writer and the works	1			The process	2	

  
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Department

: English

Name of the Lecturer : Dr. K. Padmaja

**Government College for Women, Guntur:**

**Curricular Plan – Lecturer-Wise ( Communicative English Semester 6, paper 7C )**

Month : Feb 2022

Month & Week	Hours Available	Class		Syllabus Topic	Additional Input / Value Addition	Curricular Activity					Co-Curricular Activity				
		Papers				Activity	Hours allotted	Whether conducted	If not alternate date	Activity	Hours allotted	Whether conducted	If not alternate date		
Feb. 2 <sup>nd</sup> week	3	III CE (sem 6, paper 7C)		Timetable, Introduction to syllabus, model paper and outcomes		Explanation	2				Discussion on outcomes	1			
3 <sup>rd</sup> week	5	III CE (sem 6, paper 7C)		What is CLT? & Introduction to Communicative Language Teaching	Comparison with other methods of ELT	Teaching	2				Jigsaw reading and class share	3			
4 <sup>th</sup> week	5	III CE (sem 6, paper 7C)		Student Centered Methods		Teaching	2				Info gap and class share	2			
5 <sup>th</sup> week	1	III CE (sem 6, paper 7C)		Teacher as a Facilitator		Explanation	1								

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GOVT. COLLEGE FOR WOMEN  
GUNTUR

Department

: English

Name of the Lecturer : Dr.K.Padmaja

Month : March '22

Government College for Women, Guntur:

Curricular Plan – Lecturer-Wise ( Communicative English Semester 6, paper 7C )

Month & Week	Hour Available	Class Papers	Syllabus Topic	Additional Input / Value Addition	Curricular Activity				Co-Curricular Activity				Remarks	
					Activity	Hours allotted	Whether conducted	If not. alternate date	Activity	Hours allotted	Whether conducted	If not. alternate date		
Mar. 1 <sup>st</sup> week	3	III CE (sem 6, paper 7C)	Developing Skills		Compare and contrast skill and knowledge	1				Analysis of LSRW activities	2			
Mar. 2 <sup>nd</sup> week	4	III CE (sem 6, paper 7C)	Classroom Management – Problems with Large Classrooms		Presentation of concept	2				Practical demonstration	2			
Mar. 3 <sup>rd</sup> week	4	III CE (sem 6, paper 7C)	Classroom Management – Solutions – Pair and Group Work		Presentation of concept	2				Practical demonstration	2			
Mar. 4 <sup>th</sup> week	5	III CE (sem 6, paper 7C)	Elicitation Techniques		Presentation of concept	2				Practical demonstration	3			
Mar. 5 <sup>th</sup> week	3	III CE (sem 6, paper 7C)	Sample lessons with focus on CR Management		Presentation of concept	1				Practical demonstration	2			

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**Government College for Women, Guntur:**  
**Curricular Plan – Lecturer-Wise ( Communicative English Semester 6, paper 7C )**

Department : English  
 Name of the Lecturer : Dr.K.Padmaja

Month : April '22

Month & Week	Hours Available	Class Papers	Syllabus Topic	Additional Input/ Value Addition	Curricular Activity				Co-Curricular Activity					
					Activity	Hours allotted	Whether conducted	If not, alternate date	Activity	Hours allotted	Whether conducted	If not, alternate date		
Apr 1 <sup>st</sup> week	1	III CE (sem 6, paper 7C)	Lesson Planning – PWP Style											
2 <sup>nd</sup> week	4	III CE (sem 6, paper 7C)	Practice Teaching with PWP plans	Blooms taxonomy	Presentatio n of concept	1				Practical demonstrat ion	2			
3 <sup>rd</sup> week	3	III CE (sem 6, paper 7C)	Practice Teaching with PWP plans		Writing plans	1				Demo teaching	2			
4 <sup>th</sup> week	5	III CE (sem 6, paper 7C)	Developing LSRW Skills – PWP – Using Authentic Materials		Explaining concept and demo of using authentic material in activities	2				Designing activities with authentic material	3			
5 <sup>th</sup> week	4	III CE (sem 6, paper 7C)	Practice Teaching using authentic material		Writing plans for using A.Mt	2				Teaching using the plans written	2			

*(Signature)*  
 Signature of Lecturer

*(Signature)*  
 Signature of the Department I/C

*(Signature)*  
 Signature of the Principal  
**GOVT. COLLEGE FOR WOMEN IN  
 GUNTUR**

Department of English

Lecturer: Dr.K.Padmaja

Government College for Women, Guntur:  
Curricular Plan – Lecturer-Wise ( Communicative English Semester 6, paper 7C )

Month : May '22

Month & week	Hours Available	Class		Syllabus Topic	Additional Input / Value Addition	Curricular Activity					Co-Curricular Activity				
		Papers				Activity	Hours allotted	Whether conducted	If not, alternate date	Activity	Hours allotted	Whether conducted	If not, alternate date		
1 week	4			Motivation, Error Correction and Giving Feedback		Explaining the concept	2				Worksheets	2			
week	4			Accuracy vs Fluency Molding Learner's autonomy		Explaining the concept	2				Worksheets	2			
week	5			Practice Teaching in SCM		Writing lesson plans for SCM and CLT	2				Teaching using the lesson plans	3			
week	5			Practice Teaching in SCM		Writing lesson plans for SCM and CLT	2				Teaching using the lesson plans	3			
week	5			Practice Teaching in SCM		Writing lesson plans for SCM and CLT	2				Teaching using the lesson plans	3			

*[Signature]*  
Signature of Lecturer

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

*[Signature]*  
PRINCIPAL  
GOVT. COLLEGE FOR WOMEN  
GUNTUR

**Government College for Women, Guntur:**  
**Curricular Plan – Lecturer-Wise ( Communicative English Semester 6, paper 8 A1 )**

Department : English  
 Name of the Lecturer : Dr. K. Padmaja

Month : Feb 2022

Month & week	Hours Available	Class Papers	Syllabus Topic	Additional Input / Value Addition	Curricular Activity				Co-Curricular Activity			
					Activity	Hours allotted	Whether conducted	If not, alternate date	Activity	Hours allotted	Whether conducted	If not, alternate date
1 <sup>st</sup> week	5	III CE (sem 6, paper A1)	Poetry as Interpretation of life-Poetry and Science		Explanation	3			Summarizing	2		
2 <sup>nd</sup> week	4	III CE (sem 6, paper A1)	Elements and Development of Poetry:		Explanation	2			Summarizing	2		
3 <sup>rd</sup> week	3	III CE (sem 6, paper A1)	Introduction to Syllabus, Q paper, Model paper, Time table and outcomes		Explanation	2			Discussion of outcomes	1		
4 <sup>th</sup> week	1	III CE (sem 6, paper A1)	Poetic truth		Explanation	1						

*K. Padmaja*  
 Signature of Lecturer

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

*K. Padmaja*  
 Signature of the Principal  
 GOVT. COLLEGE FOR WOMEN  
 GUNTUR.

DATE: 20/02/2022  
 TIME: 10:30 AM

**Government College for Women, Guntur:**  
**Curricular Plan – Lecturer-Wise ( Communicative English Semester 6, paper 8 A1 )**

Month : March '22

Sl. No	Month & Week	Hours Available	Class Papers	Syllabus Topic	Additional Input / Value Addition	Curricular Activity				Co-Curricular Activity		
						Activity	Hours allotted	Whether conducted	If not, alternate date	Activity	Hours allotted	Whether conducted
1	Mar. 1 <sup>st</sup> week	3	III CE (sem 6, paper A1)	Classification of Poetry – Study and Appreciation of Poetry with suitable examples		Explanation	2			Summarizing	1	
2	Mar. 2 <sup>nd</sup> week	5	III CE (sem 6, paper A1)	Elements and Development of Drama:		Explanation	3			Summarizing	2	
3	Mar. 3 <sup>rd</sup> week	5	III CE (sem 6, paper A1)	Drama and Human Life – Social conditions-		Explanation	3			Summarizing	2	
4	Mar. 4 <sup>th</sup> week	5	III CE (sem 6, paper A1)	Plot – Characterisation – Conflict - Divisions of Dramatic Plot –		Explanation	2			Seminar presentation	2	
5	Mar. 5 <sup>th</sup> week	4	III CE (sem 6, paper A1)	Different types of Drama with suitable examples		Explanation	2					

Department : English  
 Name of the Lecturer : Dr. K. Padmaja

*[Signature]*  
 Signature of Lecturer

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

Signature of the I/C  
**GOVT. COLLEGE FOR WOMEN, GUNTUR**

Department

: English

Name of the Lecturer

: Dr. K. Padmaja

Month : March '22

**Government College for Women, Guntur:**  
**Curricular Plan – Lecturer-Wise ( Communicative English Semester 6, paper 8 A1 )**

S No	Month & Week	Hour Available	Class Papers	Syllabus Topic	Additional Input / Value Addition	Curricular Activity			Co-Curricular Activity					
						Activity	Hours allotted	Whether conducted	If not. alternate date	Activity	Hours allotted	Whether conducted		
1	Mar. 1 <sup>st</sup> week	3	III CE (sem 6, paper A1)	Classification of Poetry – Study and Appreciation of Poetry with suitable examples		Explanation	2			Summarizing	1			
2	Mar. 2 <sup>nd</sup> week	5	III CE (sem 6, paper A1)	Elements and Development of Drama:		Explanation	3			Summarizing	2			
3	Mar. 3 <sup>rd</sup> week	5	III CE (sem 6, paper A1)	Drama and Human Life – Social conditions-		Explanation	3			Summarizing	2			
4	Mar. 4 <sup>th</sup> week	5	III CE (sem 6, paper A1)	Plot – Characterisation – Conflict - Divisions of Dramatic Plot –		Explanation	3			Summarizing	2			
5	Mar. 5 <sup>th</sup> week	4	III CE (sem 6, paper A1)	Different types of Drama with suitable examples		Explanation	2			Seminar presentation	2			

Signature of Lecturer

Signature of the Department I/C

Signature of the Principal  
 GUNTUR COLLEGE FOR WOMEN  
 GUNTUR.

Department

: English

Government College for Women, Guntur:  
Curricular Plan – Lecturer-Wise ( Communicative English Semester 6, paper 8 A1 )

Name of the lecturer

: Dr.K.Padmaja

Month : April '22

S No.	Month & Week	Hours Available	Class		Syllabus Topic	Additional Input / Value Addition	Curricular Activity				Co-Curricular Activity			
			Papers				Activity	Hours allotted	Whether conducted	If not, alternate date	Activity	Hours allotted	Whether conducted	
1	Apr 1st week	1	III CE (sem 6, paper A1)		Elements and Development of Prose:		Explanation	1						
2	2nd week	5	III CE (sem 6, paper A1)		Prose and Fiction – Diaries and Letters –		Explanation	3				Summarizing	2	
3	3rd week	3	III CE (sem 6, paper A1)		Biography – Autobiography		Explanation	2				Case study	1	
4	4th week	5	III CE (sem 6, paper A1)		Essay and Travelogue – Style with suitable examples		Explanation	3				Seminar	2	
5	5th week	4	III CE (sem 6, paper A1)		Elements and Development of Fiction:–		Explanation	2				Summarizing	2	

Signature of Lecturer

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Signature of the Principal  
PRINCIPAL  
GOVT. COLLEGE FOR WOMEN  
GUNTUR.

Department

: English

Government College for Women, Guntur:  
Curricular Plan – Lecturer-Wise ( Communicative English Semester 6, paper 8 A1 )

Name of the Lecturer

: Dr.K.Padmaja

Month : May '22

Month & Week	Hours Available	Class	Syllabus Topic	Additional Input / Value Addition	Curricular Activity				Co-Curricular Activity				
					Activity	Hours allotted	Whether conducted	If not. alternate date	Activity	Hours allotted	Whether conducted	If not. alternate date	
May 1 <sup>st</sup> week	5	III CE (sem 6, paper A1)	Elements of Fiction - Novel – Short Story		Explanation	3			Summarizing	2			
2 <sup>nd</sup> week	5	III CE (sem 6, paper A1)	Plot – Story – Characterisation – Social and Material setting		Explanation	3			Summarizing	2			
3 <sup>rd</sup> week	5	III CE (sem 6, paper A1)	Nature as character – Romance and Realism with suitable examples		Explanation	3			Summarizing	2			
4 <sup>th</sup> week	5	III CE (sem 6, paper A1)	Elements of Criticism: Nature - Use and Abuse – Functions of Criticism		Explanation	3			Reviewing a novel	2			
5 <sup>th</sup> week	2	III CE (sem 6, paper A1)	Different Approaches – History of Literary criticism with suitable examples		Explanation	1			Summarizing	1			

Signature of Lecturer



Signature of the Department I/C



PRINCIPAL  
GOVERNMENT COLLEGE FOR WOMEN (A)  
GUNTUR



**Govt. College for Women (A), Guntur**

**ANNUAL ACADAMIC CURRICULAM PLAN - 2021-22**

Name of the Lecturer : **Dr. S. Divija Devi**

Name of the Department: **Telugu**

Semester: **I – ప్రాచీన తెలుగు కవిత్వం, వ్యాకరణం**

Programme/Course: **I B.Com**

Month	Week	Hours	Syllabus/Topic	Additional Input	Curricular Activity				Co-Curricular Activity				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	co-curricular activity conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
NOVEMBER	1												
	2												
	3												
	4	2	సాఠ్యాంశాల పరిచయం	ప్రాచీన సాహిత్యం	విశ్లేషణాత్మక బోధన	2	Yes						
	5	2	ప్రశ్నాపత్ర విశ్లేషణ	ప్రాచీన సాహిత్యం	విశ్లేషణాత్మక బోధన	2	Yes						

**Govt. College for Women (A), Guntur**

**ANNUAL ACADAMIC CURRICULAM PLAN - 2021-22**

**Name of the Lecturer : Dr. S. Divija Devi**  
**Semester: I - ప్రాచీన తెలుగు కవిత్వం, వ్యాకరణం**

**Name of the Department: Telugu**  
**Programme/Course: I B.Com**

Month	Week	Hours	Syllabus/Topic	Additional Input	Curricular Activity				Co-Curricular Activity			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	co-curricular activity conducted	Hours Allotted	Whether Conducted	If not Alternate Date
DECEMBER	1	4	రాజనీతి - నన్నయ	మహాభారత పరిచయం	విశ్లేషణాత్మక బోధన	4	Yes		పద్య పఠనం	10 ని.		
	2	4	రాజనీతి - నన్నయ	ఆంధ్ర మహాభారతం	విశ్లేషణాత్మక బోధన	4	Yes		పద్య పఠనం	10 ని.		
	3	4	వ్యాకరణం - సంధులు	వ్యాకరణ పరిచయం	విశ్లేషణాత్మక బోధన	4	Yes		సంధి పదాల సేకరణ	10 ని.		
	4	4	నారద గాన మాత్సర్యం - పింగళి సూరన	కళాపూర్ణోదయం - పరిచయం	విశ్లేషణాత్మక బోధన	4	Yes		పద్య పఠనం	10 ని.		
	5	4	నారద గాన మాత్సర్యం - పింగళి సూరన	పింగళి సూరన - కల్పనా చమత్కృతి	విశ్లేషణాత్మక బోధన	4	Yes		పద్య పఠనం	10 ని.		

**Govt. College for Women (A), Guntur**

**ANNUAL ACADAMIC CURRICULAM PLAN - 2021-22**

Name of the Lecturer : **Dr. S. Divija Devi** Name of the Department: **Telugu** Semester: **I - ప్రాచీన తెలుగు కవిత్వం, వ్యాకరణం** Programme/Course: **I B.Com**

Month	Week	Hours	Syllabus/Topic	Additional Input	Curricular Activity				Co-Curricular Activity			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	co-curricular activity conducted	Hours Allotted	Whether Conducted	If not Alternate Date
JANUARY	1	1	వ్యాకరణం - సమాసాలు	భాష సమాస ప్రయోగం	విశ్లేషణాత్మక బోధన	1	Yes		సమాస పదాల సేకరణ	10 ని.		
	2	4	వ్యాకరణం - సమాసాలు	భాష సమాస ప్రయోగం	విశ్లేషణాత్మక బోధన	4	Yes		సమాస పదాల సేకరణ	10 ని.		
	3	1	ధౌమ్య ధర్మోపదేశం - తిక్కన	తిక్కన కవితా రీతులు	విశ్లేషణాత్మక బోధన	1	Yes		పద్య పఠనం	10 ని.		
	4	4	ధౌమ్య ధర్మోపదేశం - తిక్కన	తిక్కన కవితా రీతులు	విశ్లేషణాత్మక బోధన	4	Yes		పద్య పఠనం	10 ని.		
	5	4	వ్యాకరణం - ఛందస్సు	పద్య రచన - ఛందో ప్రాముఖ్యం	విశ్లేషణాత్మక బోధన	4	Yes		Seminar	1 గం.		
	6	1	పల్నాటి బెబ్బులి - శ్రీనాథుడు	శ్రీనాథుని కవితా వైభవం	విశ్లేషణాత్మక బోధన	1	Yes		పద్య పఠనం	10 ని.		

**Govt. College for Women (A), Guntur**

**ANNUAL ACADAMIC CURRICULAM PLAN - 2021-22**

Name of the Lecturer : **Dr. S. Divija Devi** Name of the Department: **Telugu** Semester: **I** – ప్రాచీన తెలుగు కవిత్వం-వ్యాకరణం Programme/Course: **I B.Com**

Month	Week	Hours	Syllabus/Topic	Additional Input	Curricular Activity				Co-Curricular Activity			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	co-curricular activity conducted	Hours Allotted	Whether Conducted	If not Alternate Date
FEBRUARY	1	4	పల్నాటి బెబ్బులి - శ్రీనాథుడు	శ్రీనాథుని కవితా వైభవం	విశ్లేషణాత్మక బోధన	4	Yes		పద్య పఠనం	10 ని.	Yes	
	2	4	సీతారావణ సంవాదం- మొల్ల	మొల్ల రామాయణం	విశ్లేషణాత్మక బోధన	4	Yes		పద్య పఠనం	10 ని.	Yes	
	3	1	సీతారావణ సంవాదం- మొల్ల	మొల్ల రామాయణం	విశ్లేషణాత్మక బోధన	1	Yes		పద్య పఠనం	10 ని.	Yes	
	4	4	వ్యాకరణం - అలంకారాలు	కావ్యాలు - అలంకారాలు	విశ్లేషణాత్మక బోధన	4	Yes		రోజువారి జీవితంలో అలంకారాల వాడుక	10 ని.	Yes	
	5	1	వ్యాకరణం - అలంకారాలు	కావ్యాలు - అలంకారాలు	విశ్లేషణాత్మక బోధన	1	Yes		రోజువారి జీవితంలో అలంకారాల వాడుక	10 ని.	Yes	

**Govt. College for Women (A), Guntur**  
**ANNUAL ACADAMIC CURRICULAM PLAN - 2021-22**

Name of the Lecturer : **Dr. S. Divija Devi** Name of the Department: **Telugu** Semester: **I - ప్రాచీన తెలుగు కవిత్వం, వ్యాకరణం** Programme/Course: **I B.Com**

Month	Week	Hours	Syllabus/Topic	Additional Input	Curricular Activity				Co-Curricular Activity			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	co-curricular activity conducted	Hours Allotted	Whether Conducted	If not Alternate Date
MARCH	1	4	వ్యాకరణం	సాహిత్యం - వ్యాకరణం	విశ్లేషణాత్మక బోధన	4	Yes		వ్యాకరణాంశాల సేకరణ	10 ని.	Yes	
	2	4	వ్యాకరణం	భాష - వ్యాకరణం	విశ్లేషణాత్మక బోధన	4	Yes		వ్యాకరణాంశాల సేకరణ	10 ని.	Yes	
	3	4	పునశ్చరణ			4	Yes					
	4	4	పునశ్చరణ			4	Yes					
	5	4				4	Yes					



**Govt. College for Women (A), Guntur**  
**ANNUAL ACADAMIC CURRICULAM PLAN - 2021-22**

Name of the Lecturer : **Dr. S. Divija Devi**

Name of the Department: **Telugu**

Semester: **II - ఆధునిక తెలుగు సాహిత్యం**

Programme/Course: **I B.Sc**

Month	Week	Hours	Syllabus/Topic	Additional Input	Curricular Activity				Co-Curricular Activity				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	co-curricular activity conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
August	1		Offline Classes From 23.08.2021										
	2												
	3												
	4	4	పాఠ్యాంశాల పరిచయం ప్రశ్నోత్తర విశ్లేషణ		విశ్లేషణాత్మక బోధన	4	Yes						
	5	2	ఆధునిక కవిత్వం పరిచయం		విశ్లేషణాత్మక బోధన	2	Yes						

**Govt. College for Women (A), Guntur**  
**ANNUAL ACADAMIC CURRICULAM PLAN - 2021-22**

Name of the Lecturer : **Dr. S. Divija Devi** Name of the Department: **Telugu** Semester: **II - ఆధునిక తెలుగు సాహిత్యం** Programme/Course: **I B.Sc**

Month	Week	Hours	Syllabus/Topic	Additional Input	Curricular Activity				Co-Curricular Activity			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	co-curricular activity conducted	Hours Allotted	Whether Conducted	If not Alternate Date
September	1	2	ఆధునిక కవిత్వం పరిచయం	ఆధునిక కవుల పరిచయం	విశ్లేషణాత్మక బోధన	2	Yes		కవితా పఠనం	10 ని.	Yes	
	2	4	కొండవీడు - దువ్వూరి రామిరెడ్డి మాతృ సంగీతం - బండారు ప్రసాద మూర్తి	చారిత్రక కావ్యాల పరిచయం	విశ్లేషణాత్మక బోధన	4	Yes		కవితా పఠనం	10 ని.	Yes	
	3	4	తాతకో నూలుపోగు తెలుగు కథానిక పరిచయం	కవిత్వం -నిజజీవితం	విశ్లేషణాత్మక బోధన	4	Yes		కవితా పఠనం	10 ని.	Yes	
	4	4	తెలుగు కథానిక పరిచయం భయం - కథ - కాళీపట్నం రామారావు	కావ్యాల్లో కథానికలు	విశ్లేషణాత్మక బోధన	4	Yes		కవితా పఠనం	10 ని.	Yes	
	5	4	స్వేదం ఖరీదు - రెంటాల నాగేశ్వర రావు తెలుగు నవల పరిచయం	తెలుగు నవల రచయితలు	విశ్లేషణాత్మక బోధన	4	Yes		కవితా పఠనం	10 ని.	Yes	

**Govt. College for Women (A), Guntur**  
**ANNUAL ACADAMIC CURRICULAM PLAN - 2021-22**

Name of the Lecturer : **Dr. S. Divija Devi** Name of the Department: **Telugu** Semester: **II – ఆధునిక తెలుగు సాహిత్యం** Programme/Course: **I B.Sc**

Month	Week	Hours	Syllabus/Topic	Additional Input	Curricular Activity				Co-Curricular Activity			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	co-curricular activity conducted	Hours Allotted	Whether Conducted	If not Alternate Date
October	1	1	రథ చక్రాలు - నవల మహీధర రామోహన రావు	నవలా పరిచయం	విశ్లేషణాత్మక బోధన	1	Yes		నవలా పఠనం	10 ని.	Yes	
	2	4	రథచక్రాలు నవల - సమీక్షా వ్యాసం-డా. యల్లాప్రగడ మల్లికార్జున రావు.	సమీక్షలు రాసే పద్ధతి	విశ్లేషణాత్మక బోధన	4	Yes		నవలా పఠనం	10 ని.	Yes	
	3	1	తెలుగు నాటకం-పరిచయం	నాటకాల చరిత్ర	విశ్లేషణాత్మక బోధన	1	Yes		నవలా పఠనం	10 ని.	Yes	
	4	4	యక్షగాణము అపురూప కళారూపాల విధ్వంస దృశ్యం - యక్షగానం - డా. కందిమళ్ళ సాంబశివరావు	యక్షగాణము- చరిత్ర	విశ్లేషణాత్మక బోధన	4	Yes		నవలా పఠనం	10 ని.	Yes	
	5	4	తెలుగు సాహిత్య విమర్శ	విమర్శ - పద్ధతులు	విశ్లేషణాత్మక బోధన	4	Yes		నవలా పఠనం	10 ని.	Yes	



**Govt. College for Women (A), Guntur**

**ANNUAL ACADAMIC CURRICULAM PLAN - 2021-22**

**Name of the Lecturer : Dr. S. Divija Devi**

**Name of the Department: Telugu**

**Semester: III – ఆధునిక తెలుగు సాహిత్యం**

**Programme/Course: II B.Com, B.Sc**

Month	Week	Hours	Syllabus/Topic	Additional Input	Curricular Activity				Co-Curricular Activity			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	co-curricular activity conducted	Hours Allotted	Whether Conducted	If not Alternate Date
NOVEMBER	1											
	2											
	3											
	4	4	పాఠ్యాంశాల పరిచయం ప్రశ్నాపత్ర విశ్లేషణ	ప్రాచీన తెలుగు సాహిత్యం	విశ్లేషణాత్మక బోధన	2 2	Yes			10 ని.	Yes	
	5	2	వ్యక్తీకరణ నైపుణ్యాలు- భాష ప్రాథమికాంశాలు	ఆధునిక తెలుగు సాహిత్యం	విశ్లేషణాత్మక బోధన	2	Yes			10 ని.	Yes	

**Govt. College for Women (A), Guntur**

**ANNUAL ACADAMIC CURRICULAM PLAN - 2021-22**

Name of the Lecturer : **Dr. S. Divija Devi** Name of the Department: **Telugu** Semester: **III – ఆధునిక తెలుగు సాహిత్యం**

Programme/Course: **II B.Com,B.Sc**

Month	Week	Hours	Syllabus/Topic	Additional Input	Curricular Activity				Co-Curricular Activity			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	co-curricular activity conducted	Hours Allotted	Whether Conducted	If not Alternate Date
DECEMBER	1	1	భాష- ప్రాథమికాంశాలు	భాష ఆవిర్భావం	విశ్లేషణాత్మక బోధన	1	Yes		అన్య భాషా పదాల సేకరణ	10 ని.	Yes	
	2	4	భాషనిర్వచనం-లక్షణాలు	భాష వికాసం	విశ్లేషణాత్మక బోధన	4	Yes		అన్య భాషా పదాల సేకరణ	10 ని.	Yes	
	3	1	వాక్య లక్షణాలు	భాష - అక్షరాలు	విశ్లేషణాత్మక బోధన	1	Yes		అన్య భాషా పదాల సేకరణ	10 ని.	Yes	
	4	4	కవితా రచన	భాష - పదాలు	విశ్లేషణాత్మక బోధన	4	Yes		అన్య భాషా పదాల సేకరణ	10 ని.	Yes	
	5	4	కథా రచన వ్యాస రచన	పద ప్రయోగం	విశ్లేషణాత్మక బోధన	4	Yes		Seminar	1 గం.	Yes	

Govt. College for Women (A), Guntur

ANNUAL ACADAMIC CURRICULAM PLAN - 2021-22

Name of the Lecturer : Dr. S. Divija Devi Name of the Department: Telugu Semester: III – ఆధునిక తెలుగు సాహిత్యం

Programme/Course: II B.Com, B.Sc

Month	Week	Hours	Syllabus/Topic	Additional Input	Curricular Activity				Co-Curricular Activity			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	co-curricular activity conducted	Hours Allotted	Whether Conducted	If not Alternate Date
JANUARY	1	1	అనువాదం-నిర్వచనం, అనువాద పద్ధతులు	అనువాద పద్ధతి	విశ్లేషణాత్మక బోధన	1	Yes		అన్య భాషా పదాల సేకరణ	10 ని.	Yes	
	2	4	అనువాద సమస్యలు, పరిష్కారాలు	అనువాద పద్ధతి	విశ్లేషణాత్మక బోధన	4	Yes		అన్య భాషా పదాల సేకరణ	10 ని.	Yes	
	3	1	అనువదించడం	అనువాద పద్ధతి	విశ్లేషణాత్మక బోధన	1	Yes		అనువాదం	10 ని.	Yes	
	4	4	మాధ్యమాలకు రచన-1- ముద్రణా మాధ్యమం- పరిచయం, పరిధి, వికాసం.	రచనా పద్ధతి	విశ్లేషణాత్మక బోధన	4	Yes		అన్య భాషా పదాల సేకరణ	10 ని.	Yes	
	5	4	వివిధ రకాల పత్రికలు – పరిశీలన, పత్రికా భాష, శైలీ వైవిధ్యం.	పత్రికలు – భాష	విశ్లేషణాత్మక బోధన	4	Yes		Seminar	1 గం.	Yes	

Govt. College for Women (A), Guntur

ANNUAL ACADAMIC CURRICULAM PLAN - 2021-22

Name of the Lecturer : Dr. S. Divija Devi Name of the Department: Telugu Semester: III – ఆధునిక తెలుగు సాహిత్యం Programme/Course: II

B.Com, B.Sc

Month	Week	Hours	Syllabus/Topic	Additional Input	Curricular Activity				Co-Curricular Activity			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	co-curricular activity conducted	Hours Allotted	Whether Conducted	If not Alternate Date
FEBRUARY	1	4	పత్రికా రచన-వార్తా రచన, సంపాదకీయాలు, సమీక్షలు-అవగాహన	వార్తా సేకరణ	విశ్లేషణాత్మక బోధన	4	Yes		వివిధ పత్రికల పఠనం	10 ని.	Yes	
	2	4	మాధ్యమాలకు రచన-2- ప్రసార మాధ్యమాలు,	వార్తా సేకరణ	విశ్లేషణాత్మక బోధన	4	Yes		స్క్రిప్ట్ రచన పఠనం	10 ని.	Yes	
	3	1	శ్రవణ మాధ్యమాలు	మాధ్యమాలు - సమాజం	విశ్లేషణాత్మక బోధన	1	Yes		రేడియో స్క్రిప్ట్ పఠనం	10 ని.	Yes	
	4	4	శ్రవణ మాధ్యమాలు / దృశ్య మాధ్యమాలు	మాధ్యమాలు - సమాజం	విశ్లేషణాత్మక బోధన	4	Yes		సీరియల్ స్క్రిప్ట్ పఠనం	10 ని.	Yes	
	5	1	దృశ్య మాధ్యమాలు	మాధ్యమాలు - సమాజం	విశ్లేషణాత్మక బోధన	1	Yes		సీరియల్ స్క్రిప్ట్ పఠనం	10 ని.	Yes	





**Govt. College for Women (A), Guntur**

**ANNUAL ACADAMIC CURRICULAR PLAN - 2021-22**

Name of the Lecturer : **Dr. S. Divija Devi**

Name of the Department: **Telugu**

Semester: **V – భాషాశాస్త్రం** Programme/Course: **III B.A**

S.No& Month	Week	Hours	Syllabus/Topic	Additional Input	Curricular Activity				Co-Curricular Activity			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	co-curricular activity conducted	Hours Allotted	Whether Conducted	If not Alternate Date
SEPTEMBER	1	5	మాండలికాలు - రకాలు	వివిధ ప్రాంతాలు - మాండలిక పద ప్రయోగాలు	విశ్లేషణాత్మక బోధన	5	Yes		మాండలిక పదాల సేకరణ	10 ని.	Yes	
	2	4	మాండలికాలు - రకాలు	మధ్య మాండలికం	విశ్లేషణాత్మక బోధన	4	Yes		మాండలిక పదాల సేకరణ	10 ని.	Yes	
	3	5	మాండలికాలు - రకాలు	ఉత్తర మాండలికం	విశ్లేషణాత్మక బోధన	5	Yes		మాండలిక పదాల సేకరణ	10 ని.	Yes	
	4	5	మాండలికాలు - రకాలు	దక్షిణ మాండలికం	విశ్లేషణాత్మక బోధన	5	Yes		మాండలిక పదాల సేకరణ	10 ని.	Yes	
	5	4	తెలుగు-తెనుగు-ఆంధ్రము పుట్టుపూర్వోత్తరాలు	అచ్చ తెలుగు పదాల వివరణ	విశ్లేషణాత్మక బోధన	4	Yes		ద్రావిడ భాషా పదాల సేకరణ	10 ని.	Yes	

**Govt. College for Women (A), Guntur**

**ANNUAL ACADAMIC CURRICULAR PLAN - 2021-22**

**Name of the Lecturer : Dr. S. Divija Devi Name of the Department: Telugu Semester: V – భాషాశాస్త్రం Programme/Course: III B.A**

S.No& Month	Week	Hours	Syllabus/Topic	Additional Input	Curricular Activity				Co-Curricular Activity			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	co-curricular activity conducted	Hours Allotted	Whether Conducted	If not Alternate Date
OCTOBER	1	1	తెలుగు-తెనుగు-ఆంధ్రము పుట్టుపూర్వోత్తరాలు	అచ్చ తెలుగు పదాల వివరణ	విశ్లేషణాత్మక బోధన	1	Yes		ద్రావిడ భాషా పదాలసేకరణ	10 ని.	Yes	
	2	4	తెలుగు-తెనుగు-ఆంధ్రము పుట్టుపూర్వోత్తరాలు	అచ్చ తెలుగు పదాల వివరణ	విశ్లేషణాత్మక బోధన	4	Yes		ద్రావిడ భాషా పదాలసేకరణ	10 ని.	Yes	
	3	1	తెలుగు-తెనుగు-ఆంధ్రము పుట్టుపూర్వోత్తరాలు	12.10.2021	19.10.2021	1	Yes దసరా సెలవులు		ద్రావిడ భాషా పదాలసేకరణ	10 ని.	Yes	
	4	4	తెలుగు-తెనుగు-ఆంధ్రము పుట్టుపూర్వోత్తరాలు	అచ్చ తెలుగు పదాల వివరణ	విశ్లేషణాత్మక బోధన	4	Yes		ద్రావిడ భాషా పదాలసేకరణ	10 ని.	Yes	
	5	5	భారత దేశంలో భాషా కుటుంబాలు	వివిధరాష్ట్రాలు- మాతృభాషలు -వివరణ	విశ్లేషణాత్మక బోధన	5	Yes		ద్రావిడ భాషా పదాలసేకరణ	10 ని.	Yes	

**Govt. College for Women (A), Guntur**

**ANNUAL ACADAMIC CURRICULAR PLAN - 2021-22**

Name of the Lecturer : **Dr. S. Divija Devi** Name of the Department: **Telugu** Semester: **V – భాషాశాస్త్రం**

Programme/Course: **III B.A**

S.No& Month	Week	Hours	Syllabus/Topic	Additional Input	Curricular Activity				Co-Curricular Activity			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	co-curricular activity conducted	Hours Allotted	Whether Conducted	If not Alternate Date
NOVEMBER	1	5	భారత దేశంలో భాషా కుటుంబాలు	వివిధరాష్ట్రాలు- మాతృభాషలు-వివరణ	విశ్లేషణాత్మక బోధన	5	Yes		ద్రావిడ భాషా పదాల సేకరణ	10 ని.	Yes	
	2	4	భారత దేశంలో భాషా కుటుంబాలు	వివిధరాష్ట్రాలు- మాతృభాషలు-వివరణ	విశ్లేషణాత్మక బోధన	4	Yes		ద్రావిడ భాషా పదాల సేకరణ	10 ని.	Yes	
	3	5	భారత దేశంలో భాషా కుటుంబాలు	వివిధరాష్ట్రాలు- మాతృభాషలు-వివరణ	విశ్లేషణాత్మక బోధన	5	Yes		ద్రావిడ భాషా పదాల సేకరణ	10 ని.	Yes	
	4	5	భారత దేశంలో భాషా కుటుంబాలు	వివిధరాష్ట్రాలు- మాతృభాషలు-వివరణ	విశ్లేషణాత్మక బోధన	5	Yes		ద్రావిడ భాషా పదాల సేకరణ	10 ని.	Yes	
	5	2	ద్రావిడ భాషలలో తెలుగుకుగణానం	ద్రావిడ భాషలు - విశిష్టత	విశ్లేషణాత్మక బోధన	2	Yes		ద్రావిడ భాషా పదాల సేకరణ	10 ని.	Yes	

**Govt. College for Women (A), Guntur**

**ANNUAL ACADAMIC CURRICULAR PLAN - 2021-22**

Name of the Lecturer : **Dr. S. Divija Devi** Name of the Department: **Telugu** Semester: **V – భాషాశాస్త్రం** Programme /Course: **III B.A**

S.No& Month	Week	Hours	Syllabus/Topic	Additional Input	Curricular Activity				Co-Curricular Activity			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	co-curricular activity conducted	Hours Allotted	Whether Conducted	If not Alternate Date
DECEMBER	1	3	ద్రావిడ భాషాలలో తెలుగుకు గల స్థానం	వివిధరాష్ట్రాలు- మాతృభాషలు- వివరణ	విశ్లేషణాత్మక బోధన	5	Yes		ద్రావిడ భాషా పదాల సేకరణ	10 ని.	Yes	
	2	4	ద్రావిడ భాషాలలో తెలుగుకు గల స్థానం	వివిధరాష్ట్రాలు- మాతృభాషలు- వివరణ	విశ్లేషణాత్మక బోధన	4	Yes		ద్రావిడ భాషా పదాల సేకరణ	10 ని.	Yes	
	3	5	అర్ధావిపరిణామం	వివిధరాష్ట్రాలు- మాతృభాషలు- వివరణ	విశ్లేషణాత్మక బోధన	5	Yes		ద్రావిడ భాషా పదాల సేకరణ	10 ని.	Yes	
	4	5	అర్ధావిపరిణామం	వివిధరాష్ట్రాలు- మాతృభాషలు- వివరణ	విశ్లేషణాత్మక బోధన	5	Yes		ద్రావిడ భాషా పదాల సేకరణ	10 ని.	Yes	
	5	4	అర్ధావిపరిణామం	ద్రావిడ భాషలు - విశిష్టత	విశ్లేషణాత్మక బోధన	2	Yes		ద్రావిడ భాషా పదాల సేకరణ	10 ని.	Yes	

**Govt. College for Women (A), Guntur**

**ANNUAL ACADAMIC CURRICULAR PLAN - 2021-22**

**Name of the Lecturer : Dr. S. Divija Devi Name of the Department: Telugu Semester: V – భాషాశాస్త్రం Programme/Course: III B.A**

S.No & Month	Week	Hours	Syllabus/Topic	Additional Input	Curricular Activity				Co-Curricular Activity			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	co-curricular activity conducted	Hours Allotted	Whether Conducted	If not Alternate Date
<b>JANUARY</b>	1	-										
	2	4	పునశ్చరణ									
	3	1		12.01.2022	16.01.2022	సంక్రాంతి	సెలవులు					
	4	5	పునశ్చరణ									
	5	4	పునశ్చరణ	V- SEMESTER	EXAMS	24.01.2022	to	03.02.2022				
	6	1			EXAMS							

**Govt. College for Women (A), Guntur**

**ANNUAL ACADAMIC CURRICULAR PLAN - 2021-22**

Name of the Lecturer : **Dr. S. Divija Devi** Name of the Department: **Telugu** Semester: **VI – Journalism** Programme/Course: **III B.A**

S.No& Month	Week	Hours	Syllabus/Topic	Additional Input	Curricular Activity				Co-Curricular Activity				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	co-curricular activity conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
FEBRUARY	1	-	Classes From 07.02.2022		విశ్లేషణాత్మక బోధన								
	2	4	జర్నలిజం పరిచయం జర్నలిజం ఉపాధి అవకాశాలు పాఠ్యాంశాల పరిచయం	వివిధ పత్రికల పరిచయం	విశ్లేషణాత్మక బోధన	2 1 1	Yes						
	3	5	పాఠ్యాంశాల పరిచయం నమూనా ప్రశ్నా పత్రం ప్రశ్నాపత్ర విశ్లేషణ	ఈనాడు పత్రిక వార్తల పరిశీలన	విశ్లేషణాత్మక బోధన	2	Yes			10 ని.	Yes		
	4	5	కమ్యూనికేషన్ నిర్వచనం, రకాలు, డైరెక్ట్, వెర్బల్, నాస్ వెర్బల్ కమ్యూనికేషన్	సాక్షి పత్రిక వార్తల పరిశీలన	విశ్లేషణాత్మక బోధన	5	Yes		సంపాదకీయాల పఠనం	10 ని.	Yes		
	5	1	కమ్యూనికేషన్ నిర్వచనం, రకాలు, డైరెక్ట్, వెర్బల్, నాస్ వెర్బల్ కమ్యూనికేషన్	ఆంధ్రజ్యోతి పత్రిక వార్తల పరిశీలన	విశ్లేషణాత్మక బోధన	1	Yes		సంపాదకీయాల పఠనం	10 ని.	Yes		

**Govt. College for Women (A), Guntur**  
**ANNUAL ACADAMIC CURRICULAR PLAN - 2021-22**

Name of the Lecturer : **Dr. S. Divija Devi** Name of the Department: **Telugu** Semester: **V – జర్నలిజం** Programme/Course: **III B.A**

S.No& Month	W e e k	H o u r s	Syllabus/Topic	Additional Input	Curricular Activity				Co-Curricular Activity			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	co-curricular activity conducted	Hours Allotted	Whether Conducted	If not Alternate Date
MARCH	1	4	కమ్యూనికేషన్ నిర్వచనం, రకాలు, డైరెక్ట్, వెర్బల్, నాస్ వెర్బల్ కమ్యూనికేషన్	వార్త పత్రిక వార్తల పరశీలన	విశ్లేషణాత్మక బోధన	4	Yes		సంపాదకీయాల పఠనం	10 ని.	Yes	
	2	4	ఇంటర్ పర్సనల్, ఇంట్రా పర్సనల్, ఇంటర్, ఔట్ డోర్, మాస్ కమ్యూనికేషన్	వారపత్రికలు	విశ్లేషణాత్మక బోధన	5	Yes		సంపాదకీయాల పఠనం	10 ని.	Yes	
	3	5	రిపోర్టింగ్, ఎడిటింగ్, నిర్వచనాలు, రకాలు, ఎడిక్స్	మాస పత్రికలు	విశ్లేషణాత్మక బోధన	3	Yes		సంపాదకీయాల పఠనం	10 ని.	Yes	
	4	5	రిపోర్టర్, ఎడిటర్ అర్హతలు, లక్షణాలు, విధులు, బరువు బాధ్యతలు	అర్థ మాసిక పత్రికలు	విశ్లేషణాత్మక బోధన	5	Yes		సంపాదకీయాల పఠనం	10 ని.	Yes	
	5	4	ఫీచర్ లక్షణాలు, రకాలు, న్యూస్ ఫీచర్స్, ఫీచర్ న్యూస్.	మాస పత్రికలు	విశ్లేషణాత్మక బోధన	5	Yes		ఫీచర్ పఠనం	10 ని.	Yes	



**Govt. College for Women (A), Guntur**

**ANNUAL ACADAMIC CURRICULAR PLAN - 2021-22**

**Name of the Lecturer : Dr. S. Divija Devi Name of the Department: Telugu Semester: V – జర్నలిజం Programme/Course: III B.A**

S.No& Month	Week	Hours	Syllabus/Topic	Additional Input	Curricular Activity				Co-Curricular Activity			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	co-curricular activity conducted	Hours Allotted	Whether Conducted	If not Alternate Date
MAY	1	-	-	-	-	-	-	-	-			
	2	4	పునశ్చరణ		పునశ్చరణ				పునశ్చరణ			
	3	5	పునశ్చరణ		పునశ్చరణ				పునశ్చరణ			
	4	5	పునశ్చరణ		పునశ్చరణ				పునశ్చరణ			
	5	5	పునశ్చరణ		పునశ్చరణ				పునశ్చరణ			
	6	1	పునశ్చరణ		పునశ్చరణ				పునశ్చరణ			



**GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)**

**GUNTUR**



**ANNUAL ACADEMIC CURRICULAR PLAN**

**2021-22**

**Department of BIOCHEMISTRY**

**Lecturer : D. VIJAYA SREE**

**D. Vijaya Sree, Lecturer in Biochemistry, Govt. College for Women (Autonomous), Guntur**

**Semester V Paper V Immunology and Endocrinology AACP – July 2021**

Month, Week & No. of Hours	Syllabus / Topic	Additional input/ Value addition provided / taught	Name of curricular Activity conducted, date & hrs allotted	If not alternate date	Name of co-curricular Activity conducted, date & hrs allotted	If not alternate date	Any other
June 3 <sup>rd</sup> wk 3hrs	<b>Unit III: Endocrinology – I</b> <ul style="list-style-type: none"> <li>• Organization of endocrine system;</li> <li>• Chemical classification of hormones</li> <li>• Hormone receptors - extracellular and intracellular.</li> <li>• Mechanism of hormonal action - signal transduction pathways for adrenaline, glucocorticoids and insulin.</li> <li>• Physiological and biochemical actions of hypothalamic hormones – GHRH, TSH, GnRH</li> </ul>	Group I & II Hormones	Photographs		Notes preparation		
June 4 <sup>th</sup> wk 3hrs			Photographs		Notes preparation		
July 1 <sup>st</sup> wk 2hrs			Ca as secondary messenger	Photographs			

July 2 <sup>nd</sup> wk 3hrs	<ul style="list-style-type: none"> <li>Physiological and biochemical actions of pituitary hormones - GH, prolactin, TSH</li> </ul>	Photographs		Notes preparation		
July 3 <sup>rd</sup> wk 3hrs	<ul style="list-style-type: none"> <li>LH, FSH, oxytocin and vasopressin.</li> <li>Endocrine disorders - gigantism, acromegaly and diabetes insipidus.</li> </ul>	Photographs		Notes preparation		
<b>Unit IV: Endocrinology – II</b>						
July 4 <sup>th</sup> wk 3hrs	<ul style="list-style-type: none"> <li>Physiological role of thyroid hormone; Pathophysiology - Goiter, cretinism, myxedema.</li> </ul>	Practical - 3 Animation				
Aug 2 <sup>nd</sup> wk 3hrs	<ul style="list-style-type: none"> <li>Physiological role of insulin</li> <li>Pathophysiology - diabetes type I and type II</li> </ul>	PPT/ Animation				
Aug 2 <sup>nd</sup> wk3 hrs	<ul style="list-style-type: none"> <li>Physiological role of glucagon, gastrin, secretin, CCK.</li> <li>Physiological role of Adrenal hormones - Aldosterone, cortisol, corticosterone</li> <li>Pathophysiology – Addison’s disease, Cushing syndrome.</li> </ul>					

Month, Week & No. of Hours	Syllabus / Topic	Additional Input/ Value addition provided / taught	Name of curricular Activity conducted, date & hrs allotted	If not alternate date	Name of co-curricular Activity conducted, date & hrs allotted	If not alternate date	Any other
Aug 4 <sup>th</sup> wk3 hrs	<ul style="list-style-type: none"> <li>epinephrine and norepinephrine</li> <li>Physiological role of Male and female sex hormones – Androgens (testosterone), Estrogens (estrone), Progesterogens (progesterone)</li> </ul>		Photographs				
Sep1 <sup>st</sup> wk3 hrs	<p align="center"><b>Unit –I: Immunology – I</b></p> <ul style="list-style-type: none"> <li>Organization of immune system.</li> <li>Types of immunity: Innate immunity(Physical, biochemical, phagocytic, inflammation, barriers)</li> <li>acquired immunity (Active &amp; passive immunity)</li> <li>Cells of immune system: Stem cells, T-lymphocytes, B-lymphocytes, Macrophages.</li> <li>Immune Response : Humoral</li> </ul>						
Sep2 <sup>nd</sup> wk 3hrs							

Month, Week & No. of Hours	Syllabus / Topic	Additional input/ Value addition provided / taught	Name of curricular Activity conducted, date & hrs allotted	If not alternate date	Name of co-curricular Activity conducted, date & hrs allotted	If not alternate date	Remarks
Sep3 <sup>rd</sup> wk3 hrs	<ul style="list-style-type: none"> <li>Cell mediated Immune response.</li> <li>Organs of immune system: Primary lymphoid organs –Thymus &amp; Bone marrow</li> </ul>		PPT				
Sep4 <sup>th</sup> wk3 hrs	<ul style="list-style-type: none"> <li>Secondary lymphoid organs – Lymph node &amp; spleen.</li> </ul>		PPT				
Oct 1 <sup>st</sup> wk 3hrs	<ul style="list-style-type: none"> <li>Classification of immunoglobulins- Basic structure of immunoglobulins; structure &amp; biological functions of IgG</li> </ul> <p style="text-align: center;"><b>Unit – II: Immunology – II</b></p> <ul style="list-style-type: none"> <li>Antigens and Concept of haptens, Adjuvants, epitopes and paratopes.</li> <li>Role of MHC class I &amp; class II proteins, pathways of antigen processing &amp; presentation</li> </ul>	Antigen antibody reactions	PPT				
Oct 3 <sup>rd</sup> wk4hrs		Antisera ABD					

Month, Week & No. of Hours	Syllabus / Topic	Additional input/ Value addition provided / taught	Name of curricular Activity conducted, date & hrs allotted	If not alternate date	Name of co-curricular Activity conducted, date & hrs allotted	If not alternate date	Remarks
Oct 4 <sup>th</sup> wks hrs	<ul style="list-style-type: none"> <li>• Monoclonal antibodies &amp; their applications.</li> <li>• Vaccines and their classification. Traditional vaccines-live and attenuated, toxoids. Modern vaccines- recombinant and peptide vaccines.</li> <li>• Outlines of hypersensitivity reactions</li> </ul>						
Nov 2 <sup>nd</sup> wk 3hrs							

  
Signature of Lecturer

Signature of Incharge

  
Signature of Principal  
PRINCIPAL  
GOVT. COLLEGE FOR WOMEN (A)  
GUNTUR.

**D. Vijaya Sree, Lecturer in Biochemistry, Govt. College for Women (Autonomous), Guntur**

**Semester IV Paper IV Enzymes & Intermediary Metabolism – BC4309 AACP – December 2021**

Month, Week & No. of Hours	Syllabus / Topic	Additional input/ Value addition provided / taught	Name of curricular Activity conducted., date & hrs allotted	If not alternate date	Name of co-curricular Activity conducted., date & hrs allotted	If not alternate date	Any other	
Dec 1 <sup>st</sup> wk	<b>Unit I: Enzymes classification, specificity, kinetics</b> <ul style="list-style-type: none"> <li>• Introduction to biocatalysts, Differences between chemical and biological catalysis.</li> <li>• Nomenclature &amp; classification of enzymes.</li> <li>• Definitions: Activation energy, holo-enzyme, apo enzyme, coenzyme, cofactor, zymogen, enzyme units- Katal, IU.</li> <li>• Enzyme specificity: Stereo specificity, reaction specificity &amp; substrate specificity.</li> <li>• Active site definition &amp; its features; Enzyme substrate interaction - lock &amp; key, induced fit models.</li> <li>• Factors affecting enzyme activity - pH, temperature, substrate concentration. significance of <math>k_m</math>, <math>V_{max}</math> (2m)</li> <li>• Enzyme inhibition: Reversible - Competitive and non-competitive and irreversible inhibition.</li> </ul>				LMS video			
Dec 2 <sup>nd</sup> wk					LMS video			
Dec 3 <sup>rd</sup> wk						LMS video		
Dec 4 <sup>th</sup> wk						LMS video		

<b>Unit II: Regulation of Enzyme Activity</b>					
Jan 1 <sup>st</sup> wk	<ul style="list-style-type: none"> <li>Allosterism &amp; co-operativity; ATCase as an allosteric enzyme (Essay)</li> <li>Covalent modulation - phosphorylation of phosphorylase.</li> <li>Zymogen activation-activation of trypsinogen and chymotrypsinogen. Isoenzymes (LDH). Multienzyme complexes (PDH).</li> <li>Enzymes used in diagnosis of myocardial infarction, liver diseases &amp; Muscle diseases</li> </ul>			LMS video	
Jan 3 <sup>rd</sup> wk				LMS video	
Jan 4 <sup>th</sup> wk				LMS video	

Feb 1 <sup>st</sup> wk	<ul style="list-style-type: none"> <li>Introduction to metabolism - Anabolism and catabolism</li> <li><b>Unit- V: Metabolism of Nitrogenous compounds</b></li> <li><i>de novo</i> and salvage pathways of purine and pyrimidine nucleotides and regulation.</li> <li>Biosynthesis of deoxyribonucleotides- ribonucleotide reductase and thymidylate synthase and their significance</li> <li>Catabolism of purines and pyrimidines</li> <li>Disorders of nucleotide metabolism- Gout, Lesch- Nyhan syndrome.</li> <li>Biosynthesis and degradation of heme.</li> <li>General reactions of amino acid metabolism- transamination decarboxylation and deamination</li> </ul>	Structures	Notes preparation				
Feb 2 <sup>nd</sup> wk	<ul style="list-style-type: none"> <li>Catabolism of carbon skeleton of amino acids- glycolytic and ketogenic</li> <li>Synthesis of glycine, serine, leucine, phenylalanine</li> <li>Degradation of glycine, serine, leucine, phenylalanine</li> <li>Biosynthesis of creatinine</li> <li>Urea cycle and its regulation</li> <li>Inborn errors of aromatic (<u>phenylketonuria, alkaptonuria</u>)</li> </ul>	Structures	Notes preparation				
Feb 3 <sup>rd</sup> wk		Structures	Reactions Reactions				
Feb 4 <sup>th</sup> wk		Structures	Reactions				

<p style="text-align: center;"><b>Unit- III : Carbohydrate &amp; Lipid Metabolism</b></p>						
<ul style="list-style-type: none"> <li>• Glycolytic pathway, energy yield; Fate of pyruvate- formation of acetyl coA, lactate and ethanol; Pasteur effect</li> <li>• Citric acid cycle, regulation, energy yield, amphipathic role, anaplerotic reactions</li> <li>• Gluconeogenesis; HMP shunt pathway, its importance</li> <li>• Glycogenesis and Glycogenolysis</li> <li>• Disorders of carbohydrate metabolism- Diabetes Mellitus</li> <li>• Biosynthesis and degradation of triacylglycerol and lecithin</li> <li>• <math>\beta</math>-oxidation of fatty acids with even and odd no. of carbon atoms</li> <li>• <i>de novo</i> synthesis of fatty acids, elongation of fatty acids in mitochondria and microsomes, Ketogenesis</li> <li>• Biosynthesis of cholesterol</li> <li>• Disorders of lipid metabolism - <u>Niemann Pick and Tay Sachs disease</u></li> </ul>	<p style="text-align: center;"><u>alcoholic fermentation,</u> Structures</p> <p style="text-align: center;">Structures</p> <p style="text-align: center;"><u>Glyoxalate cycle</u> and its <u>significance</u></p> <p style="text-align: center;">Structures</p> <p style="text-align: center;"><u><math>\alpha</math> and <math>\omega</math> oxidations,</u> Structures</p> <p style="text-align: center;">Structures</p> <p style="text-align: center;">Structures</p>	<p style="text-align: center;">Reactions</p> <p style="text-align: center;">Reactions</p> <p style="text-align: center;">Reactions</p> <p style="text-align: center;">Notes preparation</p>		PPT		

**D. Vijaya Sree, Lecturer in Biochemistry, Govt. College for Women (Autonomous), Guntur**

**Semester VI Paper VIII A2 Protein Purification – BC8309A2 AACCP – February 2022**

Month, Week & No. of Hours	Syllabus / Topic	Additional input/ Value addition provided / taught	Name of curricular Activity conducted, date & hrs allotted	If not alternate date	Name of co-curricular Activity conducted, date & hrs allotted	If not alternate date	Any other
2 <sup>nd</sup> wk Feb 3hrs	<b>Unit I : Introduction to proteins</b> Introduction to proteins, General properties of proteins – ionic & chemical. <ul style="list-style-type: none"> <li>• Tertiary and quaternary structures - Structures of myoglobin and haemoglobin</li> <li>• Biologically important peptides - hormones, antibiotics and growth factors.</li> <li>• Diversified functions of proteins</li> </ul>		Notes preparation		Assignment		
3 <sup>rd</sup> wk Feb 3 hrs			Notes preparation		seminar		
4 <sup>th</sup> wk Feb 3hrs							

<b>Unit II : Extraction &amp; Separation</b>					
1 <sup>st</sup> wk Mar 3hrs	<ul style="list-style-type: none"> <li>Use of simple grinding methods - Homogenization, ultrasonication, French press.</li> <li>Centrifugation : high speed &amp; ultra centrifugation - preparative &amp; analytical.</li> <li>Ammonium sulphate fractionation, dialysis.</li> <li>Fractionation of a protein – principle, method &amp; applications of protein based on size – gel filtration chromatography; charge – ion exchange chromatography; bioproperties – affinity chromatography</li> <li>Principle, method &amp; applications of High Performance Liquid Chromatography (HPLC)</li> </ul>		Notes preparation	Seminar	
2 <sup>nd</sup> wk Mar 2hrs		Demo	Notes preparation	Seminar	
3 <sup>rd</sup> wk Mar 3hrs				ppt	
4 <sup>th</sup> wk Mar 3hrs					
1 <sup>st</sup> wk Apr 3hrs					

<p>2<sup>nd</sup> wk Apr 3hrs</p>	<p><b>Unit III : Characterization</b></p> <p>Determination of purity, molecular weight of proteins by Polyacrylamide (native and SDS) gel electrophoresis (PAGE), isoelectric focusing, 2D gel electrophoresis</p>	<p>Demo</p>	<p>Notes preparation</p>			
<p>3<sup>rd</sup> wk Apr 3hrs</p>	<ul style="list-style-type: none"> <li>• Estimation of protein – UV absorption, Lowry method, Bradford method</li> </ul>	<p>Practical</p>	<p>Notes preparation</p>			
<p>4<sup>th</sup> wk Apr 3hrs</p>	<p><b>Unit IV : Protein Structure, folding &amp; Conformational Diseases :</b></p>					
<p>1<sup>st</sup> wk may 3hrs</p>	<ul style="list-style-type: none"> <li>• Principle, method &amp; applications of techniques used in studying 3-D structures -X-ray diffraction and NMR.</li> </ul>				<p>PPT</p>	
<p>2<sup>nd</sup> wk may 3hrs</p>	<ul style="list-style-type: none"> <li>• Mass spectrometric analysis- Principle, method &amp; applications of MALDI, ESL.</li> </ul>				<p>PPT</p>	

3 <sup>rd</sup> wk may 3hrs	<ul style="list-style-type: none"> <li>Assisted folding by molecular chaperones:</li> <li>Defects in protein folding: – Alzheimer's Diseases</li> </ul>				Assignment		

  
Signature of Lecturer

Signature of Incharge

  
Signature of Principal  
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GUNTUR.

## D. Vijaya Sree, Lecturer in Biochemistry, Govt. College for Women (Autonomous), Guntur

Semester VI Paper VIII A3 Fundamentals of Bioinformatics & Protein Modelling – BC8309A3 AACCP – February 2022

Month, Week & No. of Hours	Syllabus / Topic	Additional input/ Value addition provided / taught	Name of curricular Activity conducted, date & hrs allotted	If not alternate date	Name of cocurricular Activity conducted, date & hrs allotted	If not alternate date	Any other
2 <sup>nd</sup> wk Feb 3hrs	<b>Unit I Introduction to bioinformatics &amp; Biological databases</b> <ul style="list-style-type: none"> <li>Definition, history and scope of Bioinformatics: Applications of bioinformatics in biology &amp; medicine</li> <li>Structure of dsDNA, types of RNA</li> <li>Nomenclature of nitrogen bases &amp; aminoacids in bioinformatics.</li> <li>Publicly available biological databases - primary, secondary and composite databases</li> <li>Sequence file formats-FASTA, NCBI, EMBL</li> <li>NCBI - History &amp; resources available at NCBI;</li> <li>Nucleic acid databases-GenBank, EMBL, DDBJ</li> <li>Protein databases – sequence - primary protein sequence (Uniprot), secondary protein sequence (Pfam); structure - PDB</li> </ul>	Use in molbio	PPT				
3 <sup>rd</sup> wk Feb 3 hrs		Structures	Practical				
4 <sup>th</sup> wk Feb 3hrs		Genbank	Practical				
1 <sup>st</sup> wk Mar 3hrs		Applications	Practical				

Unit 2: Sequence alignment and functional analysis					
2 <sup>nd</sup> wk Mar 2hrs	<ul style="list-style-type: none"> <li>Types of sequence alignments- pair wise alignment - dot plot</li> <li>Pair wise - dynamic programming)</li> <li>multiple sequence alignment (progressive method, motif finding)</li> <li>local(Smith Waterman) and global alignment (Needleman Wansch)</li> <li>Sequence alignment algorithms- BLAST and CLUSTALW</li> <li>Amino acid substitution matrices - PAM and BLOSUM</li> <li>Phylogenetic tree – cladistic, phenetic; components of tree; tree style</li> <li>Tools for phylogeny – UPGMA, maximum parsimony method, maximum likelihood method</li> </ul>	Gap penalty Scoring matrix Comparison	Problems Practical, PPT Practical Practical Practical		
3 <sup>rd</sup> wk Mar 3hrs					
4 <sup>th</sup> wk Mar 3hrs					

1 <sup>st</sup> wk Apr 3hrs	<p align="center"><b>Unit 3 Introduction to genomics</b></p> <ul style="list-style-type: none"> <li>• Genomics classification (functional, structural, comparative)</li> <li>• Sequencing human genome (BAC to BAC method, whole genome shotgun sequencing)</li> <li>• DNA sequencing - Sanger's method, Maxam Gilberts method.</li> <li>• Gene prediction methods (empirical method.)</li> <li>• Gene prediction methods - Ab initio method</li> <li>• Gene prediction tools (GENSCAN, HMM)</li> </ul>	Problems					
2 <sup>nd</sup> wk Apr 3hrs		Practical					
3 <sup>rd</sup> wk Apr 3hrs							
4 <sup>th</sup> wk Apr 3hrs	<p align="center"><b>Unit 4 Protein structure prediction</b></p> <ul style="list-style-type: none"> <li>• Levels of protein organization – Primary, Secondary, Tertiary &amp; Quaternary structures.</li> <li>• Protein structure determination – Homology modelling, Fold recognition methods, Ramachandran Plot</li> <li>• Protein secondary structure prediction methods (Chou-Fasman method, GOR method, artificial neural method)</li> <li>• Structure viewer – Rasmol</li> </ul>	Practical					
1 <sup>st</sup> wk may 3hrs		Practical	Examples				
2 <sup>nd</sup> wk may 3hrs		Practical					

  
Signature of Lecturer

Signature of Incharge

  
Signature of Principal  
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GOVT. COLLEGE FOR WOMEN (A)  
GUNTUR.

Name of the Lecturer: Mrs. N.PRAVEENA KUMARI Class & Programme: IIB.Sc, B1,B2 Year: IY year Semester: IV

Subject: Microbiology Course: Immunology and Medical Microbiology

Code: MB4308

	Syllabus / Topic	Additional input/ Value addition provided / taught	Name of curricular Activity conducted, date & hrs allotted	If not alternate date	Name of co-curricular Activity conducted, date & hrs allotted	If not alternate date
MARCH 1 <sup>st</sup> Week 02hrs	Introduction of the syllabus		Lecture-1hr	-	Q&A	
	<b>UNIT I</b> Types of immunity – innate and acquired; active and passive; humoral and cell-mediated immunity.	Local and Herd immunity	Lecture-2hr		Elicitation	
APRIL 1 <sup>st</sup> Week 02hrs	Primary and secondary organs of immune system – thymus, bursa of fabricius, bone marrow.	MALT, SALT	Lecture-1hrs	-	Assignment-1hr	
2 <sup>nd</sup> Week	Spleen and lymph nodes. Cells of immune system-- Identification and function of		Lecture-2hrs		Brain storming	

Shrs	B and T lymphocytes, null cells, monocytes, macrophages, neutrophils, basophils and eosinophils.						
	<b>UNIT II</b> Antigens – types, chemical nature, antigenic determinants, haptens. Factors affecting antigenicity.	Antigen recognition and processing	Lecture-2hrs	--	Peer Teaching-1hr		
3 <sup>rd</sup> week 3hrs	Antibodies – basic structure, types, properties and functions of immunoglobulins.	Enzymatic digestion of Immunoglobul in	Lecture-2hrs	-	One word questions-1hr		
4 <sup>th</sup> week 3hrs	Classes of immunoglobulins	Opsonization	Lecture demonstration-1hr		Seminar-1hr		
	Types of antigen-antibody reactions - Agglutination, Precipitation, Neutralization, complement fixation, blood groups.		1hr				
	Test						

5 <sup>th</sup> week 3 hrs	Labeled antibody based techniques – ELISA, RIA and Immunofluorescence.	Western blot	Lecture-2hrs		Assignment-1hr	
MAY 1 <sup>st</sup> Week 03 hrs	Polyclonal and monoclonal antibodies – production and applications		Lecture-2hrs		Quiz- 1hr	
2 <sup>nd</sup> Week 03 hrs	Hypersensitivity- Type I,II,III,IV	Type V hypersensitivity	Lecture-2hrs	-		
3 <sup>rd</sup> Week 04 hrs	Autoimmunity	SCID	Lecture-1hrs		JAM	
	<u>UNIT III</u> Normal flora of human body.	Microbiogenesis	Lecture-2hrs		Seminar-1hr	
4 <sup>th</sup> Week 03 hrs	Host pathogen interactions: infection, invasion, pathogen, pathogenicity, virulence and opportunistic infection.	Attenuation	Lecture-3hrs		Brain storming	

JUNE 1 <sup>st</sup> Week 05 hr	General principles of diagnostic microbiology- collection, transport and processing of clinical samples.		Lecture-2hrs		Discussion	
	General methods of laboratory diagnosis - cultural, biochemical, serological and molecular methods	Bactech, Automation of cultures	Lecture-2hrs		Seminar-1hr	
2 <sup>nd</sup> wk 5hrs	Antibacterial Agents- Penicillin, Streptomycin and Tetracycline.	Rifampin	Lecture-2hrs		Debate-1hr	
	Antifungal agents - Amphotericin B, Griseofulvin	Fungal infections	Lecture-1hr		Seminar-1hr	
			Test-1hr			
3 <sup>rd</sup> wk 5hrs	Antiviral substances - Amantadine and Acyclovir	Interferon	Lecture-1hrs		Quiz-1hr	
	Tests for antimicrobial susceptibility.		Lecture demonstration-02hrs		Pair work-1hr	

4th wk 5hrs	Vaccines - recombinant	Natural and Synthetic peptides	Lecture-1hrs	Peer teaching-1hr		
5 <sup>th</sup> wk 3hr	General account on microbial diseases - organism, pathogenesis, epidemiology, diagnosis, prevention and control	Paratyphoid	Lecture-2hrs	Remedial teaching-1hr		
JULY 1 <sup>st</sup> wk 3hrs	Bacterial diseases - Tuberculosis and Typhoid		Lecture-2hr	Seminar-1hr		
2 <sup>nd</sup> wk 4 hrs	Fungal diseases - Candidiasis. Protozoal diseases - Malaria test	Research on AIDS vaccine	Lecture-2hr	Seminar-1hr		
3 <sup>rd</sup> wk 3hrs	Viral Diseases - Hepatitis- A and AIDS		Lecture-2hr	Discussion and counseling for exams		
	Revision and Semester end exams					

Syllabus covered as per the annual academic plan

V.R. *[Signature]*

PRINCIPAL

GOVT. COLLEGE FOR WOMEN (A)  
GUNTUR.

*[Signature]*

Name of the Lecturer: Mrs. N.PRAVEENA KUMARI Class & Programme: IIB.Sc, B1,B2 Year: IY year Semester: IV

Subject: Microbiology Course: Immunology and Medical Microbiology

Code: MB4308

	Syllabus / Topic	Additional input/ Value addition provided / taught	Name of curricular Activity conducted, date & hrs allotted	If not alternate date	Name of co-curricular Activity conducted, date & hrs allotted	If not alternate date
MARCH 1 <sup>st</sup> Week 02hrs	Introduction of the syllabus		Lecture-1hr	-	Q&A	
	<b>UNIT I</b> Types of immunity – innate and acquired; active and passive; humoral and cell-mediated immunity.	Local and Herd immunity	Lecture-2hr		Elicitation	
APRIL 1 <sup>st</sup> Week 02hrs	Primary and secondary organs of immune system – thymus, bursa of fabricius, bone marrow.	MALT, SALT	Lecture-1hrs	-	Assignment-1hr	
2 <sup>nd</sup> Week	Spleen and lymph nodes. Cells of immune system-- Identification and function of		Lecture-2hrs		Brain storming	

Shrs	B and T lymphocytes, null cells, monocytes, macrophages, neutrophils, basophils and eosinophils.						
	<b>UNIT II</b> Antigens – types, chemical nature, antigenic determinants, haptens. Factors affecting antigenicity.	Antigen recognition and processing	Lecture-2hrs	--	Peer Teaching-1hr		
3 <sup>rd</sup> week 3hrs	Antibodies – basic structure, types, properties and functions of immunoglobulins.	Enzymatic digestion of Immunoglobul in	Lecture-2hrs	-	One word questions-1hr		
4 <sup>th</sup> week 3hrs	Classes of immunoglobulins	Opsonization	Lecture demonstration-1hr		Seminar-1hr		
	Types of antigen-antibody reactions - Agglutination, Precipitation, Neutralization, complement fixation, blood groups.		Test	1hr			

5 <sup>th</sup> week 3 hrs	Labeled antibody based techniques – ELISA, RIA and Immunofluorescence.	Western blot	Lecture-2hrs		Assignment-1hr	
MAY 1 <sup>st</sup> Week 03 hrs	Polyclonal and monoclonal antibodies – production and applications		Lecture-2hrs		Quiz- 1hr	
2 <sup>nd</sup> Week 03 hrs	Hypersensitivity- Type I,II,III,IV	Type V hypersensitivity	Lecture-2hrs	-		
3 <sup>rd</sup> Week 04 hrs	Autoimmunity	SCID	Lecture-1hrs		JAM	
	<u>UNIT III</u> Normal flora of human body.	Microbiogenesis	Lecture-2hrs		Seminar-1hr	
4 <sup>th</sup> Week 03 hrs	Host pathogen interactions: infection, invasion, pathogen, pathogenicity, virulence and opportunistic infection.	Attenuation	Lecture-3hrs		Brain storming	

JUNE 1 <sup>st</sup> Week 05 hr	General principles of diagnostic microbiology- collection, transport and processing of clinical samples.		Lecture-2hrs		Discussion	
	General methods of laboratory diagnosis - cultural, biochemical, serological and molecular methods	Bactech, Automation of cultures	Lecture-2hrs		Seminar-1hr	
2 <sup>nd</sup> wk 5hrs	Antibacterial Agents- Penicillin, Streptomycin and Tetracycline.	Rifampin	Lecture-2hrs		Debate-1hr	
	Antifungal agents - Amphotericin B, Griseofulvin	Fungal infections	Lecture-1hr		Seminar-1hr	
			Test-1hr			
3 <sup>rd</sup> wk 5hrs	Antiviral substances - Amantadine and Acyclovir	Interferon	Lecture-1hrs		Quiz-1hr	
	Tests for antimicrobial susceptibility.		Lecture demonstration-02hrs		Pair work-1hr	

4th wk 5hrs	Vaccines - recombinant	Natural and	Synthetic peptides	Lecture-1hrs		Peer teaching-1hr	
5 <sup>th</sup> wk 3hr	General account on diseases	- microbial causal	Paratyphoid	Lecture-2hrs		Remedial teaching-1hr	
JULY 1 <sup>st</sup> wk 3hrs	Fungal diseases - Protozoal diseases - test	- Candidiasis. Malaria		Lecture-2hr 1hr		Seminar-1hr	
2 <sup>nd</sup> wk 4 hrs	Viral Diseases and AIDS	- Hepatitis- A	Research on AIDS vaccine	Lecture-2hr		Seminar-1hr	
3rd wk 3hrs	Revision and Semester end exams	Preparation for		Lecture-2hr		Discussion and counseling for exams	

Syllabus covered as per the annual academic plan

V.R. *[Signature]*

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GUNTUR.

*[Signature]*

# Government College for Women (A), Guntur



Annual Plan  
2021-2022

Name of the Department: Commerce  
Paper: Fundamentals of Accounting-1

Name of the Lecturer: K. Subbarathnamma

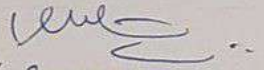
Class: I B.Com Year: I Semester

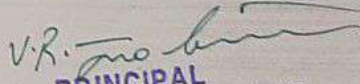
Sl. No.	Month & Year- November	Hours Available	SYLLABUS/ TOPIC	Additional Input/Value Addition provided/taught	Curricular Activity				Co- Curricular Activity			
					Activity Conducted	Hours allotted	Whether conducted	If not Alternate Date	Activity Conducted	Hours allotted	Whether conducted	If not Alternate Date
1	WEEK - 3	5	Meaning and Definitions of Accounting and,featur, functions and objecties,									
2	WEEK- 4	5	Accounting Concepts, conventions									
3	December WEEK - 1	5	kinds of accounts and its principles with examples Trasactions converted in to Journal entries	Bridgecourse: Material provided	Test conducted – Pre- bridge course	08 from 02-12-21 to 10-12-21	Yes					
4	WEEK - 2	5	UNIT:I INTRODUCTION Book –keeping and accountancy –Branches of Accounting	Material provided	Bridge course conducted	Test conducted –After-bridge course						





17	WEEK - 3	5	UNIT:VI FINAL ACCOUNTS: Preparation of final: Accounts –Trading Account		Remedial classes to be conducted							
18	WEEK - 4	5	Preparation of Profit and Loss account with suitable adjustments		Before going to Sem end exams HOPE test to be conducted	03						
19	April WEEK -1	5	Preparation of final Accounts –Profit & loss Account and Balance sheet									
20	WEEK -2	5	Preparation of SEM end examinations & previous Questions practice etc.,									

  
 K-SUBBA RAMAMMA  
 Lect in Commerce.

  
 V.R. PRASAD  
 PRINCIPAL  
 GOVT. COLLEGE FOR WOMEN (A)  
 GUNTUR.

**ANNUAL CURRICULAR PLAN 2022**  
**IB.Voc.(Software Development/Multimedia and Animation): Sem-II**  
**Web Designing Basics (Core Paper)**

Sl. No	Month & Week	Hours Available	Syllabus & Topic	Addl. Input/Value taught	Curricular Activity					Co-Curricular Activity				
					Activity Conducted	Hours Allotted	Whether Conducted	If not alternate date	Activity Conducted	Hours Allotted	Whether Conducted	If not alternate date		
1	June-3 <sup>rd</sup> Week	6	<b>Unit-1: HTML:</b> Introduction to Web Designing, Difference between web applications and Desktop Applications, introduction to HTML, HTML Structure	Latest trends in web development	Lecture + Practica	Yes	Yes		Quiz	1	Yes			
2	June 4 <sup>th</sup> Week	6	elements, attributes, headings, paragraphs, styles, colors, HTML formatting, Quotations, Comments, images, tables, lists	Browser types and supporting tags	Lecture + Practica	4+2	Yes		Quiz	1	Yes			
3	June 5 <sup>th</sup> week and July 1 <sup>st</sup> week	6	blocks and classes, HTML CSS, HTML frames, file paths, layout, symbols, HTML Responsive	Plug-ins	Lecture + Practica	4+2	Yes		Exam on Unit-1	1	Yes			
4	July 2 <sup>nd</sup> week	6	<b>Unit-2:</b> HTML Forms : HTML form elements, input types, input attributes, HTML5	Data validation	Lecture + Practica	4+2	Yes		Pair work	1	Yes			
5	July 3 <sup>rd</sup> week	6	HTML Graphics, HTML Media-Video, audio, plug-ins, YouTube.	User interfaces	Lecture + Practica	4+2	Yes		Group work	1				

6	July 4 <sup>th</sup> week (Mid-1 Exam) and July 5 <sup>th</sup> week	6	HTML Apps : Geo Location, Drag/drop, local storage, HTML SSE	Encryption	Lecture + Practica 1	4+2	Yes	Exam on Unit-2	1	Yes
7	August 1 <sup>st</sup> week	6	<b>Unit-3 :</b> CSS : CSS Home, introduction, syntax, colours, background, borders, margins, padding, height/width, text, fonts	Types of CSS- Inline, Internal and External	Lecture + Practica 1	4+2	Yes	Quiz	1	Yes
8	August 2 <sup>nd</sup> week	6	icons, tables, lists, position, overflow, float, CSS combinators, pseudo class, pseudo elements, opacity, tool tips	CSS Cheatsheet	Lecture + Practica 1	4+2	Yes	Group work	1	Yes
9	August 3 <sup>rd</sup> and 4 <sup>th</sup> weeks	6	image gallery, CSS forms, CSS counters, CSS responsive	Menus	Lecture + Practica 1	4+2		Exam on Unit-3 Peer teaching	2	
10	August 5 <sup>th</sup> week (Mid-2 Exam) and Sept 1 <sup>st</sup> week	6	<b>Unit-4:</b> <b>WordPress :</b> Introduction to wordpress, servers like wamp, bitnami etc, installing and configuring wordpress, understanding admin panel	Wix.com	Lecture + Practica 1	4+2		Assignment	1	
11	Sept 2 <sup>nd</sup> Week	6	working with posts and pages, using editor, text formatting with shortcuts	Cpanel	Lecture + Practica 1	4+2		Quiz	1	
12	Sept 3 <sup>rd</sup> week	6	working with media-Adding, editing, deleting media elements, working with widgets, menus	Cpanel	Lecture + Practica 1	4+2		Assignment	1	
13	Sept 4 <sup>th</sup> week	6	<b>Unit-5:</b> <b>Working with themes-parent and</b>	Wix.com	Lecture +	4+2		Group work	1	

		child themes, using featured images, configuration settings, user and user roles and profiles		Practica 1									
14	Sept 5 <sup>th</sup> week	6	adding external links, extending wordpres, with plug-ins	Cpanel	Lecture + Practica 1	4+2				Peer Teaching	1		
15	Sept 6 <sup>th</sup> week	6	Customizing the site, changing the appearance of site using CSS	Cpanel	Lecture + Practica 1					Exam on Unit-	1		

Signature of the Principal  
  
 16/12/22

**ANNUAL CURRICULAR PLAN 2022**  
**I B.Sc.(M.St.CS/M.Phy.CS): Sem-IV**  
**Object-oriented programming through Java (Core Paper)**

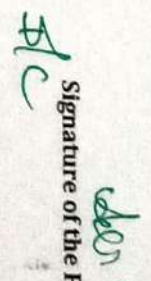
Sl. No	Month & Week	Hours Available	Syllabus & Topic	Addl. Input/Value Addition taught	Curricular Activity					Co-Curricular Activity				
					Activity Conducted	Hours Allotted	Whether Conducted	If not alternate date	Activity Conducted	Hours Allotted	Whether Conducted	If not alternate date		
1	June-3 <sup>rd</sup> Week	6	<b>UNIT I</b> <b>Introduction to Java:</b> Features of Java, The Java virtual Machine, Parts of Java Naming Conventions and Data Types: Naming Conventions in Java, Data Types in Java, Literals <b>Operators in Java:</b> Operators, Priority of Operators	Interpretation and Compilation	Lecture + Practical	4+2	Yes		Quiz	1	Yes			
2	June 4 <sup>th</sup> Week	6	<b>Control Statements in Java:</b> if... else Statement, do... while Statement, while Loop, for Loop, switch Statement, break Statement, continue Statement, return Statement	Structured Programming language constructs	Lecture + Practical	4+2	Yes		Quiz	1	Yes			
3	June 5 <sup>th</sup> week and July 1 <sup>st</sup> week	6	<b>Input and Output:</b> Accepting Input from the Keyboard, Reading Input with java.util.Scanner Class, Displaying Output with System.out.println(), Displaying Formatted Output with String.format() <b>Arrays:</b> Types of Arrays, Three Dimensional Arrays (3D array), arrayname.length, Command Line Arguments	Working with Command prompt	Lecture + Practical	4+2	Yes		Exam on Unit-1	1	Yes			
4	July 2 <sup>nd</sup> week	6	<b>UNIT II</b> <b>Strings:</b> Creating Strings, String Class Methods, String Comparison, Immutability of Strings <b>Introduction to OOPS:</b> Problems in Procedure Oriented Approach, Features of Object-Oriented Programming System	Object oriented model in DBMS	Lecture + Practical				Pair work	1				



	and 4 <sup>th</sup> weeks		Program, Exceptions, throws Clause, throw Clause, Types of Exceptions, Re - throwing an Exception	validation	+	Practical															
10	August 5 <sup>th</sup> week (Mid-2 Exam) and Sept 1 <sup>st</sup> week	6	<b>UNIT - IV</b> <b>Streams:</b> Stream, Creating a File using FileOutputStream, Reading Data from a File using FileInputStream, Creating a File using FileWriter, Reading a File using FileReader Zipping and Unzipping Files, Serialization of Objects, Counting Number of Characters in a File, File Copy, File Class <b>Threads:</b> Single Tasking, Multi Tasking, Uses of Threads, Creating a Thread and Running it, Terminating the Thread, Single Tasking Using a Thread	File reading in C	Lecture + Practical	4+2						Assignment	1								
11	Sept 2 <sup>nd</sup> Week	6	Multi Tasking Using Threads, Multiple Threads Acting on Single Object, Thread Class Methods, Deadlock of Threads, Thread Communication, Thread Priorities, thread Group, Daemon Threads, Applications of Threads, Thread Life Cycle	Parallel Processing	Lecture + Practical	4+2						Quiz	1								
12	Sept 3 <sup>rd</sup> week	6	<b>UNIT - V</b> <b>Applets:</b> Creating an Applet, Uses of Applets, <APPLET> tag, A Simple Applet, An Applet with Swing Components, Animation in Applets, A Simple Game with an Applet, Applet Parameters	Threads in OS	Lecture + Practical	4+2						Assignment	1								
13	Sept 4 <sup>th</sup> week	6	Java Database Connectivity: Database Servers, Database Clients, JDBC (Java Database Connectivity), Working with Oracle Database, Working with MySQL Database, Stages in a JDBC Program, Registering the Driver, Connecting to a Database	Graphics	Lecture + Practical	4+2						Group work	1								
14	Sept 5 <sup>th</sup> week	6	Preparing SQL Statements, Using jdbc-odbc Bridge Driver to Connect to Oracle Database, Retrieving Data from MySQL Database, Retrieving Data from MS Access Database	Working with Mamp	Lecture + Practical	4+2						Peer Teaching	1								
15	Sept 6 <sup>th</sup> week	6		Embedded SQL	Lecture + Practical							Exam on Unit-5	1								

Database, Stored Procedures and  
CallableStatements, Types of Result Sets



  
Signature of the Principal  
14 Feb 22

ANNUAL ACADEMIC CURRICULAR PLAN: 2021-22

Name : Dr. M. Hanumantha Raju  
 Course Code : 4318B  
 Class : II B.Sc Aquaculture - Zoology – Chemistry

Name of the Department : ZOOLOGY  
 Year : II Year IV Semester  
 PAPER-5

Course Name: FISH HEALTH MANAGEMENT & FISHERIES ECONOMICS

Sl. No.	Month & Year	Hours Available	SYLLABUS/ TOPIC	Additional input/value provided/taught	Curricula: Activity			Co-Curricular Activities	
					Activity to be Conducted	Hours allotted	Whether conducted		If not Alternate Date
1	JUNE 2022 4 <sup>th</sup> & 5 <sup>th</sup> Weeks		UNIT-I: Diseases of Fin Fish 1.1 Fungal diseases – saprolegniosis, trachymylosis, ichthyophorous diseases – prevention and therapy		Internship - duration 2 weeks	2	yes	yes	
2	JUNE 2022 4 <sup>th</sup> & 5 <sup>th</sup> Weeks		1.2 Viral diseases – haemorrhagic septicemia, spring viraemia of carps, infectious haematopoietic necrosis in trout & channel cat fish, prevention & therapy				completed		
3	JULY 2022 2 <sup>nd</sup> & 3 <sup>rd</sup> Weeks		1.3 Bacterial diseases – Aeromonas, pseudomonas & vibrio infections, columnaris, epizootic ulcerative syndrome, bacterial gill disease, prevention & therapy				completed		
4	JULY 2022 2 <sup>nd</sup> & 3 <sup>rd</sup> Weeks		UNIT – II Diseases of Shell Fish 2.1 Major shrimp viral diseases – Baculovirus penaeae, Monodon baculovirus, hypodermal & Hepatopancreatic virus disease, white spot baculovirus					attended 5 day HSLM Training programme at ANU	
5	JULY 2022 4 <sup>th</sup> Week		2.2 Bacterial diseases – aeiomonas, pseudomonas, luminous disease. Prevention and therapy		Diplomatic work		completed		

6	JULY 2022 5 <sup>th</sup> Week		2.3 Protozoan diseases – Ichthyophthiriasis, whirling disease. Prevention & therapy			Completed as per mssw			
7	AUGUST 2022 1 <sup>st</sup> & 2 <sup>nd</sup> Weeks		<b>UNIT-III</b> <b>Fish Health Management</b> 3.1 Diagnostic tools – immune detection – DNA/RNA techniques 3.2 Quarantine – Significance, methods & regulations for transplants 3.3 Good feed management – good feed, probiotics in seed and issues of bio-security			Completed 10 <sup>th</sup> - 14 <sup>th</sup> Aug	Attended 5 day training program at Kurnool during Teacher's days	Training program at Kurnool during Teacher's days	
8	AUGUST 2022 1 <sup>st</sup> & 2 <sup>nd</sup> Weeks		<b>UNIT-IV</b> <b>Fisheries Economics - I</b> 4.1 Methods of economic analysis of business organizations 4.2 Application of economic principles to aquaculture operations 4.3 cost and earnings in carp culture & shrimp farming			Completed			II <sup>nd</sup> Mid exams 24 <sup>th</sup> - 26 <sup>th</sup> Aug
9	AUGUST 2022 3 <sup>rd</sup> & 4 <sup>th</sup> Weeks		<b>UNIT-V</b> <b>Fisheries Economics - II</b> 5.1 Socio – economic conditions of fisherman in A.P. 5.2. Role of Matsyafed and NABARD in uplifting fishermen conditions and contribution to national economy.			Completed	Academic audit		
10	SEPT 2022 3 <sup>rd</sup> & 4 <sup>th</sup> Weeks					Syllabus completed in 1 <sup>st</sup> week of September, 2022			

Syllabus completed as per the schedule and prepared for practical & theory examination.

H. Hanumanth Kumar  
Vet. in Zoology

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ANNUAL ACADEMIC CURRICULAR PLAN  
 ANNUAL ACADEMIC CURRICULAR PLAN: 2021-22  
 2021-22

Name of the college: Govt. College for Women, Guntur Name of the Department: Zoology Name of the Paper: Animal diversity – chordates  
 Name of the lecturer: Dr. M. Hanumantha Raju Class: B.Sc Year: 1<sup>st</sup> Year Paper: II

Sl. No.	Month & Year	Hours Available	SYLLABUS/ TOPIC	Additional input/value Addition provided/taught	Curricular Activity					Co-Curricular Activity				Remarks
					Activity Conducted	Hours allotted	Whether conducted	If not Alternate Date	Activity Conducted	Hours allotted	Whether conducted	If not Alternate Date		
1	Starting June 15 <sup>th</sup> June 3 <sup>rd</sup> & 4 <sup>th</sup> week 2022		<u>UNIT-I</u> Introduction to Chordata. Explanation of Chordata & Model question paper and blue print of examinations. General Characters of Chordata, classification upto orders and classes. Cephalochordata- General Characters. Structure of Amphioxus. Its habit and habitat. Urochordata- Structure of Herdmania, Retrogressive metamorphosis-life history.	Black board teaching	To observe various Chordata organisms	2 Hrs	yes	Actual date from June last week	2h	yes	yes			
2	June 4 <sup>th</sup> week 2022		<u>UNIT-II</u> Cyclostomata – general characters. Structure of petromyzon & Myxine & their differences and comparisons.	—	Group discussion	2 Hrs	yes	—	Natural trail in 2h	2h	yes			
3	June 5 <sup>th</sup> week		Fishes:- General characters and classification of fishes upto orders and classes.	—	Allotment of students seminars	2 Hrs	yes		Alotted		yes			
4	July 1 <sup>st</sup> & 2 <sup>nd</sup> week 2022		Fishes- Type study – Scoliodon – external characters of Scoliodon and various body systems like digestive and circulatory Different types of scales in fishes and its importance	Parental care in fishes	To observe various scales of fishes	2 Hrs	—		Alotted		yes	Attended prog. at ANU	Halla Training	
5	July 3 <sup>rd</sup> week 2022		Structure of Scoliodon brain and its function. Migration of fishes & its various types	—	Allotment of student assignments	2 Hrs			Alotted		yes			
6	July 3 <sup>rd</sup> week		Practical demonstration of slides and spotters of various Chordates. <del>Christmas Holidays - 23<sup>rd</sup> to 27<sup>th</sup> December</del>	—		2 Hrs	yes						I paid July 25-27 <sup>th</sup> 2022	



15	Oct 1 <sup>st</sup> week 2022	<b>UNIT-V</b> Mammalia :- Introduction to Phylum mammalia – Evolution of class memalia. General characters of mammalia and classification of Phylum mammalia upto orders and classes with suitable examples Study of some important body systems of Rabbit. Dentition in mammals	Black board teaching & video pictures	To observe various mammals	2 Hrs	To collect di. board pictures of mammalia	Syllabus in the	completed in		
16	Oct 2 <sup>nd</sup> week 2022	Revision of important topics and questions for preparation of semester exams Revision of important practical work and to prepare for the semester practical exam.		To observe various human characters with the other mammals	2 Hrs	Revision class of imp. topics Asked students to submit in	in the practical records	completed in		

Syllabus (practical & theory) completed in the last week of Sep 2022 and revision class conducted.

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5	May 1st week	0				0						
6	2nd week	3	Environmental management UNIT-II Air Pollution 9h Definition – Sources of air pollution – Classification of air pollution	air pollution	Assignment seminar	3	Yes					
7	3rd week	3	Acid rain – Photochemical smog	Acid rain – Photochemical smog.	Assignment seminar	3	Yes					
8	4th week	3	Green house effect – Formation and depletion of ozone – Global dimming	Green house effect.	Assignment seminar	3	Yes					
9	5th week	3	Bhopal gas disaster – Controlling methods of air pollution. UNIT-III Water pollution 9h Unique physical and chemical properties of water –	Bhopal gas disaster		3						
10	6th week	1	water quality and criteria for finding of water quality – Dissolved oxygen – BOD, COD,	Dissolved oxygen – BOD, COD,	Assignment seminar	1	Yes					
11	June 1st week	1	Suspended solids, total dissolved solids, alkalinity – Hardness of water – Methods to convert temporary hard water into soft water –	Hardness of water -	Assignment seminar	1	Yes					

12	2nd week	3	Methods to convert permanent hard water into soft water – eutrophication and its effects – Harmful algal blooms (HAB's)- Acid Mine drainage – principal wastage treatment – Industrial waste water treatment.	Industrial waste water treatment.	Assignment seminar	3	Yes						
13	3rd week	3	Unique physical and chemical properties of water – water quality and criteria for finding of water quality – Dissolved oxygen – BOD, COD, Suspended solids, total dissolved solids, alkalinity –	alkalinity		3							
14	4th week	3	UNIT-IV Chemical Toxicology 9h Toxic chemicals in the environment – effects of toxic chemicals – cyanide and its toxic effects – pesticides and its biochemical effects –	pesticides and its biochemical effects	Assignment seminar	3	Yes						
15	5th week	3	toxicity of lead, mercury, arsenic and cadmium.	toxicity of lead, mercury, arsenic and cadmium	Assignment seminar	3	Yes						
16	July 1st week	0											
17	2nd week	3	Carcinogens	Carcinogens	Assignment seminar	3	Yes						
18	3rd week	3	UNIT-V Ecosystem Concepts – structure – Functions and types of ecosystem – Abiotic	– Energy flow and Energy dynamics of ecosystem	Assignment seminar	3	Yes						

			and biotic components – Energy flow and Energy dynamics of ecosystem –									
19	4th week	3	Food chains – Food web – Tropic levels – Biogeochemical cycles (carbon, nitrogen and phosphorus)Characteristics features of important ecosystems like forests, desert, pond, River and Ocean	Food chains	Assignment seminar	3	Yes					
20	5th week	3	Biodiversity Definition – level and types of biodiversity – concept - significance – magnitude and distribution of biodiversity – trends - biogeographical classification of india – biodiversity at national, global and regional level.Threats to biodiversity, Conservation of biodiversity	Biodiversity	Assignment seminar	3	Yes					
		45				45						

# ANNUAL ACADEMIC CURRICULAR PLAN 2021 - 2022

Name of the College : Govt. College for Women, Guntur

Name of the Lecturer : Dr. Ch. Praveen

Name of the Department : Sanskrit  
 Class : B.A.A.Sem.I, S. Year : I Degree. Paper : 1

S. No.	Month & Week	Hours available	Syllabus / Topic	Additional Input / Value Addition Provided / Taught	Curricular Activity				Co-Curricular Activity				Remarks
					Activity Conducted	Hours allotted	Whether conducted	If not, alternate date	Activity Conducted	Hours allotted	Whether conducted	If not, alternate date	
1	Dec 1	200	अनुसूचीकरणः	Language skills	Speaking activity	12	yes	-	संक्षेपः	2	yes	-	-
	Dec 2		व्यंजनः	Language skills	Question and answer activity	12	yes		व्यंजनः	2	yes		
	Dec 3rd		श्लोकः राम - दाम, राम - दाम	Drilling Spoken skills	Drilling	12	yes		श्लोकः	2	yes		


# ANNUAL ACADEMIC CURRICULAR PLAN 20<sup>21</sup> - 20<sup>22</sup>

Name of the College : Govt. College for Women

Name of the Department : Sanskrit

Name of the Lecturer : Dr. Ch. Praveen

Class : B.A., B.Com, B.Sc Year : I Year Paper :

S. No.	Month & Week	Hours available	Syllabus / Topic	Additional Input / Value Addition Provided / Taught	Curricular Activity				Co-Curricular Activity				
					Activity Conducted	Hours allotted	Whether conducted	If not, alternate date	Activity Conducted	Hours allotted	Whether conducted	If not, alternate date	
	Mar 1st week		समीक्षा : संस्कृत (Revision)		समीक्षा : पत्रादि	10	2 yes	yes		समीक्षा : पत्रादि	2	yes	-
END SEMESTER EXAMINATIONS													
 PRINCIPAL GOVT. COLLEGE FOR WOMEN (A) GUNTUR.													



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**ANNUAL ACADEMIC PLAN**  
**2021-22**

**Submitted by**

**Dr. D. MALLIKARJUNA REDDY**

**Assistant Professor**

**Department of Chemistry**

## Annual Curricular Plan 2021-22: I-B.Sc.-I- Semester – A1(M.P.C.)-Section

S.No.	Month & Week	Hours Available	Syllabus & Topic	Addl. Inputs/ Value Addition taught	Curricular Activities				Co-curricular Activities			
					Activity Conducted	Hours Allotted	Whether Conducted	It not alternate date	Activity Conducted	Hours Allotted	Whether Conducted	It not alternate date
1	November-2021											
	1 <sup>st</sup> Week	4	<b>Bridge Course-</b> Atomic Structure; Bridge Course- Chemical bonding: Ionic, covalent, coordination covalent and hydrogen bonds; VB Theory, VSEPR Theory		Lecture Method	4	Yes		Pre-bridge course test	1	Yes	
		2	Analysis of mixture of salts		Practical	2	Yes					
	2 <sup>nd</sup> Week	3	<b>Bridge Course-</b> Organic Chemistry, Nomenclature of derivatives of hydrocarbons, bond cleavage and electrophilic and nucleophilic reagents Nomenclature of organic compounds		Lecture Method	4	Yes		Bridge course test	1	Yes	
		2	Analysis of mixture of salts		Practical	2	Yes					

	<b>3<sup>rd</sup> Week</b>	4	Discussion on Syllabus <b>Unit-I: Chemistry of p-Block elements:</b> Preparation, structure of diborane and borazine; Synthesis and preparation of siloxanes; Preparation, structure and uses of silicones;		Lecture Method	4	Yes		Assignment			
		2	Analysis of mixture of salts		Practical	2	Yes					
	<b>4<sup>th</sup> Week</b>	4	<b>Chemistry of p-Block elements:</b> Phosphonitrilic halides; Oxides and oxyacids of sulfur (structure only); Interhalogen compounds; Pseudohalogens;		Lecture Method	4	Yes					
		2	Analysis of mixture of salts		Practical	2	Yes					
	<b>5<sup>th</sup> Week</b>	2	<b>Unit-II: Chemistry of d-block elements:</b> Electronic configuration; Variable oxidation states, stability of oxidation states.		Lecture Method	2	Yes		Assignment			

2	December-2021											
	1 <sup>st</sup> Week	2	<b>Unit-II: Chemistry of d-block elements:</b> Complex formation, color and catalytic properties of d-block elements Magnetic properties of d-block elements;		Lecture Method	2	Yes					
		2	Analysis of mixture of salts		Practical	2	Yes					
	2 <sup>nd</sup> Week	3	<b>Unit-II:</b> Introduction and electronic configuration and oxidation states; Lanthanide and actinide contractions and its consequences;		Lecture Method	3	Yes					
		2	Analysis of mixture of salts		Practical	2	Yes					
	3 <sup>rd</sup> Week	4	<b>Unit-II: Chemistry of f-Block elements:</b> Magnetic properties of f-block elements <b>Unit-II: Bonding in Metals:</b> General properties of metals and free-electron theory, V.B.		Lecture Method	4	Yes		Student seminar	1	Yes	

			theory, band theory of metallic bonding									
		2	Analysis of mixture of salts		Practical	2	Yes					
	<b>4<sup>th</sup> Week</b>	2	<b>Unit-II: Bonding in Metals:</b> Conductors, semiconductors and insulators <b>Unit-III: Solid State:</b> Symmetry in crystals		Lecture Method	2	Yes					
		2	Analysis of mixture of salts		Practical	2	Yes					
	<b>5<sup>th</sup> Week</b>	2	<b>Unit-III: Solid State:</b> Law of constancy of interfacial angles. The law of rationality of indices. The law of symmetry. Miller indices		Lecture method	2	Yes		Assignment			
		2	Analysis of mixture of salts		Practical	2	Yes					
<b>Mid-I examinations</b>												
<b>3</b>	<b>January-2022</b>											
	<b>2<sup>nd</sup> Week</b>	3	<b>Unit-III: Solid State:</b> Definition of lattice point, space lattice, unit cell. Bravais lattices and crystal systems.		Lecture method	3	Yes		Assignment			

			X-ray diffraction and crystal structure. Bragg's law. Powder method.									
		2	Analysis of mixture of salts		Practical	2	Yes					
	<b>3<sup>rd</sup> Week</b>	2	<b>Unit-III: Solid State:</b> Defects in crystals. Stoichiometric and non-stoichiometric defects.		Lecture method	3	Yes					
	<b>4<sup>th</sup> Week</b>	4	<b>UNIT-IV: Gaseous State:</b> van der Waal's equation of state. Andrew's isotherms of carbon dioxide, continuity of state. Critical phenomena. Relationship between critical constants and vander Waal's constants.		Lecture method	4	Yes		Assignment			
		2	Analysis of mixture of salts		Practical	2	Yes					
	<b>5<sup>th</sup> Week</b>	4	<b>UNIT-IV: Gaseous State:</b> Law of corresponding states. Joule-Thomson effect.		Lecture method	4	Yes					

			Inversion temperature. <b>UNIT-IV: Liquid State:</b> Liquid crystals, mesomorphic state. Differences between liquid crystal and solid/liquid.									
		2	Analysis of mixture of salts		Practical	2	Yes					
<b>4</b>	<b>February-2022</b>											
	<b>1<sup>st</sup> Week</b>	3	<b>UNIT-IV: Liquid State:</b> Classification of liquid crystals into Smectic and Nematic. Application of liquid crystals as LCD devices. <b>UNIT-V: Solutions, Ionic equilibrium &amp; dilute solutions:</b> Ionic product, common ion effect, solubility and solubility product. Calculations based on solubility product.		Lecture method	3	Yes		Quiz			
		2	Analysis of mixture of salts		Practical	2	Yes					

	2 <sup>nd</sup> Week	4	<b>UNIT-V: Solutions, Ionic equilibrium &amp; dilute solutions:</b> Azeotropes-HCl-H <sub>2</sub> O system and ethanol-water system. Partially miscible liquids-phenol-water system. Critical solution temperature (CST), Effect of impurity on consolute temperature.		Lecture method	4	Yes		Assignment			
		2	Analysis of mixture of salts		Practical	2						
	3 <sup>rd</sup> Week	4	<b>UNIT-V: Solutions, Ionic equilibrium &amp; dilute solutions:</b> Immiscible liquids and steam distillation. Nernst distribution law. Calculation of the partition coefficient. Applications of distribution law. Colligative properties- RLVP, Osmotic pressure, Elevation in boiling point and		Lecture method	4						



## Annual Curricular Plan 2021-22: I-B.Sc.-II- Semester – A1(M.P.C.)-Section

S.No.	Month & Week	Hours Available	Syllabus & Topic	Addl. Inputs/ Value Addition taught	Curricular Activities				Co-curricular Activities			
					Activity Conducted	Hours Allotted	Whether Conducted	It not alterna te date	Activity Conducted	Hours Allotted	Whether Conducted	It not alterna te date
1	March-2021											
	3 <sup>rd</sup> Week	4	<b>Recapitulation of Basics of Organic Chemistry</b> <b>Unit-I: Carbon-Carbon sigma bonds (Alkanes and Cycloalkanes):</b> General methods of preparation of alkanes- Wurtz and Wurtz-Fittig reaction, Corey House synthesis, physical and chemical properties of alkanes, Isomerism and its effect on properties,		Lecture Method	4						
		2	Volumetric Analysis		Practical	2						
	4 <sup>th</sup> Week	4	<b>Unit-I: Carbon-Carbon sigma bonds (Alkanes and Cycloalkanes):</b>		Lecture Method	4			Assignment			

			Free radical substitutions; Halogenation, concept of relative reactivity v/s selectivity. Conformational analysis of alkanes (Conformations, relative stability and energy diagrams of Ethane, Propane and butane).									
		2	Volumetric Analysis		Practical	2						
	<b>5<sup>th</sup> Week</b>	3	<b>Unit-I: Carbon-Carbon sigma bonds (Alkanes and Cycloalkanes):</b> General molecular formulae of cycloalkanes and relative stability, Baeyer strain theory, Cyclohexane conformations with energy diagram, Conformations of monosubstituted cyclohexane.		Lecture Method	4			Assignment			
		2	Volumetric Analysis		Practical	2						

2	April-2022											
	2 <sup>nd</sup> Week	3	<b>UNIT-II: Carbon-Carbon pi Bonds (Alkenes and Alkynes):</b> General methods of preparation, physical and chemical properties. Mechanism of E1,E2,E1cb reactions, Saytzeff and Hoffmann eliminations, Electrophilic Additions, mechanism(Mark ownikoff/Antimar kownikoff addition) with suitable examples.		Lecture Method	4			Assignment			
		2	Volumetric Analysis		Practical	2						
	3 <sup>rd</sup> Week	4	<b>UNIT-II: Carbon-Carbon pi Bonds (Alkenes and Alkynes):</b> Syn and anti- addition, addition of H <sub>2</sub> , X <sub>2</sub> , HX, oxymercuration- demercuration. hydroboration- oxidation,		Lecture Method	4						

			ozonolysis, hydroxylation, Diels Alder reaction, 1,2- and 1,4-addition reactions in conjugated dienes.									
		2	Volumetric Analysis		Practical	2						
	<b>4<sup>th</sup> Week</b>	4	<b>UNIT-II: Carbon-Carbon pi Bonds (Alkenes and Alkynes):</b> Reactions of alkynes; acidity, electrophilic and nucleophilic additions, hydration to form carbonyl compounds, Alkylation of terminal alkynes.		Lecture Method	4			Assignment			
		2	Volumetric Analysis		Practical	2						
		Mid-I examinations										
<b>3</b>	<b>May-2022</b>											
	<b>1<sup>st</sup> Week</b>	4	<b>Unit-III: Benzene and its reactivity:</b> Concept of aromaticity, Huckel's rule - application to Benzenoid (Benzene,		Lecture Method	4						

			Naphthalene) and Non - Benzenoid compounds (cyclopropenyl cation, cyclopentadienyl anion and tropylium cation)									
		2	Volumetric Analysis		Practical	2						
	<b>2<sup>nd</sup> Week</b>	4	<b>Unit-III: Benzene and its reactivity:</b> Reactions - General mechanism of electrophilic aromatic substitution, mechanism of nitration, Friedel-Craft's alkylation and acylation. Orientation of aromatic substitution - ortho, para and meta directing groups.		Lecture Method	4			Quiz			
		2	Volumetric Analysis		Practical	2						
	<b>3<sup>rd</sup> Week</b>	4	<b>Unit-III: Benzene and its reactivity:</b> Ring activating and deactivating groups with examples		Lecture Method	4						

			(Electronic interpretation of various groups like NO <sub>2</sub> and Phenolic). Orientation of (i) amino, methoxy and methyl groups (ii) Carboxy, nitro, nitrile, carbonyl and sulphonic acid groups (iii) Halogens									
		2	Volumetric Analysis		Practical	2						
	4 <sup>th</sup> Week	2	<b>UNIT-IV: Surface chemistry and chemical bonding: Colloids-</b> Coagulation of colloids- Hardy-Schulze rule. Stability of colloids, Protection of Colloids, Gold number.		Lecture Method	2			Students Seminar			
		2	Volumetric Analysis		Practical	2						
<b>Mid-II Examinations</b>												

	5 <sup>th</sup> Week	2	<b>UNIT-IV: Surface chemistry and chemical bonding: Colloids-Adsorption-</b> Physical and chemical adsorption, Langmuir adsorption isotherm, applications of adsorption.									
4	June-2022											
	1 <sup>st</sup> Week	2	<b>UNIT-IV: Chemical Bonding:</b> Valence bond theory, hybridization, VB theory as applied to $\text{ClF}_3$ , $\text{Ni}(\text{CO})_4$ ,		Lecture Method	2						
		2	Volumetric Analysis		Practical	2						
	2 <sup>nd</sup> Week	4	<b>UNIT-IV: Chemical Bonding:</b> Molecular orbital theory -LCAO method, construction of M.O. diagrams for homo-nuclear and hetero-nuclear diatomic		Lecture Method	4			Assignment			

			molecules (N <sub>2</sub> , O <sub>2</sub> , CO and NO). <b>Unit-IV: HSAB:</b> Pearson's concept, HSAB principle & its importance, bonding in Hard-Hard and Soft-Soft combinations.									
		2	Volumetric Analysis		Practical	2						
	<b>3<sup>rd</sup> Week</b>	4	<b>Unit-V: Stereochemistry of carbon compounds:</b> Molecular representations- Wedge, Fischer, Newman and Saw-Horse formulae. Optical isomerism: Optical activity- wave nature of light, plane polarised light, optical rotation and specific rotation.		Lecture Method	4						
		2	Volumetric Analysis		Practical	2						
	<b>4<sup>th</sup> Week</b>	4	<b>Unit-V: Stereochemistry of carbon compounds:</b>						Students Seminar			

			Chiral molecules- definition and criteria (Symmetry elements)- Definition of enantiomers and diastereomers – Explanation of optical isomerism with examples- Glyceraldehyde, Lactic acid, Alanine, Tartaric acid, 2,3- dibromopentane. D,L, R,S and E,Z- configuration with example								
		2	Volumetric Analysis		Practical	2					
	5 <sup>th</sup> Week	3	<b>Unit-V: Stereochemistry of carbon compounds:</b> Definition of Racemic mixture – Resolution of racemic mixtures (any 3 techniques) and <b>Remedial Classes</b>						Assignment		
<b>5</b>	<b>July</b>										
	1 <sup>st</sup> Week	<b>End Semester Examinations</b>									



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**ANNUAL ACADEMIC PLAN**  
**2021-22**

**Submitted by**

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**Assistant Professor**

**Department of Chemistry**

## Annual Curricular Plan 2021-22 (II-B.Sc.-III- Semester – B2 (Mi.B.C.)-Section)

S.No.	Month & Week	Hours Available	Syllabus & Topic	Addl. Inputs/ Value Addition taught	Curricular Activities				Co-curricular Activities			
					Activity Conducted	Hours Allotted	Whether Conducted	It not alternate date	Activity Conducted	Hours Allotted	Whether Conducted	It not alternate date
1	November-2021											
	5 <sup>th</sup> Week	1	Discussion on topics of syllabus		Lecture Method	1	Yes					
2	December-2021											
	1 <sup>st</sup> Week	3	<b>Unit-IV: Molecular Spectroscopy:</b> Introduction to molecular spectroscopy; Rotational spectroscopy: Principle and Theory Selection rule, frequency of rotational lines, relative intensity rotational spectral lines, determination bond length and moment of inertia		Lecture Method	3	Yes					
		2	Organic Preparations		Practical	2	Yes					

	2 <sup>nd</sup> Week	3	<b>Unit-IV: Molecular Spectroscopy:</b> Rotational spectroscopy-determination bond distances of polyatomic molecules using isotopic substitution method; Vibrational spectroscopy-introduction and principle; derivation of fundamental vibrational frequency; calculation of force constant, frequency and reduced mass	Application of microwave radiation in microwave oven (internal heating)	Lecture Method	3	Yes		Assignment	1	Yes	
		2	Organic Preparations		Practical	2	Yes					
	3 <sup>rd</sup> Week	2	<b>Unit-IV: Molecular Spectroscopy:</b> Harmonic and anharmonic oscillators, selection rule; vibrational modes in polyatomic molecules; different types of vibrations and		Lecture Method	2	Yes					

			vibrational frequencies Types of IR bands, IR bands in water, co2 molecules									
		<b>Mid-I Examinations</b>										
		2	Organic Preparations		Practical	2						
	4 <sup>th</sup> Week	2	<b>Unit-V: Applications of IR spectroscopy;</b> Applications IR Spectroscopy for organic functional groups Interpretation of IR spectra of organic compounds		Lecture Method	2			Assignment			
		2	Organic Preparations		Practical	2						
	5 <sup>th</sup> Week	3	<b>Unit-IV: Molecular Spectroscopy:</b> Franck-Condon principle and electronic energy levels in organic molecules; Types of electronic transitions, commons terms used in electronic spectra;		Lecture Method	3						
		2	Organic Preparations		Practical	2						

3	January-2022											
	2 <sup>nd</sup> Week	4	<b>Unit-V: Applications of UV-Vis spectroscopy;</b> Calculation of lambda maximum of dienes, alpha, beta-unsaturated ketones by Woodward fieser's rules; Beer's law; Introduction to NMR Spectroscopy;		Lecture Method	4			Students Seminar			
		2	Organic Preparations		Practical	2						
	3 <sup>rd</sup> Week	2	<b>Unit-IV: Molecular Spectroscopy:</b> Theory and Principle of NMR Spectroscopy; equivalent and non-equivalent protons, position of signals.		Lecture Method	2			Assignment			
		2	Organic Preparations		Practical	2						
4	February-2022											
	1 <sup>st</sup> Week	3	<b>Unit-IV: Molecular Spectroscopy:</b>		Lecture Method	3						

			Chemical shift, NMR splitting of signals - spin-spin coupling, coupling constants. Applications of NMR with suitable examples - ethyl bromide, ethanol, acetaldehyde, 1,1,2-tribromo ethane, ethyl acetate, toluene and acetophenone.								
		2	Organic Preparations		Practical	2					
	2 <sup>nd</sup> Week	4	<b>Unit-I Chemistry of Halogenated Hydrocarbons:</b> Alkyl halides: Methods of preparation and properties, nucleophilic substitution reactions; SN1, SN2 and SNi mechanisms with stereochemical aspects and effect of solvent; nucleophilic substitution vs elimination; Williamson's synthesis; Aryl		Lecture Method	4			Assignment		

			halides: Preparation(including preparation from diazoniumsalts) and properties, nucleophilic aromatic substitution; S <sub>N</sub> Ar, Benzyne mechanism.									
		2	Organic Preparations		Practical	2						
	3 <sup>rd</sup> Week	4	<b>Unit-I Chemistry of Halogenated Hydrocarbons:</b> Relative reactivity of alkyl, allyl, benzyl, vinyl and aryl halides towards nucleophilic substitution reactions. <b>Unit-I: Alcohols &amp; Phenols</b> Alcohols: preparation, properties and relative reactivity of 1°, 2°, 3° alcohols; Bouvaelt-Blanc Reduction; Oxidation of diols by periodic acid and lead tetra acetate, Pinacol-		Lecture Method	4						

			Pinacolone rearrangement;									
		2	Organic Preparations		Practical	2						
	4 <sup>th</sup> Week	2	<b>Unit-I: Alcohols &amp; Phenols</b> Phenols: Preparation and properties; Acidity and factors effecting it, Ring substitution reactions, Reimer-Tiemann and Kolbe's-Schmidt Reactions, Fries and Claisen rearrangements with mechanism		Lecture Method	2			Assignment			
		2	Organic Preparations		Practical	2						
<b>Mid-II examinations</b>												
<b>5</b>	<b>March-2022</b>											
	1 <sup>st</sup> Week	3	<b>Unit-II Carbonyl Compounds:</b> Structure, reactivity, preparation and properties; Nucleophilic additions, Nucleophilic addition-elimination reactions with		Lecture Method	3						

			ammonia derivatives									
		2	Organic Preparations		Practical	2						
	2 <sup>nd</sup> Week	3	<b>Unit-II Carbonyl Compounds:</b> Mechanisms of Aldol and Benzoin condensation, Claisen-Schmidt, Perkin, Cannizzaro and Wittig reaction, Beckmann haloform reaction and Baeyer Villiger oxidation, $\alpha$ -substitution reactions, oxidations and reductions (Clemmensen, wolf-kishner, with LiAlH <sub>4</sub> & NaBH <sub>4</sub> ).		Lecture Method	3			Assignment			
		2	Organic Preparations		Practical	2						
	3 <sup>rd</sup> Week	4	<b>Unit-II Carbonyl Compounds:</b> Addition reactions of $\alpha,\beta$ -unsaturated carbonyl compounds: Michael addition. Active methylene compounds: Keto-enol tautomerism.		Lecture Method	4						

			Preparation and synthetic applications of diethyl malonate and ethylacetoacetate.									
		2	Organic Preparations		Practical	2						
	4 <sup>th</sup> Week	4	<b>UNIT-III: Carboxylic Acids and their Derivatives</b> General methods of preparation, physical properties and reactions of monocarboxylic acids, effect of substituents on acidic strength. Typical reactions of dicarboxylic acids, hydroxyl acids and unsaturated acids.		Lecture Method	4			Quiz			
		2	Organic Preparations		Practical	2						
	5 <sup>th</sup> Week	3	<b>UNIT-III: Carboxylic Acids and their Derivatives:</b> Preparation and reactions of acid chlorides, anhydrides, esters and amides; Comparative		Lecture Method	4			Assignment			

			study of nucleophilic substitution at acyl group- Mechanism of acidic and alkaline hydrolysis of esters, Claisen condensation, Reformatsky reactions and Curtius rearrangement									
		2	Organic Preparations		Practical	2						
<b>6</b>	<b>April-2022</b>											
	<b>1<sup>st</sup> Week</b>	4	<b>UNIT-III: Carboxylic Acids and their Derivatives:</b> Reactions involving H, OH and COOH groups- salt formation, anhydride formation, acid chloride formation, amide formation and esterification (mechanism). Degradation of carboxylic acids by Huns-Diecker reaction, decarboxylation						Students Seminar			



## Annual Curricular Plan 2021-22 (II-B.Sc.-IV- Semester – B2 (Mi.B.C.)-Section)

S.No.	Month & Week	Hours Available	Syllabus & Topic	Addl. Inputs/ Value Addition taught	Curricular Activities				Co-curricular Activities			
					Activity Conducted	Hours Allotted	Whether Conducted	It not alternate date	Activity Conducted	Hours Allotted	Whether Conducted	It not alternate date
1	April-2022											
	3 <sup>rd</sup> Week	4	<b>Unit-I: Coordination Chemistry</b> IUPAC nomenclature of coordination compounds, Structural and stereoisomerism in complexes with coordination numbers 4 and 6. Valence Bond Theory (VBT): Inner and outer orbital complexes. Limitations of VBT.		Lecture Method	4						
		2	Conductometric and Potentiometric Titrimetry		Practical	2						
	4 <sup>th</sup> Week	4	<b>Unit-I: Coordination Chemistry:</b> Crystal field effect, octahedral symmetry. Crystal field stabilization		Lecture Method	4						

			energy (CFSE), Crystal field effects for weak and strong fields. Tetrahedral symmetry, Factors affecting the magnitude of crystal field splitting energy, Spectrochemical series,									
		2	Conductometric and Potentiometric Titrimetry		Practical	2						
2	May-2022											
	1 <sup>st</sup> Week	3	<b>Unit-I: Coordination Chemistry:</b> Comparison of CFSE for Octahedral and Tetrahedral complexes, Tetragonal distortion of octahedral geometry, Jahn-Teller distortion, square planar coordination.		Lecture Method	3	Yes					
		2	Conductometric and Potentiometric Titrimetry		Practical	2	Yes					

	2 <sup>nd</sup> Week	4	<b>UNIT –II: Inorganic Reaction Mechanism:</b> Introduction to inorganic reaction mechanisms. Concept of reaction pathways, transition state, intermediate and activated complex. Labile and inert complexes, ligand substitution reactions - SN1 and SN2, Substitution reactions in square planar complexes, Trans-effect, theories of trans effect and its applications	Lecture Method	4	Yes		Assignment	1	Yes	
		2	Conductometric and Potentiometric Titrimetry	Practical	2	Yes					
	3 <sup>rd</sup> Week	2	<b>UNIT –II: Stability of metal complexes:</b> Thermodynamic stability and kinetic stability, factors affecting the stability of metal complexes,	Lecture Method	2	Yes					

			chelate effect, determination of composition of complex by Job's method and mole ratio method.									
		<b>Mid-I Examinations</b>										
		2	Conductometric and Potentiometric Titrimetry		Practical	2						
	4 <sup>th</sup> Week	4	<b>Unit-II: Bioinorganic Chemistry:</b> Metal ions present in biological systems, classification of elements according to their action in biological system. Geochemical effect on the distribution of metals, Sodium/K-pump, carbonic anhydrase and carboxypeptidase.		Lecture Method	4				Assignment		
		2	Conductometric and Potentiometric Titrimetry		Practical	2						

	5 <sup>th</sup> Week	2	<b>Unit-II: Bioinorganic Chemistry:</b> Excess and deficiency of some trace metals. Toxicity of metal ions (Hg, Pb, Cd and As), reasons for toxicity, Use of chelating agents in medicine, Cisplatin as an anti-cancer drug.		Lecture Method	3						
		2	Conductometric and Potentiometric Titrimetry		Practical	2						
<b>3</b>	<b>June-2022</b>											
	1 <sup>st</sup> Week	2	<b>Unit-II: Bioinorganic Chemistry:</b> Iron and its application in bio-systems, Haemoglobin, Myoglobin. Storage and transfer of iron.		Lecture Method	2			Students Seminar			
	2 <sup>nd</sup> Week	4	<b>Unit-III: Phase rule</b> Concept of phase, components, degrees of freedom. Thermodynamic derivation of Gibbs phase rule.		Lecture Method	4						

			Phase diagram of one component system - water system, Study of Phase diagrams of Simple eutectic systems i) Pb-Ag system, desilverisation of lead ii) NaCl-Water system									
		2	Conductometric and Potentiometric Titrimetry		Practical	2						
	3 <sup>rd</sup> Week	4	<b>Unit-III: Phase rule</b> Congruent and incongruent melting point- Definition and examples for systems having congruent and incongruent melting point , freezing mixtures. <b>UNIT-IV: Electrochemistry</b> Specific conductance, equivalent conductance and molar conductance- Definition and effect of dilution. Cell constant. Strong and weak		Lecture Method	4			<b>Assignment</b>			

			electrolytes, Kohlrausch's law and its applications,									
		2	Conductometric and Potentiometric Titrimetry		Practical	2						
	4 <sup>th</sup> Week	4	<b>UNIT-IV: Electrochemistry</b> Definition of transport number, determination of transport number by Hittorf's method. Debye-Huckel-Onsager's equation for strong electrolytes (elementary treatment only), Application of conductivity measurements- conductometric titrations. Electrochemical Cells- Single electrode potential.		Lecture Method	4						
		2	Conductometric and Potentiometric Titrimetry		Practical	2						
	5 <sup>th</sup> Week	<b>Mid-II examinations</b>										
<b>4</b>	<b>July-2022</b>											
	1 <sup>st</sup> Week	2	<b>UNIT-IV: Electrochemistry</b>		Lecture Method	2						

			Types of electrodes with examples: Metal-metal ion, Gas electrode, Inert electrode, Redox electrode, Metal-metal insoluble salt- salt anion.									
	2 <sup>nd</sup> Week	3	<b>UNIT-IV: Electrochemistry</b> Determination of EMF of a cell, Nernst equation, Applications of EMF measurements - Potentiometric titrations. Fuel cells- Basic concepts, examples and applications <b>UNIT-V: Chemical Kinetics</b> The concept of reaction rates. Effect of temperature, pressure, catalyst and other factors on reaction rates.		Lecture Method	3			Quiz			
		2	Conductometric and Potentiometric Titrimetry		Practical	2						
	3 <sup>rd</sup> Week	4	<b>UNIT-V: Chemical</b>		Lecture Method	4						

			<b>Kinetics</b> Order and molecularity of a reaction, Derivation of integrated rate equations for zero, first and second order reactions (both for equal and unequal concentrations of reactants). Half-life of a reaction. General methods for determination of order of a reaction.								
		2	Conductometric and Potentiometric Titrimetry		Practical	2					
	4 <sup>th</sup> Week	4	<b>UNIT-V: Chemical Kinetics</b> Concept of activation energy and its calculation from Arrhenius equation. Theories of Reaction Rates: Collision theory and Activated Complex theory of bimolecular reactions. Comparison of the two theories		Lecture Method	4			Assignment		



GOVERNMENT DEGREE COLLEGE: GUNTUR-522001

ANNEXURE-I

A MODAL FORMAT FOR CIRCULAR PLAN (SEMESTER)-LECTURER WISE

DEPARTMENT: PHYSICS

CLASS: I B.Sc

YEAR: 2021-22

PAPER: I

TITLE: MECHANICS, WAVES AND OSCILLATIONS

NAME OF THE LECTURER: D. VIJAYA SRI

Month	Week	Hours available	Subject/Topic	Additional input	Curricular activity				Co-Curricular activity				
					Activity	Hours	Whether conducted	If not	Activity	Hours allotted	Whether conducted	If not	
NOV	4	23	Mechanics of Particles	1. Parallel & Perpendicular axes	Bridge course	1 h	Yes	--	Quiz	1 h	Yes		
DEC	4	22	Motion in a Central force field	1. Motion under inverse square law 2. Newton's law from Kepler's Laws	Assignment-I	1 h	Yes	---	G.D	1 h	Yes		
JAN	4	20	Relativistic Mechanics	Experimental verification of Time dilation	Student Seminars	1 h	Yes	--	Student projects		Yes		
FEB	4	21	Undamped, Damped & Forced Oscillations Ultrasonics	1. Compound pendulum 2. Torsional Pendulum 1. Determination of Wavelength-Sear's Method	Assignment-II				Study hours	1 h			
March	4	23	Coupled oscillations Vibrating Strings Mechanics of Rigid Bodies	Modes of Vibration of a stretched string clamped at middle					Remedial classes				

  
D. VIJAYA SRI

  
V.R. PRASAD  
PRINCIPAL  
GOVT. COLLEGE FOR WOMEN (A)  
GUNTUR.

# ANNUAL CURRICULAR PLAN 2021-22

## IB.sc(Computer Science)- Sem-I Problem Solving in C

Teacher : M. Emelga Rani

Sl. No	Month & Week	Hours Available	Syllabus & Topic	Addl. Input/Value Addition taught	Curricular Activity			Co-Curricular Activity				
					Activity Conducted	Hours Allotted	Whether Conducted	If not alternate date	Activity Conducted	Hours Allotted	Whether Conducted	If not alternate date
1	Nov 4 <sup>th</sup> Week	4	Unit-I <b>Syllabus discussed</b> Introduction to computers: Block diagram of a computer, characteristics	Demo On computer	Theory + Practical	2+2	yes		Elicitation From Previous topics	1	yes	
2	Dec 1 <sup>st</sup> week	5	Unit-I limitations of computers, applications of computers, types of computers	Demo on applications of computers	Theory + Practical	3+2	yes		Assignment	1	yes	
3	Dec 2 <sup>nd</sup> week	4	Unit-I computer generations. Programming Languages:		Theory + Practical	2+2	yes		Brain Storming	1	yes	
4	Dec 3 <sup>rd</sup> week	6	Unit-I Algorithm – Key features of Algorithms Flow Charts, Programming Languages	Demo On Algorithms	Theory + Practical	4+2	yes		Exam	1	yes	
5	Dec 4 <sup>th</sup> Week	6	Unit-I Generations of Programming Languages – Structured Programming Language,-Design and Implementation of Correct, Efficient and Maintainable Programs.	Demo on SDLC	Theory + Practical	4+2	yes		Quiz	1	yes	

6	Dec 5 <sup>th</sup> Week	3	<b>Unit-II</b> <b>Introduction to C: Introduction – Structure of C Program – Writing the first C Program</b>	Demo On Structure of C Program		1+2	yes			yes
7	Jan 1 <sup>st</sup> week	6	<b>Unit-II</b> File used in C Program – Compiling and Executing C Programs – Using Comments – Keywords	Demo On C tokens		4+2	yes			yes
8	Jan 2 <sup>nd</sup> week	5	<b>Unit-II</b> Identifiers – Basic Data Types in C – Variables – Constants –	Demo On C tokens	Theory + Practical	3+2	yes		1	yes
9	Jan 3 <sup>rd</sup> week	2	<b>Unit-II</b> I/O Statements in C,	Demo On C tokens	Theory + Practical	0+2	yes	Seminars	1	yes
10	Jan 4 <sup>th</sup> Week	4	<b>Unit-II</b> Operators in C- Programming Examples	Demo On C tokens	Theory + Practical	2+2	yes	Assignment	1	yes
11	Jan 5 <sup>th</sup> Week	6	<b>Unit-II</b> Decision Control and Looping Statements: Introduction	Demo on If- else		4+2				yes
12	Feb 1 <sup>st</sup> week k	6	<b>Unit-II</b> Conditional Branching Statements	Demo on If- else	Theory + Practical	4+2	yes			yes
13	Feb 2 <sup>nd</sup> week	4	<b>Unit-II</b> Iterative Statements, Nested Loops – Break and Continue Statement – Goto Statement	Demo On While, for loop	Theory + Practical	2+2	yes	Exam	1	yes

14	Feb 3 <sup>rd</sup> week	5	Unit-III Arrays: Introduction – Declaration of Arrays – Accessing elements of the Array – Storing Values in Array	Demo On Arrays	Theory + Practical	3+2	yes		1	yes
15	Feb 4 <sup>th</sup> Week	6	Unit-III Operations on Arrays		Theory + Practical	4+2	yes yes	Assignment	1	yes yes
16	Mar 1 <sup>st</sup> week	5	Unit-III one dimensional, two dimensional and multi-dimensional arrays, character handling and strings.		Theory + Practical	3+2	yes			yes
17	Mar 2 <sup>nd</sup> week	5	Unit-IV Functions: Introduction – using functions – Function declaration/ prototype – Function definition – function call – return statement – Passing parameters	Demo On functions	Theory + Practical	3+2	yes	Q&A		yes
18	Mar 3 <sup>rd</sup> week	4	Unit-IV Scope of variables – Storage Classes – Recursive functions.	Demo On Scope of variables	Theory + Practical	2+2	yes	Assignment		yes
19	Mar 4 <sup>th</sup> Week	6	Unit-IV Introduction – Nested Structures – Arrays of Structures – Structures and Functions– Union – Arrays of Unions Variables – Unions inside Structures – Enumerated Data Types.	Demo On structures	Theory + Practical	4+2	yes			
20	Mar 5 <sup>th</sup> Week	3	Unit-V Pointers: Understanding Computer Memory – Introduction to Pointers – declaring Pointer Variables	Demo on pointers	Theory + Practical	1+2	yes	Exam		yes

Apr 1 <sup>st</sup> week	5	Unit-V Pointer Expressions and Pointer Arithmetic - Null Pointers - Passing Arguments to Functions using Pointer - Pointer and Arrays Unit-V - Memory Allocation in C Programs - Memory Usage - Dynamic Memory Allocation - Drawbacks of Pointers		Theory + Practical	3+2	yes			yes
Apr 2 <sup>nd</sup> week	6	Unit-V Files: Introduction to Files - Using Files in C- Reading Data from Files - Writing Data to Files		Theory + Practical	4+2	yes	Quiz		yes
Apr 3 <sup>rd</sup> week	4	Unit-V Detecting the End-of-file - Error Handling during File Operations - Accepting Command Line Arguments.	Demo On files	Theory + Practical	2+2	yes	Assignment		yes
Apr 4 <sup>th</sup> Week	6	Unit-V Detecting the End-of-file - Error Handling during File Operations - Accepting Command Line Arguments.	Demo On files	Theory + Practical	4+2				

Signature of Lecturer

Head of the Department

the Principal

# GOVERNMENT COLLEGE FOR WOMEN (A) , GUNTUR

## CURRICULAR PLAN-LECTURER WISE

 Department: **Mathematics**

 Name of the lecturer: **M. Balamma**

 Class: **II B.Sc**

 Year: **2021-2022**

 Paper: **3**

S.No	Month & Week	Hours available	Syllabus topic	Additional input /Value Addition	Curricular Activities			Co-curricular Activity				Remarks	
					Activity	Hours allotted	Whether conducted	If not, alternate	Activity	Hours allotted	Whether conducted		If not, alternate
1	Dec 2 week	2	<b>Groups</b> : Binary operations , properties .		Teaching classes	5	Yes						
	3 week	5	<b>Groups</b> : Semigroups and theorems . <b>Groups</b> : Definition of a group and elementary Properties .		Teaching classes	2	Yes						
	4 week	6	<b>Groups</b> : Finite groups and composition tables		Teaching classes	6	Yes						
	5 week	5	<b>Sub groups</b> : Algebra of subgroups, cosets .		Teaching classes	5	Yes						
	Jan 1 week	5	<b>Cosets</b> : Cosets, theorems on cosets , congruent modulo a subgroup.		Teaching classes	5	Yes						
	2 week	2	<b>Cosets</b> : Lagrange 's theorem for finite group		Teaching classes	2	Yes						
	3 week	6	<b>Cosets</b> : Order of an element in a group .		Teaching classes	6	Yes						
	4 week	5	<b>Normal sub groups</b> : Definition criteria for the existence of a coset multiplication .		Teaching classes	5	Yes						
	5 week	2	<b>Normal sub groups</b> : Necessary and sufficient conditions for a subgroup to be a normal subgroup.		Teaching classes	2	Yes						
	Feb 1 week	5	<b>Normal sub groups</b> : Normalizer, centralizer, factor group.		Teaching classes	5	Yes		Assignment	1			

# GOVERNMENT COLLEGE FOR WOMEN (A), GUNTUR

CURRICULAR PLAN-LECTURER WISE

Year: 2021-2022

Paper: 3

Department: **Mathematics**

Name of the lecturer: M. Balamma

Class: II B.Sc

S.No	Month & Week	Hours available	Syllabus topic	Additional Input /Value Addition	Curricular Activities				Co-curricular Activity			Remarks
					Activity	Hours allotted	Whether conducted	If not, alternate	Activity	Hours allotted	Whether conducted	
	Feb 2 week	5	<b>Homomorphism of groups</b> : Definitions and elementary properties. <b>Homomorphism of groups</b> : Image, kernel and examples.		Teaching classes	5	Yes					
	3 week	6	<b>Homomorphism of groups</b> : Fundamental theorem of homomorphisms, automorphisms.		Teaching classes	6	Yes		Student seminar	1	Conducted	
	4 week	6	<b>Permutation groups</b> : Permutation, group of permutations. Cycles and cyclic notation, even and odd permutations, the alternating group.		Teaching classes	6	Yes					
	March 1 week	4	<b>Permutation groups</b> : Cayley's theorem, Cyclic groups: Elementary properties, subgroups of finite cyclic groups. The classification of cyclic groups.		Teaching classes	4	Yes					
	2 week	5	<b>Rings</b> : Definition and basic properties. <b>Rings</b> : Basic properties and examples.		Teaching classes	5	Yes					
	3 week	5	<b>Rings</b> : Commutative ring, ring with unity and examples. <b>Rings</b> : Boolean ring and examples. <b>Rings</b> : Division ring, field, subring, subfield.		Teaching classes	5	Yes		Assignment	1		
	4 week	6	<b>Integral domain</b> : Divisors of zero, integral domain. <b>Integral domain</b> : Characteristic of a ring, ring. <b>Ideals</b> : Left, right and two sided ideals, algebra of ideals.		Teaching classes	6	Yes					
	5 week	4	<b>Ideals</b> : Principal ideal, principal ideal ring, maximal ideal, prime ideals, quotient ring. <b>Ideals</b> : Quotient		Teaching classes	4	Yes					

chr. M → CBP  
28/9/22

*M. Balamma*

M. Balamma

## SEMESTER ACADEMIC CURRICULAR PLAN: 2021-22

Name of the college: Govt. College for Women, Guntur

Name of the department: Zoology

Name of the lecturer: Sri. K. SRINIVAS

Class: B.Sc.

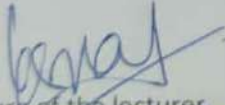
Semester: I

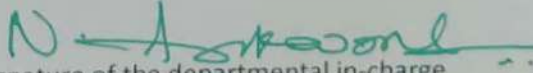
Paper: Animal diversity-I


Month & Year	Hours available	SYLLABUS/ TOPIC	Additional input/ value Addition	Curricular Activity				Co- Curricular Activity				Re marks
				Activity Conducted	Hours allotted	Whether conducted	If not Alternate Date	Activity Conducted	Hours allotted	Whether conducted	If not Alternate Date	
November IV Week	08	Brief history, Scope and branches of zoology, Systematic Classification, significance of diversity of animal kingdom.	Scientific names of familiar animals Literary meanings of Phyla	Teaching	07			Prepare a list of scientific names of animals	01			
December I week	08	Two Kingdom, Three Kingdom, Four Kingdom and Whittaker Five Kingdom Classification Monera, Protista, Fungi, Plantae and Animalia.	Parasitic Protozoans	Teaching								
II Week	08	Phylum: Protozoa, General characters & Classification with suitable examples. Type Study: Elphidium-structure & life history	Working of microscope	Teaching								
III Week	08	Phylum Porifera: - General characters and classification up to classes with suitable examples. Canal systems in Sponges		Teaching	07			Assignment -1	01			

		Phylum coelenterates: - General characters and classification up to classes with suitable examples.												
IV Week	04	Christmas Holidays: 23-01-2021 to 27-12-2021. Polymorphism in coelenterates. Formation of corals and coral reefs.	Corals and their geographical distribution	Teaching										
January I Week	08	Phylum Platyhelminthes: General characters and classification up to orders with suitable examples. Fasciola hepatica external features & life history. Pathogenicity of Fasciola and its prevention.	Helminth parasites- Human diseases	Teaching	07			Assignment -2	01					
II Week	05	PONGAL Holidays:12-01-2022 to 16-01-2022. Phylum Nematoda: - Introduction to phylum and its general characters and classification up to classes with suitable examples.	Helminth parasitic adaptations	Teaching	04			Student Seminar	01					
III Week	08	Ascaris lumbricoidis structure and life history Phylum Annelida: General character and systematic classification up to classes and orders with suitable examples.		Teaching	07			Assignment -3	01					
IV Week	08	Vermicomposting, Vermiculture and its economic importance.		Teaching	08									
February I Week	08	Arthropoda general characters and classification. Metamorphosis in arthropods	Harmful and Useful Insects	Teaching	07			Assignment -4	01					
II Week	02	I Mid- Term examinations from 14-02-2022 to 17-02-2022 Arthropoda classification		Exams and Teaching										

Week	08	Peripatus – connecting link between Annelida and Arthropoda. Its general characters and its connecting characters with the both phyla	Teaching	07			Student Seminar	01			
IV Week	08	Phylum Mollusca: - General character and systematic classification up to classes and orders with suitable examples. Pearl formation in Mollusca.	Teaching	07			Quiz-1	01			
March I Week	04	II Mid Examination Phylum Echinodermata: - General character and systematic classification up to classes	Exams and Teaching	04							
II Week	08	Water Vascular System in Echinodermata. Phylum Hemichordate- General characters and classification. Belanoglossus and its affinities with invertebrates and vertebrates.	Teaching	07			Quiz-2	01			
III Week		Semester End Examinations	Exams								
IV Week		Semester End Examinations	Exams								

  
 Signature of the lecturer,  
 Assistant Professor in Zoology,  
 U.G. & P.G. Dept. of Zoology  
 Govt. College for Women (A)  
 GUNTUR

  
 Signature of the departmental in-charge  
 Head, Dept. of Zoology  
 Govt. Degree College for Women  
 GUNTUR,

  
 PRINCIPAL  
 GOVT. COLLEGE FOR WOMEN (A)  
 GUNTUR.



# Govt. College for Women

(Autonomous)-GUNTUR. 1942 (Established)

Centre with Potential for Excellence

## **ANNUAL ACADEMIC PLAN** **2021-22**

**Submitted by**

**K. Lakshmi Krishna Rao**  
**Assistant Professor**  
**Department of Chemistry**

### Annual Curricular Plan 2021-22: I-B.Sc.-I- Semester – B5, B8 and B9-Sections

S.No.	Month & Week	Hours Available	Syllabus & Topic	Addl. Inputs/ Value Addition taught	Curricular Activities				Co-curricular Activities			
					Activity Conducted	Hours Allotted	Whether Conducted	It not alternate date	Activity Conducted	Hours Allotted	Whether Conducted	It not alternate date
<b>1</b>	<b>November-2021</b>											
	<b>1<sup>st</sup> Week</b>	4	<b>Bridge Course-</b> Atomic Structure; Bridge Course- Chemical bonding: Ionic, covalent, coordination and hydrogen bonds; VB Theory, VSEPR Theory		Lecture Method	4	Yes		Pre-bridge course test	1	Yes	
		2	Analysis of mixture of salts		Practical	2	Yes					
	<b>2<sup>nd</sup> Week</b>	3	<b>Bridge Course-</b> Organic Chemistry, Nomenclature of derivatives of hydrocarbons, bond cleavage and electrophilic and nucleophilic reagents Nomenclature of organic compounds		Lecture Method	4	Yes		Bridge course test	1	Yes	
		2	Analysis of mixture of salts		Practical	2	Yes					

3 <sup>rd</sup> Week	4	Discussion on Syllabus <b>Unit-I: Chemistry of p-Block elements:</b> Preparation, structure of diborane and borazine; Synthesis and preparation of siloxanes; Preparation, structure and uses of silicones;		Lecture Method	4	Yes		Assignment			
	2	Analysis of mixture of salts		Practical	2	Yes					
4 <sup>th</sup> Week	4	<b>Chemistry of p-Block elements:</b> Phosphonitrilic halides; Oxides and oxyacids of sulfur (structure only); Interhalogen compounds; Pseudohalogens;		Lecture Method	4	Yes					
	2	Analysis of mixture of salts		Practical	2	Yes					
5 <sup>th</sup> Week	2	<b>Unit-II: Chemistry of d-block elements:</b> Electronic configuration; Variable oxidation states, stability of oxidation states.		Lecture Method	2	Yes		Assignment			

2	December-2021											
	1 <sup>st</sup> Week	2	<b>Unit-II: Chemistry of d-block elements:</b> Complex formation, color and catalytic properties of d-block elements Magnetic properties of d-block elements;		Lecture Method	2	Yes					
		2	Analysis of mixture of salts		Practical	2	Yes					
	2 <sup>nd</sup> Week	3	<b>Unit-II:</b> Introduction and electronic configuration and oxidation states; Lanthanide and actinide contractions and its consequences;		Lecture Method	3	Yes					
		2	Analysis of mixture of salts		Practical	2	Yes					
	3 <sup>rd</sup> Week	4	<b>Unit-II: Chemistry of f-Block elements:</b> Magnetic properties of f-block elements <b>Unit-II: Bonding in Metals:</b> General properties of metals and free-electron theory, V.B.		Lecture Method	4	Yes			1	Yes	

			theory, band theory of metallic bonding									
		2	Analysis of mixture of salts		Practical	2						
	<b>4<sup>th</sup> Week</b>	2	<b>Unit-II: Bonding in Metals:</b> Conductors, semiconductors and insulators <b>Unit-III: Solid State:</b> Symmetry in crystals		Lecture Method	2						
		2	Analysis of mixture of salts		Practical	2						
	<b>5<sup>th</sup> Week</b>	2	<b>Unit-III: Solid State:</b> Law of constancy of interfacial angles. The law of rationality of indices. The law of symmetry. Miller indices		Lecture method	2			Assignment			
		2	Analysis of mixture of salts		Practical	2						
<b>Mid-I examinations</b>												
<b>3</b>	<b>January-2022</b>											
	<b>2<sup>nd</sup> Week</b>	3	<b>Unit-III: Solid State:</b> Definition of lattice point, space lattice, unit cell. Bravais lattices and crystal systems.		Lecture method	3			Assignment			

			X-ray diffraction and crystal structure. Bragg's law. Powder method.									
		2	Analysis of mixture of salts		Practical	2						
	<b>3<sup>rd</sup> Week</b>	2	<b>Unit-III: Solid State:</b> Defects in crystals. Stoichiometric and non-stoichiometric defects.		Lecture method	3						
	<b>4<sup>th</sup> Week</b>	4	<b>UNIT-IV: Gaseous State:</b> van der Waal's equation of state. Andrew's isotherms of carbon dioxide, continuity of state. Critical phenomena. Relationship between critical constants and vander Waal's constants.		Lecture method	4			Assignment			
		2	Analysis of mixture of salts		Practical	2						
	<b>5<sup>th</sup> Week</b>	4	<b>UNIT-IV: Gaseous State:</b> Law of corresponding states. Joule-Thomson effect. Inversion		Lecture method	4						

			temperature. <b>UNIT-IV: Liquid State:</b> Liquid crystals, mesomorphic state. Differences between liquid crystal and solid/liquid.									
		2	Analysis of mixture of salts		Practical	2						
<b>4</b>	<b>February-2022</b>											
	<b>1<sup>st</sup> Week</b>	3	<b>UNIT-IV: Liquid State:</b> Classification of liquid crystals into Smectic and Nematic. Application of liquid crystals as LCD devices. <b>UNIT-V: Solutions, Ionic equilibrium &amp; dilute solutions:</b> Ionic product, common ion effect, solubility and solubility product. Calculations based on solubility product.		Lecture method	3			Quiz			
		2	Analysis of mixture of salts		Practical	2						
	<b>2<sup>nd</sup> Week</b>	4	<b>UNIT-V: Solutions, Ionic</b>		Lecture	4			Assignment			

			<b>equilibrium&amp; dilute solutions:</b> Azeotropes-HCl-H <sub>2</sub> O system and ethanol-water system. Partially miscible liquids-phenol-water system. Critical solution temperature (CST), Effect of impurity on consolute temperature.		method							
		2	Analysis of mixture of salts		Practical	2						
	<b>3<sup>rd</sup> Week</b>	4	<b>UNIT-V:</b> <b>Solutions, Ionic equilibrium&amp; dilute solutions:</b> Immiscible liquids and steam distillation. Nernst distribution law. Calculation of the partition coefficient. Applications of distribution law. Colligative properties- RLVP, Osmotic pressure, Elevation in boiling point and depression in freezing point.		Lecture method	4						

		2	Analysis of mixture of salts		Practical	2						
	<b>4<sup>th</sup> Week</b>	2	<b>UNIT-V: Solutions, Ionic equilibrium &amp; dilute solutions:</b> Experimental methods for the determination of molar mass of a non-volatile solute using osmotic pressure, Elevation in boiling point and depression in freezing point.		Lecture method	4			Students Seminar			
<b>Mid-II examinations</b>												
<b>5</b>	<b>March-2022</b>											
	<b>1<sup>st</sup> Week</b>	3	<b>UNIT-V: Solutions, Ionic equilibrium &amp; dilute solutions:</b> Abnormal colligative properties. Van't Hoff factor. <b>Remedial Classes</b>		Lecture method	4						
		2	Analysis of mixture of salts		Practical	2						
	<b>2<sup>nd</sup> Week</b>	<b>End Semester Examinations</b>										

**Annual Curricular Plan 2021-22: I-B.Sc.-II- Semester – B5, B8 and B9-Sections**

S.No.	Month & Week	Hours Available	Syllabus & Topic	Addl. Inputs/ Value Addition taught	Curricular Activities				Co-curricular Activities			
					Activity Conducted	Hours Allotted	Whether Conducted	It not alternate date	Activity Conducted	Hours Allotted	Whether Conducted	It not alternate date
1	March-2021											
	3 <sup>rd</sup> Week	4	<b>Recapitulation of Basics of Organic Chemistry</b> <b>Unit-I: Carbon-Carbon sigma bonds (Alkanes and Cycloalkanes):</b> General methods of preparation of alkanes- Wurtz and Wurtz-Fittig reaction, Corey House synthesis, physical and chemical properties of alkanes, Isomerism and its effect on properties,		Lecture Method	4						
		2	Volumetric Analysis		Practical	2						
	4 <sup>th</sup> Week	4	<b>Unit-I: Carbon-Carbon sigma bonds (Alkanes and Cycloalkanes):</b> Free radical		Lecture Method	4			Assignment			



2 <sup>nd</sup> Week	3	<b>UNIT-II: Carbon-Carbon pi Bonds (Alkenes and Alkynes):</b> General methods of preparation, physical and chemical properties. Mechanism of E1,E2,E1cb reactions, Saytzeff and Hoffmann eliminations, Electrophilic Additions, mechanism(Mark ownikoff/Antimar kownikoff addition) with suitable examples.	Lecture Method	4			Assignment			
	2	Volumetric Analysis	Practical	2						
3 <sup>rd</sup> Week	4	<b>UNIT-II: Carbon-Carbon pi Bonds (Alkenes and Alkynes):</b> Syn and anti- addition, addition of H <sub>2</sub> , X <sub>2</sub> , HX, oxymercuration- demercuration. hydroboration- oxidation, ozonolysis,	Lecture Method	4						

			hydroxylation, Diels Alder reaction, 1,2- and 1,4-addition reactions in conjugated dienes.									
		2	Volumetric Analysis		Practical	2						
	<b>4<sup>th</sup> Week</b>	4	<b>UNIT-II: Carbon-Carbon pi Bonds (Alkenes and Alkynes):</b> Reactions of alkynes; acidity, electrophilic and nucleophilic additions, hydration to form carbonyl compounds, Alkylation of terminal alkynes.		Lecture Method	4			Assignment			
		2	Volumetric Analysis		Practical	2						
		Mid-I examinations										
<b>3</b>	<b>May-2022</b>											
	<b>1<sup>st</sup> Week</b>	4	<b>Unit-III: Benzene and its reactivity:</b> Concept of aromaticity, Huckel's rule - application to Benzenoid (Benzene, Naphthalene) and		Lecture Method	4						

			Non - Benzenoid compounds (cyclopropenyl cation, cyclopentadienyl anion and tropylium cation)									
		2	Volumetric Analysis		Practical	2						
	<b>2<sup>nd</sup> Week</b>	4	<b>Unit-III: Benzene and its reactivity:</b> Reactions - General mechanism of electrophilic aromatic substitution, mechanism of nitration, Friedel-Craft's alkylation and acylation. Orientation of aromatic substitution - ortho, para and meta directing groups.		Lecture Method	4			Quiz			
		2	Volumetric Analysis		Practical	2						
	<b>3<sup>rd</sup> Week</b>	4	<b>Unit-III: Benzene and its reactivity:</b> Ring activating and deactivating groups with examples (Electronic		Lecture Method	4						



			<b>Adsorption-</b> Physical and chemical adsorption, Langmuir adsorption isotherm, applications of adsorption.									
<b>4</b>	<b>June-2022</b>											
	<b>1<sup>st</sup> Week</b>	2	<b>UNIT-IV: Chemical Bonding:</b> Valence bond theory, hybridization, VB theory as applied to $\text{ClF}_3$ , $\text{Ni}(\text{CO})_4$ ,		Lecture Method	2						
		2	Volumetric Analysis		Practical	2						
	<b>2<sup>nd</sup> Week</b>	4	<b>UNIT-IV: Chemical Bonding:</b> Molecular orbital theory -LCAO method, construction of M.O. diagrams for homo-nuclear and hetero-nuclear diatomic molecules ( $\text{N}_2$ , $\text{O}_2$ , $\text{CO}$ and $\text{NO}$ ). <b>Unit-IV: HSAB:</b> Pearson's concept, HSAB principle & its importance,		Lecture Method	4			Assignment			

			bonding in Hard-Hard and Soft-Soft combinations.									
		2	Volumetric Analysis		Practical	2						
	<b>3<sup>rd</sup> Week</b>	4	<b>Unit-V: Stereochemistry of carbon compounds:</b> Molecular representations- Wedge, Fischer, Newman and Saw-Horse formulae. Optical isomerism: Optical activity- wave nature of light, plane polarised light, optical rotation and specific rotation.		Lecture Method	4						
		2	Volumetric Analysis		Practical	2						
	<b>4<sup>th</sup> Week</b>	4	<b>Unit-V: Stereochemistry of carbon compounds:</b> Chiral molecules- definition and criteria (Symmetry elements)- Definition of enantiomers and						Students Seminar			

			diastereomers – Explanation of optical isomerism with examples- Glyceraldehyde, Lactic acid, Alanine, Tartaric acid, 2,3- dibromopentane. D,L, R,S and E,Z- configuration with example									
		2	Volumetric Analysis		Practical	2						
	5 <sup>th</sup> Week	3	<b>Unit-V: Stereochemistry of carbon compounds:</b> Definition of Racemic mixture – Resolution of racemic mixtures (any 3 techniques) and <b>Remedial Classes</b>						Assignment			
5	July											
	1 <sup>st</sup> Week	<b>End Semester Examinations</b>										



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## **ANNUAL ACADEMIC PLAN** **2021-22**

**Submitted by**

**K. Lakshmi Krishna Rao**

**Assistant Professor**

**Department of Chemistry**

### Annual Curricular Plan 2021-22 (II-B.Sc.-III- Semester – C1 (B.Z.C.)-Section)

S.No.	Month & Week	Hours Available	Syllabus & Topic	Addl. Inputs/ Value Addition taught	Curricular Activities				Co-curricular Activities			
					Activity Conducted	Hours Allotted	Whether Conducted	It not alternate date	Activity Conducted	Hours Allotted	Whether Conducted	It not alternate date
1	November-2021											
	5 <sup>th</sup> Week	1	Discussion on topics of syllabus		Lecture Method	1	Yes					
2	December-2021											
	1 <sup>st</sup> Week	3	<b>Unit-IV: Molecular Spectroscopy:</b> Introduction to molecular spectroscopy; Rotational spectroscopy: Principle and Theory Selection rule, frequency of rotational lines, relative intensity rotational spectral lines, determination bond length and moment of inertia		Lecture Method	3	Yes					
		2	Organic Preparations		Practical	2	Yes					
	2 <sup>nd</sup> Week	3	<b>Unit-IV: Molecular Spectroscopy:</b>	Application of microwave	Lecture Method	3	Yes		Assignment	1	Yes	

			Rotational spectroscopy-determination bond distances of polyatomic molecules using isotopic substitution method; Vibrational spectroscopy-introduction and principle; derivation of fundamental vibrational frequency; calculation of force constant, frequency and reduced mass	radiation in microwave oven (internal heating)								
		2	Organic Preparations		Practical	2	Yes					
	3 <sup>rd</sup> Week	2	<b>Unit-IV: Molecular Spectroscopy:</b> Harmonic and anharmonic oscillators, selection rule; vibrational modes in polyatomic molecules; different types of vibrations and vibrational frequencies Types of IR bands, IR		Lecture Method	2	Yes					

			bands in water, co2 molecules									
		<b>Mid-I Examinations</b>										
		2	Organic Preparations		Practical	2						
	4 <sup>th</sup> Week	2	<b>Unit-V: Applications of IR spectroscopy;</b> Applications IR Spectroscopy for organic functional groups Interpretation of IR spectra of organic compounds		Lecture Method	2			Assignment			
		2	Organic Preparations		Practical	2						
	5 <sup>th</sup> Week	3	<b>Unit-IV: Molecular Spectroscopy:</b> Franck-Condon principle and electronic energy levels in organic molecules; Types of electronic transitions, common terms used in electronic spectra;		Lecture Method	3						
		2	Organic Preparations		Practical	2						
<b>3</b>	<b>January-2022</b>											
	2 <sup>nd</sup> Week	4	<b>Unit-V: Applications of</b>		Lecture Method	4			Students Seminar			

			<b>UV-Vis spectroscopy;</b> Calculation of lambda maximum of dienes, alpha, beta-unsaturated ketones by Woodward fieser's rules; Beer's law; Introduction to NMR Spectroscopy;									
		2	Organic Preparations		Practical	2						
	3 <sup>rd</sup> Week	2	<b>Unit-IV: Molecular Spectroscopy:</b> Theory and Principle of NMR Spectroscopy; equivalent and non-equivalent protons, position of signals.		Lecture Method	2			Assignment			
		2	Organic Preparations		Practical	2						
<b>4</b>	<b>February-2022</b>											
	1 <sup>st</sup> Week	3	<b>Unit-IV: Molecular Spectroscopy:</b> Chemical shift, NMR splitting of signals - spin-spin coupling, coupling constants.		Lecture Method	3						

			Applications of NMR with suitable examples - ethyl bromide, ethanol, acetaldehyde, 1,1,2-tribromo ethane, ethyl acetate, toluene and acetophenone.									
		2	Organic Preparations		Practical	2						
	2 <sup>nd</sup> Week	4	<b>Unit-I Chemistry of Halogenated Hydrocarbons:</b> Alkyl halides: Methods of preparation and properties, nucleophilic substitution reactions; SN1, SN2 and SNi mechanisms with stereochemical aspects and effect of solvent; nucleophilic substitution vs elimination; Williamson's synthesis; Aryl halides: Preparation(including preparation from diazoniumsalts)		Lecture Method	4			Assignment			

			and properties, nucleophilic aromatic substitution; S <sub>N</sub> Ar, Benzyne mechanism.								
		2	Organic Preparations		Practical	2					
	3 <sup>rd</sup> Week	4	<b>Unit-I Chemistry of Halogenated Hydrocarbons:</b> Relative reactivity of alkyl, allyl, benzyl, vinyl and aryl halides towards nucleophilic substitution reactions. <b>Unit-I: Alcohols &amp; Phenols</b> Alcohols: preparation, properties and relative reactivity of 1°, 2°, 3° alcohols; Bouvaelt-Blanc Reduction; Oxidation of diols by periodic acid and lead tetra acetate, Pinacol-Pinacolone rearrangement;		Lecture Method	4					
		2	Organic Preparations		Practical	2					
	4 <sup>th</sup> Week	2	<b>Unit-I: Alcohols</b>		Lecture	2			Assignment		

			<b>&amp; Phenols</b> Phenols: Preparation and properties; Acidity and factors effecting it, Ring substitution reactions, Reimer–Tiemann and Kolbe’s–Schmidt Reactions, Fries and Claisen rearrangements with mechanism		Method							
		2	Organic Preparations		Practical	2						
<b>Mid-II examinations</b>												
<b>5</b>	<b>March-2022</b>											
	1 <sup>st</sup> Week	3	<b>Unit-II Carbonyl Compounds:</b> Structure, reactivity, preparation and properties; Nucleophilic additions, Nucleophilic addition-elimination reactions with ammonia derivatives		Lecture Method	3						
		2	Organic Preparations		Practical	2						
	2 <sup>nd</sup> Week	3	<b>Unit-II Carbonyl</b>		Lecture	3			Assignment			

			<b>Compounds:</b> Mechanisms of Aldol and Benzoin condensation, Claisen-Schmidt, Perkin, Cannizzaro and Wittig reaction, Beckmann haloform reaction and Baeyer Villiger oxidation, $\alpha$ -substitution reactions, oxidations and reductions (Clemmensen, wolf-kishner, with $\text{LiAlH}_4$ & $\text{NaBH}_4$ ).		Method							
		2	Organic Preparations		Practical	2						
	3 <sup>rd</sup> Week	4	<b>Unit-II Carbonyl Compounds:</b> Addition reactions of $\alpha,\beta$ -unsaturated carbonyl compounds: Michael addition. Active methylene compounds: Keto-enol tautomerism. Preparation and synthetic applications of diethyl malonate and		Lecture Method	4						

			ethylacetoacetate.									
		2	Organic Preparations		Practical	2						
	4 <sup>th</sup> Week	4	<b>UNIT-III: Carboxylic Acids and their Derivatives</b> General methods of preparation, physical properties and reactions of monocarboxylic acids, effect of substituents on acidic strength. Typical reactions of dicarboxylic acids, hydroxyl acids and unsaturated acids.		Lecture Method	4			Quiz			
		2	Organic Preparations		Practical	2						
	5 <sup>th</sup> Week	3	<b>UNIT-III: Carboxylic Acids and their Derivatives:</b> Preparation and reactions of acid chlorides, anhydrides, esters and amides; Comparative study of nucleophilic substitution at acyl group- Mechanism of		Lecture Method	4			Assignment			

			acidic and alkaline hydrolysis of esters, Claisen condensation, Reformatsky reactions and Curtius rearrangement									
		2	Organic Preparations		Practical	2						
<b>6</b>	<b>April-2022</b>											
	<b>1<sup>st</sup> Week</b>	4	<b>UNIT-III: Carboxylic Acids and their Derivatives:</b> Reactions involving H, OH and COOH groups- salt formation, anhydride formation, acid chloride formation, amide formation and esterification (mechanism). Degradation of carboxylic acids by Huns-Diecker reaction, decarboxylation by Schimdt reaction, Arndt-Eistert synthesis, halogenation by Hell- Volhard-						Students Seminar			

			Zelinsky reaction.									
		2	Organic Preparations		Practical	2						
	<b>2<sup>nd</sup> Week</b>	<b>End Semester Examinations</b>										

<b>Annual Curricular Plan 2021-22 (II-B.Sc.-IV- Semester – C1 (B.Z.C)-Section)</b>						
<b>S.No.</b>	<b>Month &amp; Week</b>	<b>Hours Available</b>	<b>Syllabus &amp; Topic</b>	<b>Addl. Inputs/</b>	<b>Curricular Activities</b>	<b>Co-curricular Activities</b>

				Value Addition taught	Activity Conducted	Hours Allotted	Whether Conducted	It not alternate date	Activity Conducted	Hours Allotted	Whether Conducted	It not alternate date
<b>1</b>	<b>April-2022</b>											
	3 <sup>rd</sup> Week	4	<b>Unit-I: Coordination Chemistry</b> IUPAC nomenclature of coordination compounds, Structural and stereoisomerism in complexes with coordination numbers 4 and 6. Valence Bond Theory (VBT): Inner and outer orbital complexes. Limitations of VBT.		Lecture Method	4						
		2	Conductometric and Potentiometric Titrimetry		Practical	2						
	4 <sup>th</sup> Week	4	<b>Unit-I: Coordination Chemistry:</b> Crystal field effect, octahedral symmetry. Crystal field stabilization energy (CFSE), Crystal field effects for weak and strong fields.		Lecture Method	4						

			Tetrahedral symmetry, Factors affecting the magnitude of crystal field splitting energy, Spectrochemical series,									
		2	Conductometric and Potentiometric Titrimetry		Practical	2						
<b>2</b>	<b>May-2022</b>											
	1 <sup>st</sup> Week	3	<b>Unit-I: Coordination Chemistry:</b> Comparison of CFSE for Octahedral and Tetrahedral complexes, Tetragonal distortion of octahedral geometry, Jahn-Teller distortion, square planar coordination.		Lecture Method	3	Yes					
		2	Conductometric and Potentiometric Titrimetry		Practical	2	Yes					
	2 <sup>nd</sup> Week	4	<b>UNIT –II: Inorganic Reaction Mechanism:</b> Introduction to		Lecture Method	4	Yes		Assignment	1	Yes	

			inorganic reaction mechanisms. Concept of reaction pathways, transition state, intermediate and activated complex. Labile and inert complexes, ligand substitution reactions - SN1 and SN2, Substitution reactions in square planar complexes, Trans-effect, theories of trans effect and its applications									
		2	Conductometric and Potentiometric Titrimetry		Practical	2	Yes					
	3 <sup>rd</sup> Week	2	<b>UNIT –II:</b> <b>Stability of metal complexes:</b> Thermodynamic stability and kinetic stability, factors affecting the stability of metal complexes, chelate effect, determination of composition of complex by Job's		Lecture Method	2	Yes					

			method and mole ratio method.									
		<b>Mid-I Examinations</b>										
		2	Conductometric and Potentiometric Titrimetry		Practical	2						
	4 <sup>th</sup> Week	4	<b>Unit-II: Bioinorganic Chemistry:</b> Metal ions present in biological systems, classification of elements according to their action in biological system. Geochemical effect on the distribution of metals, Sodium/K-pump, carbonic anhydrase and carboxypeptidase.		Lecture Method	4			Assignment			
		2	Conductometric and Potentiometric Titrimetry		Practical	2						
	5 <sup>th</sup> Week	2	<b>Unit-II: Bioinorganic Chemistry:</b> Excess and deficiency of some trace metals. Toxicity of metal		Lecture Method	3						

			ions (Hg, Pb, Cd and As), reasons for toxicity, Use of chelating agents in medicine, Cisplatin as an anti-cancer drug.									
		2	Conductometric and Potentiometric Titrimetry		Practical	2						
<b>3</b>	<b>June-2022</b>											
	1 <sup>st</sup> Week	2	<b>Unit-II: Bioinorganic Chemistry:</b> Iron and its application in bio-systems, Haemoglobin, Myoglobin. Storage and transfer of iron.		Lecture Method	2			Students Seminar			
	2 <sup>nd</sup> Week	4	<b>Unit-III: Phase rule</b> Concept of phase, components, degrees of freedom. Thermodynamic derivation of Gibbs phase rule. Phase diagram of one component system - water system, Study of Phase diagrams of		Lecture Method	4						

			Simple eutectic systems i) Pb-Ag system, desilverisation of lead ii) NaCl-Water system								
		2	Conductometric and Potentiometric Titrimetry		Practical	2					
	3 <sup>rd</sup> Week	4	<b>Unit-III: Phase rule</b> Congruent and incongruent melting point- Definition and examples for systems having congruent and incongruent melting point , freezing mixtures. <b>UNIT-IV: Electrochemistry</b> Specific conductance, equivalent conductance and molar conductance- Definition and effect of dilution. Cell constant. Strong and weak electrolytes, Kohlrausch's law and its applications,		Lecture Method	4			<b>Assignment</b>		
		2	Conductometric		Practical	2					

			and Potentiometric Titrimetry									
	4 <sup>th</sup> Week	4	<b>UNIT-IV: Electrochemistry</b> Definition of transport number, determination of transport number by Hittorf's method. Debye- Huckel-Onsagar's equation for strong electrolytes (elementary treatment only), Application of conductivity measurements- conductometric titrations. Electrochemical Cells- Single electrode potential.		Lecture Method	4						
		2	Conductometric and Potentiometric Titrimetry		Practical	2						
	5 <sup>th</sup> Week	<b>Mid-II examinations</b>										
<b>4</b>	<b>July-2022</b>											
	1 <sup>st</sup> Week	2	<b>UNIT-IV: Electrochemistry</b> Types of electrodes with examples: Metal- metal ion, Gas electrode, Inert		Lecture Method	2						

			electrode, Redox electrode, Metal-metal insoluble salt- salt anion.									
	2 <sup>nd</sup> Week	3	<b>UNIT-IV: Electrochemistry</b> Determination of EMF of a cell, Nernst equation, Applications of EMF measurements - Potentiometric titrations. Fuel cells- Basic concepts, examples and applications <b>UNIT-V: Chemical Kinetics</b> The concept of reaction rates. Effect of temperature, pressure, catalyst and other factors on reaction rates.		Lecture Method	3			Quiz			
		2	Conductometric and Potentiometric Titrimetry		Practical	2						
	3 <sup>rd</sup> Week	4	<b>UNIT-V: Chemical Kinetics</b> Order and molecularity of a reaction,		Lecture Method	4						

			Derivation of integrated rate equations for zero, first and second order reactions (both for equal and unequal concentrations of reactants). Half-life of a reaction. General methods for determination of order of a reaction.									
		2	Conductometric and Potentiometric Titrimetry		Practical	2						
	4 <sup>th</sup> Week	4	<b>UNIT-V: Chemical Kinetics</b> Concept of activation energy and its calculation from Arrhenius equation. Theories of Reaction Rates: Collision theory and Activated Complex theory of bimolecular reactions. Comparison of the two theories (qualitative treatment only)		Lecture Method	4			Assignment			
		2	Conductometric		Practical	2						



Paper - I : Introduction to Microbiology and Medical Diversity  
**ANNUAL ACADEMIC CURRICULAR PLAN 2021 - 2022**

Name of the College : Geo (A) college Gundera  
 Name of the Lecturer : P. Ashra

Name of the Department : Microbiology  
 Class : J.B.F. Year : .....  
 I. Introduction to  
 Paper 1: Microbiology and

S. No.	Month & Week	Hours available	Syllabus / Topic	Additional Input / Value Addition Provided / Taught	Curricular Activity			Co-Curricular Activity			Remarks	
					Activity Conducted	Hours allotted	Whether conducted	If not, alternate date	Activity Conducted	Hours allotted		Whether conducted
	<u>November</u>											
1	<u>Week 1st</u>		<u>Introduction to the microbiology.</u>									
			<u>Bridge course.</u>	<u>Biff brands of biology.</u>								
2	<u>Week 4th</u>		<u>Bridge course started for</u>									
	<u>December</u>											
1	<u>Week 1st</u>		<u>History of Microbiology.</u>									
			<u>Contributions of Anthony Van Leeuwenhoek</u>									
			<u>Edward Jenner, Louis Pasteur,</u>									
2	<u>Week 1st</u>		<u>Robert Koch, Irwanovsky, Beijerinck</u>	<u>About Alexander Fleming</u>								
			<u>and Linnogrodsky.</u>									
			<u>Purpose and application of microbiology.</u>									
3	<u>Week 4th</u>		<u>Classification of microorganisms.</u>	<u>About Four Kingdom concept</u>								
			<u>Haeckel, Whittaker and three</u>									
			<u>domain concept of Carl Woese.</u>									

# ANNUAL ACADEMIC CURRICULAR PLAN 20 - 20

Name of the College : .....

Name of the Department : .....

Name of the Lecturer : .....

Class : ..... Year : ..... Paper : .....

S. No.	Month & Week	Hours available	Syllabus / Topic	Additional Input / Value Addition Provided / Taught	Curricular Activity			Co-Curricular Activity				
					Activity Conducted	Hours allotted	Whether conducted	If not, alternate date	Activity Conducted	Hours allotted	Whether conducted	
4	IV	2hrs	Bergey's Manual of Systematic Bacteriology.		4	Yes						
5	V	4hrs	UNIT - II Cell wall of bacteria. Structure and functions of cell membrane.	About Archaeobacteria.	4	No	3/1/22 4/1/22 extra class.					
7	II	4hrs	cytoplasm, Nucleoid, Plasmid, Inclusion bodies.	OD	4	No	9-10 class on 10/1/22					
8	II	2hrs	Brief structures and arrangement of flagella, pili, capsule.		2	Yes						
9	III	4hrs	Structure of endospore, General characters of Bacteria, Archaeobacteria.	About endospore staining.	4	Yes						

# ANNUAL ACADEMIC CURRICULAR PLAN 20 - 20

Name of the College : .....

Name of the Department : .....

Name of the Lecturer : .....

Class : ..... Year : ..... Paper : .....

S. No.	Month & Week	Hours available	Syllabus / Topic	Additional Input / Value Addition Provided / Taught	Curricular Activity				Co-Curricular Activity				Remarks	
					Activity Conducted	Hours allotted	Whether conducted	If not, alternate date	Activity Conducted	Hours allotted	Whether conducted	If not, alternate date		
IV	4th	4	General characteristics of Mycoplasmas and cyanobacteria.		4	Yes								
			<u>February</u>											
			UNIT - III											
I	4	4	General characteristics of Viruses and cultivation of Viruses.	Corona Virus	4	Yes		Group discussion	4	Yes				
			General characteristics of algae.											
II	4	4	General characteristics of fungi		4	Yes		Group discussion	4	Yes				
			General characteristics and outline classification of Protozoa.											
			UNIT - IV											
III	4	4	Mid Exams - 2											
			Principles of Microscopy.	Fluorescent microscope	4	Yes								
			Staining techniques.											

# ANNUAL ACADEMIC CURRICULAR PLAN 20 - 20

Name of the College : .....

Name of the Department : .....

Name of the Lecturer : .....

Class : .....

Year : .....

Paper : .....

S. No.	Month & Week	Hours available	Syllabus / Topic	Additional Input / Value Addition Provided / Taught	Curricular Activity			Co-Curricular Activity						
					Activity Conducted	Hours allotted	Whether conducted	If not, alternate date	Activity Conducted	Hours allotted	Whether conducted	If not, alternate date		
IV		4	Aerid fast spore staining. Physical methods of sterilisation.		4	Yes								
I		3	<u>Morph</u> Radiation methods Chemical methods of sterilisation - Alcohols, aldehydes, fumigants etc.		3	Yes								
II		3	UNIT-IV Isolation of microorganisms from natural habitats.		3	Yes								
III		4	Microbiological media - Natural, Synthetic, Semisynthetic, Bord & complex, Selective, enrichment & differential media.		4	Yes								
IV		4	Pure culture techniques. Dilution plating streak spread	About Koch postulates	4	Yes								

# ANNUAL ACADEMIC CURRICULAR PLAN 20 - 20

Name of the College : .....

Name of the Department : .....

Name of the Lecturer : .....

Class : .....

Year : .....

Paper : .....

S. No.	Month & Week	Hours available	Syllabus / Topic	Additional Input / Value Addition Provided / Taught	Curricular Activity				Co-Curricular Activity				Remarks	
					Activity Conducted	Hours allotted	Whether conducted	If not, alternate date	Activity Conducted	Hours allotted	Whether conducted	If not, alternate date		
			Plaque & Micromanipulator method											
IV	4		Preservation of Microbial cultures - Sub culturing, over laying cultures with mineral oils, lyophilisation etc. <u>April</u>	Baiting technique.		4	Yes							
V	4		Revision of important questions Questions to students about practical records and practical Exam.			4	Yes							
VI	2		Discussion about Important Questions.			2	Yes							
VII	4		7 Semester Final Examinations from 14th onwards.			4	Yes							

# ANNUAL ACADEMIC CURRICULAR PLAN 2021 - 2022


Name of the College : .....

Name of the Department : .....

Name of the Lecturer : .....

Class : ..... Year : ..... Paper : .....

S. No.	Month & Week	Hours available	Syllabus / Topic	Additional Input / Value Addition Provided / Taught	Curricular Activity				Co-Curricular Activity									
					Activity Conducted	Hours allotted	Whether conducted	If not, alternate date	Activity Conducted	Hours allotted	Whether conducted	If not, alternate date						
	IV	4	Semester and Examinations			4	Yes											

  
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 GU. JR.

# ANNUAL ACADEMIC CURRICULAR PLAN 2021 - 2022

Name of the College : Govt. College for Women (A)

Name of the Department : Sociology - V Sem P-1

Name of the Lecturer : Dr. Vinayak K. K. K.

Class : B.A. (Hons.) Year : III Paper : Sociology

S. No.	Month & Week	Hours available	Syllabus / Topic	Additional Input / Value Addition Provided / Taught	Curricular Activity				Co-Curricular Activity				Remarks	
					Activity Conducted	Hours allotted	Whether conducted	If not, alternate date	Activity Conducted	Hours allotted	Whether conducted	If not, alternate date		
			<u>College depends on</u>											
	<u>1st week</u>	<u>4</u>	<u>Introduction of Social Demography</u>		<u>Group discussion</u>	<u>2</u>								
	<u>2nd week</u>	<u>4</u>	<u>Scope of social demography, determinants</u>		<u>"</u>	<u>1</u>								
	<u>3rd</u>	<u>5</u>	<u>Sources of Demographic Data Population</u>		<u>"</u>	<u>2</u>				<u>Handwritten</u>				
	<u>4th</u>	<u>5</u>	<u>Census, Vital Registration, National Sample</u>		<u>"</u>	<u>1</u>				<u>Reading</u>	<u>1</u>			
	<u>5th</u>	<u>4</u>	<u>Composition &amp; Distribution of Population in India</u>		<u>"</u>	<u>1</u>				<u>old age day</u>	<u>1</u>			
	<u>October 1st</u>	<u>1</u>	<u>"</u>		<u>—</u>									
	<u>2nd</u>	<u>8</u>	<u>Dussehra Holidays</u>											
	<u>3rd</u>		<u>I (mid) Term.</u>											
	<u>4th</u>	<u>5</u>	<u>Population theories, Malthus Theory</u>		<u>Classroom</u>	<u>3</u>								
	<u>November 1st</u>	<u>3</u>	<u>Demography Transition</u>			<u>2</u>								
	<u>2nd</u>	<u>5</u>	<u>Components of Population growth - Fertility</u>		<u>Seminar</u>	<u>2</u>								
	<u>3rd</u>	<u>5</u>	<u>Mortality; Migration</u>		<u>PPT</u>	<u>2</u>				<u>Quiz</u>				
	<u>4th</u>	<u>5</u>	<u>Population Policy.</u>		<u>Group Discussion</u>	<u>2</u>								
	<u>December 1st</u>	<u>4</u>	<u>Problems of Rapid growth in India</u>		<u>Assignment</u>	<u>3</u>								
	<u>2nd</u>	<u>5</u>	<u>Population Control - Various stages</u>		<u>Assignment</u>	<u>1</u>				<u>Homework</u>	<u>1</u>			
	<u>3rd</u>	<u>5</u>	<u>Population Control - Various stages</u>		<u>"</u>	<u>1</u>				<u>Assignment</u>	<u>1</u>			

# ANNUAL ACADEMIC CURRICULAR PLAN 2011 - 2022

Name of the College : Govt. College for Women (e)

Name of the Lecturer : Dr. V. Naveen Kumar

Name of the Department : Sociology

Class : B.A. Year : III Paper : 1

S. No.	Month & Week	Hours available	Syllabus / Topic	Additional Input / Value Addition Provided / Taught	Curricular Activity				Co-Curricular Activity				Remarks	
					Activity Conducted	Hours allotted	Whether conducted	If not, alternate date	Activity Conducted	Hours allotted	Whether conducted	If not, alternate date		
	4th	3	<u>II Internal. —</u>	—		1								
	5th	4	<u>Population — Education</u>	<u>PPT</u>	<u>PPT</u>	2								
	1st	1	<u>"</u>	<u>—</u>	<u>Group work</u>	2								
	2nd	4	<u>Population Education, Policy</u>	<u>—</u>										
	3rd		<u>Sankranti's Holidays.</u>											
	4th	5	<u>Revision</u>											
	5th		<u>Sum-End of the Exams.</u>											

*(Signature)*

V.R. Jagan Mohan

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GOVERNMENT COLLEGE FOR WOMEN (A)

GUNTUR

**ANNUAL ACADEMIC PLAN  
FOR THE YEAR 2021-22**

**ANNUAL PLAN FOR  
SEMESTER - IV**

IV SEM Curriculum plan (13-07-2022)

60Hrs 4h/W

Annual Academic Curricular Plan for IV Sem B.Sc. paper IVB  
 Faculty Name: K. Aparna Seetharam  
 Paper IVB (Inorganic and Physical Chemistry)

ANNUAL CURRICULAR PLAN 2022-23

Sl. No	Month & Week	Hours Available	Syllabus & Topic	Addl. Input/Value Addition taught	Curricular Activity				Co-Curricular Activity									
					Activity Conducted	Hours Allotted	Whether Conducted	If not alternate date	Activity Conducted	Hours Allotted	Whether Conducted	If not alternate date						
June 13, 2022																		
1	3 <sup>rd</sup>	0	Time table allotment															

			<b>Coordination Chemistry 12 h</b>															
2	W-4	4	IUPAC nomenclature of coordination compounds, Structural and stereoisomerism in complexes with coordination numbers 4 and 6.	Discussed uses of complexes	Assignment for nomenclature	4												
3	W-5 4 days	3	Valence Bond Theory (VBT): Inner and outer orbital complexes. Limitations of VBT	Discussed about color of the complex	_____	3												
<b>July</b>																		
4	W-1 2 days	0	Crystal field effect, octahedral symmetry. Crystal field stabilization energy (CFSE), Crystal field effects for weak and strong fields. Tetrahedral symmetry,		Slip test for CFT diagrams													

				Factors affecting the CFSE Spectrochemical series															
5	W-2		4	Comparison of CFSE for Octahedral and Tetrahedral complexes,	Discussed about colour of the complex	Slip test	4												
6			4																
	W-3		4	Tetragonal distortion of octahedral geometry, Jahn-Teller distortion, square planar coordination		Slip test	4							Assignment : preparation of two mark question from the lesson					
7			4																
	W-4		4, 3	<b>UNIT-V</b> <b>Chemical Kinetics:</b> <b>14 h</b> The concept of reaction rates. Effect of temperature, pressure, catalyst and	Examples for different rates discussed														
8			4, 3																



			theories (qualitative treatment only).															
			Enzyme catalysis- Specificity, factors affecting enzyme catalysis, Inhibitors and Lock & key model, Michaelis-Menten equation- derivation, significance of Michaelis-Menten constant.															
	W-2		<b>UNIT-III</b> <b>1.Phase rule</b> 6h Concept of phase, components, degrees of freedom.	Explained the use of phase rule	Slip test	4												
		4, 1																
10	W-3	4	Thermodynamic derivation of Gibbs phase rule. Phase diagram of one component system - water system, Study of Phase diagrams of Simple eutectic systems i) Pb-Ag system,			4			Assignment: water system, Pb-Ag and saltwater systems									

			desiliverisation of lead ii) NaCl- Water system, Congruent and															
	W-4		Incongruent melting point- Definition and examples for systems having congruent and incongruent melting point, freezing mixtures.  <b>UNIT -IV</b>  <b>Electro Chemistry 14h</b>  Specific conductance, equivalent conductance and molar conductance. Definition and effect of dilution cell constant. Strong and weak electrolytes															
11		4, 3				4												
	W-5 3 days	3	Kohlrausch's law, Definition of transport number, determination of transport number by Hittorf's method															
12				Slip test	3													

September										
13	W-1 3 days	1	Debye-Huckel-Onsager's equation for strong electrolytes. Applications of conductivity measurements, conductometric titrations		Slip test	3				
14	W-2	4	Electrochemical cells- Single electrode potential, types of electrodes, metal-metal ion, gas electrode, Inert electrode, redox electrode Metal-metal insoluble salt-salt anion			4	PPTs and poster preparation			
15	W-3	4, 3	Determination of EMF of cell Nernst equation, applications of EMF measurements Potentiometric titrations and fuel cells  <b>UNIT -II</b>  <b>I. Inorganic Reaction Mechanism:</b>  <b>4h</b>  Introduction to inorganic reaction		Slip test	4				

			<p>mechanisms. Concept of reaction pathways, transition state, intermediate and activated complex. Labile and inert complexes, ligand substitution reactions - <math>S_N1</math> and <math>S_N2</math>, Substitution reactions in square planar complexes,</p>							
16	W-4	4	<p>Trans-effect, theories of trans effect and its applications</p> <p><b>2. Stability of metal complexes:</b></p> <p>2h</p> <p>Thermodynamic stability and kinetic stability, factors affecting the stability of metal complexes, chelate effect, determination of composition of complex by Job's method and mole ratio method.</p>		Student seminars	4				

			<p><b>3. Bioinorganic Chemistry:</b> 8h</p> <p>Metal ions present in biological systems, classification of elements according to their action in biological system. Geochemical effect on the distribution of metals, Sodium/K-pump, carbonic anhydrase and carboxypeptidase.</p>																
17	W-5	4	<p>Excess and deficiency of some trace metals. Toxicity of metal ions (Hg, Pb, Cd and As), reasons for toxicity, Use of chelating agents in medicine, Cisplatin as an anti-cancer drug.</p>			4													

		Iron and its application in bio-systems, Haemoglobin, .																
October																		
18	W-1	Myoglobin. Storage and transfer of iron	Slip test on haemoglobin	4						Models, charts etc preparation								
19	W-2	Revision																
20	W-3	Semester end exams																
21	W-4	Semester end exams																
22	W-5	Semester end exams																

Lecturer



In-charge of the dept.



Principal



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