

GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

KUMBAKONAM – 612 001

Affiliated to Bharathidasan University

DST - CURIE Sponsored Institution

IV Cycle of Accreditation



☎ 0435 – 2401391

✉ principal@gcwk.ac.in



CRITERION II – TEACHING - LEARNING AND EVALUATION

2.3 Teaching - Learning Process

2.3.3 Academic Calendar and Teaching plans by the Institution

TEACHING PLANS

2019-2020

பாடத்திட்ட அமைவு (2019-2020) (EVEN)

பெயர்: செ.வந்தனாமேரி

வகுடம்: 2019-2020

வகுப்பு: இளங்கலைத் தமிழ் இரண்டாமாண்டு

தாள்குறியீடு: TLCD06

பருவம்: IV

தாள்: நன்னூல்--சொல்லதிகாரம்

நோக்கம்: 1. தமிழ் மொழியின் இலக்கண வகைகளை அறிந்து கொள்ளுதல்

2. சொல்லிலக்கணத்தை அறிந்து கொள்ளும் வகையில் நெறிப்படுத்துதல்

வ.எண்	பயிற்றும் முறைகள்	வகுப்புப் பங்கீடு(அலகு)	மொத்தம்
1.	கரும்பலகையின் வழி Chalk & Talk	ஒவ்வொரு அலகிற்கும் 15 மணிநேரம் (5 அலகுகள்)	75
2.	வரைபடம் புலனம்வழி	தேவைப்படும் அலகிற்குமட்டும்	05
3.	வகுப்புத்தேர்வு	5- தேர்வு 5-அலகு	05
4.	கருத்தரங்கம்-கலந்தரையாடல்	5-அலகுகள் (1 வகுப்பு நேரம்)	05
5.	இறுதிமதிப்பீடுதிருப்புதல் தேர்வு	2	
	வாரத்தின் மொத்தமணிநேரம் -6	தரப்பள்ளி -6 மொத்தம்-	90

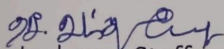
வாரவாரியானவகுப்பு	பயிற்றுவகுப்புகள்-மொத்தம்
6	90

பாடத்திட்டம் பயிற்றுமுறைமதிப்பிடும் முறை
அலகுவாரியாக

வரிசை எண்	பாடத்திட்டம்-அலகுவாரியாக	வகுப்பு	வரைபடம்	தேர்வு	கருத் தரங்கம்	திருப்பு தல்
1.	அலகு-1 1. பெயரியல் விளக்கம் 2. திணை வகைகள் 3. சொல்லின் வகைகள் 4. ஆகுபெயர் 5. வேற்றுமையின் வகைகள்	2 3 3 2 5	-1	1	1	-
2	அலகு-2- 1. வினையியல் பொருள் விளக்கம் 2. வினைமுற்றின் வகைகள் 3. பெயரெச்சம் வகைகள் 4. வினையெச்சவாய்ப்பாடுகள் 5. முற்றெச்சம்	3 2 3 3 2	1	1	1	-
3.	அலகு-31. பொதுவியல் விளக்கம் 2. தொகைநிலைத் தொடர் 3. தொகாநிலைத் தொடர் 4. வினாவிடை வகைகள் 5. பொருள்கோள் வகைகள்	3 4 4 3 4	1	1	1	
4.	அலகு-4 1. இடைச்சொல்லின் வகையும் இ இலக்கணமும் 2. ஏகாரசூகார இடைச்சொல் உணர்த்தும் பொருள்கள் 3. அசைச்சொற்களின் வகைகள் 4. பொதுஅசைச்சொற்கள் 5. சொல் அந்தில் மற்றை இடைச்சொல்லின் நிலைப்பாடுகள்.	2 2 3 3 3	1	1	1	
5.	அலகு-5 1. உரிச்சொல்லின்பொதுவிலக்கணம் வரையறை 2. உயிர்ப்பொருள்களின் வாய்ப்பாடுகள் 3. உயிர்ப்பொருள்களின் குணம் தோழிற்பண்புகள் 4. பலகுணம் தழுவிடலுள் உரிச்சொல் விளக்கம் 5. சொல்லுக்குப் புறநடை	3 4 4 3 2	1	1	1	

தேர்வு -5 -25 மதிப்பெண்கள் I 10X1=10
II 1X5 =5
III 1X10=10

திட்டக்கட்டுரை -10 மதிப்பெண்கள் தேவைப்படும் அலகுகளில் ஆசிரியர் முடிவுசெய்வது.
திருப்புதல் தேர்வுபருவத் தேர்வுமாதிரி அடிப்படையில் கேட்கப்படும்


Incharge Staff


HoD


Iqac Coordinator

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001

**GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) -
KUMBAKONAM**

DEPARTMENT OF ENGLISH

Teaching Plan – Odd Semester

Name(s) of the Staff: Mrs.A.INDIRA

Programme: **I B.Sc Maths (TM &EM) S-I**

Academic Year: **2019-2020**

Semester: I Semester

Course Code: 17GE1

Course Title: Communication Skills-I

Objectives:

- To use English effectively for study purpose across the curriculum; to develop and integrate the use of the four language skills i.e., Reading, Listening, Speaking and Writing.

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		14 hours per unit (for 5 units)	70
Text Book Assignment		2 hours for 5 units	02
Evaluation –Class Tests (CT)		1 test per unit(for 5 units)	05
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)	05
Vocabulary lists (dictation)		1 hour per unit(for 5 units)	05
Final Evaluation (FE)		3 hours (Rehearsal)	03
Hours per week	6	Credit	5
		Total	90

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL. NO	HOURS	UNIT -CONTENT	MODE OF TEACHING			
			L	CT/ CW	S	FE
Unit-I						
1	5	Early Life-Abdul Kalam	L			
2	4	Geriatrics, Geriatrics-Kamala Suraiya	L			
3	3	Leave This Chanting-Rabindranath Tagore	L			
4	2	Job Interview	L			
Unit-II						
5	6	A City Night-Piece-Oliver Goldsmith	L			
6	5	My Mind to Me a Kingdom is-Sir Edward Dyer	L			
7	3	Note- Making	L			
Unit-III						
8	5	Pride of Place-R.K.Narayan	L			
9	5	How Soon Hath Time-John Milton	L			
10	4	Parts of Speech	L			
Unit - IV						
11	5	The Lottery Ticket-Anton Chekov	L			
12	5	Daffodils-William Wordsworth	L			
13	4	Subject-Verb Agreement	L			
Unit - V						
14	4	One Friday Morning-Langston Hughes	L			
15	4	A Prayer for My Daughter-W.B.Yeats	L			
16	6	Tense	L			
Seminar						
1	5	UNIT-I - UNIT-V			S	

Class Test						
1	5	UNIT-I - UNIT-V		CT		
Text Book Assignment						
1	2	UNT-I-UNIT-V		C W		
Vocabulary lists(written)						
1	5	UNT-I-UNIT-V		C W		
Final Evaluation (FE)						
1	3	Entire course				FE

Head of the Department

Signature of the Staff Member(s)

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001

**GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) -
KUMBAKONAM
DEPARTMENT OF ENGLISH
Teaching Plan**

Name(s) of the Staff: P.NITHYA

Programme: **I B.A ENGLISH SHIFT-2**

Academic Year: **2019-2020**

Semester: I Semester

Course Code: 18EL2A2

Course Title: History of English Literature-I

Objectives:

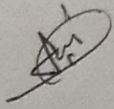
- To Provide students a basic understanding of all literary periods and its major writers.
- To enable the students with the knowledge of socio – cultural background, literary and intellectual background and also the development of British drama and theatre.

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		14 hours per unit (for 5 units)	70
Creative Writing		1 hour per unit(for 5 units)	05
Evaluation –Class Tests (CT)		1 test per unit(for 5 units)	05
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)	05
Dramatization(Play, Skits etc.)		2 hours for 3 unit only	02
Final Evaluation (FE)		3 hours (Rehearsal)	03
Hours per week	6	Credit	5
		Total	90

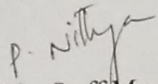
Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL. NO	HOURS	UNIT -CONTENT	MODE OF TEACHING			
			L	CT/ CW	S	FE
Unit-I						
1	7	Pre – Chauceraian Period.	L			
2	7	The Age of Chaucer.	L			
Unit-II						
3	7	The Development of Drama.	L			
4	7	The Age of Shakespeare.	L			
Unit – III						
5	7	The Age of Milton.	L			
6	7	The Age of Dryden.	L			
Unit – IV						
7	14	The Age of Pope.	L			
Unit – V						
8	14	The Age of Johnson.	L			
Seminar						
1	5	UNIT-I,UNIT-II,UNIT-III,UNIT-IV&UNIT-V			S	
Class Test						
1	5	UNIT-I,UNIT-II,UNIT-III,UNIT-IV&UNIT-V		CT		
Creative Writing						
1	5	UNIT-V - Essay Writing (Current Affairs)		C W		
Dramatization(Play, Skits etc.)						
	2	UNIT-III Only		C W		
Final Evaluation (FE)						

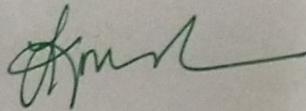
3	Entire course					F E
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Head of the Department



Signature of the Staff Member(s)



Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam - 612 001

**GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) -
KUMBAKONAM**

DEPARTMENT OF ENGLISH

Teaching Plan

Name(s) of the Staff: A. VASANTHI

Programme: II

Academic Year:

2019-2020

Semester: III Semester

Course Code: ELCA4

Course Title: HISTORY OF ENGLISH
LITERATURE II

Objectives:

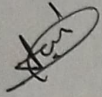
- To expose students to the everyday use of English for communication.

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction	
Traditional Chalk and Talk Method [L]		2 hours per unit (for 5 units)		10	
Creative Writing		1 hour per unit(for 5 units)		05	
Evaluation Class Tests (CT)		1 test per unit(for 5 units)		05	
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)		05	
Dramatization(Play, Skits etc.)		2 hours for 3 unit only		02	
Final Evaluation (FE)		3 hours (Rehearsal)		03	
Hours per week	2	Credit	2	Total	30

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

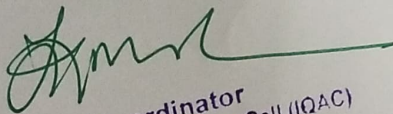
SL. NO	HOURS	UNIT -CONTENT	MODE OF TEACHING			
			L	CT/ CW	S	FE
Unit-I						
1	5	The Nine Types of Intelligence	L			
2	5	The Happy Prince				
Unit-II						
3	4	Loneliness	L			
4	4	Study Tips				
Unit III						
5	3	Getting Exercise in College	L			
6	3	A Family				
7	3	Music and Stress Relief				
Unit IV						
8	2	What is P2?	L			
9	2	Why we love Who we love				
10	2	The Verger				
11	2	Essay Writing : The Basics				
Unit V						
12	1	Self Esteem.	L			
13	1	Problem Solving Strategies				
14	1	Guiding Principles for Life				
Seminar						
1	5	UNIT-IV&UNIT-V			S	
Class Test						
1	5	UNIT-I,UNIT-II,UNIT-III,UNIT-IV&UNIT-V		CT		

Creative Writing					
1	5	UNIT-V Essay Writing		C W	
Dramatization (Play, Skits etc.)					
1	2			C W	
Final Evaluation (FE)					
1	3	Entire course			FE



Head of the Department

A. Prasanth
Signature of the Staff Member(s)



Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001

**GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) -
KUMBAKONAM**

DEPARTMENT OF ENGLISH

Teaching Plan

Name(s) of the Staff: Mrs .K.S.KUMUDHA

Programme: II B.A. Eng. Academic Year: 2019-2020
Literature S-II

Semester: III Semester CourseCode:18ELC305

Course Title: Fiction

Objectives:

To expose students to the different forms of novel from the Age of Tennyson to the twentieth century.

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		14 hours per unit (for 5 units)	70
Text Book Assignment		1 hour per unit(for 5 units)	05
Evaluation – Class Tests (CT)		1 test per unit(for 5 units)	05
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)	05
Group Discussion		2 hours for 3 unit only	02
Final Evaluation (FE)		3 hours (Rehearsal)	03
Hours per week	6	Credit 5	Total 90

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL. NO	HOURS	UNIT -CONTENT	MODE OF TEACHING			
			L	CT/ CW	S	FE
Unit-I						
1	14	Charles Dickens - Oliver Twist	L			
Unit-II						
2	14	Jane Austen - Pride and prejudice	L			
Unit – III						
3	14	R.L. Stevenson - Treasure Island				
Unit – IV						
4	14	E.M.Forster - A passage to India				
Unit – V						
5	14	Aldous Huxley - Brave New World				

Seminar					
		UNIT-I,UNIT-II,UNIT-III,UNIT-IV&UNIT-V			S
Class Test					
1	5	UNIT-I,UNIT-II,UNIT-III,UNIT-IV&UNIT-V		CT	
Text Book Assignment					
1	5	UNIT-I,UNIT-II,UNIT-III,UNIT-IV&UNIT-V		C W	
Group Discussion					
1	2	UNIT-III Only		C W	
Final Evaluation (FE)					
1	3	Entire course			FE

Head of the Department

Signature of the Staff Member(s)

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001

**GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) -
KUMBAKONAM**

DEPARTMENT OF ENGLISH

Teaching Plan

Name(s) of the Staff: C.TAMILARASI

Programme: **II B.COM**

Academic Year: **2019-2020**

Semester: IV Semester

Course Code: 17GE4

Course Title: Communication Skills-IV

Objectives:

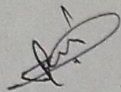
- To enable students understand the characterization, plot, themes, stage craft techniques in Shakespearean plays.

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		14 hours per unit (for 5 units)	70
Creative Writing		1 hour per unit(for 5 units)	05
Evaluation –Class Tests (CT)		1 test per unit(for 5 units)	05
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)	05
Dramatization(Play, Skits etc.)		2 hours for 3 unit only	02
Final Evaluation (FE)		3 hours (Rehearsal)	03
Hours per week	6	Credit	5
		Total	90

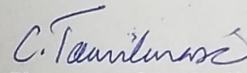
Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL. NO	HOURS	UNIT -CONTENT	MODE OF TEACHING			
			L	CT/ CW	S	FE
Unit-I						
1	5	King John	L			
2	4	Merchant of Venice	L			
3	5	Julius Caesar	L			
Unit-II						
4	5	As You Like It	L			
5	5	Hamlet	L			
6	4	Othello	L			
Unit - III						
7	5	King Lear	L			
8	5	Macbeth	L			
9	4	Cymbeline	L			
Unit - IV						
10	7	Developing Hints	L			
11	7	Paragraph Writing	L			
Unit - V						
12	14	Essay Writing (Current Affairs)	L			
Seminar						
1	5	UNIT-I,UNIT-II,UNIT-III,UNIT-IV&UNIT-V			S	
Class Test						
1	5	UNIT-I,UNIT-II,UNIT-III,UNIT-iv&UNIT-V		CT		

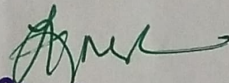
Creative Writing						
1	5	UNIT-V - Essay Writing (Current Affairs)		C W		
Dramatization(Play, Skits etc.)						
1	2	UNIT-III Only		C W		
Final Evaluation (FE)						
1	3	Entire course				FE



Head of the Department



Signature of the Staff Member(s)



Co-ordinator
Internal Quality Assurance Cell (IQAC)
 Govt. College for Women (A)
 Kumbakonam- 612 001

**GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) -
KUMBAKONAM**

DEPARTMENT OF ENGLISH

Teaching Plan

Name(s) of the Staff: V.UMA DEVI

Programme: II B.Sc Mat,Che,Phy

Academic Year: 2019-2020

Semester: IV Semester

Course Code: 18EL4NMEC2

Course Title: Personality Development
Personalities and Perception

Objectives:

- To expose students to the everyday use of English for communication.

Teaching Methodology			Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method [L]			2 hours per unit (for 5 units)		10
Creative Writing			1 hour per unit(for 5 units)		05
Evaluation Class Tests (CT)			1 test per unit(for 5 units)		05
Seminar/problem solving/class work(S)			1 hour per unit(for 5 units)		05
Dramatization(Play, Skits etc.)			2 hours for 3 unit only		02
Final Evaluation (FE)			3 hours (Rehearsal)		03
Hours per week	2	Credit	2	Total	30

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL. NO	HOURS	UNIT -CONTENT	MODE OF TEACHING			
			L	CT/ CW	S	FE
Unit-I						
1	5	The Nine Types of Intelligence	L			
2	5	The Happy Prince				
Unit-II						
3	4	Loneliness	L			
4	4	Study Tips				
Unit III						
5	3	Getting Exercise in College	L			
6	3	A Family				
7	3	Music and Stress Relief				
Unit IV						
8	2	What is P2?	L			
9	2	Why we love Who we love				
10	2	The Verger				
11	2	Essay Writing : The Basics				
Unit V						
12	1	Self Esteem.	L			
13	1	Problem Solving Strategies				
14	1	Guiding Principles for Life				

Seminar							
1	5	UNIT-IV&UNIT-V				S	
Class Test							
1	5	UNIT-I,UNIT-II,UNIT-III,UNIT-IV&UNIT-V			CT		
Creative Writing							
1	5	UNIT-V Essay Writing			C W		
Dramatization (Play, Skits etc.)							
1	2				C W		
Final Evaluation (FE)							
1	3	Entire course					FE

Head of the Department

Signature of the Staff Member(s)

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

DEPARTMENT OF ENGLISH

Teaching Plan

Name(s) of the Staff: Mrs.A.INDIRA

Programme: III B.A ENGLISH LITERATURE

Academic Year: 2019-2020

Semester: VI semester

CourseCode:SBEP

Course Title: ENGLISH PHONETICS

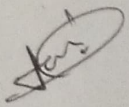
Objectives:

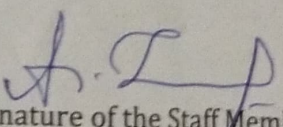
To build self confidence, enhance self- esteem, and improve overall personality of the participants

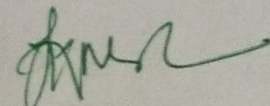
Teaching Methodology			Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method [L]			3 hrs per unit (for 5units)		15
Evaluation -Class Tests (CT)			1 hr per unit (for 5units)		05
Seminar/problem solving/class work(S)			1 hour per unit(for5 units)		05
Final Evaluation (FE)			1 hrs (Rehearsal)		05
Hrs per week	2	Credit	2	Total	30

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I						
1	1	Definition of Phonetics and Phoneme	L			
2	2	The Organs of Speech	L			
Unit-II						
3	3	The Consonants of English	L			
Unit III						
4	3	The Vowels of English	L			
Unit IV						
5	3	Phonology	L			
Unit V						
6	2	Words stress and Pronunciation Practice	L			
7	1	Transcription	L			
Seminar						
1	1	UNIT-I - UNIT V			S	
Class Test						
1	5	UNIT I - UNIT V		CT		
Final Evaluation (FE)						
1	4	Entire course				FE


Head of the Department


Signature of the Staff Member(s)


Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

TEACHING PLAN

Name of the Staff : Mrs. M. Ananthalakshmi

Programme : I. B.A. Economics

Academic Year : 2019-2020

Semester : I semester

Course Code : 18ECC101

Course Title : MICRO ECONOMICS - I

Objectives :

1. To make the students study about rules and types of data classification.
2. To make the students learn the basic and elementary tools in statistics such as correlation and regression analysis

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction		
Traditional Chalk and Talk Method (L)		15 hrs per unit (for 5 units)	75		
Evaluation – Class Tests (CT)		1 hrs (for 5 units)	5		
Seminar/ Problem solving / Class Work(s)		1 hour per unit (for 5 units)	5		
Creating awareness about the latest development of Numerical methods in current research sector (CA)		1 hour per unit (for 5 units)	3		
Final Evaluation (FE)		3 hrs (Rehearsal)	2		
Hrs per Week	6	Credit	6	Total	90

Hours per Week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL. NO.	HOUR	UNIT - CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit - I Nature and Scope						
1.	3	Definition	L			
2.	3	Scope of Economics Static and Dynamic analysis	L			
3.	3	Inductive and Deductive methods	L			
4.	3	Micro and Macro Economics	L			
5.	3	Importance and Limitations of Micro Economics	L			
UNIT - II Cardinal Analysis of Consumer Behavior						
6.	3	Meaning of Utility	L			
7.	3	Cardinal and Ordinal, Total and Marginal Utility,	L			
8.	3	The Law of Diminishing Marginal Utility and Equi-marginal Utility	L			
9.	3	Consumer Equilibrium Law of Demand Elasticity of Demand	L			
10.	3	Consumer Surplus	L			
UNIT - III Ordinal Analysis of Consumer Behavior						
11.	3	Indifference Curve	L			
12.	3	Meaning - Properties	L			
13.	3	Marginal Rate of Substitution	L			
14.	3	Consumer Equilibrium Price	L			
15.	3	Income and Substitution Effects, Critical Appraisal	L			
UNIT - IV Theory of Production						
16.	3	Factors of Production, Features	L			
17.	3	Production Function Concept and Meaning	L			
18.	3	Law of Variable Proportions	L			
19.	3	Law of Return to scale	L			
20.	3	Iso - Quants Meaning properties, producer's Equilibrium	L			

UNIT - V Cost and Revenue						
23.	3	Concepts of Cost, Short run and long run cost	L			
24.	3	Total cost, Marginal Cost, Average Cost, Fixed cost and Variable cost	L			
25.	3	Derivation of Long run cost curve	L			
26.	3	Revenue concepts Total Revenue, Marginal Revenue and Average Revenue	L			
27.	3	Relation between AR and MR	L			
Seminar / Creating Awareness						
1.	1	Unit - I			S	
2.	1	Unit - II			S	
3.	1	Unit - III			S	
4.	1	Unit - IV			S	
5.	1	Unit - V			S	
Class Test and Five year planning						
1	5	Unit - I, II, III, IV and V		CT		
Final Evaluation (FE)						
1	5	Entire Course				FE


Head of the Department


Signature of the Staff Member(s)


IQAC - CO-ORDINATOR.

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam-612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

Teaching Plan

Name(s) of the Staff: Mrs. M. Ananthalakshmi

Programme: I B.A ECONOMICS

Academic Year:

2019-2020

Semester: II Semester

Course Code:18ECC203

Course Title: MICRO ECONOMICS -II

Objectives: 1.To enable the students to know about the various forms of market structure and its price determination

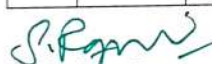
2.To study the theories of distribution and factor pricing

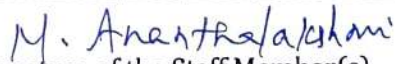
Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		15 hrs per unit (for 5 units)	75
Evaluation –Class Tests (CT)		1 hrs (for 5 units)	03
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)	05
Creating awareness about the latest developments of Numerical methods in current research sector (CA)		1 hour per unit(for 5 units)	05
Final Evaluation (FE)		3 hrs (Rehearsal)	02
Hrs per week	6	Credit	6
		Total	90

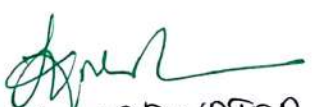
Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL. NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I						
1	3	Meaning and forms of market	L			
2	3	Marshall's General theory of value	L			
3	3	Time element	L			
4	3	Equilibrium of firm and Industry	L			
5	3	Objectives of the firm	L			
Unit-II						
6	3	Definition of perfect competition	L			
7	3	Features- Price output determination	L			
8	3	Monopoly-definition and meaning of monopoly	L			
9	3	Kinds of monopoly-Price determination	L			
10	3	Comparison between perfect competition and monopoly	L			
Unit – III						
11	3	Meaning and features of monopolistic competition	L			
12	3	Price determination under monopoly	L			
13	3	Oligopoly	L			
14	3	Definition of oligopoly	L			
15	3	Features of oligopoly	L			
16	3	Price and output determination under oligopoly	L			
Unit - IV						
17	3	Marginal productivity theory of distribution	L			
18	3	Modern theory of distribution	L			
19	3	Ricardian theory of rent	L			
20	3	Quasi-Rent	L			

21	3	Modern theory of Rent	L			
Unit - V						
22	3	Theories of wages- subsistence theory of wages	L			
23	3	Wage Fund Theory-Modern theory of wage	L			
24	3	Theories of loanable fund theory	L			
25	3	Classical theory of interest-Keynes liquidity theory of interest	L			
26	3	Theories of profit-Dynamic theory of profit-The innovation theory of profit	L			
Seminar/Creating Awareness						
1	1	UNIT-I Equilibrium of firm and Industry			S	
2	1	UNIT-II kinds of monopoly			S	
3	1	UNIT-III Features of monopolistic competition			S	
4	1	UNIT - IV Modern theory of distribution			S	
5	1	UNIT-V subsistence theory of wages			S	
Class Test						
1	3	UNIT I-UNIT III and UNIT-V		CT		
Final Evaluation (FE)						
1	2	Entire course				F


Head of the Department


Signature of the Staff Member(s)


IQAC - CO-ORDINATOR.

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

TEACHING PLAN

Name of the Staff : Mrs. N. VIJAYASUNDARI

Programme : I B.A. Economics

Academic Year : 2019-2020

Semester : I

Course Code : 18EC1A1

Course Title : PRINCIPLES OF COMMERCE

Objectives :

1. To make the students study about rules and types of data classification.
2. To make the students learn the basic and elementary tools in statistics such as correlation and regression analysis

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction	
Traditional Chalk and Talk Method (L)		15 hrs per unit (for 5 units)		75	
Evaluation - Class Tests (CT)		1 hrs (for 5 units)		5	
Seminar/ Problem solving / Class Work(s)		1 hour per unit (for 5 units)		5	
Creating awareness about the latest development of Numerical methods in current research sector (CA)		1 hour per unit (for 5 units)		3	
Final Evaluation (FE)		3 hrs (Rehearsal)		2	
Hrs per Week	6	Credit	6	Total	90

Hours per Week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL. NO.	HOUR	UNIT - CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit - I Introduction of Fundamentals						
1.	3	Fundamentals of Commerce	L			
2.	3	Forms of Business organizations	L			
3.	3	Sole Proprietorship, Partnership, Company, Co operative	L			
4.	3	Public and Joint Enterprises	L			
5.	3	Types of Business Combination	L			
UNIT - II Banks						
6.	3	Banks	L			
7.	3	Definition, kinds of banks	L			
8.	3	Central Bank, objectives, Functions	L			
9.	3	Commercial Banks- Nationalized Banks	L			
10.	2	Private sector banks and Regional rural banks- Co-operative bank and its functions	L			
UNIT - III Supply chain Management						
11.	3	Wholesale and retail business	L			
12.	3	Supply chain management, General and Special shops	L			
13.	3	General and Special Shops	L			
14.	3	Chain Stores, Multiple Shops	L			
15.	3	Mail order sales, Departmental stores	L			
16.	3	Super market A to Z shops	L			
UNIT - IV Insurance and Mutual Funds						
17.	3	Insurance	L			
18.	3	Kinds of Insurance	L			
19.	3	Life, Fire, Marine	L			
20.	3	Deposit insurance	L			
21.	3	Insurance against theft and loss of profit	L			

UNIT - V Advertisement						
22.	3	Advertisement	L			
23.	3	Objectives	L			
24.	3	Uses of Media	L			
25.	3	Importance	L			
26.	3	Merits and demerits of Media	L			
Seminar / Creating Awareness						
1.	1	Unit - I			S	
2.	1	Unit - II			S	
3.	1	Unit - III			S	
4.	1	Unit - IV			S	
5.	1	Unit - V			S	
Class Test and Five year planning						
1	3	Unit-I, II, III, IV and Unit - V		CT		
Final Evaluation (FE)						
1	2	Entire Course				FE

J. Rajarajini
Head of the Department

N. Vijayabharathi
Signature of the Staff Member(s)

[Signature]
IQAC - co-ordinator

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam-612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

TEACHING PLAN

Name of the Staff : Mrs. N. VIJAYASUNDARI

Programme : II B.A. Economics

Academic Year : 2019-2020

Semester : II

Course Code : 18ECC406

Course Title : LABOUR ECONOMICS

Objectives :

1. To make the students study about rules and types of data classification.
2. To make the students learn the basic and elementary tools in statistics such as correlation and regression analysis

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction	
Traditional Chalk and Talk Method (L)		13 hrs per unit (for 5 units)		65	
Evaluation – Class Tests (CT)		1 hrs (for 5 units)		3	
Seminar/ Problem solving / Class Work(s)		1 hour per unit (for 5 units)		3	
Creating awareness about the latest development of Numerical methods in current research sector (CA)		1 hour per unit (for 5 units)		2	
Final Evaluation (FE)		3 hrs (Rehearsal)		2	
Hrs per Week	5	Credit	5	Total	75

Hours per Week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL. NO.	HOUR	UNIT - CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit - I Meaning of Labour						
1.	2	Labour, Meaning, Characteristics of labour	L			
2.	3	Migratory Character, Causes for migration, absenteeism, Measures to reduce absenteeism	L			
3.	3	Labour turnover	L			
4.	2	Measurement, difficulties in measurement	L			
5.	3	Causes for low labour turnover	L			
UNIT - II Wage concept						
6.	2	Wages Real wages and nominal wages	L			
7.	3	Factors affecting real wages	L			
8.	3	Causes for wage differences	L			
9.	3	Methods of wage payments	L			
10.	3	Living wage, minimum wage and fair wage	L			
UNIT - III Industrial Disputes						
11.	2	Industrial Disputes	L			
12.	2	Forms of Industrial Disputes	L			
13.	2	Effects of Industrial disputes	L			
14.	3	Prevention of industrial disputes	L			
15.	2	Methods for the settlement of industrial disputes	L			
UNIT - IV Trade Union						
16.	3	Trade union, Meaning, Objectives	L			
17.	3	Structure of trade union in India	L			
18.	2	Functions of trade union	L			
19.	3	Factors affecting the growth of trade unions	L			
20.	2	Growth of trade unions in India - ILO-Aim-functions	L			
UNIT - V Social Securities						
22.	3	Social security, Benefits provide under social	L			

		security				
23.	2	Social security measures in India	L			
24.	2	Working conditions, Hours of work	L			
25.	2	Occupational hazards	L			
26.	3	Housing conditions, Workers education	L			
Seminar / Creating Awareness						
1.	1	Unit - I			S	
2.	1	Unit - II			S	
3.	1	Unit - III			S	
4.	1	Unit - IV			S	
5.	1	Unit - V			S	
Class Test and Five year planning						
1	3	Unit I, III and Unit V		CT		
Final Evaluation (FE)						
1	2	Entire Course				FE

S. Rajarani
Head of the Department

N. Visayam
Signature of the Staff Member(s)

[Signature]
IQAC - Co-ordinator

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

TEACHING PLAN

Name of the Staff : Mrs. M. Ananthalakshmi

Programme : II B.A. Economics

Academic Year : 2019-2020

Semester : I Semester

Course Code : 18EC3A4

Course Title : STATISTICAL METHODS - I

Objectives :

1. To make the students study about rules and types of data classification.
2. To make the students learn the basic and elementary tools in statistics such as correlation and regression analysis

Teaching Methodology			Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method (L)			13 hrs per unit (for 5 units)		65
Evaluation – Class Tests (CT)			1 hrs (for 5 units)		3
Seminar/ Problem solving / Class Work(s)			1 hour per unit (for 5 units)		3
Creating awareness about the latest development of Numerical methods in current research sector (CA)			1 hour per unit (for 5 units)		2
Final Evaluation (FE)			3 hrs (Rehearsal)		2
Hrs per Week	5	Credit	5	Total	75

Hours per Week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL. NO.	HOUR	UNIT - CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit - I Meaning and Definition						
1.	2	Introduction	L			
2.	3	Definition	L			
3.	3	Its relations with other Sciences	L			
4.	2	Functions	L			
5.	3	Limitations	L			
UNIT - II Data Collection						
6.	2	Collection of Data	L			
7.	3	Primary and Secondary Sources	L			
8.	3	Methods of Collection primary data	L			
9.	3	Precautions in the use of Secondary data	L			
10.	2	Framing a Questionnaire.	L			
UNIT - III Sampling Designs						
11.	2	Sampling Designs	L			
12.	2	Census and Sample method, Merits and demerits	L			
13.	2	Essentials of sampling	L			
14.	3	Methods of sampling Merits and demerits	L			
15.	2	Statistical error	L			
16.	2	Measurements of errors	L			
UNIT - IV Classification & Tabulation						
17.	3	Classification & Tabulation	L			
18.	3	Rules and Types	L			
19.	2	Frequency Distribution	L			
20.	3	Tabulation parts, Rules	L			
21.	2	Types of Tables	L			
UNIT - V Diagrams & Graphs						
22.	3	Diagrams.& Graphs Rules for making diagram	L			

23.	2	Types of Diagrams	L			
24.	3	Graphic presentation, general rules	L			
25.	2	Difference between graphs and diagrams	L			
26.	3	Histogram Frequency polygon frequency curve	L			
Seminar / Creating Awareness						
1.	1	Unit - I			S	
2.	1	Unit - II			S	
3.	1	Unit - III			S	
4.	1	Unit - IV			S	
5.	1	Unit - V			S	
Class Test and Five year planning						
1	3	Unit - I, III and Unit - V		CT		
Final Evaluation (FE)						
1	2	Entire Course				FE


Head of the Department


Signature of the Staff Member(s)


IQAC - CO-ORDINATOR.

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

TEACHING PLAN

Name of the Staff : Mrs. D. Mekala

Programme : II Year NMEC

Academic Year : 2019-2020

Semester : IV semester

Course Code : 18EC4NMEC2

Course Title : Economics of Insurance

Objectives :

1. To create knowledge about basic concepts of insurance.
2. To Impart knowledge about insurance agent and Information technology.

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction	
Traditional Chalk and Talk Method (L)		4 hrs per unit (for 5 units)		20	
Evaluation - Class Tests (CT)		1 hrs (for 5 units)		3	
Seminar/ Problem solving / Class Work(s)		1 hour per unit (for 5 units)		3	
Creating awareness about the latest development of Numerical methods in current research sector (CA)		1 hour per unit (for 5 units)		2	
Final Evaluation (FE)		3 hrs (Rehearsal)		2	
Hrs per Week	2	Credit	2	Total	30

Hours per Week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL. NO.	HOUR	UNIT - CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit - I Meaning and Importance						
1.	1	Meaning and Features of insurance	L			
2.	1	Characteristics of insurance	L			
3.	1	Importance of insurance	L			
4.	1	Principles and functions of insurance	L			
UNIT - II Insurances organization						
5.	1	Kinds of insurance	L			
6.	1	Types of insurance organizations	L			
7.	1	Types and kinds of insurance	L			
8.	1	Insurance organization in India Case study - IRDA certification	L			
UNIT - III Life Insurance						
9.	1	Life Insurance Policy	L			
10.	1	Kinds of Life insurance policies	L			
11.	1	Advantages of life insurance policies	L			
12.	1	Difference between life and non - life insurance policies - performance of private companies	L			
UNIT - IV Other Insurance						
13.	1	Health and Fire Insurance	L			
14.	1	Property and marine insurance	L			
15.	1	Personal accident insurance Fidelity insurance - workmen's compensation insurance	L			
16.	1	Automobile insurance - Crop Insurance	L			
UNIT - V Insurance Salesmanship						
17.	1	Insurance Agent - Definition	L			
18.	1	Characteristics of salesmanship	L			
19.	1	Qualities of development officers and insurance agents	L			
20.	1	Usage of Information technology	L			

Seminar / Creating Awareness						
1.	1	Unit - I Characteristics and importance of insurance			S	
2.	1	Unit - II Types of insurance organization			S	
3.	1	Unit - III Kinds and Advantages of life insurance policy			S	
4.	1	Unit - IV Health, Fire and accident insurance policy			S	
5.	1	Unit - V Characteristics and qualities of Insurance salesmanship			S	
Class Test						
1	3	Unit - III - Unit - IV and Unit - V		CT		
Final Evaluation (FE)						
1	2	Entire Course				FE


Head of the Department


Signature of the Staff Member(s)


IQAC Co-ordinator

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

TEACHING PLAN

Name of the Staff : Mrs. D. Mekala

Programme : II B.A. Economics

Academic Year : 2019-2020

Semester : III semester

Course Code : 18ECC305

Course Title : INTERNATIONAL ECONOMICS

Objectives :

1. To create knowledge about basic concepts of insurance.
2. To Impart knowledge about insurance agent and Information technology.

Teaching Methodology			Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method (L)			13 hrs per unit (for 5 units)		65
Evaluation – Class Tests (CT)			1 hrs (for 5 units)		3
Seminar/ Problem solving / Class Work(s)			1 hour per unit (for 5 units)		3
Creating awareness about the latest development of Numerical methods in current research sector (CA)			1 hour per unit (for 5 units)		2
Final Evaluation (FE)			3 hrs (Rehearsal)		2
Hrs per Week	5	Credit	4	Total	75

Hours per Week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL. NO.	HOUR	UNIT - CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit - I Meaning and Theories						
1.	2	International Economics Meaning, Features, Merits and Demerits	L			
2.	3	Domestic Vs International Trade, Theories of International Trade	L			
3.	3	Ricardo's comparative cost Theory, Heberler's Theory of opportunity cost	L			
4.	2	Hechsher ohlin Theory,	L			
5.	3	Superiority of modern theory over classical theory	L			
UNIT - II Free Trade Vs Protection						
6.	2	Free Trade vs Protection	L			
7.	3	Case for and against free trade	L			
8.	3	Tariff types effects	L			
9.	2	Quotas types effects	L			
10.	3	Dumping anti dumping measures	L			
UNIT - III Balance of Payments						
11.	2	Balance payments, meaning,	L			
12.	2	Importance				
13.	2	Distinction between balance of trade	L			
14.	2	Balance of payments				
15.	2	Disequilibrium, causes	L			
16.	3	Measures for removing disequilibrium in balance of payments	L			
UNIT - IV Foreign exchange						
17.	3	Meaning, Determination of equilibrium exchange rate	L			
18.	3	Theories of foreign exchange rate	L			
19.	2	The mint parity theory, purchasing power parity theory	L			
20.	3	Fixed vs Flexible exchange rate,	L			

21.	2	Merits and demerits				
UNIT - V International monetary system						
22.	3	International Liquidity problems	L			
23.	2	IMF, IBRD	L			
24.	3	WTO,	L			
25.	2	UNCTAD	L			
26.	3	SARRC.	L			
Seminar / Creating Awareness						
1.	1	Unit - I			S	
2.	1	Unit - II			S	
3.	1	Unit - III			S	
4.	1	Unit - IV			S	
5.	1	Unit - V			S	
Class Test						
1	3	Unit - III - Unit - IV and Unit - V		CT		
Final Evaluation (FE)						
1	2	Entire Course				FE

S. Princy S. Devi
Head of the Department

D. Malavika
Signature of the Staff Member(s)

Dr. Anuradha
Co-ordinator

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

TEACHING PLAN

Name of the Staff : Mrs. S.P. Balasangeetha

Programme : II B.A. Economics

Academic Year : 2019-2020

Semester : III

Course Code : 18ECC304

Course Title : Monetary Economics

Objectives :

1. To gain sound knowledge on the principle of public Finance.
2. To understand roles of different governments.

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction		
Traditional Chalk and Talk Method (L)		13 hrs per unit (for 5 units)	65		
Evaluation – Class Tests (CT)		1 hrs (for 5 units)	3		
Seminar/ Problem solving / Class Work(s)		1 hour per unit (for 5 units)	3		
Creating awareness about the latest development of Numerical methods in current research sector (CA)		1 hour per unit (for 5 units)	2		
Final Evaluation (FE)		3 hrs (Rehearsal)	2		
Hrs per Week	5	Credit	5	Total	75

Hours per Week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL. NO.	HOUR	UNIT - CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit - I Evolution and Functions of Money						
1.	2	Definition, Barter System	L			
2.	3	Evolution of Money, Function of money	L			
3.	3	Forms and kinds of money, commodity money	L			
4.	3	Metallic money, paper money	L			
5.	3	Credit money and near money	L			
UNIT - II Theories of money						
6.	2	Value of money, Quantity Theory of money	L			
7.	3	Fisher's Version, Cambridge Version	L			
8.	3	Keynes Theory of money and prices	L			
9.	3	Friedman's Restatement of the Quantity theory of money	L			
10.	3	Patinkin's Real balance effect	L			
11.	3.	Supply of money, components of money	L			
UNIT - III Inflation and deflation						
12.	2	Meaning, Types of inflation	L			
13.	2	Causes, Effects and Measures	L			
14.	2	Theories, Demand Pull, Cost	L			
15.	2	Push, Inflationary Gap, Deflation	L			
16.	2	Consequences and control of deflation	L			
Unit - IV Business Cycles						
17.	3	Meaning, Phases of Trade Cycles	L			
18.	3	Theories of Trade Cycle	L			
19.	2	Schumpeter, Hawtrey, Keynes	L			
20.	3	Hicks under consumption	L			
21.	2	Hayek's cob web theorem	L			
UNIT - V Banking						
22.	3	Central Bank, Functions	L			
23.	2	Commercial Banks, Functions	L			

24.	2	Balance Sheet, Credit Creation	L			
25.	2	Central Bank and its functions,	L			
26.	3	Monetary policy, objectives, Limitations, Methods of credit control	L			
Seminar / Creating Awareness						
1.	1	Theories of money Fishers version			S	
2.	1	Inflation and deflation meaning, types			S	
3.	1	Business cycles theories or trade cycle			S	
4.	1	Banking commercial banks function			S	
5.	1	Theories of money credit money			S	
Class Test and creating awareness						
1	3	Unit II, V		GT		
Final Evaluation (FE)						
1	2	Entire Course				FE


Head of the Department


Signature of the Staff Member(s)


IQAC Co-ordinator

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

TEACHING PLAN

Name of the Staff : Mrs. M. Ananthalakshmi

Programme : II B.A. Economics

Academic Year : 2019-2020

Semester : IV semester

Course Code : 18EC4A5

Course Title : Statistical Methods - II

Objectives :

1. To make the students study about the rules and types of data classification.
2. To make the students learn the basic and elementary tools in statistics such as correlation and regression analysis.

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction	
Traditional Chalk and Talk Method (L)		13 hrs per unit (for 5 units)		65	
Evaluation – Class Tests (CT)		1 hrs (for 5 units)		3	
Seminar/ Problem solving / Class Work(s)		1 hour per unit (for 5 units)		3	
Creating awareness about the latest development of Numerical methods in current research sector (CA)		1 hour per unit (for 5 units)		2	
Final Evaluation (FE)		3 hrs (Rehearsal)		2	
Hrs per Week	5	Credit	5	Total	75

Hours per Week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL. NO.	HOUR	UNIT - CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit - I Measures of central Tendencies						
1.	2	Arithmetic mean	L			
2.	3	Median mode	L			
3.	3	Harmonic mean	L			
4.	2	Geometric mean	L			
5.	3	Relationship between different averages	L			
UNIT - II Measures of Dispersion						
6.	2	Properties of good measure of variation	L			
7.	3	Range -Merits and demerits	L			
8.	3	Quartile deviation Merits and demerits	L			
9.	3	Standard deviation - merits and demerits	L			
10.	3	Co- efficient of variation and Lorenz curve	L			
UNIT - III Skewness and Kurtosis						
11.	2	Skewness - meanings	L			
12.	2	Types of skewness	L			
13.	2	Karlpearson measures of skewness	L			
14.	3	Bowley measures of skewness	L			
15.	2	Kurtosis - meaning	L			
16.	2	Measures of kurtosis	L			
UNIT - IV Correlation Analysis						
17.	3	Types of correlation	L			
18.	3	Scatter diagram- graphic method	L			
19.	2	Karlpearson's co - efficient of correlation	L			
20.	3	Co - efficient of determination	L			
21.	2	Speraman's rank correlation	L			
UNIT - V Regression Analysis						
22.	3	Meaning and uses	L			
23.	2	Correletion vs Regression analysis	L			

24.	2	Two regression lines	L			
25.	2	Regression co - efficient	L			
26.	3	Merits and demerits of regression	L			
Seminar / Creating Awareness						
1.	1	Unit - I Arithmetic mean			S	
2.	1	Unit - II Standard deviation merits and demerits			S	
3.	1	Unit - III Karlpearson measures of skewness			S	
4.	1	Unit - IV Karlpearson's co - efficient of correlation			S	
5.	1	Unit - V Correlation vs regression			S	
Class Test and Five year planning						
1	3	Unit - I, Unit - II and Unit - III		CT		
Final Evaluation (FE)						
1	2	Entire Course				FE

S. Rajni
Head of the Department

M. Ananthalekshmi
Signature of the Staff Member(s)

[Signature]
IQAC - CO - ORDINATOR

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam - 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

TEACHING PLAN

Name of the Staff : Mrs. D. Mekala

Programme : III B.A. Economics

Academic Year : 2019-2020

Semester : VI semester

Course Code : ECPEC4

Course Title : Rural Industrialization

Objectives :

1. To make the students to know about the meaning of Rural Industrialization.
2. To study the role of Rural Industrialization and its major steps taken for its development.

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction	
Traditional Chalk and Talk Method (L)		13 hrs per unit (for 5 units)		65	
Evaluation – Class Tests (CT)		1 hrs (for 5 units)		3	
Seminar/ Problem solving / Class Work(s)		1 hour per unit (for 5 units)		3	
Creating awareness about the latest development of Numerical methods in current research sector (CA)		1 hour per unit (for 5 units)		2	
Final Evaluation (FE)		3 hrs (Rehearsal)		2	
Hrs per Week	5	Credit	5	Total	75

Hours per Week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL. NO.	HOUR	UNIT - CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit - I Meaning and Role of Industrialization						
1.	2	Introduction of Rural Industries	L			
2.	3	Meaning of Rural Industrialization, urban Industrialization	L			
3.	3	Comparison of Rural and Urban Industries	L			
4.	2	Various Reasons of Rural Industrialization	L			
5.	3	Role of Rural Industrialization	L			
UNIT - II Types of Rural Industries						
6.	2	Introduction - cottage Industries definition	L			
7.	3	Features of Cottage and small scale industries	L			
8.	3	Difference between small scale and cottage Industries	L			
9.	2	Agro based industries - Khadhi and Village Industries	L			
10.	3	Handicrafts, Handloom Industry - Sericulture - Coir Industry	L			
UNIT - III Sources of Finance						
11.	2	Types of Industrial Finance	L			
12.	2	Drawbacks of Small scale Industries	L			
13.	2	Drawbacks of cottage Industries	L			
14.	3	Various sources of Finance	L			
15.	2	Institutional sources of Finance	L			
16.	2	Non - Institutional sources of Finance	L			
UNIT - IV Problems of Rural Industries						
17.	3	Problems of Rural Industries - Introduction	L			
18.	3	Problems of Locations and Raw Materials	L			
19.	2	Problems of Skilled labour and capital	L			
20.	3	Problems of Entrepreneurship and Technology	L			
21.	2	Problems of marketing and Infrastructure undue concentration	L			

UNIT - V Government Policy Towards Rural Industries						
22.	3	Governments policy introduction	L			
23.	3	Views of Gandhi on rural Industries	L			
24.	2	Industrial policy of 1991 with reference to rural Industries	L			
25.	2	Rural Industries and five year planning	L			
26.	3	Government measures and programmes for the promotion of rural Industries	L			
Seminar / Creating Awareness						
1.	1	Unit - I Comparison of Rural and urban Industries Role of Rural Industrialization			S	
2.	1	Unit - II Features of cottage and small scale Industries			S	
3.	1	Unit - III Sources of Finance Institutional and non Institutional sources of Finance			S	
4.	1	Unit - IV Various Problems of Rural Industries			S	
5.	1	Unit - V Industrial policy of 1991 Rural Industries and five year planning			S	
Class Test and Five year planning						
1	3	Unit - II - Unit - III and Unit - V		CT		
Final Evaluation (FE)						
1	2	Entire Course				FE

S. Rajaparam
Head of the Department

D. Mohana
Signature of the Staff Member(s)

IQAC
Co-ordinator

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

TEACHING PLAN

Name of the Staff : Mrs. D. Mekala

Programme : III B.A. Economics

Academic Year : 2019-2020

Semester : V Semester

Course Code : ECCE09

Course Title : Environomics

Objectives :

1. To make the students to know about the meaning of Rural Industrialization.
2. To study the role of Rural Industrialization and its major steps taken for its development.

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction		
Traditional Chalk and Talk Method (L)		13 hrs per unit (for 5 units)	65		
Evaluation – Class Tests (CT)		1 hrs (for 5 units)	3		
Seminar/ Problem solving / Class Work(s)		1 hour per unit (for 5 units)	3		
Creating awareness about the latest development of Numerical methods in current research sector (CA)		1 hour per unit (for 5 units)	2		
Final Evaluation (FE)		3 hrs (Rehearsal)	2		
Hrs per Week	5	Credit	5	Total	75

Hours per Week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL. NO.	HOUR	UNIT - CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit - I Meaning of Environment						
1.	2	Meaning of environment	L			
2.	3	Economics and environment	L			
3.	3	Transformation curve, Scope and significance of Environomics	L			
4.	2	Tragedy of commons, An analysis	L			
5.	3	Taj mahal, river Ganes, Marina Beach and Public parks	L			
UNIT - II Basic Theories of environomics						
6.	2	Market failure and externality	L			
7.	2	Types of externality	L			
8.	3	Perfect competition and externality	L			
9.	3	Imperfect competition and externality	L			
10.	3	Imperfect competition and externality	L			
UNIT - III Environmental problems and protection						
11.	3	Types of Pollution	L			
12.	3	Air, water	L			
13.	1	Noise Pollution				
14.	3	Pollution Control and Environmental protection	L			
15.	3	Solid Waste management b kumbakonam municipality	L			
UNIT - IV Environmental Education and Law						
16.	2	Environmental awareness, Education through environmental movements, Silent valley movement, Narmada Movement.	L			
17.	3	Fundamental Right, Legal policy and environmental protection, issues relating to science & technology.	L			
18.	2	The water (Prevention and control of Pollution) Act, 1974	L			

19.	2	Air (Prevention and control of pollution) Act, 1981	L			
20.	2	The environment (Protection) Act 1986	L			
21.	2	The forest conservation act.	L			
UNIT - V Current Environmental Issues						
23.	3	Global Warming	L			
24.	3	Green House Effect	L			
25.	2	Ozone depletion	L			
26.	2	Acid rain	L			
27.	3	Deforestation, wild life conservation	L			
Seminar / Creating Awareness						
1.	1	Unit - I				S
2.	1	Unit - II				S
3.	1	Unit - III				S
4.	1	Unit - IV				S
5.	1	Unit - V				S
Class Test and Five year planning						
1	3	Unit - I, Unit-II and Unit - IV			CT	
Final Evaluation (FE)						
1	2	Entire Course				FE


Head of the Department


Signature of the Staff Member(s)


IAAC Co-ordinator

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

TEACHING PLAN

Name of the Staff : Mrs. S.P. Balasangeetha

Programme : III B.A. Economics

Academic Year : 2019-2020

Semester : I

Course Code : 18ECC102

Course Title : Indian economic Development

Objectives :

1. To gain sound knowledge on the principle of public Finance.
2. To understand roles of different governments.

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction	
Traditional Chalk and Talk Method (L)		13 hrs per unit (for 5 units)	65	
Evaluation – Class Tests (CT)		1 hrs (for 5 units)	3	
Seminar/ Problem solving / Class Work(s)		1 hour per unit (for 5 units)	3	
Creating awareness about the latest development of Numerical methods in current research sector (CA)		1 hour per unit (for 5 units)	2	
Final Evaluation (FE)		3 hrs (Rehearsal)	2	
Hrs per Week	5	Credit 5	Total	75

Hours per Week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL. NO.	HOUR	UNIT - CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit - I Introduction						
1.	2	Concept of Economic Development and Growth	L			
2.	3	Basic Characteristics of Underdeveloped Economy	L			
3.	3	Economic and No-Economic Factors inhibiting economic development	L			
UNIT - II Human Resources, Poverty and Unemployment						
4.	2	Population, Growth, Age Composition	L			
5.	3	Occupational Distribution	L			
6.	3	Causes, Effects and remedial Measures	L			
7.	3	Population policy	L			
8.	3	Demographic Transition theory	L			
9.	3.	Poverty, Poverty Alleviation Programmes	L			
10.	3.	Unempolyment, Types, Causes and Effects				
UNIT - III Agriculture						
11.	2	Agriculture, Productivity	L			
12.	2	Land Reforms, Green Revolution	L			
13.	2	Agricultural Finance Marketing	L			
14.	3	Mechanization, Public Distribution System	L			
15.	2	Agricultural Development under Fiver year plans	L			
16.	2	Second Green revolution	L			
UNIT - IV Industry						
17.	3	Role of Industries	L			
18.	3	Industrial Policies of 1948, 1956 & 1991 and recent changes	L			
19.	2	Cottage and small scale industries, Large scale industries	L			
20.	3	Iron and Steel, Textile and Sugar Industries	L			

21.	2	Industrial development under five year plans	L			
UNIT - V Transport						
22.	3	Roadways, Railways	L			
23.	2	Airways and Water ways	L			
24.	2	Rail Road, Co-ordination,	L			
25.	2	Transport Co-ordination	L			
26.	3	Role of Transport in economic development	L			
Seminar / Creating Awareness						
1.	1	Introduction concept of Economic development and growth				S
2.	1	Human Resources, occupational distribution				S
3.	1	Agriculture second green revolution				S
4.	1	Industry role of industries				S
5.	1	Transport roadways, railways				S
Class Test and creating awareness						
1	3	Unit - II, IV and I		CT		
Final Evaluation (FE)						
1	2	Entire Course				FE

S. P. S.
Head of the Department

S. P. S.
Signature of the Staff Member(s)

[Signature]
IQAC Co-ordinator

[Signature]
Principal

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBakonam

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

TEACHING PLAN

Name of the Staff : Mrs. S.P. Balasangeetha

Programme : III B.A. Economics

Academic Year : 2019-2020

Semester : V

Course Code : 18ECC508

Course Title : Fiscal Economics

Objectives :

1. To gain sound knowledge on the principle of public Finance.
2. To understand roles of different governments.

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction	
Traditional Chalk and Talk Method (L)		13 hrs per unit (for 5 units)		65	
Evaluation - Class Tests (CT)		1 hrs (for 5 units)		3	
Seminar/ Problem solving / Class Work(s)		1 hour per unit (for 5 units)		3	
Creating awareness about the latest development of Numerical methods in current research sector (CA)		1 hour per unit (for 5 units)		2	
Final Evaluation (FE)		3 hrs (Rehearsal)		2	
Hrs per Week	5	Credit	5	Total	75

Hours per Week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL. NO.	HOUR	UNIT - CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit - I Introduction						
1.	2	Nature and Scope of Fiscal Economics	L			
2.	3	Importance	L			
3.	3	Public Finance and Private Finance	L			
4.	2	Principles of Maximum Social Advantage	L			
UNIT - II Public Revenue						
5.	2	Public Revenue, Meaning, Source of Public Revenue	L			
6.	3	Tax Revenue and Non - tax Revenue	L			
7.	3	Objective, Cannons of Taxation,	L			
8.	3	Direct Tax, Income Tax, Indirect Tax, Sales Tax	L			
9.	3	Methods of taxation, Shifting	L			
10.	3.	Impact and incidence of Taxation, Effects of Taxation	L			
UNIT - III Public Expenditure						
11.	2	Public Expenditure, meaning, causes	L			
12.	2	Public and Private Expenditure	L			
13.	2	Cannons	L			
14.	3	Effects and control of public Expenditure	L			
15.	2	Budget, meaning, types,	L			
16.	2	Balanced and unbalanced budget, performance budget, zero based budget	L			
UNIT - IV Public Debt						
17.	3	Public Debt, Meaning	L			
18.	3	Causes of Public Debt	L			
19.	2	Sources of Public debt,	L			
20.	3	Effects of public debt, internal debt, external debt	L			
21.	2	Redemption of Public debt	L			

UNIT - V Federal Finance						
22.	3	Meaning, Principles	L			
23.	2	Problems of central and state relationship	L			
24.	2	Local Finance	L			
25.	2	Fiscal Policy, Meaning, definition	L			
26.	3	Objectives, instruments, uses, limitations	L			
Seminar / Creating Awareness						
1.	1	Introduction - Importance				S
2.	1	Public Revenue objective, cannons of taxation				S
3.	1	Public Expenditure- cannons				S
4.	1	Public dept source of public dept				S
5.	1	Federal Finance - Local Finance				S
Class Test and creating awareness						
1	3	Unit - II, III and V		CT		
Final Evaluation (FE)						
1	2	Entire Course				FE


Head of the Department


Signature of the Staff Member(s)


IQAC Co-ordinator

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM
POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

Teaching Plan

Name(s) of the Staff: N.VIJAYASUNDARI

Programme: III B.A ECONOMICS

Academic Year:

2019-2020

Semester: VI semester

Course Code:18ECC613

Course Title: Personnel management

Objectives: 1.To enable the students to know about the meaning,scope,principles and functions of personnel management

2.To make the students to study about the man power planning ,job analysis,motivation and leadership of personnel management

Teaching Methodology	Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]	15 hrs per unit (for 5 units)	75
Evaluation –Class Tests (CT)	1 hrs (for 5 units)	03
Seminar/problem solving/class work(S)	1 hour per unit(for 5 units)	05
Creating awareness about the latest developments of Numerical methods in current research sector (CA)	1 hour per unit(for 5 units)	05
Final Evaluation (FE)	3 hrs (Rehearsal)	02
Hrs per week	6	Credit
	6	Total
		90

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL. NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I						
1	3	Meaning and definition of personnel management	L			
2	3	Characteristics-scope-objectives	L			
3	3	Principles	L			
4	3	Functions-managerial and operative functions	L			
5	3	problems	L			
Unit-II						
6	3	Meaning –definition of manpower planning	L			
7	3	Importance of manpower planning	L			
8	3	Characteristics- objectives-needs-Factors influencing manpower planning	L			
9	3	Internal and external factors	L			
10	3	Steps involved in manpower planning-Limitations	L			
Unit – III						
11	3	Recruitment	L			
12	3	Selection and placement of personnel	L			
13	3	Job analysis-job description-job specification	L			
14	3	Job evaluation-interviews and Tests	L			
15	3	Promotion- Transfer	L			
16	3	Training and methods of training	L			
Unit - IV						
17	3	Motivation – meaning-definition	L			
18	3	Nature and characteristics of motivation	L			
19	3	Importance-Theories of motivation	L			

20	3	Maslow's Need Hierarchy Theory-Mc.Gregor's X and Y theories	L			
21	3	Herbler's two factor theory-Vroom's expectancy theory	L			
Unit - V						
22	3	Concept of Leadership	L			
23	3	Characteristics of leadership	L			
24	3	Importance- Qualities-Functions	L			
25	3	Types of leadership-Theories of leadership	L			
26	3	Traits theory- Behavioural theory- Situational theory	L			
Seminar/Creating Awareness						
1	1	UNIT-I characteristics of personnel management			S	
2	1	UNIT-II Importance of manpower planning			S	
3	1	UNIT-III Job analysis			S	
4	1	UNIT - IV Vroom's Expectancy theory			S	
5	1	UNIT-V Importance of leadership			S	
Class Test						
1	3	UNIT I-UNIT III and UNIT-V		CT		
Final Evaluation (FE)						
1	2	Entire course				F

P. Rajan
Head of the Department

N. Vijay Srin
Signature of the Staff Member(s)

[Signature]
IAAC - Co-ordinator
Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001

[Signature]

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

TEACHING PLAN

Name of the Staff : Mrs. N. VIJAYASUNDARI

Programme : III B.A. Economics

Academic Year : 2019-2020

Semester : V

Course Code : 18ECC510

Course Title : CAPITAL MARKET

Objectives :

1. To make the students study about rules and types of data classification.
2. To make the students learn the basic and elementary tools in statistics such as correlation and regression analysis

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction	
Traditional Chalk and Talk Method (L)		13 hrs per unit (for 5 units)		65	
Evaluation - Class Tests (CT)		1 hrs (for 5 units)		3	
Seminar/ Problem solving / Class Work(s)		1 hour per unit (for 5 units)		3	
Creating awareness about the latest development of Numerical methods in current research sector (CA)		1 hour per unit (for 5 units)		2	
Final Evaluation (FE)		3 hrs (Rehearsal)		2	
Hrs per Week	5	Credit	5	Total	75

Hours per Week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL. NO.	HOUR	UNIT - CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit - I Functions and importance						
1.	2	Capital Market, Definition, Features, Concepts, Functions, Structures	L			
2.	3	Importance and Growth of Capital Market in India	L			
3.	3	Money markets, definition, Features	L			
4.	2	Capital market vs money market	L			
5.	3	Role of Commercial banks	L			
UNIT - II Corporate securities						
6.	2	Long term sources, Corporate securities	L			
7.	2	Equity shares, Merits and Demerits	L			
8.	3	Preference shares, Merits and Demerits	L			
9.	3	Debentures and Bonds, Convertible and Non-Convertible Debentures , Full and partly convertible debentures	L			
10.	3	Company deposits	L			
UNIT - III Financial Institutions						
11.	3	Financial Institutions	L			
12.	3	LIC, UTI, IDBI, SIDBI, SFCs	L			
13.	1	Mutual Funds	L			
14.	3	Open and Close ended Mutual Funds	L			
15.	3	Global Depository Receipts	L			
UNIT - IV Primary Markets and Secondary Market						
16.	2	Public issues of shares, Primary market, Secondary market	L			
17.	3	Issue of shares at Par and at Premium	L			
18.	2	Right issue of shares, Issue of Bonus Shares	L			
19.	2	Underwriting of Shares	L			
20.	2	Merchant Banks Foreign Institutional investors	L			

UNIT - V Stock Exchange						
22.	3	Stock exchange, Meaning Definition, Characteristics, Functions	L			
23.	3	Listing of securities	L			
24.	2	Dealers in stock exchange	L			
25.	2	Securities and exchange board of India (SEBI) Functions	L			
26.	3	Powers and Performance	L			
Seminar / Creating Awareness						
1.	1	Unit - I			S	
2.	1	Unit - II			S	
3.	1	Unit - III			S	
4.	1	Unit - IV			S	
5.	1	Unit - V			S	
Class Test and Five year planning						
1	3	Unit II, III and Unit V		CT		
Final Evaluation (FE)						
1	2	Entire Course				FE

S. Rajarani

Head of the Department

N. Visayam

Signature of the Staff Member(s)

[Signature]

IQAC - Co-ordinator

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam - 612 001

Teaching Plan

Name(s) of the Staff: Dr. P.Veerachamy

Programme: I MA Economics

Academic Year: 2019-2020

Semester: II semester

Course Code: P19ECC206

Course Title: MACRO ECONOMIC ANALYSIS - II

Objectives: 1. To Make The Students understanding the important of macroeconomic concepts .

2. To trained students in analyzing economic problems with the help of theoretical foundations

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		15 hrs per unit (for 5 units)	75
Evaluation -Class Tests (CT)		1 hrs (for 5 units)	05
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)	05
Creating awareness about the latest developments of Numerical methods in current research sector (CA)		1 hour per unit(for 5 units)	02
Final Evaluation (FE)		3 hrs (Rehearsal)	03
Hrs per week	6	Credit	5
		Total	90

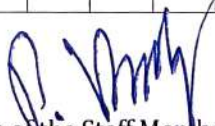
Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I						
1	3	Post Keynesian approach to demand for money	L			
2	3	Patinkin and real balance effect	L			
3	4	Approaches of baumol –tobin-frideman and the quantity theory	L			
4	2	Crisis in Keynesian economics	L			
5	3	The revival of monetarism	L			
Unit-II						
6	3	Supply of money – definition – determination of money supply	L			
7	3	Central bank and high powered money	L			
8	3	Commercial banks and credit creations	L			
9	2	Control of money supply	L			
10	4	Instruments of credit control	L			
Unit – III						
12	2	Meaning - role of non banking financial intermediaries	L			
13	3	Radcliffe committee	L			
14	3	Roll and regulation of NBFIs	L			
15	2	Development of NBFIs in india and the control of RBI	L			
16	3	NBFIs vs commercial banks	L			
17	2	Tobin – Gurley And Shaw theory	L			
Unit - IV						
18	3	Inflation - causes	L			
19	2	Types and effects of inflation	L			
20	4	Inflation and unemployment	L			

21	4	Philips curve - deflation	L			
22	2	Stagflation - friedman philips arguments (long run)	L			
Unit - V						
23	3	Objectives of macro economic policy	L			
24	3	Monetary policy	L			
25	3	Fiscal policy	L			
26	3	Tools and problems	L			
27	3	Monetarism vs Keynesianism	L			
Seminar						
1	1	UNIT-I Friedman and quantity theory			S	
2	1	UNIT-II determination of money supply			S	
3	1	UNIT-III role of non banking financial intermediaries			S	
4	1	UNIT - IV inflation and deflation			S	
5	1	UNIT-V monetary and fiscal policy			S	
Class Test						
1	5	UNIT I-UNIT V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE


Head of the Department


IQAC coordinator


Signature of the Staff Member(s)

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

Teaching Plan

Name(s) of the Staff: Dr. P.Veerachamy

Programme: I MA Economics

Academic Year: 2019 -2020

Semester: I semester

Course Code: P19ECC102

Course Title: MACRO ECONOMIC ANALYSIS -1

- Objectives: 1. To make the students understanding the important of macroeconomic concepts.
 2. To train students in analyzing economic problems with the help of theoretical foundations

Teaching Methodology		Distribution of hours/Unit		Total hours of Instruction	
Traditional Chalk and Talk Method [L]		15 hrs per unit (for 5 units)		75	
Evaluation -Class Tests (CT)		1 hrs (for 5 units)		05	
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)		05	
Creating awareness about the latest developments of Numerical methods in current research sector (CA)		1 hour per unit(for 5 units)		02	
Final Evaluation (FE)		3 hrs (Rehearsal)		03	
Hrs per week	6	Credit	5	Total	90

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

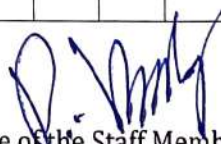
SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I						
1	3	Meaning ,Nature and scope of Macro economics	L			

2	3	Importance and Limitations of Macro Economics	L			
3	4	Circular flow of income in Two ,Three and Four sector Economy	L			
4	2	Economic Welfare Analysis	L			
5	3	National Income Analysis: Concepts ,Methods and Difficulties	L			
Unit-II						
6	3	Classical Theory –J.B Say’s Law of Market	L			
7	3	Wages and Employment - Pigou’s version	L			
8	3	Keynesian Theory of Employment	L			
9	4	Principles of Effective Demand and Aggregate demand Function	L			
10	2	Aggregate Supply functions	L			
Unit – III						
12	2	Consumption function - Concepts	L			
13	3	Keynes Physiological law of Consumption	L			
14	2	Factor’s influencing Consumption	L			
15	4	Theories: Absolute income and Relative Income	L			
16	2	Permanent Income Hypothesis	L			
17	2	Life Cycle Hypothesis	L			
Unit - IV						
18	3	Concepts - Types , Marginal efficiency of investment	L			
19	2	Marginal efficiency of Capital	L			
20	3	Factors affecting MEC-Relationship between MEC and MEI	L			
21	4	Multiplier-Theories of Multiplier :Dynamic, Balanced Budget	L			

22	3	Foreign trade multiplier, Principles of Acceleration-Super Multiplier	L			
Unit - V						
23	3	Product Market Equilibrium	L			
24	3	IS Curve-Derivation of IS Curve-Slope of IS Curve-Shift in IS Curve	L			
25	3	Money Market Equilibrium	L			
26	3	Derivation of LM Curve-Slope and Shift in general equilibrium of Product	L			
27	3	Money Market- Changes in General Equilibrium	L			
Seminar						
1	1	UNIT-I T National Income Analysis			S	
2	1	UNIT-II Theories of Employment			S	
3	1	UNIT-III Life cycle Hypothesis			S	
4	1	UNIT - IV Balanced Budget and Multiplier			S	
5	1	UNIT-V Product Market equilibrium			S	
Class Test						
1	5	UNIT I-UNIT V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE


Head of the Department


IQAC coordinator


Signature of the Staff Member(s)

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

TEACHING PLAN

Name of the Staff : Mrs. S.P. Balasangeetha

Programme : I M.A. Economics

Academic Year : 2019-2020

Semester : II

Course Code :

Course Title : Fiscal Economics

Objectives :

1. To gain sound knowledge on the principle of public Finance.
2. To understand roles of different governments.

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction		
Traditional Chalk and Talk Method (L)		13 hrs per unit (for 5 units)	65		
Evaluation – Class Tests (CT)		1 hrs (for 5 units)	3		
Seminar/ Problem solving / Class Work(s)		1 hour per unit (for 5 units)	3		
Creating awareness about the latest development of Numerical methods in current research sector (CA)		1 hour per unit (for 5 units)	2		
Final Evaluation (FE)		3 hrs (Rehearsal)	2		
Hrs per Week	5	Credit	5	Total	75

Hours per Week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL. NO.	HOUR	UNIT - CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit - I Public Revenue						
1.	2	Classifications : Adam smith, Dalton and Taylor	L			
2.	3	Principles of taxation - principle of equity, cost of service theory, Benefit principle ability to pay theory	L			
3.	3	Income tax	L			
4.	2	GST	L			
5.	3	Tax and Non - Tax revenue of the government of India	L			
UNIT - II Public Expenditure						
6.	2	Reason for the growth of public expenditure	L	.		
7.	3	Wagner's and Musgrave's views on public expenditure, peacock - wiseman and colin clark hypothesis	L			
8.	3	Plan and non - plan expenditure of the government of Indian	L			
9.	3	Effects of public expenditure	L			
10.	3	Controls - public expenditure	L			
UNIT - III Public Debt						
11.	2	Concept of dept	L			
12.	2	Public dept management	L			
13.	2	Definition - objectives	L			
14.	3	Principles of public dept management	L			
15.	2	Methods of repayment	L	.		
16.	2	Public dept in India since in dependence	L			
UNIT - IV Budget						
17.	3	Budget concept	L			
18.	3	Classification - process	L			
19.	2	Concepts of zero base budgeting	L			

20.	3	Recent union budget in India	L			
21.	2	Deficit financing : concept - objectives Measures	L			
UNIT - V Financial Relations and fiscal policy						
22.	3	Federal Finance	L			
23.	2	Concepts - principles - problems	L			
24.	2	Finance commission; features - functions - Recommendations - Finance commissions	L			
25.	2	Recent finance commission	L			
26.	3	Fiscal policy ; objective - Instruments - Role of Fiscal policy in India	L			
Seminar / Creating Awareness						
1.	1	Public Revenue				S
2.	1	Public Debt methods of repayment				S
3.	1	Budget Concer				S
4.	1	Public expenditure controls				S
5.	1	Budget classification				S
Class Test and creating awareness						
1	3	Unit - I, III			CT	
Final Evaluation (FE)						
1	2	Entire Course				FE


Head of the Department


Signature of the Staff Member(s)


IQAC Co-ordinator

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

Teaching Plan

Name(s) of the Staff: Dr. P.Veerachamy

Programme: II MA Economics

Academic Year: 2019-2020

Semester: IV Semester

Course Code: PIBECAECA

Course Title: ENVIRONMENTAL ECONOMICS

Objectives: 1. To learn the importance of environment for the economic system

2. The flow of resources between the two systems and the consequences of pollution to human welfare

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction	
Traditional Chalk and Talk Method [L]		15 hrs per unit (for 5 units)		75	
Evaluation -Class Tests (CT)		1 hrs (for 5 units)		05	
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)		05	
Creating awareness about the latest developments of Numerical methods in current research sector (CA)		1 hour per unit(for 5 units)		02	
Final Evaluation (FE)		3 hrs (Rehearsal)		03	
Hrs per week	6	Credit	4	Total	90

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I						
1	3	Nature and scope of Environmental Economics	L			

2	3	Basic concepts of environmental economics	L			
3	4	Environmental segments-Ecology -Eco system	L			
4	2	Organization and structure of eco-system	L			
5	3	Relationship between environment and the economy	L			
Unit-II						
6	3	Efficiency in a private economy	L			
7	3	Theory of material balance model-spillover effects	L			
8	3	Externalities Efficiency and social welfare	L			
9	4	Internalization of externalities-solutions to the externalities-Environmental as a public good	L			
10	2	Government failure and environmental damage	L			
Unit – III						
12	2	Risk of a deteriorating environment	L			
13	3	Natural resources and their conservation	L			
14	2	Population and environmental quality	L			
15	4	Economic growth and environmental quality	L			
16	2	Retarding impacts –Green house effect	L			
17	2	Acid rain –Climate change	L			
Unit - IV						
18	3	Meaning of Pollution-Types of pollution – Soil ,Air, water and Noise -causes	L			
19	2	Impacts of human health, animals and vegetation	L			
20	3	Recycling of waste –Pollution and resource use	L			
21	4	Cost benefit analysis of pollution control	L			
22	3	Direct and indirect methods of pollution control	L			

Unit - V						
23	5	Basic approaches to environmental policy	L			
24	5	Distributive effects of environmental policy	L			
25	5	law and environmental protection in india	L			
Seminar						
1	1	UNIT-I T Environmental Segments			S	
2	1	UNIT-II Theories of public good			S	
3	1	UNIT-III Natural Resources And Their Conservation			S	
4	1	UNIT - IV Environmental Pollution			S	
5	1	UNIT-V Environmental Policies			S	
Class Test						
1	5	UNIT I-UNIT V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE


Head of the Department


Signature of the Staff Member(s)


IQAC coordinator

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

Teaching Plan

Name(s) of the Staff: Dr. P.Veerachamy

Programme: FI MA Economics

Academic Year: 2019-2020

Semester: III semester

Course Code: P18ECC309

Course Title: INTERNATIONAL ECONOMICS

- Objectives: 1. To acquire basic knowledge about international trade and trade issues .
 2. To understanding of the key concepts and practical applications of international trade

Teaching Methodology			Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method [L]			15 hrs per unit (for 5 units)		75
Evaluation -Class Tests (CT)			1 hrs (for 5 units)		05
Seminar/problem solving/class work(S)			1 hour per unit(for 5 units)		05
Creating awareness about the latest developments of Numerical methods in current research sector (CA)			1 hour per unit(for 5 units)		02
Final Evaluation (FE)			3 hrs (Rehearsal)		03
Hrs per week	6	Credit	5	Total	90

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I						
1	3	Theories of absolute advantage	L			

2	3	Comparative advantage and opportunities cost	L			
3	4	Heckscher and ohlin theory of trade	L			
4	2	Leontief paradox	L			
5	3	Kravis and linder theory of trade	L			
Unit-II						
6	3	Sources of gain	L			
7	3	Factors determining size of gain - Criteria of measuring gains from trade	L			
8	3	Concepts of terms of trade	L			
9	2	Factors deciding terms of trade	L			
10	4	Theory of interventions – Tariff, Quota	L			
Unit – III						
12	2	Balance of payments - meaning and structure	L			
13	3	Disequilibrium in balance of payments – measures to correct deficit in balance of payments	L			
14	3	Theories of foreign exchange – the mint parity theory	L			
15	2	The purchasing power parity theory	L			
16	3	balance of payment theory	L			
17	2	Causes of changes in the exchange rates	L			
Unit – IV						
18	3	Bretton woods systems – the breakdown of the bretton woods system	L			
19	2	The present international monetary systems	L			
20	4	Role of WTO, UNCTAD, IMF, World Bank	L			
21	4	Asian Development Bank And SAARC	L			
22	2	G20 regional cooperation	L			

Unit - V						
23	3	Foreign trade since independence	L			
24	3	Direction and compositions of india's foreign trades	L			
25	3	Balance of payments crisis	L			
26	3	Balance of payments since the new economic reforms 1991	L			
27	3	Recent export and import policy	L			
Seminar						
1	1	UNIT-I T David ricardo comparative cost theory			S	
2	1	UNIT-II terms of trade			S	
3	1	UNIT-III Balance Of Payment S			S	
4	1	UNIT - IV Asian development banks			S	
5	1	UNIT-V Trade Policies In India			S	
Class Test						
1	5	UNIT I-UNIT V			CT	
Final Evaluation (FE)						
1	3	Entire course				FE


Head of the Department


IQAC coordinator


Signature of the Staff Member(s)

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam-612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM
POST GRADUATE AND RESEARCH DEPARTMENT OF COMMERCE

Teaching Plan

Name(s) of the Staff: **R.REVATHI**

Programme: **M.Com**

Academic Year:

2019-2020

Semester: **IV semester**

Course Code: P18COC413

Title: **ENTREPRENEURIAL DEVELOPMENT**

Objectives:

- To enable the Students gain knowledge about entrepreneurs traits and procedures

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		13 hrs per unit (for 5 units)	65
ICT Enabled Lectures [I]		----	----
Practical Demonstration[P]		----	----
Tutorial (T)		----	----
Field visit (FV)		----	----
Group discussion		----	----
Evaluation -Class Tests (CT)		2 test per unit	10
Seminar/problem solving/class work(S)		2 hour per unit(for 5 units)	10
Creating awareness (CA)		1 hour per unit(for 5 units)	05
Final Evaluation (FE)		----	----
Hrs per week	6	Credit	5
		Total	90

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	CA
UNIT -I						
1	2	Definitions and characteristics of entrepreneurs	L			
2	3	Nature and functions , entrepreneurship -Definition, types of	L			

Practice
 Tutorial (I)
 (1)

	3	entrepreneurs , Qualities of entrepreneurs					
4	3	Role of entrepreneurs in economic development, types of entrepreneurs	L				
5	2	Factors affecting entrepreneurial growth	L				
		Problems of entrepreneurs. Entrepreneurial growth in India.	L				
UNIT – II							
6	4	Women entrepreneurs –Definitions of Women entrepreneurs , Functions of Women entrepreneurs	L				
7	5	Problems Women entrepreneurs Remedies for Women entrepreneurs growth.	L				
8	4	Functions of Women entrepreneurs and Qualities Women entrepreneurs	L				
UNIT – III							
9	3	Project –definition and meaning of Project - Project identification	L				
10	3	Sources of business idea Data collection -	L				
11	3	Project selection meaning - Project formulation -	L				
12	2	Project appraisal -definition of Project appraisal- methods of Project appraisal	L				
13	2	Project report –meaning – definition –content of project- importance of Project report	L				
UNIT – IV							
14	2	Sources of finance- institutional support for entrepreneurs , IDIB .ICIC, NSIC, TCOs	L				
15	3	institutional finance for entrepreneurs , IFCI, SFC,	L				
16	2	Entrepreneurial Development Programme -EDP Meaning and definitions of EDP process of EDP,	L				
17	3	Entrepreneurial development programme problems and suggestions for improvement	L				
18	3	Step in Entrepreneurial development programme	L				
UNIT – V							
19	3	Small entrepreneurs – meaning And definition , features .	L				
20	3	Taxation., benefits of SSI	L				
21	2	Incentives and subsidies to the SSI	L				
22	2	Government supports to the SSI	L				
Seminar							
1	3	Unit-I Problems of entrepreneurs. Entrepreneurial growth in India				S	
2	3	Unit III- Functions of Women entrepreneurs and Qualities Women entrepreneurs				S	
3	4	Unit IV- institutional finance for entrepreneurs				S	
Class Test							
1	10	Unit I to V					CT
Creating Awareness (CA)							
1	2	Entire course					CA


 Head of the Department


 Signature of the Staff Member(s)

Dr. W. JAYASEELI, M.Com., M.Phil., Ph.D.,
 Associate Professor of Commerce,
 Government College for Women (Autonomous),
 Kumbakonam - 612 001.


Co-ordinator
 Internal Quality Assurance Cell (IQAC)
 Govt. College for Women (A)
 Kumbakonam- 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM
POST GRADUATE AND RESEARCH DEPARTMENT OF COMMERCE
Teaching Plan

Name(s) of the Staff: N.DEEPA

2019-2020

Programme : B.COM

Academic Year:

Semester: V semester

Course Code:

COCE08

Course Title: FINANCIAL MANAGEMENT

Objectives:

- To educate the students about the financial management concept and sources, procurement and management of fund.

Teaching Methodology	Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]	08 hour per unit (for 5 units)	40
ICT Enabled Lectures [I]	-----	-----
Practical Demonstration[P]	-----	-----
Tutorial (T)	-----	-----
Field visit (FV)	-----	-----
Group discussion		
Evaluation –Class Tests (CT)	1 test per unit	05
Seminar/problem solving/class work(S)	(for 5 units)	25
Creating awareness about the latest developments of commerce in current research sector (CA)	-----	---
Final Evaluation (FE)	5 hrs (Rehearsal)	05
Hrs per week	6	Credit
	5	Total
		75

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HR	UNIT-CONTENT	MODE OF TEACHING			
			L	CT	S	FE
UNIT -I: FINANCIAL MANAGEMENT & COST OF CAPITAL						
1	1	Scope & functions of financial management, financial planning	L			
2	2	Time value of money	L			
3	2	Cost of capital (debt & preference)	L			
4	1	Cost of equity , weighted average method	L			
UNIT - II: CAPITAL STRUCTURE						
6	1	Factors influencing capital structure	L			
7	1	Indifference point	L			
8	2	Theories of capital structure (NOI, NI)	L			
9	2	Traditional & MM approach	L			
UNIT - III LEVERAGE AND DIVIDEND POLICY						
10	1	Leverage : significance and types	L			
11	2	Operating, financial & combined leverage	L			
12	1	Dividend policy : theories	L			
13	2	Value of the firm	L			
UNIT - IV: WORKING CAPITAL MANAGEMENT						
16	1	Concept & significance	L			
17	2	Determination & forecasting of working capital	L			
18	3	Cash budget models	L			
UNIT - V: RECEIVABLE MANAGEMENT						
19	1	Credit policy	L			
20	3	Inventory management techniques	L			
21	2	EOQ, Stock level & turnover ratio	L			
SEMINAR						
1	1	Objectives financial management & scope of financial planning			S	
2	1	Arbitrage process, features of capital structure			S	
3	1	Relevant & irrelevant theories			S	
4	1	Cash budget models			S	
5	1	Techniques of inventory management			S	
PROBLEM SOLVING						
1	6	UNIT I: Time value of money and cost of securities				PS
2	5	UNIT II: traditional and MM theories				PS
3	5	UNIT III: valuation of firm				PS
4	5	UNIT IV: capital budget				PS
5	6	UNIT V: stock level and turnover ratio				PS
Class Test						
1	5	UNIT I to UNIT V			CT	
Final Evaluation (FE)						
1	3	Entire course				FE

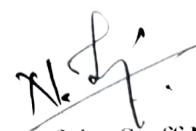


Head of the Department

Dr. W. JAYASREE
Associate Professor of Commerce,
Government College for Women,
Kumbakonam - 612 001.



Co-ordinator
Internal Quality Assurance Cell (IQAC),
Govt. College for Women,
Kumbakonam - 612 001



Signature of the Staff Member(s)

(N-DEEPA)

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM
POST GRADUATE AND RESEARCH DEPARTMENT OF COMMERCE
 Teaching Plan

Name(s) of the Staff: M.BANUMATHI

Programme: M.COM

Semester: III semester

Academic Year: 2019-2020

Course Code: P18COC611

Course Title: ADVANCE CORPORATE ACCOUNTING

Objectives:

- To educate the students about the importance of management accounting and uses of different tools of management.

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		12 hour per unit (for 5 units)	60
ICT Enabled Lectures [I]		-----	-----
Practical Demonstration[P]		-----	-----
Tutorial (T)		-----	-----
Field visit (FV)		-----	-----
Group discussion		-----	-----
Evaluation –Class Tests (CT)		2 test per unit(for 5 units)	10
Seminar/problem solving/class work(S)		3 hrs for 5 units	15
Creating awareness about the latest developments of quantum physics in current research sector (CA)		-----	---
Final Evaluation (FE)		5 hrs (Rehearsal)	05
Hrs per week	6	Credit	6
		Total	90

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HO UR	UNIT –CONTENT	MODE OF TEACHING			
			L	CT	S	FE
UNIT –I:Management Accounting, Financial Statement Analysis and Ratio analysis						
1	2	Definition , nature, scope and merits and demerits and objectives	L			
2	3	Cost accounting Vs management accounting, management accounting and financial accounting, financial statement analysis	L			
3	2	Common size statement, Comparative statement and trend analysis	L			
4	5	Ratio Analysis	L			

UNIT - II:		Fund flow and Cash flow statement			
5	5	Fund flow statement-schedule for changes in working capital and fund from operation	L		
6	4	Preparing fund flow statement	L		
7	3	Cash flow statement	L		
UNIT - III:		Marginal Costing and Applications			
8	3	Marginal Costing - Meaning, Definition and uses and break even analysis	L		
9	4	CVP analysis	L		
10	5	Managerial Applications	L		
UNIT - IV:		Budget and Budgetary Control			
11	3	Budget and budgetary control, types of budget	L		
12	3	Purchase budget, production budget and sales budget	L		
13	2	Cash budget	L		
14	4	Flexible budget	L		
UNIT - V:		Capital Budgeting			
15	4	Capital budgeting-importance, appraisal methods-payback period	L		
16	4	ARR, Discounted Cash flow	L		
17	4	Net present value, profitability Index and IRR	L		
PROBLEM SOLVING					
1	4	UNIT I : ratio analysis			S
2	4	UNIT II: fund flow and cash flow			S
3	2	UNIT III: CVP analysis			S
4	3	UNIT IV: classification of budget			S
5	2	UNIT V: capital budgeting			S
Class Test					
1	10	UNIT I to UNIT V		CT	
Final Evaluation (FE)					
1	5	Entire course			FE

[Handwritten Signature]
Head of the Department

[Handwritten Signature]

Signature of the Staff Member(s)

Co-ordinator
Internal Quality Assurance Cell (IQAC)

Teaching Plan

Name(s) of the Staff: DR.W.JAYASEELI

Programme: M.Com

Academic Year:

2019-2020

Semester: II semester

Course Code: P18COC207

Title: **STRATEGIC MANAGEMENT**

Objectives:

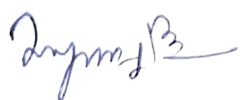
- To enable the Students gain knowledge of using core and functional subject knowledge of strategic decision making

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		13 hrs per unit (for 5 units)	65
ICT Enabled Lectures [I]		----	----
Practical Demonstration[P]		----	----
Tutorial (T)		----	----
Field visit (FV)		----	----
Group discussion		----	----
Evaluation -Class Tests (CT)		1 test per unit	10
Seminar/problem solving/class work(S)		2hour per unit(for 5 units)	10
Creating awareness (CA)		1 hour per unit(for 5 units)	05
Final Evaluation (FE)		----	----
Hrs per week	6	Credit	5
		Total	90

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	CA
UNIT -I						
1	2	Strategy-Meaning-Definition-Features-Tactics-Meaning	L			
2	3	Difference Between Tactics And Strategy Strategic Decision - Strategic decision making-Benefits-Limitations of Strategic management	L			
3	3	Approaches-Participants In Strategic Management	L			
4	3	Strategic management -approaches -	L			
5	2	Elements - Process Of Strategic decision making	L			

UNIT – II					
6	4	Strategic intent –vision –mission –statement mission statement	L		
7	5	SWOT Analysis-Environmental Scanning And Industry Analysis- Forecasting-Internal Scanning. Mission-Features, Vision-Meaning Features	L		
8	4	Stakeholder theory- Industry analysis	L		
UNIT – III					
9	3	Strategy Corporate Strategy- Formulation Business Strategy-	L		
10	3	Types Of Grand Strategy-corporate strategy business	L		
11	3	Portfolio Analysis BCG Growth and share matrix	L		
12	2	Choice of Strategy- blue ocean Strategy	L		
13	2	Action frame for blue ocean strategy BCG Growth /Share Matrix-Strategic Choice –Strategic Alliances	L		
UNIT – IV					
14	2	Strategic Implementation- procedure for Strategic Implementation- structural Implementation	L		
15	3	Strategic Implementation structural Implementation	L		
16	2	-Organization For Action-Staffing –system-leadership	L		
17	3	Behavioral implementation functional implementation	L		
18	3	Leading –MBO-total quality management-functional strategies diversification-acquisition and joint venture	L		
UNIT – V					
19	3	Strategic control-Evaluation- concepts- barriers of Strategic control-	L		
20	3	Participants In Strategic control- Techniques of Strategic control	L		
21	2	Managing change strategies for competing in global world - strategies for MNC companies	L		
22	2	strategies for diversified companies	L		
Seminar					
1	3	Unit-II Stakeholder theory- Industry analysis			S
2	3	Unit III- Portfolio Analysis BCG Growth and share matrix			S
3	4	Unit IV- procedure for Strategic Implementation- structural Implementation			S
Class Test					
1	10	Unit I to V		CT	
Creating Awareness (CA)					
1	05	Entire course			CA



Head of the Department



Signature of the Staff Member(s)

Dr. W. JAYASEELI, M.Com, M.Phil, Ph.D
Associate Professor of Commerce,
Government College for Women (Autonomous),
Kumbakonam - 612 001.

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (W)
Kumbakonam - 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM
POST GRADUATE AND RESEARCH DEPARTMENT OF COMMERCE
Teaching Plan

Name(s) of the Staff: Dr T.TAMILMATHI

Programme: **B.COM**

Academic Year: **2019-2020**

Semester: II semester

Course Code:

18COC2A2

Course Title: **BUSINESS MANAGEMENT**

Objectives:

- To enable the students to get knowledge about the principles, functions and techniques of business management.

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method [L]		10 hour per unit (for 5 units)		50
ICT Enabled Lectures [I]		-----		-----
Practical Demonstration[P]		-----		-----
Tutorial (T)		-----		-----
Field visit (FV)		-----		-----
Group discussion				
Evaluation –Class Tests (CT)		5 test per unit		03
Seminar/Creativity/class work(S)		(for 5 units)		05
Final Evaluation (FE)		3 hrs (Rehearsal)		02
Hrs per week	4	Credit	3	Total
				60

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT –CONTENT	MODE OF TEACHING			
			L	CT	S	FE
UNIT –I: INTRODUCTION TO MANAGEMENT						
1	2	Management-Definition, Nature and Process	L			
2	2	Functions – Management – A Science or an art	L			
3	2	Contribution of Henry Fayol	L			
4	2	F.WTaylor, Peter F Drucker	L			
5	2	Elton Mayo – MBE	L			
UNIT - II: PLANNING						
6	2	Planning - Meaning, Purpose	L			

7	2	Steps - Types of plan	L			
8	2	Advantage and Limitations	L			
9	1	Decision making	L			
10	3	Types – Steps involved in Decision making.	L			
UNIT – III						
ORGANIZATION & DEPARTMENTATION						
11	2	Organization- Importance, Principles, Types of organization	L			
12	2	Line, Staff and Line & Staff Organization	L			
13	2	Departmentation - Basis of Departmentation	L			
14	2	Delegation – Elements – Problems	L			
15	2	Centralization and Decentralization	L			
UNIT – IV						
LEADERSHIP & MOTIVATION						
16	2	Leadership – importance – traits	L			
17	2	theories of leadership	L			
18	2	Motivation – nature – importance	L			
19	2	Theories of motivation – Maslow's Theory	L			
20	2	Herzberg's Theory	L			
UNIT - V:						
CO-ORDINATION & CONTROLLING						
21	2	Co-ordination – Meaning – Definition – Nature	L			
22	2	Types of co-ordination – Techniques - Co-ordination Vs Control	L			
23	3	Controlling - Meaning and Importance, Steps in Controlling	L			
24	3	Characteristics of an ideal control system-Techniques of control	L			
SEMINAR						
1	1	UNIT I: Functions of management			S	
2	1	UNIT II: types of plan			S	
3	1	UNIT III: types of organization			S	
4	1	UNIT IV: theories of motivation			S	
5	1	UNIT V: nature of coordination			S	
Class Test						
1	3	UNIT I to UNIT V			CT	
Final Evaluation (FE)						
1	2	Entire course				FE



Head of the Department

Dr. W. JAYASEELI, M.Com., M.Phil., Ph.D.,
Associate Professor of Commerce,
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Co-ordinator

Internal Quality Assurance Cell (IQAC)
Govt. College for Women (Autonomous),
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Signature of the Staff Member(s)

Teaching Plan

Name(s) of the Staff: M. Maheswari

Programme: Commerce

Academic Year:

2019-2020

Semester: I

Course Code: 18COC102

Course Title: BANKING THEORY LAW AND PRACTICE

Objectives:

- To gain knowledge about banks and its activities.

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction		
Traditional Chalk and Talk Method [L]		12 hrs per unit (for 5 units)	60		
ICT Enabled Lectures [I]		---	----		
Practical Demonstration[P]		-----	----		
Tutorial (T)		-----	----		
Field visit (FV)		-----	----		
Group discussion		-----	----		
Evaluation –Class Tests (CT)		2 test per unit	10		
Seminar/problem solving/class work(S)		1 hours per unit	05		
Creating awareness					
Final Evaluation (FE)		NIL	NIL		
Hrs per week	5	Credit	5	Total	75

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT –CONTENT	MODE OF TEACHING			
			L	CT	S	FE
UNIT I						
1	3	Commercial Banks meaning and Definition and Functions of Commercial Banks	L			
2	3	Classifications of commercial banks and Credit creation	L			
3	3	Central Banking and its Functions RBI and its Functions	L			
4	3	Relationship of Banker and customer, General relationship and special relationship	L			

Unit – 2						
5	3	Types of Bank Accounts. Fixed deposits, Savings deposit accounts, current accounts and recurring deposit account	L			
6	3	New deposit saving schemes. Opening and Closing of accounts	L			
7	3	Types of Customers. Individual Including Minor, Illiterate Person	L			
8	3	Married women, lunatics, Joint stock companies and Trust	L			
Unit – 3						
9	3	Negotiable Instrument Act and Types of Negotiable Instruments and Definition of a cheque .Features of a cheque and types of cheque	L			
10	3	Distinction between Cheque and Bill of Exchange Loss of Cheque in transit	L			
11	3	Crossing and kinds of crossing	L			
12	3	Endorsement, meaning and kinds of Endorsement	L			
Unit – 4						
13	3	E-Banking, Electronic delivery channels, Facets of E-Banking	L			
14	3	Advantages of E-Banking	L			
15	3	Constraints of E-Banking	L			
16	3	Various activities under E-Banking	L			
Unit – 5						
17	3	Recent Trends in Banking Sector	L			
18	3	Mobile Banking, Features and Advantages	L			
19	3	Drawbacks of Mobile Banking, EFT(Electronic Fund Transfer)	L			
20	3	RTGS(Real Time Gross Settlement)System and its Advantages	L			
Seminar						
1	1	UNIT-I Functions of RBI				S
2	1	UNIT-II Opening and closing of accounts				S
3	1	UNIT-III Distinction between Cheque and Bill of Exchange				S
4	1	UNIT-IV Constraints of E-Banking				S
5	1	UNIT-V Features of Mobile Banking				S
Class Test						
	5	UNIT 1-UNIT 5				CT
Final Evaluation (FE)						
						FE



Head of the Department




Signature of the Staff Member(s)

Dr. W. JAYASEELI, M.Com, M.Phil., Ph.D.
Associate Professor of Commerce
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Co-ordinator
Internal Quality Assurance Cell
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Kumbakonam - 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM
POST GRADUATE AND RESEARCH DEPARTMENT OF MATHEMATICS

Teaching Plan

Name(s) of the Staff: Dr.G.Amuda

Programme: 1 M.Sc MATHEMATICS

Academic Year: 2019-2020

Semester: 1 semester

Course Code: P17MC104

Course Title: Graph Theory

Objectives:

1. To introduce the basic concepts of Graph Theory.

2. To give applications of Graph Theory .

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction		
Traditional Chalk and Talk Method [L]		13 hrs per unit (for 5 units)	65		
ICT Enabled Lectures [I]		-----	-----		
Practical Demonstration[P]			-----		
Tutorial (T)		1 hour per unit(for 2 units)	02		
Field visit (FV)		-----	-----		
Group discussion			05		
Evaluation –Class Tests (CT)		5 test per unit	05		
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)	05		
Creating awareness about the latest developments of quantum physics in current research sector (CA)		1 hour per unit(for 5 units)	05		
Final Evaluation (FE)		3 hrs (Rehearsal)	03		
Hrs per week	6	Credit	5	Total	90

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I Graphs, Sub graphs and Trees						
1	2	Introduction and Basic Definition The definition and some examples	L			
2	3	Graphs and simple graphs – Graph Isomorphism	L			
3	3	The Incidence and Adjacency Matrices – Sub graphs	L			
4	3	Vertex Degrees – Paths and Connection – Cycles – Trees	L			
5	2	Cut Edges and Bonds – Cut Vertices	L			
Unit-II Connectivity, Euler Tours and Hamilton Cycle						
6	2	Connectivity, Euler Tours and Hamilton Cycle	L			
7	3	Connectivity – Blocks	L			
8	3	Euler Tours	L			
9	3	Hamilton Cycles	L			
10	2	Hamilton Cycles and theorems	L			
Unit – III Matching, Edge Colorings						
12	2	Matching, Edge Colorings	L			
13	2	Matching – Matching and Coverings in Bipartite Graphs	L			
14	2	Matching – Matching and Coverings in Bipartite Graphs and theorems	L			
15	3	Edge Chromatic Number	L			
16	2	Vizing's Theorem	L			
17	2	Application of Vizing's Theorem	L			
Unit – IV Independent sets and Cliques, Vertex Colorings						

18	2	Independent sets and Cliques, Vertex Colorings	L			
19	3	Independent sets – Ramsey’s Theorem	L			
20	2	Chromatic Number	L			
21	3	Brook’s Theorem	L			
22	3	Chromatic Polynomials	L			
Unit - V Planar graphs						
23	3	Plane and Planar Graphs	L			
24	3	Dual graphs-Euler’s Formula	L			
25	2	The Five – Color theorem and the four	L			
26	2	Color Conjecture	L			
27	3	Color Conjecture and theorems	L			
Seminar						
1	1	UNIT-I Cut Edges and Bonds – Cut Vertices			S	
2	1	UNIT-II Hamilton Cycles and theorems			S	
3	1	UNIT –III Vizing’s Theorem			S	
4	1	UNIT – IV Brook’s Theorem			S	
5	1	UNIT-V The Five – Color theorem and the four			S	
Class Test						
1	5	UNIT I - UNIT V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE

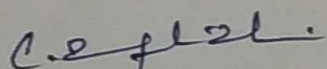
S. Rajkumar
Head of the Department

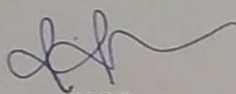
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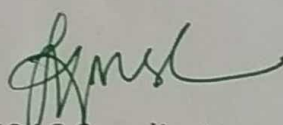
[Signature]
Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam-612 001

4	2	Intoduction to viscosity, Co-efficient of viscosity	L			
5	2	Poiseulle's formula	L			
6	2	Comparison of viscosities ,Burette Method	L			
Unit-II Sound						
7	2	Introduction to SHM, Composition of two SHM along a straight line and and right angles	L			
8	3	Lissajou's figures, Demonstration of Lissajou's figures and uses	L			
9	3	Introduction to Ultrasonic Waves- Production of Ultrasonic waves	L			
10	3	Properties and Application of Ultrasonic waves	L			
11	2	Acoustics- Requisites of good Auditorium	L			
Unit – III Mechanics						
12	2	Introduction to centre of gravity	L			
13	3	Centre of gravity of solid and hollow hemisphere	L			
14	3	Centre of gravity of Solid cone, Intoduction to floatation	L			
15	3	Stability of floating bodies , Intoduction to metacenter	L			
16	2	Determination of metacentric height of a ship	L			
Unit – IV Thermal physics						
17	2	Introduction to newton's law of cooling, verification of specific heat of liquid	L			
18	2	Coefficient of themal conductivity	L			
19	3	Good and bad conductors, Thermal conductivity of bad conductors	L			
20	2	Lee's disc method, Introduction to radiation- black body	L			
21	2	Stefan's law of radiation , solar constant	L			
22	2	Angstormphyroheliometer, Surface temperature of the sun.	L			

Unit – V Optic and spectroscopy						
23	3	Introduction to electromagnetic spectrum, Types of Spectra	L			
24	3	Absorbtion and emission spectra, Spectral response of human eye	L			
25	2	Raman effect-Experimental Techniques, Appications	L			
26	2	Introduction to fiber optic communications	L			
27	3	Numerical aperture	L			
Seminar						
1	1	UNIT-II			S	
2	1	UNIT-III			S	
Class Test						
1	5	UNIT I-UNIT V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE


Signature of the Faculty


HOD


IQAC Coordinator

Dr. R. RADHA,
Associate Professor,
Centre for Nonlinear Science(CeNSc),
PG & Research Department of Physics,
Government College for Women(Autonomous),
Kumbakonam - 612 001

Co-ordinator
Internal Quality Assurance Cell (IQAC)
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Kumbakonam- 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF PHYSICS

Teaching Plan

Name(s) of the Staff: Mrs. T. Rathna

Programme: **B.Sc., Computer science Shift -I** Academic Year: **2019-2020**

Semester: III-semester Course Code: 183AAPH1

Course Title: APPLIED PHYSICS I

Objectives:

- To understand the Mathematical expression for Gauss law and its applications.
- To study the nature of various magnetic materials.

Teaching Methodology			Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method [L]			13 hrs per unit (for 5 units)		65
Evaluation –Class Tests (CT)			1 hour per unit (for 5 units)		05
Seminar/problem solving/class work(S)			1 hour Per unit (for 5 units)		02
Final Evaluation (FE)			3 hrs (Rehearsal)		03
Hrs per week	5 hrs	credits	4	Total	75

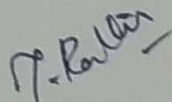
Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.N O	HOU R	UNIT –CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I Electrostatics						
1	1	Introduction to electrostatics	L			
2	3	Gauss's theorem and its applications	L			

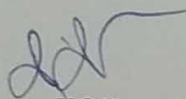
3	3	Principle of capacitor series and parallel	L			
4	3	Energy of a charged capacitor	L			
5	3	Loss of energy due to sharing of charges	L			
Unit-II Magnetostatics						
6	2	Introduction to Magnetostatics – magnetic field , magnetic flux density	L			
7	2	Magnetization – permeability – susceptibility	L			
8	2	Relation between Magnetization, permeability, susceptibility	L			
9	2	Magnetic potential, Properties of diamagnetic materials	L			
10	2	Properties of Para, Ferro magnetic materials	L			
11	3	Hysteresis – B- H curve using Ballistic galvanometer method	L			
Unit – III Current Electricity						
12	3	Laplace’s law – magnetic field intensity due to a straight conductor carrying current	L			
13	3	Magnetic field intensity due to circular coil and solenoid - force between parallel conductors	L			
14	3	Ohm’s law – Kirchoff’s first and second law-	L			
15	2	Wheatstone’s bridge, Carey foster’s bridge	L			
16	2	Potentiometer - measurement of current	L			
Unit – IV Electromagnetic induction						
17	3	Introduction – laws of electromagnetic induction	L			
18	2	Eddy current and its uses	L			
19	3	Determination of self induction – Anderson’s method	L			

20	3	Determination of mutual inductance- coefficient of coupling	L			
21	2	Transformer theory	L			
Unit – V alternating current						
22	2	Introduction to Ac current and its importance	L			
23	3	AC circuit with double components - Measurement of current and voltage	L			
24	3	Power in an AC circuit – Power factor derivation	L			
25	3	Wattless current – Choke – series and parallel resonance circuit	L			
26	2	Oscillatory discharge of a condenser	L			
Class Test						
1	1	Energy of a charged capacitor		CT		
2	1	Properties of Para, Ferro magnetic materials		CT		
3	1	magnetic field intensity due to a straight conductor carrying current		CT		
4	1	Determination of mutual inductance- coefficient of coupling		CT		
5	1	Power factor derivation		CT		
Class Work						
1	1	Ohm's law – Kirchoff's first and second law-			S	
2	1	Wheatstone's bridge, Carey foster's bridge			S	
Final Evaluation (FE)						

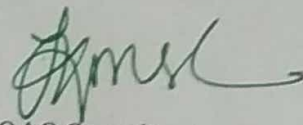
1	3	Entire course				FE
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Signature of the Faculty



HOD



IQAC Coordinator

Dr. R. RADHA,
Associate Professor,
Centre for Nonlinear Science (CeNSc),
PG & Research Department of Physics,
Government College for Women (Autonomous),
Kumbakonam - 612 001

Co-ordinator
Internal Quality Assurance Cell (IQAC)
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Kumbakonam - 612 001

GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) KUMBAKONAM
POST GRADUATE AND RESEARCH DEPARTMENT OF PHYSICS

Teaching Plan

Name of the Staff's : Dr..S.Akilandeswari

Programme: **M.Sc., Physics**

Academic Year: **2019-2020**

Semester: I semester

Course Code : P18PHC102

Course Title: CC- II MATHEMATICAL PHYSICS

Objectives:

- To provide extensive mathematical formulation for understanding and interpreting various physical problems.

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		16 hrs per unit (for 5 units)	80
Evaluation –Class Tests (CT)		1 hr per unit (for 5 units)	05
Ice Breaking and Creating awareness		Ice Breaking	01
		Creating awareness	01
Final Evaluation (FE)		3 hrs (Rehearsal)	03
Hrs per week	6 hrs	5 credits	Total 90

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

<u>SL.N</u> <u>Q</u>	<u>HOUR</u>	<u>UNIT -CONTENT</u>	<u>MODE OF TEACHING</u>			
			<u>L</u>	<u>CT</u>	<u>S</u>	<u>FE</u>
UNIT-I VECTOR FIELDS AND VECTOR SPACE						
1.	3	Gauss theorem, Green's theorem and its applications	L			
2.	3	Stoke's theorem and its applications ,Orthogonal curvilinear coordinates	L			
3	3	Expressions for gradient ,divergence, curl and Laplacian in cylindrical and spherical	L			
4	2	Rectangular co ordinates, definitions of linear dependence vector	L			
5	3	Definitions of linear independence vector, Schmidt's orthogonalisation process	L			
6	2	Electrostatic boundary conditions	L			
UNIT-II TENSORS AND MATRIX THEORY						
7	3	Transformation of coordinates, Summation convention, Covariant ,contravariant and mixed tensors	L			
8	2	Rank of tensors, Symmetric and antisymmetric tensors	L			
9	2	contraction of tensors ,Characteristic equation of tensors	L			
10	4	Eigen values and Eigen vectors	L			
11	3	Cayley Hamilton theorem, Jacobi method	L			
12	2	Sylvester's theorem.	L			
UNIT- III COMPLEX ANALYSIS						
13	2	Functions of complex variables, Differentiability	L			
14	3	Cauchy-Riemann condition, Complex integration	L			
15	3	Cauchy's integral theorem and Cauchy's integral formula	L			
16	3	Taylor's and Laurent's series	L			
17	2	Residues and singularities	L			

18	3	Cauchy's residue theorem and evaluation of definite integrals.	L			
UNIT – IV SPECIAL FUNCTIONS						
19	2	Gamma and Beta functions	L			
20	3	Legendre differential equation, Rodriguez formula	L			
21	3	Orthogonality relations and Recurrence relations for Legendre equation	L			
22	4	Bessel differential equation, Rodriguez formula, Orthogonality relations and Recurrence relations	L			
23	4	Hermite differential equation, Rodriguez formula, Orthogonality relations and Recurrence relations	L			
UNIT - V GROUP THEORY						
24	2	Basic definition of group theory, Multiplication table	L			
25	3	Sub groups, Cosets and Classes, Direct product of groups, space groups and point groups	L			
26	3	Representation theory , Homomorphism and Isomorphism	L			
27	3	Reducible and irreducible representations, Schur's lemma	L			
28	3	Orthogonality theorem, Character table	L			
29	2	Character table of C _{3v} and D _{3h} and Rotation groups	L			
Ice Breaking and Creating Awareness						
1	1	Ice Breaking	IC			
2	1	Creating awareness about higher studies/Current trends in Science & Technology	CA			

Class Test						
1	5	UNIT -I to UNIT -V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE

S. Anil Kumar
Signature of the Faculty

Dr. R. Radha
HOD

Dr. R. RADHA,
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Dr. M. S. Srinivasan
IQAC Coordinator

Co-ordinator
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Kumbakonam - 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM
POST GRADUATE AND RESEARCH DEPARTMENT OF PHYSICS

Teaching Plan

Name of the Staff: Mrs. R. Selvi

Programme: B.Sc., Comp. Science shift -II Academic Year: 2019-2020

Semester: IV semester Course Code: 184AAPH3

Course Title: APPLIED PHYSICS III

Objectives:

- * To expose the students towards different number system and their conversion.
- *To identify the connection between electricity and magnetism
- *To make the student understand the characteristics and applications of FET and transistor
- *to acquire the knowledge of operational amplifiers and its applications

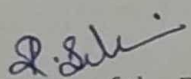
Teaching Methodology			Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method [L]			10hrs per unit (for 5 units)		50
Evaluation –Class Tests (CT)			5 test per unit		05
Seminar/problem solving/class work(S)			1 hour per unit(for 5 units)		02
Final Evaluation (FE)			3 hrs (Rehearsal)		03
Hrs per week	4hrs	credits	4	Total	60

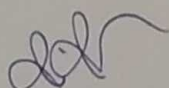
Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

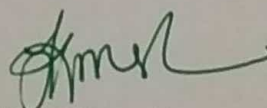
SL.N O	HOU R	UNIT –CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I Number systems, codes						
1.	3	Number systems, Conversions	L			

2	2	Binary addition, subtraction multiplication, division	L			
3	2	8421 code –BCD code – Excess 3 code	L			
4	2	Gray code , Binary to Gray code and Gray to Binary conversion	L			
5	1	ASCII code	L			
Unit –II Transistors						
6	2	PNP and NPN Transistors-DC Characteristics of CE Combination	L			
7	2	DC Characteristics of CB Combination, Hybrid parameters equation	L			
8	2	Functions of transistors as an amplifier and oscillator	L			
9	2	FET -Construction and working – Characteristics	L			
10	2	FET Amplifier	L			
Unit –III Operational Amplifiers						
11	2	Basics of OP-Amp-Inverting and Non inverting Op –Amp	L			
12	2	Differential Op-Amp- CMRR	L			
13	2	Basic uses of OP-Amp as sign and scale changer, phase shifter	L			
14	2	Op-amp Integrator and differentiator, Adder	L			
15	2	A/D conversion -counter methods- Op-amp as a comparator	L			
Unit - IV Digital Logic circuits						
16	3	Logic gates(AND, OR,NOT,XOR ONLY)- Boolean algebra	L			
17	2	Demorgan's theorem -Karnaugh map-simplification - two variable SOP	L			
18	2	Encoder , Decoder	L			
19	2	Half Adder and Subtractor	L			

20	1	RS flip flop	L			
Unit V Digital components						
21	2	Introduction to Integrated circuits	L			
22	2	Fabrication of diodes and transistors,	L			
23	2	Basic 2 into 1 decoder	L			
24	2	Multiplexers (1 into 4)	L			
25	2	Shift registers (right and left)	L			
Class Test						
1	5	UNIT I-UNIT V		CT		
Class Work						
1	2	UNIT I – UNIT V			S	
Final Evaluation (FE)						
1	3	Entire course				FE


Signature of the Faculty


HOD


IQAC Coordinator

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GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM
POST GRADUATE AND RESEARCH DEPARTMENT OF PHYSICS

Teaching Plan

Name(s) of the Staff: Mrs. B. Jeeva

Programme: **B.Sc., Chemistry**

Academic Year:

2019-2020

Semester: IV semester

Course Code : 184APH3

Course Title: ALLIED PHYSICS III

Objectives:

- To understand the concepts of conductors and capacitors
- To study the basic of semiconductor devices.

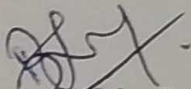
Teaching Methodology			Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method [L]			10hrs per unit (for 5 units)		50
Evaluation –Class Tests (CT)			5 test per unit		05
Seminar/problem solving/class work(S)			1 hour per unit(for 5 units)		02
Final Evaluation (FE)			3 hrs (Rehearsal)		03
Hrs per week	4 hrs	credits	4	Total	60

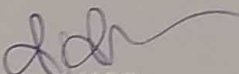
Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.N O	HOU R	UNIT –CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I Electricity and magnetism						
1.	1	Introduction to capacitors-principle	L			
2	2	Spherical , Cylindrical capacitors	L			

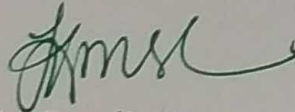
3	3	Energy of charged capacitor-loss of energy.	L			
4	2	Magnetic field due to a current carrying conductor	L			
5	2	Biot savart's Law	L			
Unit-II Atomic Physics						
6	2	Introduction to Atom model	L			
7	3	Vector atom model	L			
8	3	Stern and Gerlach experiment	L			
9	2	Bragg's law and miller indices	L			
Unit - III Nuclear physics						
10	2	Introduction to Nuclear model	L			
11	3	Radioactivity	L			
12	3	Fission and Fusion	L			
13	2	Source of solar energy	L			
Unit - IV Basic Electronics						
14	2	Introduction to semiconductors	L			
15	2	Characteristics of Zener diode	L			
16	2	Working of transistors	L			
17	2	Transistor biasing -voltage divider method	L			
18	2	Amplifier	L			
Unit - V Digital Electronics						
19	3	Introduction to number system	L			
20	3	Logic gates	L			
21	2	NAND NOR as universal gates	L			

22	2	Boolean algebra	L			
23	3	Demorgan's theorem	L			
Seminar						
1	1	UNIT-III			S	
2	1	UNIT - IV			S	
Class Test						
1	5	UNIT I- UNIT V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE


Signature of the Faculty


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Kumbakonam - 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF PHYSICS

Teaching Plan

Name(s) of the Staff: Dr.U.Gnanasheela

Programme: M.Sc Physics

Academic Year:

2019-2020

Semester: II semester

Course Code:P18PHC206

Course Title: CC-IX QUANTUM MECHANICS

Objectives:

- To understand the concepts of Schrodinger equation and operator formalisms.
- To study the dynamics of the quantum particle and the wave equation in the relativistic situation

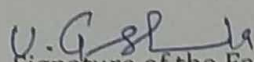
Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		16 hrs per unit (for 5 units)	80
Evaluation –Class Tests (CT)		5 test per unit	05
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)	01
Ice breaking/Creating awareness about the latest developments of quantum physics in current research sector (CA)		1 hour per unit(for 5 units)	01
Final Evaluation (FE)		3 hrs (Rehearsal)	03
Hrs per week	6	Credit	5
		Total	90

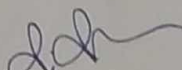
Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

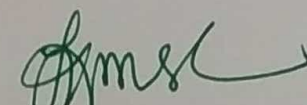
SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I SCHRODINGER EQUATION AND GENERAL FORMULATION						
1	3	Schrodinger Equation – Physical meaning and conditions on the wave function	L			

2	3	Expectation values and Ehrenfest's theorem	L			
3	4	Hermitian operators and their properties – Commutator relations	L			
4	3	Uncertainty principle – Bra and Ket vectors – Hilbert space	L			
5	3	Schrodinger, Heisenberg and interaction pictures	L			
Unit-II EXACTLY SOLVABLE SYSTEMS						
6	2	Linear harmonic oscillator	L			
7	3	Solving the one dimensional Schrodinger equation – Zero point energy.	L			
8	3	Particle in a box – Square well potential	L			
9	4	Rectangular barrier potential – Rigid rotator	L			
10	4	Hydrogen atom	L			
Unit – III APPROXIMATION METHODS						
12	3	Time independent Perturbation theory - Non-degenerate Perturbation theory, (first order)	L			
13	3	Time independent Perturbation theory - degenerate Perturbation theories, (first order)	L			
14	3	Stark Effect – WKB approximation – Application to tunneling problem.	L			
15	2	Time dependent Perturbation theory	L			
16	3	Harmonic perturbation - transition probability	L			
17	2	Fermi golden rule	L			
Unit - IV SCATTERING THEORY AND ANGULAR MOMENTUM						
18	3	Scattering theory: Scattering cross section – Green's function approach	L			

19	4	Born Oppenheimer approximation – Particle wave analysis.	L			
20	3	Angular momentum: Angular momentum of system of particles – Commutation rules	L			
21	3	Matrix representations of J_x and J_z - Spin angular momentum – Pauli's spin matrices – Eigen values of J_x and J_z	L			
22	3	Addition of angular momenta -Clebsch-Gordan coefficients	L			
Unit - V RELATIVISTIC QUANTUM MECHANICS						
23	4	Introduction-Klein-Gordan equation for a free particle and in an electromagnetic field	L			
24	4	Partial wave solutions – Dirac equation for a free particle	L			
25	2	Probability and current densities	L			
26	3	Dirac matrices – Plane wave solutions – Negative energy states	L			
27	3	Spin angular momentum – Spin – Orbit coupling	L			
Seminar						
1	1	UNIT-II			S	
Class Test						
1	5	UNIT I-UNIT V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE


Signature of the Faculty


HOD


IQAC Coordinator

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Kumbakonam- 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM
POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

Teaching Plan

Name of the Staff: Mrs. J.Kannagi

Programme: II B.Sc Chemistry

Academic Year:

2019-2020

Semester: III semester

Course Code:18CHC304

Course Title: General chemistry-III

Objectives:

- Students will be able to highlight the trends in physical properties of melting point, density, strength and hardness in group I metals.
- Students will be able to describe each of the four quantum numbers and its notations.

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction		
Traditional Chalk and Talk Method [L]		11 hrs per unit (for 5 units)	55		
Evaluation -Class Tests (CT)		1 hrs (for 5 units)	05		
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)	05		
Creating awareness about the latest developments of chemical methods in current research sector (CA)		1 hour per unit(for 5 units)	07		
Final Evaluation (FE)		3 hrs (Rehearsal)	03		
Hrs per week	6	Credit	5	Total	75

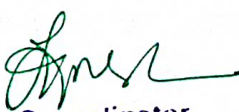
Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I						
1	2	Nitrogen family -comparative study of nitrogen family elements and their compounds	L			
2	3	Chemistry of hydrazine, hydrazoic acid, hydroxyl amine and sodium bismuthate.	L			
3	3	Zero group elements -Position in the periodic table- isolation of noble gases from the atmosphere and uses-Compounds of xenon-XeF ₂ ,XeO ₃ and XeOF ₄ - Preparation,Properties,Structure and uses.	L			
4	2	Alkaline and Alkaline Earth Metals :Comparative study of alkaline metal alkaline earth metal compounds	L			
5	3	Diagonal relationship between lithium and magnesium,Preparation,Properties and uses of lithium aluminium hydride and sodium borohydride	L			
Unit-II						
6	2	Conformational analysis -Definition strain,dihedral angle,illustrations for each.	L			
7	3	Conformational analysis of ethane and n-butane	L			
8	2	IUPAC Nomenclature of simple and substituted alicyclic bicyclic compounds.	L			
9	3	Aromatic hydrocarbons and aromaticity -structure and stability of benzene ring -resonance in benzene - delocalized pi-electron cloud in benzene.	L			
10	3	Aromaticity - Huckel's Rule(4n+2) and examples	L			
Unit – III						
11	2	Electrophilic substitution reactions in aromatic compounds.- General mechanism of electrophilic substitution reactions	L			
12	3	Effect of substitutions -activating and deactivating groups orientation	L			
13	2	Nitration,Sulphonation,halogenation	L			

14	3	Polynuclearhydrocarbons: Naphthalene ,Isolation,Properties, Structure an uses.	L			
15	2	Anthracene -Isolation,Properties, Structure and uses.	L			
Unit - IV						
16	3	Quantum theory and atomic spectra.- Bohr's model of atoms. Bohr 's theory of hydrogen atom and spectral lines. Limitations of Bohr model.sommerfield's extension.	L			
17	2	Photoelectric effect and crompton effect. De Broglie's equation and verification	L			
18	3	Quantum numbers :Principle,Azimuthal,Magnetic and spin quantum numbers and their significance.	L			
19	2	Principles governing the occupy of electrons in various quantum levels	L			
20	2	Stability of half-filled and fully filled orbitals - inert pair effect.	L			
Unit - V						
21	3	Electric properties of matter Electric properties of molecules-polarization,polarizability and dipolemoment.Atomic,induced and orientation polarization-Mosotti-Clausius equation-measurement of molar polarization.	L			
22	3	Dipole moment -determi ation by Temperature, Refractivity and Dilute solution methods.Dipole moment of diatomic and polyatomic molecules - Bond moments.	L			
23	2	Magnetic properties. Of matter -Magnetic flux - magnetic permeability -magnetic susceptibility. Diamagnetism,paramagnetism, ferro and anti-ferro magnetism-curie temperature	L			
24	2	Determination of magnetic susceptibility -guoy's method-Number of unpaired electrons -spin only magnetic moment value.	L			

25	2	Application of structure of the following compounds $[K_4Fe(CN)_6]$, $[K_3Fe(CN)_6]$, $[Ni(CO)_4]$	L				
Seminar							
1	1	UNIT-I Compounds of xenon- XeF_2 , XeO_3 and $XeOF_4$ - Preparation, Properties, Structure and uses.			5		
2	1	UNIT-II Aromaticity examples-Cyclopropenylcation - Benzene, Naphthalene, Anthracene, furan, pyrrole, thiophene, pyridine and ferrocene.			5		
3	1	UNIT-III Friedel-Craft's alkylation and acylation reactions- Nuclear and side chain halogenation.			5		
4	1	UNIT - IV Pauli's exclusion principle, Hund's rule, Aufbau's principle, (n+1) rule			5		
5	1	UNIT-V Applications of dipole moment. Measurements: 1. In determining the percent ionic character of bonds. 2. Shapes of simple inorganic and organic molecules (BCl_3 , H_2O , CO_2 , NH_3 , CCl_4)			5		
Class Test							
1	5	UNIT I-UNIT V		CT			
Final Evaluation (FE)							
1	3	Entire course					FE


Head of the Department

 Signature of the Staff Member
Co-ordinator
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Govt. College for Women (A)
Kumbakonam - 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM
POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

Teaching Plan

Name of the Staff: K. PUNITHA VALLI

Programme: II M.Sc Chemistry

Academic Year:

2019-2020

Semester: III semester

Course Code:

P18CHC311

Course Title: Physical chemistry - II

Objectives:

*To understand the surface chemistry by experimental methods.

*To solve quantum chemistry problems

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		14 hrs per unit (for 5 units)	70
Evaluation –Class Tests (CT)		7 test for 5 units)	07
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)	05
Creating awareness about the latest developments of chemical methods in current research sector (CA)		1 hour per unit(for 5 units)	05
Final Evaluation (FE)		3 hrs (Rehearsal)	03
Hrs per week	6	Credit	5
		Total	90

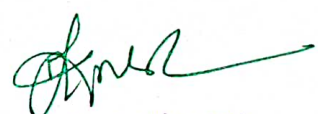
Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

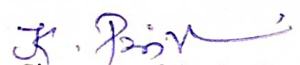
SL.N O	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
UNIT-I QUANTUM CHEMISTRY-II						
1	3	Applications of wave mechanics – the harmonic oscillator,rigid rotator- hydrogen and hydrogen like atoms -shapes and nodal properties of orbitals	L			
2	3	Space quantization -approximation methods-methods of variation, application to hydrogen and helium atoms.	L			
3	3	Perturbation method -nondegenerate systems -helium atom-effective nuclear charge	L			
4	2	Electron spin -many electron atoms -Pauli's principle-slater determinates -atomic structure calculation	L			
5	3	Self-consistent field method -Hartree -fockmethod for atoms -angular momentum in many electron systems	L			
Unit-II ELECTROCHEMISTRY-I						
6	3	Ion transport in solution -migration, convectionand. Diffusion -Fick's laws of diffusion conduction-Debye-Huckel theory -ionic atmosphere	L			
7	3	Debye -Huckel -onsager equation -verification and extension -Debye -Falkhagen effect and wien effect - Debye -Huckel limiting law -Activity coefficients and ionicstrength	L			
8	2	The electrode -electrolyte interface -electrical double layer and multi layers-theories -electrocapillary curves	L			
9	3	Lipmann equation and Lipmann potential	L			
10	3	Electrokinetic phenomena -classification -Tiselius method of separation of proteins – membrane potential-electrocatalysis	L			
Unit – III ELECTROCHEMISTRY -III						
11	2	Dynamics of electron transfer – marcus theory- the rate of charge transfer -current density	L			
12	2	Butler-Volmer equation-Taft equation	L			

13	3	polarization and overvoltage - mechanism of hydrogen evolution and oxygenevolution reactions.	L			
14	3	Principles of electrodeposition of metals - corrosion and passivity - Pourbaixand Evansdiagrams - methods of protection of metals from corrosion	L			
15	2	Power storage systems-fuel cells-construction and functioning-applications.	L			
16	2	photovoltaic cells.	L			
Unit – IV CLASSICAL THERMODYNAMICS						
17	3	Thermodynamics of systems of variable composition- partial molar quantities and additivity rules	L			
18	3	chemical potential relationship between partial molar quantities Gibbs Duhem equation calculation of partial molar quantities from experimental data	L			
19	3	Thermodynamics properties of real gases - fugacity definition, calculation (real) and variation of fugacity temperature, pressure and composition (Duhem Margules equation)	L			
20	3	activity and activity co-efficient, definition standard states colligative properties and the activity of the solute	L			
21	2	experimental determination of activity and activity coefficients of non electrolytes- activity in electrolytic solutions	L			
Unit – V SURFACE PHENOMENA						
22	3	Adsorption and free energy reaction relation at inter-phase - physisorption and chemisorption	L			
23	3	potential energy diagram - Lennard- Jones plot - Langmuir, BET isotherm	L			
24	3	surface area determination - heats of adsorption, determination - adsorption from solution - Gibbs adsorption isotherm	L			

25	2	Role of surfaces in catalysis: Semiconductor catalysis-n and p type surfaces - kinetics of surface reactions involving adsorbed species	L			
26	3	Langmuir - Hinshelwood, mechanism of bimolecular reaction Langmuir - Rideal mechanism of bimolecular reaction	L			
Seminar						
1	1	UNIT-I Spin orbit interaction, L-S and j-j coupling schemes.			S	
2	1	UNIT-II Bjerrum model			S	
3	1	UNIT-III tunneling			S	
4	1	UNIT - IV determination of activity coefficient of electrolytes by freezing points.			S	
5	1	UNIT-V Rideal-Eler mechanism			S	
Class Test						
1	7	UNIT I-UNIT V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE


Head of the Department


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Kumbakonam-612 001


Signature of the Staff Member

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM
POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

Teaching Plan

Name of the Staff: Mrs.U.Nithya

Programme: II MSc., Chemistry

Semester: III semester

Academic Year:

2019-2020

Course Code: P18CHC310

Course Title: Organic Spectroscopy

Objectives:

*students should gain experience in interpreting NMR data in order to establish structure for unknown organic molecules.


*students able to understand detection and identification of free radicals in solid, liquid or gaseous state in esr spectroscopy.

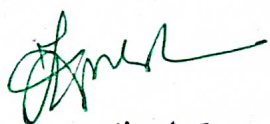
Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		11 hrs per unit (for 5 units)	55
Evaluation –Class Tests (CT)		1hrs(for 5 units)	05
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)	05
Creating awareness about the latest developments of chemical methods in current research sector (CA)		1 hour per unit(for 5 units)	05
Final Evaluation (FE)		5hrs (Rehearsal)	05
Hrs per week	6	Credit	5
		Total	75

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT –CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I UV AND IR SPECTROSCOPY						
1	2	UV and visible spectroscopy, Types of electronic transitions	L			
2	2	Chromophores and auxochromes, factors influencing position and intensity of absorption	L			
3	2	Absorption spectra of alpha and beta unsaturated carbonyl compounds	L			
4	2	Woodward-Fieser rules, IR vibrational frequencies and factors affecting them	L			
5	3	Identification of functional groups, intra and inter molecular hydrogen bonding ,finger print region, ligand stretching vibrations	L			
Unit-II Molecular and Raman Spectra						
6	2	Origin of molecular spectra,rotational spectra rigid and non rigid rotors	L			
7	2	Effect of isotopic substitutions, harmonic and non harmonic oscillators	L			
8	2	Hot bands, vibrational – rotational spectra P,Q,R branches, electronic spectra of di atomic molecule	L			
9	2	Potential energy curves, Frank condon principle. Raman spectra Selection rules	L			
10	3	Rotational raman spectra and vibrational raman spectra, mutual exclusion principle	L			
Unit – III NMR- Spectroscopy						
11	2	Nuclear spin, magnetic moment of a nucleus, nuclear energy levels in the presence of magnetic field	L			
12	2	Macroscopic magnetization, basic principles of NMR experiments CW and FT NMR	L			
13	2	H ¹ NMR .chemical shift and coupling constant	L			
14	1	H ¹ NMR spectra of simple molecules	L			
15	2	AX and AB Spin system	L			
16	2	Spin decoupling Nuclear overhauser effect , Chemical exchange	L			
Unit – IV ¹³C NMR and 2D NMR Spectroscopy						
17	2	¹³ C NMR proton decoupled and off resonance spectra	L			
18	2	Factors influencing ¹³ C NMR Chemical shift	L			
19	2	¹³ C NMR spectra of simple organic molecules,	L			

20	3	basic principles of 2- dimensional NMR spectroscopy	L				
21	2	HOMOCOSY, NOESY their applications	L				
Unit - V Mass Spectroscopy							
22	2	Principle, measurement techniques EI, CI, FD, FAB, SIMS	L				
23	2	Presentation of spectral data, molecular ions, isotopic ions, fragment ions	L				
24	2	Odd and even electron types, rearrangement ions, factors affecting cleavage patterns	L				
25	2	Mass spectra of hydrocarbons, alcohols, phenols	L				
26	3	Mass spectra of aldehydes, ketones, acids, amines and their derivatives	L				
Seminar							
1	1	UNIT-I Absorption spectra of dienes, polyenes				S	
2	1	UNIT-II fundamental vibrations and overtones				S	
3	1	UNIT-III factors influencing chemical shift and vicinal proton				S	
4	1	UNIT - IV HOMOCOSY, NOESY Spectra				S	
5	1	UNIT-V McLafferty rearrangement and Retro Diels Alder fragmentation				S	
Class Test							
1	5	UNIT I-UNIT V				CT	
Final Evaluation (FE)							
1	5	Entire course					FE


Head of the Department


Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001


Signature of the Staff Member

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

Teaching Plan

Name of the Staff: Mrs.A.ANITHA

Programme: B.Sc Chemistry

Academic Year:

2019-2020

Semester: VI semester

Course Code:18CH6EC5

Course Title: Pharmaceutical Chemistry

Objectives: To effectively impart knowledge about various Diseases and their treatment, important, medicinal plants and different types of drugs, preparations, synthesis, and structural determination are not required for the compounds mentioned.

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction		
Traditional Chalk and Talk Method [L]		14 hrs per unit (for 5 units)	70		
Evaluation -Class Tests (CT)		7Class test (for 5 units)	07		
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)	05		
Creating awareness about the latest developments of Chemical methods in current research sector (CA)		1 hour per unit(for 5 units)	05		
Final Evaluation (FE)		3 hrs (Rehearsal)	03		
Hrs per week	6	Credit	5	Total	90

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHINGu			
			L	CT	S	FE
Unit-I Methods of Curve Fitting						
1	2	Introduction-important terminologies used and their meaning -anti metabolites,Virus,bacteria Mutation,and Chemotherapy	L			
2	3	An elementary treatment of the mechanism of action of drugs and meta or biotransformation of drugs.	L			
3	3	Absorption of Drugs:routes of administration causes of some common diseases and their prevention and treatment by drugs.	L			
4	3	Malaria,Filariasis,diphtheria,Whooping Cough,influence of measles,mumps,Common Cold,tuberculosis,Cholera, typhoid,dysentery, Jaundice, epilepsy and leprosy.	L			
5	3	Minerals biological role of salt of Na,K and Ca, traces elements Cu,Zn and I deficiency and sources.	L			
Unit-II						
6	3	Antibiotics :Definition -Structure, Properties, SAR and therapeutic uses Chloramphenicol,Penicillin,streptomycin and erythromycin,semi Synthetic production of penicillin, -assay of Chloramphenicol and penicillin.	L			
7	3	Sulphonamides:Mechanism of action of Sulpa drugs- Preparation and uses of Sulphanilamide,Sulphadiazine,Sulphapridine and prontosil.	L			
8	2	Anti-Cancer and anti neoplastic drugs:tumor types Causes of cancer -Spread of cancer -treatment Structure and uses of anti neoplastic drugs- Chloramphenicol, methotrexate and vinca alkaloids.	L			
9	3	Hypoglycemic drugs:Diabetes -types -Control of diabetes hypo glyceemic drugs-insulin and Sulphonyl urea.	L			

10	3	Epilepsy:Types-structure,uses and adverse effects of drugs-phenobarbitone,hydantoin and diazepam.	L				
Unit – III							
12	2	Analgesics,antipyreticd,and anti-inflammatory agents:Analgesics-definition morphine and its analgesic action SAR	L				
13	3	Preparation structure and uses of pethidine and methadone -aspirin -methyl salicylate,paracetamol,phenacetin.	L				
14	3	Antiseptics and disinfectants:Definition-standardization of disinfectants,uses of phenols, chlorinated phenols,Halogen Compounds Dyes-Organic mercurials-nitromersol,thiomersol-formaldehyde nitrofurason	L				
15	3	Cationic surface active agent. De qualinum Chloride.distinction between antiseptics and disinfectants.Anaesthetics:Definition-classification. Preparation, structure and uses of volatile anaesthetics	L				
16	2	Nitrous oxide,ethers,cyclopropane,chloroform,halothan e,ethyl chloride -storage, advantages and disadvantage -intravenous anaesthetics preparation,and local anaesthetics:requisites - structure and uses of cocaine benzocaine and procaine.	L				
17							
Unit – IV							
18	3	Indian medicinal plants -medicinal value of Adadodai,Tulsi,sembarithi,Sindal,Neem,tuduval ai,Kizhanelli,Arugampillu,vasalakkirai,pulikkirai,p asalakkirai and spinach.	L				
19	3	Alkaloids:Sources,isolation and purification,Colour reaction and detection-quinoline and morpine-sources,extraction,structure uses and SARM	L				
20	2	Anti-psychotic drugs-Chloromarine and anxiety drugs-lprazolam,diazepumatenolol	L				

21	3	Psychedelics drugs-LSD,hashish-structure therapeutic uses and adverse effects	L			
22	3	Organic pharmaceutical aids-role as preservatives,antioxidants colouring,flavouring,sweetening and emulsifying agents-ointment bases.	L			
Unit - V						
23	3	Blood:Composition-Compatability of blood groups Rh factor-physiological function of plasma protein.	L			
24	3	Role of blood as oxygen carrier -blood pressure - hypertension,hypotension,coagulation-mechanism -role of vitamin	L			
25	3	Anaemia-causesand control siron containing drugs,vitamin B12.	L			
26	2	AIDS:sources of infection-HIV virus -General symptoms. Prevention and treatment	L			
27	3	Important inorganic compounds of Al,P,As,and Hg their therapeutic uses.organic diagonostic agents Barium sulphate,iodine,sulphomorphthalein,sodium, mannitoland Evan's blue.	L			
Seminar						
1	2	UNIT-I minerals biological role of salt of Na,K and Ca, traces elements Cu,Zn and I deficiency and sources.			S	
2	2	UNIT-II Chloramphenical,Penicillin,streptomycin and erthromycin,semi Synthetic production of penicillin, -assay of Chloramphenical and penicillin.			S	
3	1	UNIT-III Preparation structure and uses of pethidine and methadone -aspirin -methyl salicylate,paracetamol,phenacetin.			S	

4	1	UNIT - IV Anti psychotic drugs Chlorpromazine and anxiety drugs lorazepam, diazepam, meprobamate			5	
5	1	UNIT V Anaemia causes and control iron containing drugs, vitamin B12.			5	
Class Test						
1	2	UNIT I UNIT V		CI		
Final Evaluation (10%)						
1	3	Entire course				15


Head of the Department

 
Signature of the Staff Member

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam - 612 081

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM
 POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

Teaching Plan

Name of the Staff: Mrs.P.Srimathi

Programme: B.Sc CHEMISTRY

Academic Year: 2019-2020

Semester: V semester

Course Code:18CHC508

Course Title: ORGANIC CHEMISTRY -I

Objectives:


Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		13 hrs per unit (for 5 units)	65
Evaluation –Class Tests (CT)		1 hrs (for 5 units)	05
Seminar/problem solving/class work(S)		1 hour per unit (for 5 units)	05
Creating awareness about the latest developments of Numerical methods in current research sector (CA)		1 hour per unit (for 5 units)	05
Final Evaluation (FE)		3 hrs (Rehearsal)	03
Hrs per week	6	Credit	5
		Total	75

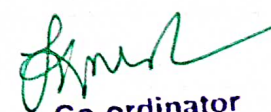
Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

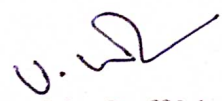
SL NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I Acids and Acid Derivatives						
1	2	Ionization of carboxylic acids – Acidity constants – comparison of acid strengths of substituted acids – Acid strength of substituted Benzoic acids – Hammett equation, Hell – vollhard – Zelinski reaction.	L			
2	3	Dicarboxylic acids, preparation and properties of oxalic, malonic, succinic, glutaric and adipic acids, unsaturated acids and Hydroxyl acids.	L			
3	3	Malonic and Acetoacetic esters ., Characteristics of reactive methylene group, synthetic uses of Malonic and Acetoacetic esters	L			
4	2	Tautomerism – Definition – Keto Enol Tautomerism (identification, Acid and base catalysed.	L			
5	3	Interconversion mechanism, Amido – Imido and Nitro Acinitro Tautomerism. Nucleophilic acyl substitutions	L			
Unit-II -Reactions of Carbonyl compounds						
6	2	Carbonyl Polarisation, Reactivity of Carbonyl group, Acidity of alpha hydrogen.	L			
7	3	Mechanism of Aldol, Mechanism of perkin , Mechanism of Knoevenagal reaction	L			
8	2	Mechanism of Benzoin condensation, mechanism of Claisen, mechanism of Reformatsky	L			
9	3	Mechanism of wittig reaction, Mechanism of Cannizaro reactions	L			
10	3	Mechanism of Reduction with Sodium borohydride, LiAlH ₄ , Wolff-kishner and MPV reductions	L			
Unit – III MOLECULAR REARRANGEMENT						
12	2	Classification(anionotropic, cationotropic)Intermolecular and intra molecular rearrangement	L			

13	3	Pinacol – pinacolone rearrangement, Mechanism of Pinacol – pinacolone rearrangement, Evidence for carbonium ion intermediate formation – Migratory aptitude and applications	L			
14	2	Beckmann Rearrangement and its mechanism, Benzidine Rearrangement and its mechanism	L			
15	3	Hoffmann Rearrangement and its mechanism, Curtius Rearrangement and its mechanism	L			
16	2	Benzilicacid Rearrangement and its mechanism	L			
17	2	Fries Rearrangement	L			
Unit – IV						
18	3	Stereoisomerism – Definition – Classification – Optical and Geometrical isomerisms. Optical isomerism – Optical activity – Optical and specific rotation – elements of symmetry. Criteria for optical activity.	L			
19	3	Asymmetric centre Chirality – Achiral molecule – Meaning of D and L forms	L			
20	2	Asymmetric synthesis, partial Asymmetric synthesis	L			
21	3	Absolute Asymmetric synthesis, Walden inversion, Vant Hoff rule of superposition – Freudenberg's rule of shift.	L			
22	2	Notations for optical isomers, relative and absolute configuration – D, L Notations – Cahn – Ingold – Prelog rules	L			
Unit – V						
23	3	R.S. notations of optical isomer with one asymmetric carbon, Erythro and Threo representations. Fischer projections representation of molecules with one and two asymmetric carbons.	L			
24	3	Sawhorse projection representation of molecules with one and two asymmetric carbons.	L			

25	2	Newmann projections representation of molecules with one and two asymmetric carbons.	L			
26	2	Optical activity of compounds containing no asymmetric carbon, Biphenyls.	L			
27	3	Geometrical isomerism, cis – trans, Syn – Anti and E – Z Notations	L			
Seminar						
1	1	UNIT-I Acid –base catalysed hydrolysis of ester, hydrolysis of amides and trans esterification			S	
2	1	UNIT-II Mechanisms of Haloform reaction and Michael addition and Oppenauer Oxidation.			S	
3	1	UNIT-III cope and oxy cope rearrangement			S	
4	1	UNIT – IV Racemization , Methods of Racemization by substitution and tautomerism ,Resolution ,Methods of Resolution by Mechanical separation, seeding, biochemical and conversion to Diastereoisomers.			S	
5	1	UNIT-V Optica; activity of Allenes and Spiranes			S	
Class Test						
1	5	UNIT I-UNIT V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE


Head of the Department


Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001


Signature of the Staff Member

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

Teaching Plan

Name of the Staff: Mrs.P.VASANTHI

Programme: I B.Sc zoology and Maths

Academic Year:

2019 -2020

Semester: II semester

Course Code:184ACH3

Course Title: ALLIED CHEMISTRY

Objectives: To Know about the various theories of Co-ordination compounds

To understand about the synthetic polymers


To know the fundamentals of photochemistry and surface chemistry

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		9hrs per unit (for 5 units)	45
Evaluation –Class Tests (CT)		1 hrs (for 5 units)	05
Seminar/problem solving/class work(S)		1 hour per unit(for 3 units)	03
Creating awareness about the latest developments of surface and photochemistry in current research sector (CA)		1 hour 3 units(for3,4,5 units)	05
Final Evaluation (FE)		2hrs (Rehearsal)	02
Hrs per week	4	Credit	3
		Total	60

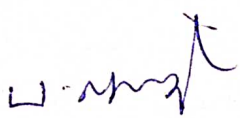
Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I						
1	2	Metallic bond- Electron gas,pauling and band theory.	L			
2	2	Semiconductors-intrinsic,n type and p type.	L			
3	1	Application of semiconductors.	L			
4	2	General methods of preparation and properties of alloys.Role of carbon in steel and treatment of steel.	L			
5	2	Applications of alloys.	L			
UNIT-II						
6	2	Amino acids -classification based on structures. Essential and non essential amino acids.	L			
7	1	Preparation and properties of peptides.proteins classification based on physical properties and biological functions.	L			
8	2	structure of proteins-primary and secondary (Elementary treatment)	L			
9	2	Enzyme- Introduction, classification of enzymes.Nomenclature, co- factor ,co-enzyme	L			
10	2	Mechanism of enzymes,specificity.	L			
Unit – III						
11	2	Synthetic polymers- Teflon,Alkyl and Epoxy resins,Poly esters ,bakelite ,Nylon, and Rayon general treatment only.	L			
12	2	Dyes- introduction, chromophore,Chromogen,and auxochromes.	L			
13	2	Classification of dyes on the basis of chemical structures and applications.	L			
14	1	Preparation of methyl orange, phenaphthalein,and bismark brown	L			
15	2	Their properties and uses.	L			
Unit – IV						
16	2	Vittamins- vittamin A,B complex, C,D,E,K Classification	L			

17	2	Occurrence and deficiency disease and Estimation of vitamin A, B and C	L				
18	1	Biological function of vitamin A, B, and C.	L				
Unit - V							
21	2	Blood- Composition, serum analysis,.	L				
22	2	Haemoglobin analysis. Functions of plasma proteins and haemoglobin	L				
23	2	Maintenance of pH of blood,	L				
24	1	Estimation of sugar in blood and urine.	L				
25	2	Estimation of Cholesterol.	L				
Seminar							
1	1	UNIT-I Application of semiconductors.				S	
2	1	UNIT- II. Mechanism of enzymes				S	
4	1	UNIT - IV Classification of vitamins				S	
Class Test							
1	5	UNIT I-UNIT V			CT		
Final Evaluation (FE)							
1	3	Entire course					FE


Head of the Department




Signature of the Staff Member

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Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001

Government College for Women (Autonomous), Kumbakonam
PG & Research Department of Computer Science
Academic Year 2019 - 2020
Odd Semester

Teaching Plan			
Course Title	Fundamentals of Data Structure and Algorithms		
Course Code	U21CSE305		
Course Structure	Periods/week	Credits	
	6	4	
Programme	II B.Sc (Computer Science)	Semester	III
Course Coordinator	G. Gomathi		
Course Objective	To give a fundamental knowledge on data structures and exposure to development of algorithms related to data structures		

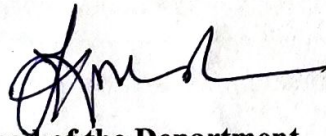
Teaching Methodology	Distribution of Hours/Unit	Total No. of Instruction
Traditional Chalk and Talk Method(L)	10 hrs per unit(for 5 units)	50
ICT Enabled Lectures (I)	1 hr per unit(for 5 units)	5
Practical Demonstration	2 hrs per unit(for 5 units)	10
Quiz/ Group Discussion (Q/GD)	1 hr per unit(for 5 units)	5
Evaluation - Class Tests(CT)	1 hr per unit(for 5 units)	5
Seminar/ Problem Solving/Class Work(S)	2 hrs per unit(for 5 units)	10
Final Evaluation (FE)	5 Hrs (Rehearsal)	5
Total		90

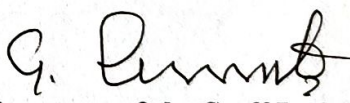
Hours Per Week	Total Hours of Instruction
6	90
5	75
4	60
2	30

S.No	No. of Lectures	Unit -Content	Mode of Teaching						
			L	P	CT	S	I	FE	Q/GD
Unit I-1	2	Introduction to Arrays and sequential representations- Ordered Lists	L						
2	2	Stacks		P					

3	2	Queues- Evaluation of expressions		P					
4	2	Application of stacks	L						
5	2	Multiple stacks and queues	L						
6	2	Singly linked list	L						
7	2	Linked Stacks	L						
8	1	Linked Queues & Applications	L						
9	1	Polynomial Addition					I		
10	1	Doubly Linked List	L						
11	2	Dynamic storage management	L						
12	1	Strings				S			
13	1	Case Study				S			
14	1	Quiz							Q
15	1	Class Test			CT				
Unit III-1	2	Trees-	L						
2	1	Binary Tree Representation					I		
3	2	Tree Traversal		P					
4	2	Threaded Binary Tree	L						
5	2	Binary Tree Representation	L						
6	2	set representations				S			
7	2	Decision trees	L						
	1	Quiz							Q
8	1	Class Test			CT				
I CIA EXAMINATION									
Unit - IV 1	2	Graphs - Basic Terminology	L						
2	2	Representation of Graphs	L						
3	2	Traversal DFS & BFS		P					
4	2	Connected Components				S			
5	1	Spanning trees					I		
6	2	Shortest path	L						
7	2	Transitive Closure	L						
	1	Quiz							Q
8	1	Class Test			CT				
Unit V 1	2	conventions	L						
2	2	Writing Structured Program	L						
3	1	Analyzing of Algorithms				S			
4	2	Heap sort		P					

5	1	Binary Search					I	
6	2	Finding the Maximum and Minimum	L					
7	1	Sorting				S		
8	2	Merge sort	L					
9	2	Quick sort	L					
10	2	selection sort	L					
11	1	Quiz						Q
12	1	Class Test			CT			
II CIA EXAMINATION								
Unit V								
1	2	Greedy Method: The general Method	L					
2	2	Optimal storage on Tapes	L					
3	1	Optimal Merge Pattern					I	
4	2	Knapsack problem		P				
5	2	Job sequencing with deadlines	L					
6	2	Minimum spanning tree- Single source shortest path				S		
	1	Quiz						Q
7	1	Class Test						
MODEL EXAMINATION								
	5	Final Evaluation						
Text Book : Fundamentals of Data Structure - Ellis Horowitz and Sartaj Sahini Fundamentals of Computer Algorithms - Elliz Horowitz and Sartaj sahini Galgotia publications								


Head of the Department


Signature of the Staff Incharge


IQAC Coordinator

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001

Government College for Women (Autonomous), Kumbakonam
PG & Research Department of Computer Science
Academic Year 2019 - 2020
Odd Semester

Teaching Plan

Name(s) of the Staff: **E.SUGANTHI**

Programme: **M.Sc Computer Science**

Academic Year : **2019-2020**

Semester: **I**

Course Code : **P17CSC102**

Course Title: **CC II - Object Oriented Analysis and Design & Unified Modeling Language**

Objectives:

- To learn the concept of Object-Oriented Methodology for developing a software application and to gain familiarity with Object Oriented Analysis and Design.


Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		13 hrs per unit (for 5 units)	65
ICT Enabled Lectures [I]		1 hour per unit(for 5 units)	05
Practical Demonstration[P]		-----	-----
Tutorial (T)		1 hour per unit(for 2 units)	02
Field visit (FV)		-----	-----
Group discussion		1 hour per unit(for 5 units)	05
Evaluation –Class Tests (CT)		5 test per unit	05
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)	05
Creating awareness about the latest developments in current research sector (CA)		-----	-----
Final Evaluation (FE)		3 hrs (Rehearsal)	03
Hrs per week	6	Credit	4
		Total	90

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I						
1	2	An Overview of object oriented systems	L			
2	3	Object Development & Life cycle	L			
3	3	Various object oriented methodologies.	L			
4	3	Booch method	L			
5	2	Rampson method	L			
Unit-II						
6	2	Object oriented analysis	L			
7	3	Use cases	L			
8	3	Object Classification	L			
9	3	Relationships	L			
10	2	Attributes, methods	L			
Unit - III						
12	2	The Importance of modeling-Principles of modeling-Object Oriented modeling-Overview of the UML	L			
13	2	A Conceptual Model of the UML-Architecture-Software Development Life Cycle	L			
14	2	Basic Behavioral Modeling-Advanced Behavioral Modeling	L			
15	3	Basic Structural Modeling-Classes-Relationships	L			
16	2	Common mechanisms-Diagrams	L			
17	2	Class diagrams.	L			
Unit - IV						
18	2	Events and signals	L			
19	3	State Machines	L			
20	2	Processes	L			
21	3	Threads	L			
22	3	State chart diagrams.	L			

Unit - V						
23	3	Architectural Modeling – Components – Deployment	L			
24	3	Collaborations -	L			
25	2	Patterns and Frameworks	L			
26	2	Component Diagrams - Deployment Diagrams -	L			
27	3	Systems and Models	L			
Class Test						
1	5	UNIT I-UNIT V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE


Head of the Department


Signature of the Staff Incharge


IQAC Coordinator

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Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001

Government College for Women (Autonomous), Kumbakonam
PG & Research Department of Computer Science
Academic Year 2019 - 2020
Even Semester
Teaching Plan

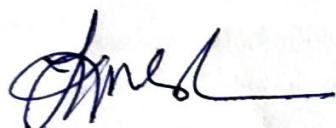
Name(s) of the Staff: S. Sheela					
Programme:	B.Sc Computer Science		Academic Year:	2019-2020	
Semester:	IV Semester				
Course Title: Programming in Java					
Objectives					
<ul style="list-style-type: none"> To give basic knowledge of Object Oriented Programming paradigm and to impart the programming skills in JAVA. 					
Teaching Methodology			Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method (L)			9 hrs per unit (for 5 units)		45
ICT Enabled Lectures (I)			1 hrs per unit (for 5 units)		05
Practical Demonstration (P)			1 hour per unit (for 3 units) 2 hour per unit (for 2 units)		07
Tutorial (T)			-----		-----
Field visit (FV)			-----		-----
Group discussion(GD)			1 hour per unit (for 5 units)		05
Evaluation –Class Tests (CT)			1 test per unit (for 5 units)		05
Seminar/problem solving/class work(S)			1 hour per unit (for 5 units)		05
Creating Awareness about the latest developments in current research sector (CA)			-----		-----
Final Evaluation (FE)			3 hrs (Rehearsal)		03
Hrs per week	5	Credit	5	Total	75

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING						
			L	C T	I	S	FE	P	GD
Unit-I									
1.	2	Java Evolution: Java History – Java Features – How Java Differs from C and C++ - Java and Internet	L						
2.	2	Java and World Wide Web – Web Browsers – Hardware and Software Requirements – Java Support Systems – Java Environment	L					P	
3.	2	Overview of Java Language: Introduction – Simple Java Program – More of Java – An Application with Two Classes – Java Program Structure – Java Tokens – Java Statements – Implementing a java program –	L						GD
4.	2	Java virtual machine – Command line arguments – Programming Style – Constants, Variables and Data types: Introduction – Constants – Variables – Data Types			I				
5.	2	Declaration of Variables – Giving values to variables – Scope of variables – Symbolic Constants – Type casting – Getting values of Variables – Standard default values	L			S			
Unit-II									
6.	2	Operators and Expressions: – Arithmetic operators – Relational Operators – Logical Operators	L						
7.	2	– Assignment Operators – Increment and decrement operators – Conditional operators			I				
8.	2	Bitwise Operators – Special operators – Arithmetic Expressions – Evaluation of Expressions – Precedence of Arithmetic Operators	L						GD
9.	2	Type conversion in Expressions- Operator Precedence and Associativity	L					P	
10.	2	Mathematical Functions – Decision making and branching - Decision making and Looping	L			S			
Unit – III									
11.	2	Classes, Objects and Methods: Defining a class – Fields Declaration – Methods Declaration – Creating Objects	L						
12.	2	Accessing Class Members – Constructors – Methods Overloading – Static members – Nesting of methods – Inheritance: Extending a class			I				
13.	2	Overloading Methods – Final Variables and methods – Final Classes – Finalizer Methods – Abstract methods and classes – Methods with Var args	L			S			

14.	2	Visibility Control- Arrays, Strings and Vectors: Introduction – One Dimensional Arrays – Creating an Array – Two – dimensional Arrays – Strings – Vectors – Wrapper Classes – Enumerated Types	L						P	
15.	2	Annotations – Interfaces: Multiple Inheritance – Defining Interfaces – Extending Interfaces – Implementing Interfaces – Accessing Interface variables	L							GD
Unit – IV										
16.	2	Packages - Java API Packages – Using System Packages – Naming Conventions – Creating Packages	L							
17.	2	Accessing A package – Using a Package – Adding a class to a package – Hiding classes - Static Import			I					
18.	2	Multithreaded Programming : Creating Threads – Extending the Thread class – Stopping and Blocking a Thread – Life cycle of a Thread – Using Thread Methods	L						P	
19.	2	Thread Exceptions – Thread Priority – Synchronization – Implementing the “Runnable” Interface – Managing Errors and Exceptions: Types of Errors	L			S				
20.	2	Exceptions – Syntax of Exception Handling Code – Multiple Catch statements – Using Finally Statement – Throwing Our Own Exceptions – Using Exceptions for Debugging	L							GD
Unit – V										
21.	2	Applet Programming : How applets differ from Applications – Preparing to write applets – Building applet code – Applet life cycle – Creating an Executable applet	L							
22.	2	designing a web Page – Applet Tag – Adding Applet to HTML File – Running the applet – More about Applet Tag – Passing parameters to applets – Aligning the display – More about HTML tags			I					
23.	2	Displaying Numerical values – Getting input from the user – Graphics Programming: The Graphics Class – Lines and Rectangles – Circles and Ellipses – Drawing Arcs – Drawing Polygons – Line Graphs – Using Control loops in applets	L							GD
24.	2	Drawing bar charts. Managing Input/Output Files in Java: Concept of Streams – Stream classes - Byte Stream Classes – Character stream classes – using streams – other useful I/O classes – Using the file Class – Input / Output Exceptions	L			S				

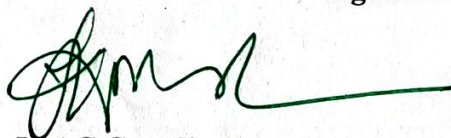
25.	2	Creation of Files – Reading/Writing characters – Reading/Writing Bytes – Handling primitive data types – Concatenating and Buffering files – Random access files – Interactive input and output – other stream classes	L						P
Seminar (S)									
1	5	Unit I – Unit V					S		
Group Discussion (GD)									
1	5	Unit I – Unit V							GD
Class Test (CT)									
1	5	Unit I – Unit V		CT					
Practical Demonstration (P)									
1	7	Unit I – Unit V						P	
Final Evaluation (FE)									
1	3	Entire course					FE		



Head of the Department



Signature of the Staff Incharge



IQAC Coordinator

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001

Government College for Women (Autonomous), Kumbakonam
PG & Research Department of Computer Science
Academic Year 2019 - 2020
Even Semester
Teaching Plan

Name(s) of the Staff: **G. Gomathi**
 Programme : M.Sc Computer Science
 Semester : IV
 Course : EC V – Software Quality Assurance & Testing.

Academic Year : 2019 – 2020
 Course Code : P17CS4EC5

Objectives :

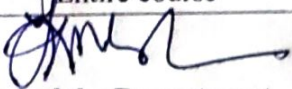
To facilitate the intakes to obtain knowledge in analyzing the program flow and identify bugs over it in a systematic approach.

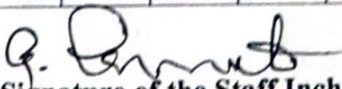
Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction		
Traditional Chalk and Talk Method [L]		Unit – I – 10 Unit – II – 15 Unit – III – 12 Unit – IV – 8 Unit – V – 15	60		
ICT Enabled Lectures [I]		Unit – III - 2	02		
Practical Demonstration[P]		-----	-----		
Tutorial (T)		-----	-----		
Field visit (FV)		-----	-----		
Group discussion		-----	-----		
Evaluation –Class Tests (CT)		5 test per unit	05		
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)	05		
Creating awareness about the latest developments in current research sector (CA)		-----	-----		
Final Evaluation (FE)		3 hrs (Rehearsal)	03		
Hrs per week	5	Credit	4	Total	75

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

S.No	Hour	UNIT – CONTENT	MODE OF TEACHING				
			L	I	CT	S	FE
Unit - I							
1	3	Introduction to Software Testing, Principles of Testing.	L				
2	2	Phases of Software Project, Quality, Quality Assurance & Quality Control, Testing, Verification & Validation.	L				
3	3	Process Model to represent Different Phases, Life Cycle Models – Waterfall, Prototyping & RAD Model.	L				
4	2	Life Cycle Models - Spiral, V & Modified V Model.	L				
Unit-II							
5	2	Introduction to White Box Testing, Static Testing.	L				
6	3	Structural Testing, Challenges in White Box Testing.	L				
7	2	Integration Testing & its types.	L				
8	2	Scenario Testing, Defect Bash.	L				
9	3	System Testing, Functional Vs Non Functional Testing	L				
10	3	Acceptance Testing.					
Unit-III							
11	3	Performance Testing, Methodologies for Testing, Tools & Process for Performance Testing.		I			
12	3	Regression Testing and its types.	L				
13	2	Object –Oriented Testing.		I			
14	3	Usability Testing.	L				
15	3	Accessibility Testing	L				
Unit-IV							
16	2	Test Planning.	L				
17	2	Test Management.	L				
18	2	Test Process, Test Execution.	L				
19	2	Test Reporting.	L				
Unit-V							
20	2	Test Automation, Terms & Skills Needed for Automation.	L				
21	2	Scope, Design & Architecture of Automation.	L				
22	3	Process Model for Automation, Selecting a Test Tool, Challenges in Automation.	L				
23	2	Metrics & Measurements, Types of Metrics.	L				
24	3	Project Metrics, Progress Metrics.	L				
25	3	Productivity Metrics, Release Metrics.	L				
Seminar							
1	1	UNIT – I Principles of Testing.				S	
2	1	UNIT – II Static Testing.				S	
3	1	UNIT – III Object –Oriented Testing.				S	

4	1	UNIT - IV Test Reporting.				S	
5	1	UNIT - V Terms & Skills Needed for Automation.				S	
Class Test							
1	5	UNIT I - UNIT V		CT			
Final Evaluation (FE)							
1	3	Entire course					FE


Head of the Department


Signature of the Staff Incharge


IQAC Coordinator

Co-ordinator
 Internal Quality Assurance Cell (IQAC)
 Govt. College for Women (A)
 Kumbakonam- 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

DEPARTMENT OF GEOGRAPHY

Teaching Plan

Name(s) of the Staff: **Dr.A.SUMATRA**

Programme: **B.Sc., GEOGRAPHY**

Academic Year: **2019-2020**

November

Semester: V semester

Course Code: **18GC612**

Course Title: **GEOGRAPHY OF TAMILNADU**

Objectives:

- To study about the Physiographic Division in Tamilnadu
- To understand the availability of renewable and non- renewable resources.

Teaching Methodology	Distribution of hours/Unit	Total Hours of Instruction			
Traditional Chalk and Talk Method [L]	14 hrs per unit (for 5 units)	70			
ICT Enabled Lectures [I]	-----	-----			
Practical Demonstration[P]	-----	----			
Tutorial (T)	1 hour per unit(for 5 units)	05			
Field visit (FV)	-----	-----			
Group discussion	----	----			
Evaluation -Class Tests (CT)	5 test per unit	05			
Seminar/problem solving/class work(S)	1 hour per unit(for 5 units)	05			
Creating awareness about the importance Resources in current research sector (CA)	1 hour per unit(for 5 units)	05			
Final Evaluation (FE)	---	---			
Hrs per week	6	Credit	5	Total	90

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

Unit wise Teaching and Evaluation Plan

Unit Wise Topics	L	I	P	T	FV	CT	S	CA	FE
Unit-I Major physiographic Division ,climatic Condition in tamilnadu	4								
Drainage System	4								
Soil Types	4			1					
Natural Vegetation	2						1		
Class Test						1		1	
Unit- II Irrigation Types ,production and Distribution of Rice and Sorghum	4								
Bajra and pulses,Groundnut and other oil seeds	4		1	1					
Sugarcane and cotton,Fisheries,livestock	4						1		
Dairy development ,Poultry development	2								
Class test						1		1	1
Unit - III Distribution and production of mineral Resources	4								
fuel Resources	4								
Power Resources	4						1		
Non - Convectional energy resources	2		1	1					

Class test			1	1	1
Unit - IV Industries- Cotton ,silk	4				
Chemical and Fertilizer Industries	4	1			
Lether and automobile Industries	4				
				1	
Industrial Zones	2				
Class test			1	1	
Unit - V Population distribution ,density and Growth	4				
Population Composition	4	1			
Transport Road,Rail and Air Transport	4				
Major ports and t	2				
Class Test			1	1	1
Rehearsal Examination					2
Total Hours					

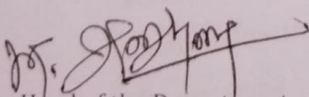
Components of Students' Evaluation for Continuous Internal Assessment:

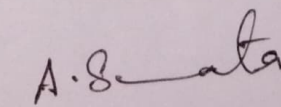
TEST	SECTION A	SECTION B	SECTION C	TOTAL
I	5X2 = 10 Marks	4X5=20 Marks	2X10=20 Marks	50
II	5X2 = 10 Marks	4X5=20 Marks	2X10=20 Marks	50
III	10X2 = 20 Marks	5X5=25 Marks	3X10=30 Marks	75

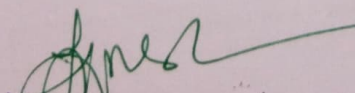
Assignment Topic I: for 10 marks: Major Physiographic Divison in Tamilnadu

Assignment Topic II for 10 marks: Production of Mineral Resources

Assignment Topic III for 10 marks: Transport Network in Transport


Head of the Department


Signature of the Staff


IQAC Coordinator
Internal Quality Assurance Cell (IQAC)
Govt. College of Arts and Commerce,
Kumbakonam-612 003

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

DEPARTMENT OF GEOGRAPHY

Teaching Plan

Name(s) of the Staff: Mrs. G. Mangaiyarkarasi ✓

Programme: M.Sc., APPLIED GEOGRAPHY Academic Year: 2019-2020 April

Semester: II semester Course Code: U212AG3

Course Title: Agricultural Geography

Objectives:

- > To understand Tourism and Travel Management Skills
- > To understand the various aspect of Logistics of tourism industry

Teaching Methodology	Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]	13 hrs per unit (for 5 units)	65
ICT Enabled Lectures [I]	-----	-----
Practical Demonstration [P]	----	----
Tutorial (T)	1 hour per unit (for 5 units)	05
Field visit (FV)	2 hours	02
Group discussion		
Evaluation - Class Tests (CT)	5 test per unit	05
Seminar/problem solving/class work(S)	1 hour per unit (for 5 units)	05
Creating awareness about the importance of Tourism Development in current research sector (CA)	1 hour per unit (for 5 units)	05
Final Evaluation (FE)	3 hrs (Rehearsal)	03
Hrs per week	6	Credit
	5	Total
		90

Hours per week	Total Hours of Instruction
----------------	----------------------------

Landuse types and survey	3	1	
Land capability classification	3		
Remote sensing in landuse analysis	3		1
Class test		1	1
Unit - V agricultural system of the world	5		
India and agricultural regions of tamilnadu	4	1	
Whittlesseys agricultural classification	4		
Class Test		1	1
Rehearsal Examination			3
Total Hours			

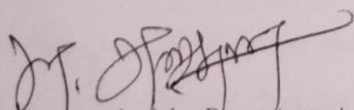
Components of Students' Evaluation for Continuous Internal Assessment:

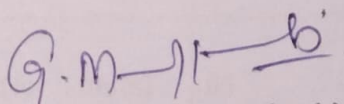
TEST	SECTION A	SECTION B	SECTION C	TOTAL
I	10X1 = 10 Marks	4X5=20 Marks	2X10=20 Marks	50
II	10X1 = 10 Marks	4X5=20 Marks	2X10=20 Marks	50
III	20X1 = 20 Marks	5X5=25 Marks	3X10=30 Marks	75

Assignment Topic I: for 10 marks: Green Revolution

Assignment Topic II for 10 marks: von thunens theory

Assignment Topic III for 10 mark; agricultural region in the world


Head of the Department


Signature of the Staff Member(s)


IQAC Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 003

Teaching Plan

Name(s) of the Staff: Dr.K.INDHIRA

Programme: B.Sc GEOGRAPHY

Semester: **V** SEMESTER

Course Title: CLIMATOLOGY

Objectives:

- > To understand the nature of atmosphere and dynamic processes of meteorological parameters
- > To learn about the patterns and distribution of various climatic elements and climatic zones

Academic Year: 2019-

2020

Course Code:U21GC203

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction		
Traditional Chalk and Talk Method [L]		13 hrs per unit (for 5 units)	65		
ICT Enabled Lectures [I]		-----	-----		
Practical Demonstration[P]		----	----		
Tutorial (T)		1 hour per unit(for 5 units)	05		
Field visit (FV)		2 hours	02		
Group discussion					
Evaluation -Class Tests (CT)		5 test per unit	05		
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)	05		
Creating awareness about the importance of nature and climatic changes (CA)		1 hour per unit(for 5 units)	05		
Final Evaluation (FE)		3 hrs (Rehearsal)	03		
Hrs per week	6	Credit	5	Total	90

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

Unit wise Teaching and Evaluation Plan

Unit Wise Topics	L	I	P	T	FV	C	S	C	FE
						T		A	
Unit-I Nature and scope of climatology ,climatic elements	4								
Weather and climate	3								
Composition and structure of atmosphere	3			1					
insolation	3						1		
Class Test						1		1	
Unit- II horizontal and vertical distribution of temperature	4								
Range of temperature	3		1	1					
Heat budget	3						1		
Class test	3					1		1	1
Unit - III atmospheric pressure and winds	4								
Winds ,monsoon	3								
Jet stream,planetary	3						1		
General circulation of winds	3		1	1					
Class test						1		1	1
Unit-IV atmospheric moisture ,forms of precipitation and types of rainfall	4								
Classification :clouds	3			1					

Air masses 3
 fronts 3 1
 Class test 1 1

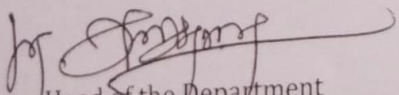
Unit - V cyclone : 5
 tropical ,temperature,anticyclone
 Climatic classification of koppen 4 1
 Climatic classification of thornthwaite 4

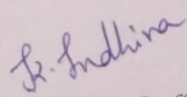
Class Test 1 1 1
 Rehearsal Examination 3
 Total Hours 90

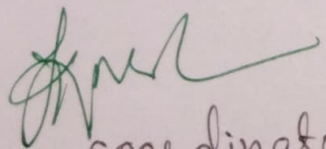
Components of Students' Evaluation for Continuous Internal Assessment:

TEST	SECTION A	SECTION B	SECTION C	TOTAL
I	10X1 = 10 Marks	4X5=20 Marks	2X10=20 Marks	50
II	10X1 = 10 Marks	4X5=20 Marks	2X10=20 Marks	50
III	20X1 = 20 Marks	5X5=25 Marks	3X10=30 Marks	75

Assignment Topic I: for 10 marks:types of precipitation
 Assignment Topic II for 10 marks: composition and structure of atmosphere
 Assignment Topic III for 10 mark: climatic classification of koppen and thornthwaite


 Head of the Department


 Signature of the Staff Member(s)


 IQAC coordinator
 Co-ordinator
 Internal Quality Assurance Cell (IQAC)
 Govt. College for Women (A)
 Kumbakonam- 612 004

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

DEPARTMENT OF BOTANY

Name(s) of the Staff: Dr. R.RADHAKRISHNAN

Programme: **B. Sc Botany**

Academic Year:

2019-2020

Semester: 1 semester

Course Code: U21BOC101

Course Title: Algae, Fungi and Lichens

Objectives:

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method [L]		15 hrs per unit (for 5 units)		75
Evaluation - Class Tests (CT)		5 test per unit		05
Seminar/problem solving/class work(S)		5 test per unit		05
Final Evaluation (FE)		5 hrs (Rehearsal)		05
Hrs per week	6	Credit	5	Total
				90

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I Algae						
1	2	General characteristics of various divisions	L			
2	3	Ecology and distribution	L			

3	3	Range of thallus organization and reproduction;	L			
4	2	Classification of algae (F. E. Fritsch	L			
5	3	Economic importance of algae.	L			
Unit-II Fungi						
6	2	General characteristics, ecology and significance,	L			
7	3	Range of thallus organization	L			
8	2	Cell wall composition	L			
9	3	Nutrition	L			
10	3	Reproduction and classification	L			
Unit – III Fungi						
12	2	True Fungi – General characteristics	L			
13	3	Ecology and significance	L			
14	2	Life cycle of Rhizopus (Zygomycota) Penicillium	L			
15	3	Alternaria (Ascomycota)	L			
16	2	Puccinia, Agaricus Basidiomycota	L			
17	2	Economic importance.	L			
Unit – IV Lichens						
18	3	Symbiotic Associations – Lichens	L			
19	3	General account, occurrence, thallus organization	L			
20	2	Classification, structure, physiology,	L			
21	3	Reproduction, and role in environmental pollution and uses	L			
22	2	Mycorrhiza: ectomycorrhiza and endomycorrhiza and their significance.	L			
Unit – V Economic importance of Algae, Fungi and Lichen						

23	3	Algae as food and source of phycocolloid (Agar-agar, Algin, Carrageenan)	L			
24	3	Diatomite, Algal parasites and Algal blooms. Potential of microalgae for SCP; β -carotene, Biodiesel.	L			
25	2	Agriculture application of Mycorrhizae, decomposers, harmful effects (Food spoilage, Mycoses).	L			
26	2	Fungi as food, medicines, growth regulators (GA), industrial application (enzyme production).	L			
27	3	Economic importance - food, Ecological importance - role in succession and indicator of pollution.	L			
Seminar						
1	1	UNIT-I Classification of algae (F. E. Fritsch).				S
2	1	UNIT-II General characteristics, ecology and significance, harmful effects Food spoilage,				S
3	1	UNIT-III Economic importance.				S
4	1	UNIT - IV Mycorrhiza: ectomycorrhiza and endomycorrhiza and their significance				S
5	1	UNIT-V Economic importance - food, Ecological importance - role in succession and indicator of pollution.				S
Class Test						
1	5	UNIT I-UNIT V			CT	
Final Evaluation (FE)						
1	3	Entire course				FE

B. S. Anand
Head of the Department

B. S. Anand
Signature of the Staff Member(s)

Anand
IQAC Co-ordinator

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam - 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM
DEPARTMENT OF BOTANY

Name(s) of the Staff: Dr. R.RADHAKRISHNAN

Programme: B.Sc Botany

Academic Year:

2019-2020

Semester: II semester

Course Code: U21BOC203

Course Title: Microbiology and Plant Pathology and protection

Objectives:

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		12 hrs per unit (for 5 units)	60
Evaluation –Class Tests (CT)		5 test per unit	05
Seminar/problem solving/class work(S)		5 test per unit	05
Final Evaluation (FE)		5 hrs (Rehearsal)	05
Hrs per week	6	Total	90
		5	Total

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I Bacteriology						
1	2	Bacteria – Discovery, General characteristics and cell structure	L			

2	3	General characteristics and cell structure;	L			
3	3	Nutritional types of bacteria (based on carbon, nitrogen and energy sources);	L			
4	2	Dry indehiscent, Reproduction – vegetative, asexual and recombination (conjugation, transformation and transduction);	L			
5	3	techniques in sterilization, bacterial culture and staining (simple and differential); Economic importance.	L			

Unit-II Virology

6	2	Viruses – Discovery, general structure, Symptoms of virus infection in plants	L			
7	3	Transmission of plant viruses	L			
8	2	Techniques in plant viruses – purification;	L			
9	3	Structure and multiplication of viroids. Economic importance.	L			
10	3	Genome organization, replication of plant virus (tobacco mosaic virus);.	L			

Unit – III

12	2	Plant Pathology: Classification of plant diseases based on; (a) Major causal agents - biotic and abiotic, (b) General Symptoms.	L			
13	3	Process of infection and pathogenesis,	L			
14	2	Study of plant diseases with respect to symptoms, causal organism,,	L			
15	3	disease cycle and their management:(a) Cereals: Rice – blast disease; (b) Vegetables: Brinjal – Little leaf	L			
16	2	Fruits: Banana – bacterial leaf blight, Citrus – bacterial canker; (d) Oil seeds: Groundnut – Tikka disease;.	L			
17	2	Tikka disease; (e) Sugar yielding: Sugarcane - red rot, f) insect - Crown gall	L			

Unit - IV Plant Protection and Disease management

18	3	Scope, Importance, equipments and techniques used in plant protection	L			
19	3	Traditional and modern methods of seed treatment	L			
20	2	Soil sterilization: Objectives, Traditional and modern methods of soil sterilization.	L			
21	3	Chemical means of disease control: Fungicides - Definition, classification, characters of an ideal fungicide; antibiotics and nematicides.	L			
22	2	Biological Control of Plant Diseases- Definition, Importance, Biological control agents and their role in plant disease control, IPM	L			

Unit - V Methods of Plant Protection

23	3	Cultural - Tillage, sowing and planting dates, crop hygiene, crop rotation, trap crops, fertilizer.	L			
24	3	Mechanical - Field sanitation: For diseases - collection and destruction of diseased plant-debris; For pests - hand picking and destruction of egg masses; shaking of plants, rope dragging, netting, bagging, physical barriers, use of sticky bands, tin-bands and light traps.	L			
25	2	Physical - Heat and soil solarizations.	L			
26	2	Chemical- Brief account and uses of Bactericides, Fungicides, Insecticides, Nematicides, Acaricides, Molluscicides, Rodenticides and Herbicides	L			
27	3	Biological- Introduction, biological control of Insect pests and diseases.	L			
	3	Legal (Plant Introduction, domestic quarantine, need of plant quarantine) quarantine in India	L			
Seminar						

1	1	UNIT-I Bacteria – Discovery, General characteristics and cell structure			S
2	1	UNIT-II Viruses – Discovery, general structure, Symptoms of virus infection in plants			S
3	1	UNIT-III Plant Pathology: Classification of plant diseases based on; (a) Major causal agents - biotic and abiotic, (b) General Symptoms.			S
4	1	UNIT - IV Chemical means of disease control: Fungicides - Definition, classification, characters of an ideal fungicide; antibiotics and nematicides.			S
5	1	UNIT-V Cultural – Tillage, sowing and planting dates, crop hygiene, crop rotation, trap crops, fertilizer.			S
Class Test					
1	5	UNIT II			CT
Final Evaluation (FE)					
1	3	Entire course			FE

[Signature]
Head of the Department

[Signature]
Signature of the Staff Member(s)

[Signature]
IQAC - Coordinator

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam - 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

DEPARTMENT OF BOTANY

Name(s) of the Staff: Dr.R.RADHAKRISHNAN

Programme: B.Sc Botany

Semester: IV semester

Academic Year: 2019-2020

Course Code: U21BOC614

Course Title: Plant Ecology and Conservation.

Objectives:

Teaching Methodology	Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]	15 hrs per unit (for 5 units)	75
Evaluation - Class Tests (CT)	5 test per unit	05
Seminar/problem solving/class work(S)	5 test per unit	05
Final Evaluation (FE)	5 hrs (Rehearsal)	05
Hrs per week 6	Credit 5	Total 90

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I						
1	2	General Ecology	L			
2	3	Approaches to the study of Ecology, Autecology Synecology	L			

3	3	Plant environment	L			
4	2	Plant environment – climatic, edaphic and Biotic factor,	L			
5	3	Grazing and browsing, by humans – deforestation, Agriculture), Allelopathy	L			
Unit-II						
6	2	Ecosystem	L			
7	3	Components abiotic-biotic-autotrophic producers	L			
8	2	Heterotrophic consumers, biomass-ecological pyramids, Productivity	L			
9	3	Primary, secondary & gross; food chain	L			
10	3	Food web & energy flow – pond ecosystem	L			
Unit – III						
12	2	Vegetation – Units of vegetation – formation, association, consociation,	L			
13	3	Development of vegetation	L			
14	2	Migration – colonization, ecesis	L			
15	3	Methods of study of vegetation (Quadrat & transect	L			
16	2	Plant succession – Hydrosere & xerosere.	L			
17	2	Ecological classification of Plants; Morphological and anatomical features of plants and their correlation to the habitat. Floristic studies	L			
Unit - IV Plant Protection and Disease management						
18	3	Pollution and its control: Air pollution, Radiation pollution,	L			
19	3	Noise pollution, Thermal pollution	L			
20	2	Soil pollution: Industrial, agrochemicals	L			
21	3	Water pollution	L			
22	2	Industrial effluents, Marine pollution.	L			

Unit - V Methods of Plant Protection

23	3	Phytogeography-Approaches to Phytogeography – Climate of India & its climatic zones, Botanical regions (provinces) of India	L		
24	3	Climate of India & its climatic zones, Botanical regions (provinces) of India	L		
25	2	Vegetational types of Tamil Nadu: Evergreen, deciduous, scrub & Mangrove, Continuous and discontinuous distribution.	L		
26	2	Endemism. <i>In situ</i> and <i>ex situ</i> conservation.	L		
27	3	Application of remote sensing in conservation.	L		

Seminar

1	1	UNIT-I General Ecology			S
2	1	UNIT-II Primary, secondary & gross; food chain			S
3	1	UNIT-III Development of vegetation			S
4	1	UNIT - IV Pollution and its control: Air pollution, Radiation pollution,			S
5	1	UNIT-V Endemism. <i>In situ</i> and <i>ex situ</i> conservation			S

Class Test

1	5	UNIT I			CT
		Final Evaluation (FE)			
1	3	Entire course			FE

[Signature]
Head of the Department

[Signature]
Signature of the Staff Member(s)

[Signature]
IQAC Co-ordinator

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam-612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

DEPARTMENT OF BOTANY

Name(s) of the Staff: Dr. R.RADHAKRISHNAN

Programme: B.Sc Botany

Academic Year:

2019-2020

Semester: V semester

Course Code: U21BOC509

Course Title: Cell and Molecular Biology

Objectives:

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction	
Traditional Chalk and Talk Method [L]		12 hrs per unit (for 5 units)		60	
Evaluation - Class Tests (CT)		5 test per unit		05	
Seminar/problem solving/class work(S)		5 test per unit		05	
Final Evaluation (FE)		5 hrs (Rehearsal)		05	
Hrs per week	5	Credit	5	Total	75

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

Traditional Chalk and Talk Method [L]	12 hrs per unit (for 5 units)	60
Evaluation - Class Tests (CT)	5 test per unit	05
Seminar/problem solving/class work(S)	5 test per unit	05
Final Evaluation (FE)	5 hrs (Rehearsal)	05
		75

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SLNO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I						
1	2	Basic principles of microscopy	L			
2	3	Differentiating features of Prokaryotic and Eukaryotic cells –	L			
3	3	Ultra structure and functions of plasma membrane	L			
4	2	Ultra structure of cell organelles – Plastids, Mitochondria, Golgi bodies, Endoplasmic Reticulum, Lysosomes	L			
5	3	<i>Cell Inclusions.</i>	L			
Unit-II						
6	2	Nucleolus - Structure of euchromatin and heterochromatin	L			
7	3	Special types of chromosomes	L			
8	2	Lamp brush chromosomes and polytene chromosomes	L			
9	3	Cell cycle, Cell Division:	L			
10	3	<i>Mitosis and meiosis.</i>	L			
Unit - III						
12	2	Nucleic acids – DNA and RNA	L			
13	3	Features – Griffith Experiment	L			
14	2	Structure, properties (C-Value Paradox) & replication of DNA	L			
15	3	Hershey and Chase experiment	L			
16	2	RNA – Structure	L			

17	2	Functions of rRNA, mRNA and tRNA.	L			
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Unit - IV

18	3	Gene regulation in Prokaryotes (Lac operon concept) and Eukaryotes	L			
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19	3	Initiation, Elongation and termination	L			
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20	2	Transcription and Translation.	L			
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21	3	Gene regulation in prokaryotes	L			
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22	2	<i>prokaryotes and eukaryotes – Differences.</i>	L			
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Unit - V

23	3	Chloroplast and mitochondrial genome organization	L			
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24	3	Microbial genetics – PCR	L			
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25	2	Basic mechanism of signal transduction	L			
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26	2	principles of cell communication	L			
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27	3	Programmed Cell Death (PCD)..	L			
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Seminar

1	1	UNIT-I Differentiating features of Prokaryotic and Eukaryotic cells –				S
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2	1	UNIT-II Cell cycle, Cell Division:				S
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3	1	UNIT-III Structure, properties (C-Value Paradox) & replication of DNA				S
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4	1	UNIT - IV Gene regulation in prokaryotes				S
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5	1	UNIT-V Microbial genetics – PCR				S
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Class Test

1	5	UNIT I-UNIT IV		CT	
Final Evaluation (FE)					
1	3	Entire course			FE

B. S. Srinivasan
Head of the Department

B. S. Srinivasan
Signature of the Staff Member(s)

Amulya
IQAC Co-ordinator

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (M)
Kumbakonam - 612 001

Head of the Dept

Signature of the Staff Member(s)

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

DEPARTMENT OF DEPARTMENT OF BOTANY

Teaching Plan

Name(s) of the Staff: Dr B.Bhavani

Programme: UG-BOTANY

Academic Year:

2019-2020

Semester: V semester

Course Code: SBBH

Course Title: Bio resources and human welfare

Objectives:

1. Students to learn about the uses of microorganisms eg Single cell protein, Antioxidants, Vitamins, Enzyme.
2. To know about the plant sources like Coffee, Poppy, Cotton, Oil, and Rubber.
3. Understand the Traditional Medicines and their Economic Importance.

Teaching Methodology	Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]	13 hrs per unit (for 5 units)	65
Evaluation -Class Tests (CT)	1 hrs (for 5 units)	05
Seminar/problem solving/class work(S)	1 hour per unit(for 5 units)	05
Creating awareness about the latest developments of Numerical methods in current research sector (CA)	1 hour per unit(for 5 units)	05
Final Evaluation (FE)	3 hrs (Rehearsal)	03
Hrs per week	6	Credit
	5	Total
		75

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I -Useful products from microorganisms						
1	2	Single cell proteins from fungi (yeast)	L			
2	3	Alage (Spirulina)	L			
3	3	Antioxidants from Dunaliellasalina	L			
4	2	Vitamins, Enzymes	L			
5	3	Antibioics and Alcohol	L			
Unit-II- Useful products form Gymnosperms						
6	2	Useful products form Gynosperms)	L			
7	3	Wood (Pine)	L			
8	2	Drugs (Turpentine)	L			
9	3	Drugs (Taxol)	L			
10	3	Drugs (Ephedrine)	L			
Unit - III - Study of plants for the source						
12	2	Application of the following products,beverage (coffee)	L			
13	3	narcotics (poppy)	L			
14	2	fiber (Cotton)	L			
15	3	oil-seeds (sesame),	L			
16	2	latex (rubber)	L			
17	2	Economic importance	L			
Unit - IV Importance and application areas						
18	3	Biomass production - food	L			
19	3	Bio-fertilizers	L			
20	2	Environmental Biotechnology	L			

21	3	Waste treatment – solid (compost)	L				
22	2	sewage treatment (domestic sewage).	L				
Unit - V - Traditional and economically important							
23	3	Traditional and economically important	L				
24	3	Important wood plant species of India.	L				
25	2	Economically important wood plant species of India. Acacia, Albizjia,	L				
26	2	Economically important wood plant species of India. Bambusa, Dalberigia.	L				
27	3	Economically important wood plant species of Terminalia	L				
Seminar							
1	1	UNIT-I Vitamins				S	
2	1	UNIT-II Useful products form Gynosperms)				S	
3	1	UNIT-III Plants for the source and application of the following products				S	
4	1	UNIT - IV Bio-fertilizers use				S	
5	1	UNIT-V Traditional and economically important plant species of India.				S	
Class Test							
1	5	UNIT I-UNIT V				CT	
Final Evaluation (FE)							
1	3	Entire course					FE

B. S. Srinivas
Head of the Department

[Signature]
Signature of the Staff Member

[Signature]
IQAC Co-ordinator

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam - 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

DEPARTMENT OF DEPARTMENT OF BOTANY

Teaching Plan

Name(s) of the Staff: Dr B.Bhavani

Programme: UG-BOTANY

Academic Year:

2019-2020

Semester: V semester

Course Code: 18BOC508

Course Title: **GENETICS, BIostatISTICS AND EVOLUTION**

Objectives:

1. To study Mendelian genetics, recombination of chromosomes, structure and function of genes and their various units
2. To educate on mutation
3. To impart knowledge on biostatistics and its applications biological experiments
To understand the mechanism of evolution and study of population genetics

Teaching Methodology	Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]	13 hrs per unit (for 5 units)	65
Evaluation -Class Tests (CT)	1 hrs (for 5 units)	05
Seminar/problem solving/class work(S)	1 hour per unit(for 5 units)	05
Creating awareness about the latest developments of Numerical methods in current research sector (CA)	1 hour per unit(for 5 units)	05
Final Evaluation (FE)	3 hrs (Rehearsal)	03
Hrs per week	Credit	Total
6	5	75

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I - Mendel's laws						
1	2	Mendel's laws, Monohybrid	L			
2	3	Dihybrid, back cross and test cross	L			
3	3	Allelic interactions: Incomplete dominance	L			
4	2	co-dominance – complementary factor hypothesis	L			
5	3	Non-allelic interaction – Lethal factor, Multiple factor hypothesis	L			
Unit-II- Recombination						
6	2	Linkage & crossing over in <i>Lathyrus odoratus</i>	L			
7	3	Eye colour in <i>Drosophila</i> colour blindness in man	L			
8	2	Cytoplasmic inheritance.	L			
9	3	Sex determination in plants and <i>Drosophila</i> .	L			
10	3	Functional units of gene – cistron, recon, muton, codon and operon concept	L			
Unit – III – Biostatistics Definition						
12	2	Sampling techniques: Sample	L			
13	3	Random and non – random sampling techniques	L			
14	2	Data – Types of data	L			
15	3	Presentation of data	L			
16	2	Graphical methods: Histogram,	L			
17	2	Graphical methods: Bar and Pie diagrams.	L			
Unit - IV Mean, median and mode						

18	3	Mean, median and mode	L		
19	3	Measures of dispersion – range,	L		
20	2	Standard Deviation	L		
21	3	Standard Error	L		
22	2	Correlation and its types	L		
Unit - V - Evolution					
23	3	Evolutionary concepts – Theories of Lamarck	L		
24	3	Charles Darwin	L		
25	2	Modern synthetic theories	L		
26	2	Population genetics	L		
27	3	Factors affecting gene frequencies.	L		
Seminar					
1	1	UNIT-I Vitamins			S
2	1	UNIT-II Useful products form Gynosperms)			S
3	1	UNIT-III Plants for the source and application of the following products			S
4	1	UNIT - IV Bio-fertilizers use			S
5	1	UNIT-V Traditional and economically important plant species of India.			S
Class Test					
1	5	UNIT I-UNIT V		CT	
Final Evaluation (FE)					
1	3	Entire course			FE

@sasmishran
Head of the Department

[Signature]
Signature of the Staff Member

[Signature]
IQAC - Co Ordinator

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 001

ODD SEMESTER(2019-2020)

Teaching Plan

Name(s) of the Staff: Dr.K.BHAVANI

Programme: **B.Sc., ZOOLOGY**

Academic Year: **2019-20**

Semester: I semester

CourseCode: U20ZC101

INVERTEBRATE

Objectives: To make thorough understanding on kingdom classification, general characters and special functions with special reference to various major and minor, phylum of invertebrata such as Annelida, Arthropoda, Mollusca and Echinodermata along with general topics.

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction	
Traditional Chalk and Talk Method [L]		15 hrs per unit (for 5 units)		30	
ICT Enabled Lectures [I]		-----		-----	
Practical Demonstration[P]				-----	
Tutorial (T)		1 hour per unit(for 2 units)		-----	
Field visit (FV)		-----		-----	
Group discussion					
Evaluation –Class Tests (CT)		1 test per unit		02	
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)		01	
Creating (CA)		1 hour per unit(for 5 units)		01	
Final Evaluation (FE)		3 hrs (Rehearsal)		02	
Hrs per week	2	Credit	5	Total	36
Hours per week			Total Hours of Instruction		
6			90		
5			75		

			4	60			
			2	30			
SL.N O	HOU R	UNIT -CONTENT	MODE OF TEACHING				
			L	CT	S	FE	
Unit-IV							
4	2	Phylum: Annelida General characters and classification	L				
5	2	Phylum: Arthropoda General characters and classification	L				
6	4	Detailed Study: Nereis	PP T				
7	4	Detailed Study: Prawn	PP T				
8	3	General Topics: 1.Larval forms in Crustacea. 2.Economic Importance of Honey Bee, Silk Worm, Mosquito and Housefly.	L				
Unit-V							
9	2	Phylum: Mollusca General characters and classification	PP T				
10	2	Phylum: Echinodermata. General characters and classification	PP T				
11	4	Detailed Study: Pila	L				
12	4	Detailed Study: Starfish.	L				
13	3	General Topics: 1. Torsion in Gastropoda. 2. Larval forms of echinoderms.	L				
Seminar							
1	1	UNIT-III Economic Importance of Honey Bee, Silk Worm, Mosquito and Housefly.			S		
Class Test							

1	1	UNIT-IV Larval forms in Crustacea.				
2	1	UNIT -V Larval forms of echinoderms.				
Creating (CA)						
1	1	Creating awareness for higher studies			CA	
Final Evaluation (FE)						
1	2	Entire course				FE

lrsd
Signature of the staff member

[Signature]
Head of the Department
HEAD OF THE DEPARTMENT OF ZOOLOGY
GOVT. COLLEGE FOR WOMEN,
KUMBakonam.

[Signature]
Co-ordinator
Internal Quality Assurance Cell (IQAC)
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Kumbakonam- 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF ZOOLOGY

Teaching Plan

Name(s) of the Staff: Dr.K.BHAVANI

Programme: B.Sc., ZOOLOGY

Academic Year: 2019-20

Semester: V semester

CourseCode: U20ZC510

DEVELOPMENTAL BIOLOGY AND IMMUNOLOGY

Objectives: To inculcate the present perspective on the development of animal embryos of various taxonomic groups through experimental analysis using modern biological tools.

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		13 hrs per unit (for 5 units)	26
ICT Enabled Lectures [I]		-----	-----
Practical Demonstration[P]			-----
Tutorial (T)		1 hour per unit(for 2 units)	-----
Field visit (FV)		-----	-----
Group discussion			
Evaluation –Class Tests (CT)		1 test per unit	02
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)	
Creating (CA)		1 hour per unit(for 5 units)	
Final Evaluation (FE)		3 hrs (Rehearsal)	02
Hrs per week	2	Credit	5
		Total	30
Hours per week		Total Hours of Instruction	
6		90	
5		75	
4		60	
2		30	

SL.N O	HOU R	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I						

1	1	Aim and scope of Developmental Biology	L				
2	2	Gametogenesis - Spermatogenesis	PP T				
3	2	Gametogenesis Oogenesis, Vitellogenesis,	PP T				
4	1	Egg membranes.	PP T				
5	3	Fertilization - Sperm - Egg interaction (acrosome reaction), biochemical events, post Fertilization events.	L				
6	1	Parthenogenesis.	L				
Unit-II							
7	3	Types of animal eggs. Cleavage - Patterns of cleavage,	PP T				
8	4	Blastulation and gastrulation in frog and chick.	L				
9	3	Cell lineage, fatemap.	L				
10	3	Differentiation - Organizer concept,	L				
11	3	Competence, Nuclear transplantation.	PP T				
Class Test							
1	1	UNIT-I Spermatogenesis and Oogenesis			CT		
2	1	UNIT-II Cleavage - Patterns of cleavage			CT		
Final Evaluation (FE)							
1	2	Entire course					FE

Teaching Plan

Name(s) of the Staff: Dr.K.BHAVANI

Programme: M.Sc., ZOOLOGY

Academic Year: 2019-20

Semester: I semester

Course Code: P21ZC102

CELL AND MOLECULAR BIOLOGY

Objectives: To make the understand

Cellular grade of organisation and assess the role of various cells in physiological functions. Specify cell types that pass on information to generations. The structure and molecular basis of cellular components, ultra structure, chemical composition and regulation of gene expression . Mechanism of cell cycle, cell division and ageing .

Teaching Methodology			Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method [L]			13 hrs per unit (for 5 units)		39
ICT Enabled Lectures [I]			-----		-----
Practical Demonstration[P]					-----
Tutorial (T)			1 hour per unit(for 2 units)		-----
Field visit (FV)			-----		-----
Group discussion					
Evaluation –Class Tests (CT)			1 test per unit		03
Seminar/problem solving/class work(S)			1 hour per unit(for 5 units)		01
Creating (CA)			1 hour per unit(for 5 units)		
Final Evaluation (FE)			3 hrs (Rehearsal)		02
Hrs per week	2	Credit	5	Total	45
Hours per week			Total Hours of Instruction		
6			90		
5			75		
4			60		
2			30		
SL.N O	HOU R	UNIT -CONTENT		MODE OF TEACHING	

			L	CT	S	FE
Unit-II						
1	2	Nucleus: Occurrence, Ultra structure Nuclear membrane, nuclear pores, nucleolus, nucleoplasm, chromatin fibers.	PP T			
2	2	Chromosomes: Historical background, Chromosomal number, Morphology, Structure, Heterochromatin, Euchromatin, L and M Chromosomes.	L			
UNIT- III						
3	2	Lysosome: Occurrence, Morphology, Polymorphism and Functions.	L			
4	2	Ribosomes: Occurrence, distribution, Types and Ultra Structure.	L			
5	4	Cell division: Mitosis, Meiosis and their regulation, Cell cycle, regulation of cell cycle	L			
6	2	Ageing: Sub cellular changes due to ageing, Theories for causes of ageing.	L			
Unit-IV						
7	3	DNA: Chemical composition, Chargaff rule, Watson and Crick's model, Forms of DNA,	PP T			
8	2	Denaturation, Renaturation, Hybridization,	L			
9	2	Replication and functions of DNA.	PP T			
10	4	RNA: Kinds of genetic and non genetic RNA, mRNA, rRNA and tRNA – structure and functions	L			
Unit-IV						
11	2	Genetic Code-Characteristics, Central dogma -	PP T			
12	4	Transcription, Post transcriptional modifications, Translation and Post translational modification.	L			

13	4	Regulation of gene Expression (Action) in Prokaryotes: Constitute genes and inducible genes,	L			
14	4	Transcriptional control mechanism, Operon model - Lac operon and Trp operon models.	PP T			
Class Test						
1	1	UNIT-III Cell Division		CT		
2	1	UNIT-IV DNA Replication		CT		
3	1	UNIT-V Protein synthesis		CT		
Seminar						
1	1	UNIT-III Structure and function of lysosome and Ribosome			S	
Final Evaluation (FE)						
1	2	Entire course				FE

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EVEN SEMESTER(2019-2020)

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF ZOOLOGY

Teaching Plan

Name(s) of the Staff: Dr.K.BHAVANI

Programme: B.Sc., ZOOLOGY

Academic Year: 2019-20

Semester: II semester

CourseCode: U20ZC203

CHORDATE

Objectives: To comprehend the knowledge on phylum chordate - their general characters, classification (Fishes, Amphibians, and Mammals) along with interesting general topics of the subject.

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction		
Traditional Chalk and Talk Method [L]		15 hrs per unit (for 5 units)	45		
ICT Enabled Lectures [I]		-----	-----		
Practical Demonstration[P]			-----		
Tutorial (T)		1 hour per unit(for 2 units)	-----		
Field visit (FV)		-----	-----		
Group discussion			01		
Evaluation –Class Tests (CT)		1 test per unit	03		
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)	1		
Creating (CA)		1 hour per unit(for 5 units)	01		
Final Evaluation (FE)		3 hrs (Rehearsal)	03		
Hrs per week	2	Credit	5	Total	54
Hours per week			Total Hours of Instruction		
6			90		
5			75		
4			60		
2			30		

SL.N O	HOU R	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-II						
1	3	Class: Pisces : General characters and classification	L			
2	3	Class: Amphibia: General characters and classification	L			
3	5	Detailed Study: Scoliodon	PP T			
4	5	Detailed Study: Frog	PP T			
5	3	General topics: 1. Accessory respiratory organs in fishes. 2. Parental care and Migration in fishes.	L			
Unit-IV						
6	4	Class: Aves: General characters and classification up to class level with suitable examples.	L			
7	6	Detailed study:Pigeon (Exclusive of endoskeleton)	PP T			
8	5	General topics: 1. Migration in birds. 2. Flight adaptations. 3. Flightless birds.	L			
Unit-V						
9	3	Class: Mammals: General characters and classification	L			
10	5	Detailed study: Rabbit	PP T			
11	3	General topics: 1. Aquatic mammals. 2. Dentition in mammals.	L			
Group discussion						
1	1	UNIT-II General characters of Pisces and Amphibia			G D	
Class Test						

1	1	UNIT-II Migration in fishes.		CT		
2	1	UNIT-IV Flight adaptation		CT		
3	1	UNIT -V Dentition in mammals.		CT		
Seminar						
1	1	UNIT IV Migration in birds			S	
Creating (CA)						
1	1	Creating awareness for higher studies			CA	
Final Evaluation (FE)						
1	3	Entire course				FE

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GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF ZOOLOGY

Teaching Plan

Name(s) of the Staff: Dr.K.BHAVANI

Programme: B.Sc., ZOOLOGY

Academic Year: 2019-2020

Semester: IV semester

CourseCode: U20ZC614

MICROBIOLOGY AND BIOTECHNOLOGY

Objectives: To learn the general structure of bacteria, virus and fungi - their culture, food spoilage and food preservation.

To understand the biotechnological, principles - Scope and importance through gene cloning, tools of genetic engineering vectors - their application in medicine

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		15 hrs per unit (for 5 units)	45
ICT Enabled Lectures [I]		-----	-----
Practical Demonstration[P]			-----
Tutorial (T)		1 hour per unit(for 2 units)	-----
Field visit (FV)		-----	-----
Group discussion			
Evaluation –Class Tests (CT)		1 test per unit	03
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)	03
Creating (CA)		1 hour per unit(for 5 units)	01
Final Evaluation (FE)		3 hrs (Rehearsal)	02
Hrs per week	2	Credit	5
		Total	54
Hours per week		Total Hours of Instruction	
6		90	
5		75	
4		60	
2		30	

SL.N O	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I						
1	4	Outline classification of microorganisms – General structure of Bacteria, virus and fungi.	L			
2	4	Sterilization techniques, bacterial growth, methods of culturing bacteria - pure culture and culture characteristics.	L			
3	4	Food microbiology - food poisoning, food spoilage and food preservation.	L			
Unit-III						
4	2	Biotechnology: Scope and importance.	L			
5	6	Genetic Engineering: Gene cloning: Isolation of desired DNA - insertion of DNA into vector - introducing rDNA into host - identification, selection and expression of cloned DNA.	L			
9	5	Tools - Tools of genetic engineering: Restriction endonucleases (Eco R1, Hind III, B and H1) and DNA ligases.	L			
10	5	Vectors - Plasmids - pBR322, Cosmids.	L			
Unit-IV						
11	6	Molecular probes: Blotting techniques - Southern, Northern and Western blotting Gene bank and libraries.	L			
12	4	PCR, DNA finger printing.	L			
13	2	Monoclonal Antibodies: production and uses	L			
14	3	Stem cell technology.	L			
Seminor						
1	1	UNIT-I Food microbiology				
2	1	UNIT-III Gene cloning				

3	1	UNIT-IV DNA Finger printing				
Class Test						
1	1	UNIT-I pure culture method		CT		
2	1	UNIT -III vectors- pBR322		CT		
3	1	UNIT-IV Blotting techniques		CT		
Creating (CA)						
1	1	Creating awareness for higher studies			CA	
Final Evaluation (FE)						
1	2	Entire course				FE

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Am. Singh

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GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF ZOOLOGY

Teaching Plan

Name(s) of the Staff: Dr.K.BHAVANI

Programme: M.Sc., ZOOLOGY

Academic Year: 2019-20

Semester: II semester

CourseCode: P21ZC207

IMMUNOLOGY

Objectives: To inculcate basic and current knowledge on the immune system. To learn the structure and functions of immune system.

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction	
Traditional Chalk and Talk Method [L]		15 hrs per unit (for 5 units)		30	
ICT Enabled Lectures [I]		-----		-----	
Practical Demonstration[P]				-----	
Tutorial (T)		1 hour per unit(for 2 units)		-----	
Field visit (FV)		-----		-----	
Group discussion					
Evaluation –Class Tests (CT)		1 test per unit		02	
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)		02	
Creating (CA)		1 hour per unit(for 5 units)		01	
Final Evaluation (FE)		3 hrs (Rehearsal)		01	
Hrs per week	2	Credit	5	Total	36
Hours per week			Total Hours of Instruction		
6			90		
5			75		
4			60		
2			30		

SL.N O	HOU R	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE

Unit-I

1	4	Organs of immune system: Primary -Thymus, Bone marrow, Secondary - Spleen, Lymph nodes, Tonsils, GALT and MALT	L				
2	4	Cells of immune system: Hematopoietic stem cells, cells of lymphoid lineage - Lymphocytes, NK cells, K cells, myeloid lineage - granulocytes, Neutrophils, Eosinophil's, Accessory cells	PP T				
3	4	T cells: Differentiation and maturation of T cells - Positive and Negative selection, Surface markers and Receptors of mature T cells, Types of T cells (T cell subsets) and their functions.	L				
4	2	B Lymphocytes: Surface markers, Development and maturation of B cells.	L				

Unit-II

4	2	Antigens: Factors determining immune genisity, Types of Antigens, Epitopes - B cell and Tcell epitopes.	L				
5	3	Humoral Immune response: Antigen processing and presentation - class I and class II MHC pathways	L				
9	3	T cell activation, B cell activation - T dependent and independent, T cell - B cell conjugate (Immunological synapse),	PP T				
10	3	B cell maturation (Affinity mechanism and class switching, Plasma cells and memory cells, Immunological memory, Immune response - Primary and Secondary).					
10	5	Immuno globulins: Structure, General function, Classes of Ig (properties and biological functions).	PP T				

Seminar

1	1	UNIT-I LYMPHOID ORGAN				S	
2	1	UNIT-III Structure of immunoglobulin				S	

Class Test

1	1	UNIT-I B and T lymphocyte		CT		
2	1	UNIT -III Humoral immune response		CT		
Final Evaluation (FE)						
1	2	Entire course				FE

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GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM
POST GRADUATE AND RESEARCH DEPARTMENT OF ZOOLOGY (2019-2020)

Teaching Plan 2019-2020-Odd Semester

Name(s) of the Staff: Dr.D.SOUMADY
 Programme: III-B.Sc, Zoology Academic Year: 2019-2020
 Semester: V semester Course Code: 18Z5EC3:1

Course Title: Biostatistics

1. Objectives: To comprehend the knowledge on methods of data collection and analysis in biostatistics, measures the tendency of data and hypothesis testing of data.

Teaching Methodology			Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method [L]			13 hrs per unit (for 5 units)		26
Evaluation -Class Tests (CT)			1 hrs (for 3 units)		02
Seminar/problem solving/class work(S)			Class work		02
Creating (CA)			1 hour per unit(for 5 units)		
Final Evaluation (FE)			3 hrs (Rehearsal)		02
Hrs per week	3	Credit	5	Total	32

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING
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			L/PPT	C T	S	FE
Biostatistics - UNIT – III Analysis of Data						
1	4	Analysis of Data: Measures of central tendency – mean.	PPT			
2	4	Analysis of Data: Measures of central tendency, median.	PPT			
3	5	Analysis of Data: Measures of central tendency, mode.	L			
Unit-V Hypothesis testing						
4	4	Hypothesis testing: Introduction to test of significance - Chi square test, ANOVA - one way.	L			
5	5	Students t-Test (based on mean with two samples, Testing correlation co-efficient and paired t-Test),	ppt			
6	4	Introduction to statistical packages – SPSS.	L			
class work(S)						
1	2				cw	
Class Test						
1	2	UNIT III & V		CT		
Final Evaluation (FE)						
1	2	Entire course				FE

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Teaching Plan- 2019-2020 odd semester

Name(s) of the Staff: Dr.D.SOUMADY
Programme: M.Sc., Zoology Academic Year: 2019-2020
Semester: III semester Course Code: P21Z3MBE 3:1

Course title: Biostatistics and Research Methodology

Objectives: 1. To understand the importance of Statistics and presentation of biological data. 2. To know the basic principles of microscopes and bio-techniques.

Teaching Methodology	Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]	15 hrs per unit (for 5 units)	60
Group discussion		

Evaluation -Class Tests (CT)		1 test per unit	04
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)	04
Creating (CA)		1 hour per unit(for 5 units)	
Final Evaluation (FE)		4 hrs (Rehearsal)	---
Hrs per week	3	Credit	4
		Total	68

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT-I	MODE OF TEACHING			
			L/PPT	CT	S	FE
1	3	Introduction to biostatistics - scope and definition, functions and limitations. Collection,	PPT			
2	4	organization (classification and tabulation of data) and presentation (graphical representations) of data.	L			
3	4	Measures of central tendency - mean, median and mode.	PPT			
4	4	Measures of dispersion - range, inter quartile range, mean deviation, standard deviation and Standard error.	L			
UNIT - III						
1	4	Hypothesis testing, Chi-square test	PPT			
2	3	One-way Analysis of variance,	L			
3	4	Student t-test	PPT			
4	4	Probability theory - Normal, Binomial and Poisson distributions (theory only)	L			
UNIT-IV						
1	4	Literature collection: Source, preparation of Index card, Details of books, edited volumes,	L			

2	4	Peer reviewed journals, e-journals, biological abstracts and Magazines.	L			
3	4	Online browsing of research articles: infonet and infolibnet. Preparation of research dissertation - components of thesis, proof reading, preparation of bibliography.	L			
4	3	Preparation of Scientific paper for publication in a peer reviewed Journal. Details of impact factor, citation index and h-index.	L			
Unit-V						
1	3	Principles and their application of Electron Microscope (SEM and TEM),	PPT			
2	4	Centrifuge (Ultracentrifuge),	L			
3	4	Electrophoresis (SDS-PAGE), Chromatography (TLC, GCand HPLC)	PPT			
4	4	Spectroscopy (UV, Infrared and NMR)	L			
Seminar						
1	4	UNIT-I , III,IV & V			S	
Class Test						
1	4	UNIT I, III, IV & V		CT		
Final Evaluation (FE)						
1	---	Entire course				FE

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Teaching plan 2019– 2020 (Even Semester)

Name(s) of the Staff: Dr.D.SOUMADY
 Programme: I-M.Sc., Zoology Academic Year: 2019-2020
 Semester: I semester Course Code: PZCB07
 Course title: Immunology

Objectives: To invite the basic and current knowledge on the immune system, their structure and functions of immunoglobulin's, antigen – anti body reaction, immunity mechanism, tumour immunology and the application of immuno techniques.

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction		
Traditional Chalk and Talk Method [L]		15 hrs per unit (for 5 units)		30		
Evaluation –Class Tests (CT)		1 test per unit		02		
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)		---		
Creating (CA)		1 hour per unit(for 5 units)		---		
Final Evaluation (FE)		3 hrs (Rehearsal)		02		
Hrs per week	3	Credit	5	Total		
Hours per week			Total Hours of Instruction			
6			90			
5			75			
4			60			
2			30			
SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I						

1	3	Unit I: Organs of immune system: Primary - Thymus, Bone marrow, Secondary - Spleen, Lymphnodes, Tonsils, GALT and MALT.	L			
2	4	Cells of immune system: Haematopoetic stem cells, cells of lymphoid lineage - Lymphocytes, NK cells, K cells, myeloid lineage - granulocytes, Neutrophils, Eosinophils, Accessory cells	L			
3	4	T cells: Differentiation and maturation of T cells - Positive and Negative selection, Surface markers and Receptors of mature T cells, Types of T cells (T cell subsets) and their function.	L			
4	4	B Lymphocytes: Surface markers, Development and maturation of B cells.	L			
Unit- III						
		Antigen - Antibody reaction: Immune complex, Binding forces, Types of Antigen-	L			
		Antibody reactions - precipitations, Agglutinations, cytolysis, complement fixation, opsonization.	L			
		Complements (Classical and Alternate pathways) Cytokines Cell mediated Immune response	L			
Seminar						
1	2	UNIT-I & III			S	
Class Test						
1	2	UNIT I & III		CT		
Final Evaluation (FE)						
1	--	Entire course				FE

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Teaching plan 2019 – 2020 (Even Semester)

Name(s) of the Staff:

Dr.D.SOUMADY

Programme: M.Sc., Zoology

Academic Year:

2019-2020

Semester: IV

Course Code:

P21Z4MBE4:1

Course Title: Biodiversity And Conservation

Objectives: Objectives: current practices in conservation and management of biodiversity

Teaching Methodology			Distribution of hours/Unit		Total Hours of Instruction	
Traditional Chalk and Talk Method [L]			15 hrs per unit (for 5 units)		30	
Evaluation -Class Tests (CT)			1 test per unit		02	
Seminar/problem solving/class work(S)			1 hour per unit(for 5 units)		--	
Final Evaluation (FE)			2 hrs (Rehearsal)		02	
Hrs per week	2	Credit	4	Total	34	
Hours per week			Total Hours of Instruction			
6			90			
5			75			
4			60			
2			30			
SL.NO	HOUR	UNIT - III	MODE OF TEACHING			
			L/PPT	CT	S	FE
1	5	Conservation of Biodiversity: Current practices in conservation -In -Situ Conservation; Sanctuary, National parks and Biosphere reserves.	L			

2	5	Ex-Situ Conservation: Zoological park, Botanical Garden, Germplasm collections (Seed banks, Test-tube Gene banks, Pollen banks, Field Gene bank, DNA Bank). In-vitro Conservation methods	L			
3	5	Ecosystem restoration. Social Approaches to conservation - Sacred Groves, Sthalavrikshas, Chipko movement Role of Educational Institution in Biodiversity and Conservation.	L	CT		
UNIT- IV						
1	3	Management of Bio diversity: IUCN, UNEP, UNESCO, WWF, ICSU, FAO, CAB International WCMC, ISBI, GEF, WHF.	PPT			
2	4	Biodiversity Legislation and Conservations (International and National-Laws)CITES, Ramsar Conservation, UPOV, ITTA and	PPT			
3	4	ITTO. IUCN threat categories. Red data book. Remote sensing-basic concepts and applications in environmental conservation.	PPT			
4	4	Red data book. Remote sensing-basic concepts and applications in environmental conservation.	PPT	CT		
Class Test						
1	2	UNIT-III & IV		CT		
Final Evaluation (FE)						
1	2	Entire course				FE

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GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF MATHEMATICS

Teaching Plan

Name(s) of the Staff: Dr.R.Balasubramanian

Programme: B.Sc., ZOOLOGY

Academic Year:

2019-2020

Semester: I semester

Course Code: U19ZC101

Course Title: Invertebrata

Objectives:

To make thorough understanding students on kingdom classification, general characters and special functions with special reference to various major and minor, phylum of invertebrata such as Annelida, Arthropoda, mollusca and Echinodermata along with general topics.

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction	
Traditional Chalk and Talk Method [L]		13 hrs per unit (for 2 units)		26	
ICT Enabled Lectures [I]		-----		-----	
Practical Demonstration[P]				-----	
Tutorial (T)		1 hour per unit(for 2 units)		02	
Field visit (FV)		-----		-----	
Group discussion					
Evaluation –Class Tests (CT)		1 test per unit		02	
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)			
Creating (CA)		1 hour per unit(for 5 units)			
Final Evaluation (FE)		3 hrs (Rehearsal)			
Hrs per week	2	Credit	5	Total	30
Hours per week			Total Hours of Instruction		
6			90		
5			75		
4			60		
2			30		
SL.NO	HOUR	UNIT –CONTENT		MODE OF TEACHING	

			L	CT	S	FE
Unit-III						
1	4	Phylum: Platyhelminthes and Aschelminthes (Nematoda). General characters and classification up to class level with suitable examples.	L			
2	4	Detailed Study: Liver fluke and Ascaris.	L			
3	3	General Topics: Parasitic adaptation in helminthes.	L			
4	2	Human Nematode parasites – <i>Wuchereria bancrofti</i> and <i>Enterobius</i> .	L			
Unit-IV						
6	4	Phylum: Annelida and Arthropoda. General characters and classification up to class level with suitable examples.	L			
7	4	Detailed Study: Nereis	L			
8	2	General Topics: Larval forms in Crustacea.	L			
9	3	Economic Importance of Honey Bee, Silk Worm, Mosquito.	L			
Seminar						
1	1	UNIT-III Ascaris.			S	
2	1	UNIT-IV Housefly			S	
Class Test						
1	2	UNIT III and UNIT IV Parasitic adaptation in helminthes. And Larval forms in Crustacea.		CT		
Final Evaluation (FE)						
1	3	Entire course				FE

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Teaching Plan

Name(s) of the Staff: Dr.R.Balasubramanian

Programme: B.Sc., ZOOLOGY

Academic Year:

2019-2020

Semester: III semester

Course Code: U19ZC205


Course Title: Cell Biology

Objectives :

To understand the various structure and function of cellular organelles

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		13 hrs per unit (for 2 units)	26
ICT Enabled Lectures [I]		-----	-----
Practical Demonstration[P]			-----
Tutorial (T)		1 hour per unit(for 2 units)	02
Field visit (FV)		-----	-----
Group discussion			
Evaluation –Class Tests (CT)		1 test per unit	02
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)	
Creating (CA)		1 hour per unit(for 5 units)	
Final Evaluation (FE)		3 hrs (Rehearsal)	
Hrs per week	2	Credit	5
		Total	30
Hours per week		Total Hours of Instruction	
6		90	
5		75	
4		60	
2		30	

SL.N O	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-II						
1	4	Plasma membrane - Ultra Structure & Functions.	L			
2	4	Cytoplasm	L			
3	3	Golgi complex - Functions.	L			
4	2	Composition and physicochemical properties	L			
Unit-III						
6	4	Ultra structure and functions of Endoplasmic reticulum	L			
7	4	Ultra structure and functions of Ribosomes	L			
8	2	Ultra structure and functions of Mitochondria	L			
9	3	Ultra structure of Lysosome.	L			
Seminar						
1	1	UNIT-III Golgi complex - Ultra Structure			S	
2	1	UNIT-IV functions of Lysosome.			S	
Class Test						
1	2	UNIT III and UNIT IV Cytoplasm and mitochondria		CT		
Final Evaluation (FE)						
1	3	Entire course				FE



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POST GRADUATE AND RESEARCH DEPARTMENT OF MATHEMATICS

Teaching Plan

Name(s) of the Staff: Dr.R.Balasubramanian

Programme: B.Sc., ZOOLOGY

Academic Year:

2019 -2020

Semester: III semester

Course Code:U19ZC510

Course Title :Developmental biology and Immunology

Objectives :

To inculcate the present perspective an the development of animal embryos of various taxonomic groups through experimental analysis using modern biological tools and also to understand the immune system of living organism.

Teaching Methodology	Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]	13 hrs per unit (for 2 units)	26
ICT Enabled Lectures [I]	-----	-----
Practical Demonstration[P]		-----
Tutorial (T)	1 hour per unit(for 2 units)	02
Field visit (FV)	-----	-----
Group discussion		
Evaluation –Class Tests (CT)	1 test per unit	02
Seminar/problem solving/class work(S)	1 hour per unit(for 5 units)	
Creating (CA)	1 hour per unit(for 5 units)	

Final Evaluation (FE)			3 hrs (Rehearsal)		
Hrs per week	2	Credit	5	Total	30
Hours per week			Total Hours of Instruction		
6			90		
5			75		
4			60		
2			30		

SL.N O	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-III						
1	4	Organogenesis of eye and ear in frog.	L			
2	4	Extra embryonic membranes in chick and physiology of placenta in Mammals.	L			
3	3	Metamorphosis in frog - Regeneration in Invertebrates and Vertebrates	L			
4	2	Concept of Test tube baby.	L			
UNIT IV						
1	4	Immunology: Immunity - Types of Immunity.	L			
2	4	Lymphoid organs - Types, Function, Organization	L			
3	3	Lymphoid cells, Antigen - Antibody - structure and type,	L			
4	2	Antigen antibody reaction.	L			
Seminar						
1	1	UNIT-III Organogenesis of ear in frog.			S	

1	1	UNIT IV Types of Lymphoid cells,			S	
Class Test						
1	2	UNIT III & UNIT IV Concept of Test tube baby and Antigen antibody reaction		CT		
Final Evaluation (FE)						
1	3	Entire course				FE

Head of the Department
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KUMBakonam.

Signature of the Staff Member(s)

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GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF MATHEMATICS

Teaching Plan

Name(s) of the Staff: Dr.R.Balasubramanian

Programme: B.Sc., ZOOLOGY

Academic Year:

2019-2020

Semester: V semester

Course Code :

Course Title : Microbiology and Biotechnology

Objectives :

To learn the general structure of bacteria, virus and fungi – their culture, food spoilage and recombination in bacteria and also to understand the biotechnological, principles – Scopend importance through gene cloning, tools of genetic engineering vectors – their application in medicine and Intellectual Property Right Values.

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction		
Traditional Chalk and Talk Method [L]		13 hrs per unit (for 2 units)	26		
ICT Enabled Lectures [I]		-----	-----		
Practical Demonstration[P]			-----		
Tutorial (T)		1 hour per unit(for 2 units)	02		
Field visit (FV)		-----	-----		
Group discussion					
Evaluation –Class Tests (CT)		1 test per unit	02		
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)			
Creating (CA)		1 hour per unit(for 5 units)			
Final Evaluation (FE)		3 hrs (Rehearsal)			
Hrs per week	2	Credit	5	Total	30

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.N O	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-III						
1	4	Biotechnology: Scope and importance.	L			
2	4	Genetic Engineering : Gene cloning: Isolation of desired DNA - insertion of DNA into vector – introducing rDNA into host - identification, selection and expression of cloned DNA.	L			
3	3	Tools - Tools of genetic engineering: Restriction endonucleases (Eco R1, Hind III, B and H1) and DNA ligases.	L			
4	2	Vectors - Plasmids - pBR322, Cosmids.	L			
Unit IV						
1	5	Molecular probes: Blotting techniques - Southern, Northern and Western blotting	L			
2	4	PCR, DNA finger printing. Gene bank.	L			
3	2	Monoclonal Antibodies: production and uses	L			
4	2	Stem cell technology.	L			
Seminar						
1	1	UNIT-III Vectors.			S	

1	1	UNIT IV Gene bank			S	
Class Test						
1	1	UNIT III & UNIT IV Biotechnology: Scope and importance. And Stem cell technology.		CT		
Final Evaluation (FE)						
1	3	Entire course				FE

Head of the Department
 HEAD OF THE DEPARTMENT OF BIOLOGY
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Signature of the Staff Member(s)

Co-ordinator
 Internal Quality Assurance Cell (IQAC)
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Teaching Plan

Name(s) of the Staff: Dr.R.Balasubramanian

Programme: M.Sc., ZOOLOGY

Academic Year:

2019-2020

Semester: III semester

Course Code: P19ZC309

Course Title :Developmental biology and Evolution

Objectives :

To Comprehend the various developmental biological events like organogenesis, metamorphosis and regeneration in living organism.

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction	
Traditional Chalk and Talk Method [L]		13 hrs per unit (for 2 units)		26	
ICT Enabled Lectures [I]		-----		-----	
Practical Demonstration[P]				-----	
Tutorial (T)		1 hour per unit(for 2 units)		02	
Field visit (FV)		-----		-----	
Group discussion					
Evaluation –Class Tests (CT)		1 test per unit		02	
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)			
Creating (CA)		1 hour per unit(for 5 units)			
Final Evaluation (FE)		3 hrs (Rehearsal)			
Hrs per week	2	Credit	5	Total	30
Hours per week			Total Hours of Instruction		
6			90		
5			75		
4			60		
2			30		

SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-III						
1	4	Gene activity and general metabolism during gastrulation - Morphogenetic movements - Organogenesis of eye in Frog.	L			
2	4	Metamorphosis: moulting and metamorphosis in insects - mechanism of action in insect hormones.	L			
3	3	Regeneration: regenerative ability in planaria, Stimulation and suppression of regeneration - polarity and gradients in regeneration.	L			
4	2	Infertility, Super ovulation, ICSI, GIFT, Embryo cloning, IVF and Test tube baby; Embryo culture- Methods of Embryo culture.	L			
Seminar						
1	1	UNIT-III Metamorphosis: moulting insects.			S	
Class Test						
1	1	UNIT III Infertility, Super ovulation,		CT		
Final Evaluation (FE)						
1	3	Entire course				FE

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Teaching Plan

Name(s) of the Staff: Dr.R.Balasubramanian

Programme: M.Sc., ZOOLOGY

Academic Year : 2019-2020

Semester: III semester

Course Code: P19ZC310

Course Title: Biotechnology

Objectives :

To acquire knowledge as the application of biotechnology as various fields – gene cloning, gene transfer technique, cell culture, fermentation and bioremediation for the industrial wastes.

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method [L]		13 hrs per unit (for 2 units)		26
ICT Enabled Lectures [I]		-----		-----
Practical Demonstration[P]				-----
Tutorial (T)		1 hour per unit(for 2 units)		02
Field visit (FV)		-----		-----
Group discussion				
Evaluation –Class Tests (CT)		1 test per unit		02
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)		
Creating (CA)		1 hour per unit(for 5 units)		
Final Evaluation (FE)		3 hrs (Rehearsal)		
Hrs per week	2	Credit	5	Total
Hours per week		Total Hours of Instruction		
6		90		
5		75		
4		60		
2		30		

SL.NO	HOUR	UNIT –CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-III						
1	4	Basic principles of Cell culture, Tissue culture and Organ culture	L			

2	4	Fermentation - bioreactor - Microbial products	L				
3	3	Transgenic animals -, fishes and Dolly	L				
4	2	Gene therapy - Cryopreservation.	L				
Unit-IV							
6	4	Fermentation - bioreactor - Microbial products	L				
7	4	Primary and Secondary Metabolites - enzyme technology	L				
8	2	single cell protein (SCP)	L				
9	3	Biopolymers and Biopesticides	L				
Seminar							
1	1	UNIT-III Transgenic animals - mice				S	
2	1	UNIT-IV Biofertilizers				S	
Class Test							
1	2	UNIT III and UNIT IV Gene therapy - Cryopreservation Fermentation - bioreactor - Microbial products				CT	
Final Evaluation (FE)							
1	3	Entire course					FE

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GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF MATHEMATICS

Teaching Plan

Name(s) of the Staff: Dr.R.Balasubramanian

Programme: B.Sc., ZOOLOGY

Academic Year:

2019 – 2020

Course

Code:

Semester: VI semester

U19Z6MBE:1

Course Title: Biochemistry

Objectives:

To imbibe the knowledge an biochemical substances of Carbohydrates, Proteins, Fat and Enzymes – their role in the metabolic events in the living organisms.

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction		
Traditional Chalk and Talk Method [L]		13 hrs per unit (for 2 units)	26		
ICT Enabled Lectures [I]		-----	-----		
Practical Demonstration[P]			-----		
Tutorial (T)		1 hour per unit(for 2 units)	02		
Field visit (FV)		-----	-----		
Group discussion					
Evaluation –Class Tests (CT)		1 test per unit	02		
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)			
Creating (CA)		1 hour per unit(for 5 units)			
Final Evaluation (FE)		3 hrs (Rehearsal)			
Hrs per week	2	Credit	5	Total	30
Hours per week			Total Hours of Instruction		
6			90		

5			75			
4			60			
2			30			
SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I						
1	4	Introduction, Definition, and Scope of biochemistry	L			
2	4	Water - physical properties - Structure and role of water in life	L			
3	3	pH and Buffers	L			
4	2	Biological buffer systems.	L			
Unit-III						
6	5	Structure and classification of amino acids and proteins.	L			
7	2	Protein metabolism	L			
8	3	Oxidative deamination, transamination	L			
9	3	Decarboxylation and Transmethylation.	L			
Seminar						
1	1	UNIT I pH.			S	
2	1	UNIT-III Classification of Protein			S	
Class Test						
1	2	UNIT I and UNIT III Biological buffer systems. Decarboxylation and Transmethylation.		CT		
Final Evaluation (FE)						
1	3	Entire course				FE

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Teaching Plan

Name(s) of the Staff: Dr.R.Balasubramanian

Programme: M.Sc., ZOOLOGY

Semester: II semester

Academic Year:

2019-2020

Course Code: P19ZC205

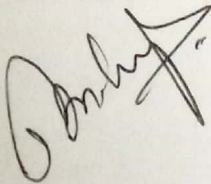
Course Title: Biochemistry

Objectives:

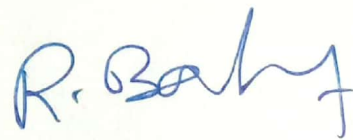
To make the students to learn about the chemical constituents of living organisms including the nature of atomic weight, molecular height, bonds, and the water and to understand the basic principles and chemical nature of protein and lipid with reference to various metabolic activity and biochemical reactions.

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction		
Traditional Chalk and Talk Method [L]		13 hrs per unit (for 2 units)		26		
ICT Enabled Lectures [I]		-----		-----		
Practical Demonstration[P]				-----		
Tutorial (T)		1 hour per unit(for 2 units)		02		
Field visit (FV)		-----		-----		
Group discussion						
Evaluation –Class Tests (CT)		1 test per unit		02		
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)				
Creating (CA)		1 hour per unit(for 5 units)				
Final Evaluation (FE)		3 hrs (Rehearsal)				
Hrs per week	2	Credit	5	Total		
Hours per week		Total Hours of Instruction				
6		90				
5		75				
4		60				
2		30				
SL.NO	HOUR	UNIT –CONTENT	MODE OF TEACHING			
			L	CT	S	FE

Unit-I						
1	4	Atoms- atomic number and atomic weight, molecules, molecular weight.	L			
2	4	Bonds- ionic, covalent, metallic, hydrogen bonds and vander Waal's force.	L			
3	3	Water - Physical properties, Structure, Weak, interaction in aqueous solutions	L			
4	2	pH - definition and pH scale, buffer system.	L			
Unit-IV						
6	4	Protein and amino acid metabolism - Oxidative deamination	L			
7	4	transamination, decarboxylation and transmethylation reactions, Lipid metabolism	L			
8	2	Metabolism of fatty acids - Glycerol	L			
9	3	Theories of Oxidation of fatty acids.	L			
Seminar						
1	1	UNIT-I Water as universal solvent			S	
2	1	UNIT-IV Metabolism of Cholesterol			S	
Class Test						
1	2	UNIT I and UNIT IV pH - definition and pH scale, buffer system. Theories of Oxidation of fatty acids.		CT		
Final Evaluation (FE)						
1	3	Entire course				FE

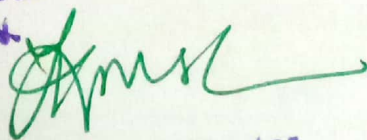


Head of the Department



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GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF MATHEMATICS

Teaching Plan

Name(s) of the Staff: Dr.R.Balasubramanian

Programme: M.Sc., ZOOLOGY

Academic Year:

2019-2020

Semester: IV semester

Course Code: P19Z4MBE4:1

Course Title: Biodiversity and Conservation

Objectives:

To understand the importance of biodiversity and conservation methods through concepts, reasons for loss of biodiversity, current practices in conservation, management of biodiversity and biotechnological role and impacts of biodiversity in india

Teaching Methodology	Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]	13 hrs per unit (for 2 units)	26
ICT Enabled Lectures [I]	-----	-----
Practical Demonstration[P]		-----
Tutorial (T)	1 hour per unit(for 2 units)	02
Field visit (FV)	-----	-----
Group discussion		
Evaluation –Class Tests (CT)	1 test per unit	02
Seminar/problem solving/class work(S)	1 hour per unit(for 5 units)	
Creating (CA)	1 hour per unit(for 5 units)	
Final Evaluation (FE)	3 hrs (Rehearsal)	
Hrs per week	2	Credit
		5
		Total
		30

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT –CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I						

1	4	Concept and definition - Scope of Biodiversity science - Types of biodiversity -	L				
2	4	Genetic, Species, Ecosystem and Agrobiodiversity. Biodiversity values and uses - Ethical,	L				
3	3	Aesthetic, Ecological, s	L				
4	2	Methodologies for valuation of Biodiversity (Changes in productivity method, Contingent valuation method and Hedonic pricing method), diversity assessment (Shannon Weiner Index).	L				
Unit-II							
6	4	Genetic diversity - Factors causing for loss	L				
7	4	Demographic Bottlenecks, Genetic Drift, Inbreeding depression.	L				
8	2	Species diversity- extinction, population size. Ecosystem diversity-	L				
9	3	Factors affecting Ecosystem degradation and loss. Agrobiodiversity – loss of Biodiversity as an Economic process- Hot spots of Biodiversity.	L				
Seminar							
1	1	UNIT-I Cultural Benefits				S	
2	1	UNIT-II Founder effects,				S	
Class Test							
1	2	UNIT I and UNIT II Genetic, Species, Species diversity- extinction,			CT		
Final Evaluation (FE)							
1	3	Entire course					FE

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Head of the Department

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[Handwritten Signature]

Signature of the Staff Member(s)

[Handwritten Signature]

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Internal Quality Assurance Cell (IQAC)
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GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF HISTORY

Teaching Plan

Name of the Staff: Dr.S.ANUSUYA

Programme: M.A.. HISTORY

Academic Year: 2019-2020

Semester: I semester

Course Code: P18HSC1EC1

Course Title: EC I ARCHAEOLOGY

Objectives:

- To understand the meaning and other disciplines of Archaeology
- To know the Temple architectural styles of Various dynasties
- To evaluate the contributions of eminent archeologists

Teaching Methodology	Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]	15 hrs per unit (for 5 units)	75
ICT Enabled Lectures [I]	----	----
Practical Demonstration[P]	----	----
Assignment(A)	1 hour per unit (for 3units)	03
Field visit (FV)	----	----
Group discussion	----	----
Evaluation –Class Tests (CT)	1 hour per unit (for 3 units)	03
Seminar/problem solving/class work(S)	1 hour per unit (for 3units)	03
Creating awareness about the current development (CA)	1 hour per unit(for 3units)	03
Final Evaluation (FE)	3 hrs (Rehearsal)	03
Hrs per week	6	Credit
	5	Total
		90

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

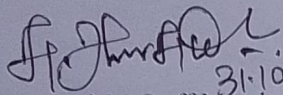
S.NO	UNIT	TOPICS	LECTURE	ASSIGNMENT	GROUP DISCUSSION	EVALUATION-CLASS TESTS	SEMINAR	CREATING AWARENESS	FE
1	I	Archaeology-Meaning-Definition and scope-Archaeology and other Disciplines-Archaeology and History –Archaeology and culture – Archaeology and Environment	5	1	-	1		-	-
2.	II	Epigraphy as source material-Study of Brahmi – Tamil-Nagari-Vatteluthu-Grandha-Selected Inscriptions-Arachur-Puhalur-Meenakshipuram, Annamalai-Kalugumalai-Mandagapattu	5	-	-	-	1	1	-
3.	III	Temple Architecture –Pallavas-Cave temples-Five rathas,Kalugumalai,Vettuvankovil-Pallavas-Pandya Style-Cholas Big Temple,Gngaikonda Cholapuram,Darasuram Temple.	5	1	-	1	1	1	-
4.	IV	Surface Exploration-Methods and Equipments:Objectives,Survey of Pre-History,Proto-Historic and Historical sites-Excavational Equipments-Methods of Excavation-Dating methods:Preservation of Artefacts-Study of Numismatics – Role of Museum.	5	-	-	-	1	-	-
5.	V	Eminent Archaeologists-James Princep-Alexander Cunningham-Robert Bruce Foote-Sir John Marshall-Sir Mortimer Wheeler-Iravatham Mahadevan-K.V.Raman,R.Nagasamy-Functions of Archaeologists	5	1	-	1		1	3(Model Examination)

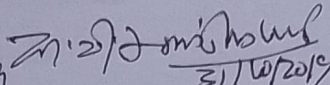
Components of Students' Evaluation for Class Tests:
Test 1 : for 25 marks : Section A [5 X 2 = 10 marks] ; Section B [1 X 5 = 5 marks]; Section C [1X10 = 10 marks] (Unit 2)
Test 2 : for 25 marks : Section A [5X 2 = 10 marks] ; Section B [1 X 5= 5 marks] Section C [1X10 =10 marks] (Unit 4)
Test 3 : for 25 marks : Section A [5 X 2 = 10 marks] ; Section B [1 X 5 = 5 marks]; Section C [1X10 =10 marks] (Unit 5)
Note: The question paper pattern for these three tests may be decided by the teacher concerned and accordingly the details should be given.
Model Examination: 75 marks as per end semester question paper pattern.
Assignment Topic I for 10 marks: -Archaeology and History –Archaeology and culture (Unit I)

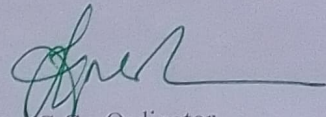
Assignment Topic II for 10 marks: Darasuram Temple (Unit III)

Assignment Topic III for 10 marks: Functions of Archaeologists (Unit V)

Seminar Topics from Unit I,II,V Seminar topics as per the Student's Choice


31.10.2019
Signature of the Staff Member(s)


31/10/2019
Head of the Department


IQAC Co-Ordinator

Co-ordinator
Internal Quality Assurance Cell (IQAC)
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GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF HISTORY

Teaching Plan

Name of the Staff: Mrs.G.SRIVIDYA

Programme: B.A. HISTORY

Academic Year: 2019-2020

Semester: V Semester

Course Code: HSCE08

Course Title: HISTORY OF EUROPE FROM A.D.
1453 TO 1789

Objectives:

- > To understand the meaning of Renaissance and Reformation
- > To know about the Industrial and Agrarian Revolution
- > To understand the Enlightened Despotism

Teaching Methodology	Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]	15 hrs per unit (for 5 units)	75
ICT Enabled Lectures [I]	----	----
Practical Demonstration[P]	----	----
Assignment(A)	1 hour per unit (for 3units)	03
Field visit (FV)	----	----
Group discussion	----	----
Evaluation –Class Tests (CT)	1 hour per unit (for 3 units)	03
Seminar/problem solving/class work(S)	1 hour per unit (for 3units)	03
Creating awareness about the current development (CA)	1 hour per unit(for 3units)	03
Final Evaluation (FE)	3 hrs (Rehearsal)	03
Hrs per week	5	Credit
	5	Total
		90

Hours per week	Total Hours of Instruction
5	90
5	75
4	60
2	30

S.NO	UNIT	TOPICS	LECTURE	ASSIGNMENT	GROUP DISCUSSION	EVALUATION-CLASS TESTS	SEMINAR	CREATING AWARENESS	FE
1	I	Europe in the Middle Ages – Fall of Constantinople- Renaissance- Geographical Discoveries – Reformation – Counter Reformation	5	1	-	-	1	-	-
2.	II	Rise of Nation States – France, England, Germany- Charles V- Industrial Revolution- Agrarian Revolution- Scientific Inventions- Imperialism and Colonialism	5	-	-	1	-	1	
3.	III	Enlightened Despotism in Europe- Louis XIV of France- Frederick, The Great of Prussia- Peter, the Great of Russia- Catherine, the Great	5	-	-	-		1	
4.	IV	Rise of Austria- Maria Theresa- Partition of Poland- Joseph-II- Rise of Sweden- Gustavus Adolphus- Charles XII	5	1	-	1	1	1	
5.	V	Thirty Years War- Treaty of Westphalia- Louis XV- Louis XVI of France Rousseau, Montesquieu, Voltaire- Condition of Europe on the Eve of the French Revolution	5	1	-	1	1	-	3 (Model Examination)

Components of Students' Evaluation for Class Tests:

Test 1 : for 25 marks : Section A [5 X 2 = 10 marks] ; Section B [1 X 5 = 5 marks] ;
Section C [1 X 10 = 10 marks] (Unit 2)

Test 2 : for 25 marks : Section A [5 X 2 = 10 marks] ; Section B [1 X 5 = 5 marks] ; Section C [1 X 10 = 10 marks] (Unit 4)

Test 3 : for 25 marks : Section A [5 X 2 = 10 marks] ; Section B [1 X 5 = 5 marks] ; Section C [1 X 10 = 10 marks] (Unit 5)

Note: The question paper pattern for these three tests may be decided by the teacher concerned and accordingly the details should be given.

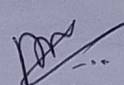
Model Examination: 75 marks as per end semester question paper pattern.

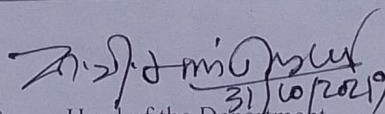
Assignment Topic I for 5 marks: Reformation (Unit I)

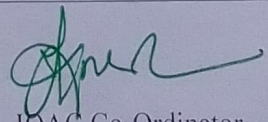
Assignment Topic II for 5 marks: Gustavus Adolphus (Unit IV)

Assignment Topic III for 5 marks: Louis XVI of France (Unit V)

Seminar Topics from Units I, IV, V as per the Students Choice


Signature of the Staff Member(s)


Head of the Department


IQAC Co-Ordinator

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GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM
POST GRADUATE AND RESEARCH DEPARTMENT OF HISTORY

Teaching Plan

Name of the Staff: Mrs.N. Dhanalakshmi

Programme : B.A. HISTORY

Academic Year: 2019-2020

Semester: V semester

Course Code: 18HSC508

Course Title: HISTORY OF WORLD
CIVILIZATIONS ANCIENT
PERIOD(EXCLUDING INDIA)

Objectives:

- > To know about the significance of world civilization.
- > To study about the river valley civilization.

Teaching Methodology		Distribution of hours/Unit	Total Hour of Instructi		
Traditional Chalk and Talk Method [L]		15 hrs per unit (for 5 units)	75		
ICT Enabled Lectures [I]		-----	-----		
Practical Demonstration[P]		-----	-----		
Assignment(A)		1 hour per unit (for 3units)	03		
Field visit (FV)		-----	-----		
Group discussion		-----	-----		
Evaluation -Class Tests (CT)		1 hour per unit (for 3 units)	03		
Seminar/problem solving/class work(S)		1 hour per unit (for 3units)	03		
Creating awareness about the current development (CA)		1 hour per unit(for 3units)	03		
Final Evaluation (FE)		3 hrs (Rehearsal)	03		
Hrs per week	6	Credit	6	Total	90

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

S.N O	UNI T	TOPICS	LECTU RE	ASSIGN MENT	GROUP DISCUSSION	EVALUATI ON-CLASS TESTS	SEMIN AR	CREATING AWARENS S	FE
1	I	Introduction, definition of civilization orgine and growth of civilization pre-historic culture, Paleolithic and Neolithic culture.	5	1	-	-	-	-	-
2.	II	Rivere valley civilization , Egyptian civilization mesopotamian civilization, sumarian, Babylonian, assyrian and Chaldean culture.	5	-	-	1	1	1	
3.	III	Persian civilization, hebrew civilization	5	1	-	-	1	1	
4.	IV	Classical civilization, ancient Greece, legacy of Greece, Hellenistic civilization, ancient rome, roman civilization .	5	-	-	1	1	1	
5.	V	Chinese civilization, maya, Aztec and inca civilizations.	5	1	-	1	-	-	3 (Model Examination)

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF HISTORY

Teaching Plan

Name of the Staff:

Dr.J.V.SANTHAJAYAKUMARI

Programme: M.A.. HISTORY

Academic Year: 2019-2020

Semester: IV semester

Course Code: P18HSC414

Course Title: XIV HISTORIOGRAPHY

Objectives:

- To understand the need for studying History its definition,scope and nature
- To know the contribution of Historians through ages
- To evaluate their approaches in history

Teaching Methodology	Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]	15 hrs per unit (for 5 units)	75
ICT Enabled Lectures [I]	----	----
Practical Demonstration[P]	----	----
Assignment(A)	1 hour per unit (for 3units)	03
Field visit (FV)	----	----
Group discussion	----	----
Evaluation –Class Tests (CT)	1 hour per unit (for 3 units)	03
Seminar/problem solving/class work(S)	1 hour per unit (for 3units)	03
Creating awareness about the current development (CA)	1 hour per unit(for 3units)	03
Final Evaluation (FE)	3 hrs (Rehearsal)	03
Hrs per week	6	Credit
	5	Total
		90

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

S.NO	UNIT	TOPICS	LECTURE	ASSIGNMENT	GROUP DISCUSSION	EVALUATION-CLASS TESTS	SEMINAR	CREATING AWARENESS	FE
1	I	History and Historiography: Meaning, definition, nature, scope and value- Social necessity- Kinds of History- History as a social science – History and its Ancillary fields.	5	1	-	-	1	1	-
2.	II	Practitioners of History- Herodotus, Thucydides, Thomas Aquinas, Ibn Kaldhun, Voltaire, Leopold, Hegel, Karl Marx, James Mill, Smith	5	1	-	1	1		
3.	III	Ancient Medieval and Modern Historiographers- Kalhana, Bana, Bilhana, Alberuni, Abul Fazal, Amirkhusru, Bhandrakar, Sarkar, Panikar, R.C. Dutt	5		-	-	-	1	
4.	IV	Historians of Tamilnadu: KAN sastri, K.K. Pillai, T.V. Mahalingam, S. Krishnaswamy, Sathiyanaatha Iyer, Sadasiva Pndarathar, Venkataswamy, N. Subramanian, K. Rajayyan	5	1	-	1	1	1	
5.	V	Approaches in History: British and Indian Marxists, Annals, Cliometrics, Modernism, Structuralism, Post Modernism and Post Structutalism, Sublatern, Cambridge Historiography and their Interpretation of Indian History	5		-	1	-	-	3 (Model Examination)

Components of Students' Evaluation for Class Tests:

Test 1 : for 25 marks : Section A [5 X 2 = 10 marks] ; Section B [1 X 5 = 5 marks]; Section C [1 X 10 = 10 marks] (Unit 1 & 2)

Test 2 : for 25 marks : Section A [5 X 2 = 10 marks] ; Section B [1 X 5 = 5 marks] Section C [1 X 10 = 10 marks] (Unit 3 & 4)

Test 3 : for 25 marks : Section A [5 X 2 = 10 marks] ; Section B [1 X 5 = 5 marks]; Section C [1 X 10 = 10 marks] (Unit 5)

Note: The question paper pattern for these three tests may be decided by the teacher concerned and accordingly the details should be given.

Model Examination: 75 marks as per end semester question paper pattern.

Assignment Topic I for 10 marks: History and its Ancillary fields. (Unit I)

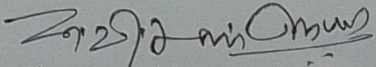
Assignment Topic II for 10 marks: Ibn Kaldhun, Voltaire (Unit II)

Assignment Topic III for 10 marks: Sathiyanaatha Iyer, (Unit IV)

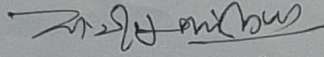
Seminar Topics from Unit I- History as a social science

Unit II - Herodotus, Thucydides, Thomas Aquinas

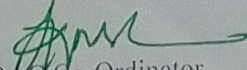
Unit IV - Sadasiva Pndarathar, Venkataswamy, N. Subramanian K. Rajayyan



Signature of the Staff Member(s)



Head of the Department



IQAC Co-ordinator

Co-ordinator

Internal Quality Assurance Cell (IQAC)

Govt. College for Women (A)

Kumbakonam- 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF HISTORY

Teaching Plan

Name of the Staff: Dr.S.ANUSUYA

Programme: M.A.. HISTORY

Academic Year: 2019-2020

Semester: II semester

Course Code: P18HSC206

Course Title: SOCIO-ECONOMIC AND CULTURAL HISTORY OF TAMILNADU FROM AD 1800 TO 2000 A.D

Objectives:

- To understand the Economic Conditions
- To know the Development of Western Education
- To evaluate the Social Reformers and their contribution to the Society

Teaching Methodology	Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]	15 hrs per unit (for 5 units)	75
ICT Enabled Lectures [I]	----	----
Practical Demonstration[P]	----	----
Assignment(A)	1 hour per unit (for 3units)	03
Field visit (FV)	----	----
Group discussion	----	----
Evaluation –Class Tests (CT)	1 hour per unit (for 3 units)	03
Seminar/problem solving/class work(S)	1 hour per unit (for 3units)	03
Creating awareness about the current development (CA)	1 hour per unit(for 3units)	03
Final Evaluation (FE)	3 hrs (Rehearsal)	03
Hrs per week	6	Credit
	5	Total
		90

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

S.NO	UNIT	TOPICS	LECTURE	ASSIGNMENT	GROUP DISCUSSION	EVALUATION-CLASS TESTS	SEMINAR	CREATING AWARENESS	FE
1	I	Sources-Social Conditions-Caste System in the 19 th Century – Position of Women –Sati-Child Marriage-Devadasi System-Infanticide – Religion:Saivism-Vaishnavism-Christianity-Islam	5	-	-	1	-	-	-
2.	II	Land System:Zamindari-Ryotwari-General Economic Conditions-Agriculture and Industry	5	-	-	-	1	1	-
3.	III	Indigenous Institutions of Learning-Introduction of Western Education – Missionary and Government Education –Professional and Technical Education-Female Education-Growth of Higher Education	5	1	-	1	1	1	-
4.	IV	Socio-Religious Movements-Vaikunta Swamigal,Vallalar-Theosophical Society-Ramakrishna Mission-Non-Brahmin Movement-Periyar-E.V.R and Self Respect Movements-Temple Entry-Dalit Movements	5	1	-	-	1	-	-
5.	V	Contemporary Tamilnadu : Agrarian and Industrial Development-Social Welfare Measures under Congress D.M.K,A.I.A.D.M.K Regimes – Improvement of Weaker Sections-Scheduled Caste,Tribes and Women Empowerment	5	1	-	1	-	1	3(Model Examination)

Components of Students' Evaluation for Class Tests:

Test 1 : for 25 marks : Section A [5 X 2 = 10 marks] ; Section B [1 X 5 = 5 marks]; Section C [1X10 = 10 marks] (Unit 1)

Test 2 : for 25 marks : Section A [5X 2 = 10 marks] ; Section B [1 X 5= 5 marks] Section C [1X10 =10 marks] (Unit 3)

Test 3 : for 25 marks : Section A [5 X 2 = 10 marks] ; Section B [1 X 5 = 5 marks]; Section C [1X10 =10 marks] (Unit 5)

Note: The question paper pattern for these three tests may be decided by the teacher concerned and accordingly the details should be given.

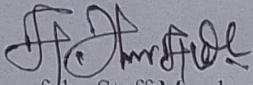
Model Examination: 75 marks as per end semester question paper pattern.

Assignment Topic I for 10 marks: Introduction of Western Education (Unit III)

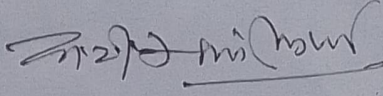
Assignment Topic II for 10 marks: Non-Brahmin Movement (Unit IV)

Assignment Topic III for 10 marks: Agrarian and Industrial Development (Unit V)

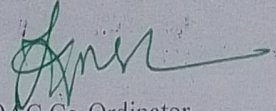
Seminar Topics from Unit II,III,IV Seminar topics as per the Student's Choice



Signature of the Staff Member(s)



Head of the Department



IQAC Co-Ordinator
Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam-612 001

Teaching Plan

Name of the Staff: Mrs.G.SRIVIDYA

Programme: B.A. HISTORY

Academic Year: 2019-2020

Semester: VI semester

Course Code: HSFEC4

Course Title: MBEC II JOURNALISM

Objectives:

- To understand the meaning of Journalism
- To know the history of Press
- To understand the News agencies

Teaching Methodology	Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]	15 hrs per unit (for 5 units)	75
ICT Enabled Lectures [I]	----	----
Practical Demonstration[P]	----	----
Assignment(A)	1 hour per unit (for 3units)	03
Field visit (FV)	----	----
Group discussion	----	----
Evaluation –Class Tests (CT)	1 hour per unit (for 3 units)	03
Seminar/problem solving/class work(S)	1 hour per unit (for 3units)	03
Creating awareness about the current development (CA)	1 hour per unit(for 3units)	03
Final Evaluation (FE)	3 hrs (Rehearsal)	03
Hrs per week	6	Credit
	5	Total
		90

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

S.NO	UNIT	TOPICS	LECTURE	ASSIGNMENT	GROUP DISCUSSION	EVALUATION-CLASS TESTS	SEMINAR	CREATING AWARENESS	FE
1	I	Introduction to Journalism-Impact of Massmedia- Development of Journalism -History of Tamil Journalism	5	1	-	-	-	-	-
2.	II	Reporting-Kinds of News-News value-Reporters-Beat-News Agencies-Reporting of Public Meeting,crime and Sports	5	-	-	1	1	1	-
3.	III	Editing – Use of Editing Marks-Functions and Qualifications of the Editor-Sub-Editors-Inverted Pyramid form of Writing-Page makeup-headline –Lead-Feature-Editorial-Letters to the Editor	5	1	-	-	1	1	-
4.	IV	Rotary- Letter Press-Offset Printing-Role of Computers and Communication Techniques – Structure and Functioning ofNewspaper Office-Advertisement	5	-	-	1	1	1	-
5.	V	Indian Press Laws –Defamation-Contempt of Court-Indian Constitution and Press Freedom – Press Council –Prachar bharathi-Investigative Journalism	5	1	-	1	-	-	3(Model Examination)

Components of Students' Evaluation for Class Tests:

Test 1 : for 25 marks : Section A [5 X 2 = 10 marks] ; Section B [1 X 5 = 5 marks];
Section C [1X10 = 10 marks] (Unit 2)

Test 2 : for 25 marks : Section A [5X 2 = 10 marks] ; Section B [1 X 5= 5 marks] Section C [1X10 =10 marks] (Unit 4)

Test 3 : for 25 marks : Section A [5 X 2 = 10 marks] ; Section B [1 X 5 = 5 marks]; Section C [1X10 =10 marks] (Unit 5)

Note: The question paper pattern for these three tests may be decided by the teacher concerned and accordingly the details should be given.

Model Examination: 75 marks as per end semester question paper pattern.

Assignment Topic I for 5 marks: History of Tamil Journalism(Unit I)

Assignment Topic II for 5 marks: Page makeup-headline –Lead-Feature(Unit III)

Assignment Topic III for 5 marks: Prachar bharathi-Investigative Journalism (Unit V)

Seminar Topics from Units II,III,IV as per the Students Choice

Signature of the Staff Member(s)

Head of the Department

IQAC Co-Ordinator

Co-ordinator
Internal Quality Assurance Cell (IQAC)
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