

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

2018-2019

2018-2019 .
பாடத்திட்டஅமைவு (EVEN)

பெயர்:முனைவர் ப.கோடித்துரை

வருடம்: 2018-2019

வகுப்பு: இளங்கலை முதலாமாண்டு

தாள் குறியீடு :TLBA3

பருவம்: இரண்டாம் பருவம்

தாள்: இணையமும் தமிழும்

நோக்கம்:அறிவியல் தமிழ் இணையத் தமிழ் கணினித் தமிழ் எனத் தமிழ் மொழியின் வளர்ச்சியினையும் தமிழின் பண்முகப் பரிமாணங்களையும் மாணவர்கள் தெரிந்துகொள்வதே நோக்கமாகும்.

வ.எண்	பயிற்றும் முறைகள்	வகுப்புப் பங்கீடு(அலகு)	மொத்தம்
1	கரும்பலகையின் வழி Chak& Talk	அலகுவாரியாக12மணி நேரம்	60
2	வரைபடம் புலனம் வழி	தேவையானஅலகிற்கு	03
3	வகுப்புத்தேர்வுவாய்மொழி,எழுத்துவழி	5தேர்வு 5 அலகு	05
4	கருத்தரங்கம் ,கலந்துரையாடல்	5 அலகு (1 வகுப்பு நேரம்)	05
5	இறுதிமதிப்பீடுதிருப்புதல் தேர்வு Per week credit 3	02	02
		மொத்தம்	75

வ.எண்	வாரவாரியானவகுப்பு	பயிற்றுவகுப்புகள்- மொத்தம்
1	05	75

பாடத்திட்டம்பயிற்றுமுறைமதிப்பிடும் முறை

வ.எண்	அலகுவாரியாக	வகுப்பு	வரைபடம்	தேர்வு	கருத்தரங்கம்	திருப்புதல் தேர்வு
1	<p>கணிப்பொறி அறிமுகம் -</p> <p>கணிப்பொறியின் வரலாறு வளர்ச்சி குணங்கள் -</p> <p>கணிப்பொறியின் அமைப்பு வகைகள் - நுண் கணிப்பொறி வன்பொருள் -</p> <p>மென்பொருள் உள்ளீட்டுக் கருவி வெளியீட்டுக் கருவி -</p> <p>இயக்குதளம், தமிழ் கணினி இணையப் பயன்பாடுகள்.</p>	04 04 04	---	01	01	---
2	<p>கணினியில் தமிழும் -</p> <p>தமிழ் மென்பொருள் -</p> <p>விசைப்பலகை தமிழில் மின்னஞ்சல்-எழுத்துருக்கள் (மயிலை, அழகி, செல்லினம்) தமிழ்ச்சொற்பொருள் திருத்தி (பொன்மொழி, பொன்சொல், வானி எழுத்து, பிழை திருத்தி) சந்திப்பிழை திருத்தி (நாவி, பொன்மொழி) தமிழ் மின் அகராதி மென்பொருள் (குறள்) சொற்செயல் எழுத்துணரி தமிழ் பிரெய்லி எழுத்துப்பேச்சு மாற்றியாப்புணரி</p>	03 04 05	01	01	01	01
3	<p>தமிழ் இணையம் -</p> <p>இணையம் அறிமுகம் -</p> <p>கணினி இணையத்தில் தமிழ் - தமிழ்</p> <p>இணையமாநாடு தமிழ்</p> <p>கணினி மொழியியல் -</p> <p>இணையத்தமிழ்</p> <p>பங்களிப்பாளர்கள் -</p> <p>கணினித்தமிழ் விருதுகள்.</p>	03 03 03 03	01	01	01	---

4	மின் அஞ்சல் - தமிழ் வலைப்பூக்கள் - வலைப்பூக்கள்- உருவாக்கம்- வலைப்பதிவுகள்- திரட்டிகள்- தமிழ்எழுத்துபதிவிறக்கம் செய்தல் - தமிழ் எழுத்துருமாற்றம் - தமிழ் மின்னஞ்சல் நூலகம் -மின் நூல்கள்.	04 04 04	01	01	01	---
5	மின்னூல் உருவாக்கம் - மின் மொழிபெயர்ப்புகள் தமிழ் விக்கிபீடியா'சமூகஊடகங்க ள் ஸ்கைப் தமிழ் குறுஞ்செய்திகற்றல் கற்பித்தலில் தொழில் நுட்பப்பங்கு	04 04 04	---	01	01	01
		60	03	05	05	02

தேர்வுவிபரம்

தேர்வு: 5 தேர்வுகள்

25 மதிப்பெண்கள்

பிரிவு அ: 10X1=10


பிரிவு ஆ: 1X5=05

பிரிவு இ: 1X10=10

25


Incharge Staff


Hod


Iqac Coordinator

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

2018-2019 (ODD SEM)

பெயர்: முனைவர் மு.வசந்தராஜேவி

பாடத்திட்ட அமைவு

வருடம்: 2018-2019

வகுப்பு: இளங்கலைமுதலாமாண்டு

தாள் குறியீடு : TLCA02

பருவம் : முதல் பருவம்

தாள்: சிற்றிலக்கியம்

நோக்கம்: சிற்றிலக்கிய வகையை உணரச்செய்தல் வழக்கு சொல்லாட்சி அறிதல்

வ.எண்	பயிற்றும் முறைகள்	வகுப்புப் பங்கீடு (அலகு)	மொத்தம்
1	கரும்பலகையின் வழி Chak& Talk	அலகுவாரியாக 13 மணிநேரம்	65
2	வரைபடம் புலனம் வழி	தேவையான அலகிற்கு	01
3	வகுப்புத்தேர்வு, வாய்மொழி, எழுத்துவழி	5 தேர்வு 5 அலகு	05
4	கருத்தரங்கம் கலந்துரையாடல்	5 அலகுகள் (1வகுப்பு நேரம்)	02
5	இறுதிமதிப்பீடு திருப்புதல் தேர்வு	02	02
	Per week credit 4	மொத்தம்	75

வ.எண்	வாரவாரியான வகுப்பு	பயிற்றுவகுப்புகள் - மொத்தம்
1	05	75

பாடத்திட்டம்,பயிற்றுமுறை மதிப்பிடும் முறை

வ.எண்	அலகுவாரியாக	வகுப்பு	வரைபடம்	தேர்வு	கருத்தரங்கம்	திருப்புதல் தேர்வு
1	பிள்ளைத்தமிழ் அறிமுகம் இலக்கணம் வகைகள் சிறப்பு	01 02 01 09	---	01	---	---
2	தூது ஆழகர் கிள்ளைவிடு தூது சிறப்பு- கிளி- தகுதி- அழகர் - திருவிழாநந்திக் கலம்பகம் - வீரம் - போர்	05 05 03	01	01	01	---
3	பரணி - சதகம் இந்திரசாலம் இராசபாரம்பரியம் சோழமண்டலசதகம்	03 03 03 04	01	01	01	---
4	குறும்,அந்தாதி மீனாட்சியம்மைகுறும் சரசுவதிஅந்தாதி	09 06	---	01	01	01
5	குறவஞ்சிஅறிமுகம் திருக்குறறாலகுறவஞ்சிசிறப்பு - மலைவளம்	02 11	---	01	01	01
		60	02	05	04	02

தேர்வுவிபரம்

தேர்வு: 5 தேர்வுகள்

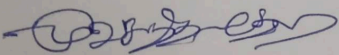
25 மதிப்பெண்கள்

பிரிவு அ: 10X1=10


பிரிவு ஆ: 1X5=05

பிரிவு இ: 1X10=10

25


Incharge Staff


Hod


Iqac Coordinator

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

DEPARTMENT OF ENGLISH

Teaching Plan

Name(s) of the Staff: P.NITHYA

Programme: I B.A, English Literature shift- II

Academic Year:

2018-2019

Semester: I Semester

Course Code: ELAA1

Course Title: Social History of England

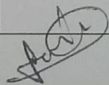
Objectives:

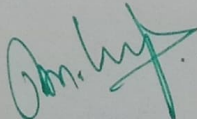
- To provide the students with a basic knowledge of the political and social history of England with reference to important incidents and movements in English history.

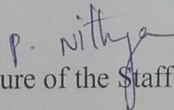
Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		15 hours per unit (for 3 units)	45
Text Book Assignment		1 hour per unit(for 3 units)	03
Evaluation –Class Tests (CT)		1 test per unit(for 3 units)	03
Seminar/problem solving/class work(S)		1 hour per unit(for3 units)	03
Group Discussion		1 hour per unit(for3 units)	03
Final Evaluation (FE)		3 hours (Rehearsal)	03
Hours per week	4	Credit	4
		Total	60

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	8	Tudor England-The Renaissance& the Reformation	L			
2	7	Age of the Stuarts-The Civil War	L			
Unit-II						
3	5	Restoration England	L			
4	5	The Age of Queen Anne	L			
5	5	The Agrarian Revolution	L			
Unit – III						
6	5	The Industrial Revolution	L			
7	5	The Effect of French Revolution	L			
8	5	The War of American Independence	L			
Seminar						
1	3	UNIT-I,UNIT-II&UNIT-III			S	
Class Test						
1	3	UNIT-I,UNIT-II&UNIT-III		CT		
Text Book Assignment						
1	3	UNIT-I,UNIT-II&UNIT-III		C W		
Group Discussion						
1	3	UNIT-I,UNIT-II&UNIT-III		C W		
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(s)

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF ENGLISH

Teaching Plan

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

Programme: I M.A ENGLISH

Academic Year:

2018-2019

Semester: I semester

Course Code: P18ELC103

Course Title: MODERN LITERATURE - II

Objectives:

To expose students a wide range of literary texts, literary history and literary criticism

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	
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	4	Plato : The Republic	L			
2	5	Aristotle: On Poetics	L			
3	3	Horace : The Art of Poetry	L			
4	3	Longinus : On the Sublime	L			
Unit-II						
5	15	Apology For Poetry	L			
Unit - III						
6	7	John Dryden : An Essay on Dramatic Poesie	L			
7	8	Dr.Johnson : Preface to Shakespeare	L			
Unit - IV						
8	8	William Wordsworth : Preface to the Lyrical Ballads	L			
9	7	S.T.Coleridge : Biographia Literaria (Chapter iv)	L			
Unit - V						
10	5	Matthew Arnold : The Study of Poetry	L			
11	5	T.S.Eliot : Traditional and the Individual Talent	L			

Seminar						
1	1	UNIT-I Longinus : On the Sublime			S	
2	1	UNIT-II Sidney's Apology for Poetry Summary			S	
3	1	UNIT-III An Essay of Dramatic Poetry summary			S	
4	1	Preface to Lyrical Ballads Summary			S	
5	1	UNIT-V The Study of Poetry Summary			S	
Class Test						
1	5	UNIT I-UNIT V		CT		
Final Evaluation (FE)						
1	5	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 ENGLISH

Teaching Plan

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

Programme: II M.A ENGLISH

Academic Year:

2018-2019

Semester: III semester

Course Code: PELCC09

Course Title: DIASPORIC LITERATURE

Objectives:

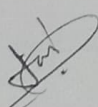
To expose students a wide range of literary texts, literary history and literary criticism

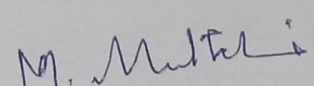
Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction	
Traditional Chalk and Talk Method [L]		15 hrs per unit (for 5 units)		75	
Evaluation -Class Tests (CT)		1 hrs (for 5 units)		05	
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)		05	
Final Evaluation (FE)		5 hrs (Rehearsal)		05	
Hrs per week	6	Credit	5	Total	90

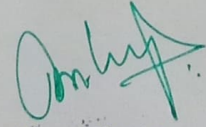
Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I						
1	4	Plato : The Republic	L			
2	5	Aristotle: On Poetics	L			
3	3	Horace : The Art of Poetry	L			
4	3	Longinus : On the Sublime	L			
Unit-II						
5	15	Apology For Poetry	L			
Unit - III						
6	7	John Dryden : An Essay on Dramatic Poesie	L			
7	8	Dr.Johnson : Preface to Shakespeare	L			
Unit - IV						
8	8	William Wordsworth : Preface to the Lyrical Ballads	L			
9	7	S.T.Coleridge : Biographia Literaria (Chapter iv)	L			
Unit - V						
10	5	Matthew Arnold : The Study of Poetry	L			
11	5	T.S.Eliot : Traditional and the Individual Talent	L			

Seminar						
1	1	UNIT-I Longinus : On the Sublime			S	
2	1	UNIT-II Sidney's Apology for Poetry Summary			S	
3	1	UNIT-III An Essay of Dramatic Poetry summary			S	
4	1	Preface to Lyrical Ballads Summary			S	
5	1	UNIT-V The Study of Poetry Summary			S	
Class Test						
1	5	UNIT I-UNIT V			CT	
Final Evaluation (FE)						
1	5	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

Teaching Plan

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

Programme: B.A English

Academic Year: 2018 -2019

Semester: III Semester

Course Code: ELCA4

Course Title: History of English Literature II

Objectives:

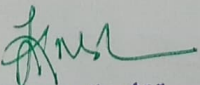
To make students understand the impact of literary movements on social political and religious conditions of England.

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction		
Traditional Chalk and Talk Method [L]		10 hrs per unit (for 5 units)	50		
Evaluation –Class Tests (CT)		2 hr per unit (for 5 units)	10		
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)	05		
Group discussion		1 hr per unit for 5 units	05		
Final Evaluation (FE)		1 hrs (Rehearsal)	05		
Hrs per week	5	Credit	4	Total	75

SL.N O	HOU R	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
UNIT -I:						
1	10	The Age of Wordsworth	L			
UNIT - II:						
2	10	The Age of Tennyson	L			
		The Older Poets	L			
UNIT - III						
3	10	The Age of Hardy	L			
UNIT - IV						
4	5	The Modern Age	L			
5	5	20 th Century Novelists	L			
UNIT V						
6	10	Introduction to Post – modern British Literature	L			
Seminar						
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	10	UNIT I-UNIT V		CT		
Final Evaluation (FE)						
1	10	Entire course				FE

Head of the Department

Signature of the Staff Member(s)


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

GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) - KUMBAKONAM

DEPARTMENT OF ENGLISH

Teaching Plan

Name(s) of the Staff: P.NITHYA

Programme: III B.A, ENGLISH LITERATURE Academic Year: 2018-2019
 SHIFT-2

Semester: VI Semester Course Code:ELCF12

Course Title: Women's Writing in English.

Objectives:

- To introduce students about women writers and their works.
- To enable students to learn values of literatures of different nations.

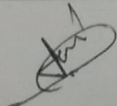
Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		13hours per unit (for 5 units)	65
Group discussion		1hour per unit (for 5units)	05
Evaluation –Class Tests (CT)		1 test per unit	05
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)	05
Assignments / peer partner learning / Dramatization (plays, skits, etc) Role playing		1 hour per unit(for 1,2,3 units) 2 hours for units 4,5	07
Final Evaluation (FE)		3 hours (Rehearsal)	03
Hours per week	6	Credit 5	Total 90

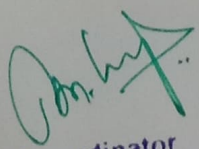
Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

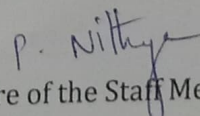
S.NO	HOURS	UNIT –CONTENT	MODE OF TEACHING
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			L	CT	S/A	FE
Unit-I						
1	6	Kathrine Mansfield : Country Women. Introduction Line by line explanation Critical Appreciation of the poem Theme of the poem Conclusion	L			
2.		Kamala Markandaya: A Silence of Desire. Introduction Line by line explanation Critical Appreciation of the poem Theme of the poem Conclusion.				
3	7	Maya Angelou: Women Work. Introduction Line by line explanation Critical Appreciation of the poem Theme of the poem Conclusion.	L			
4		Uma Parameswaran : For Reetika Introduction Line by line explanation Critical Appreciation of the poem Theme of the poem Conclusion				
Unit-II						
5	6	Shashi Deshpande : Craft as a Novelist. Introduction Line by line explanation Critical Appreciation of the poem Theme of the poem Conclusion. Genny Lim : Winter Place. Introduction Line by line explanation Critical Appreciation of the poem Theme of the poem Conclusion	L			

6.	7	Rong Rong : Cliche. Introduction Line by line explanation Critical Appreciation of the poem Theme of the poem Conclusion.	L				
Unit-III							
5	13	Prose Virginia Woolf : A Room of one's own.	L				
Unit-IV							
6	13	One Act Play Alice Gerstenberg : Overtones. Short Story Katherine Susannah Prichard : Grey House.	L				
Unit-V							
7	13	Novel Nayantara Sahgal : The Day in Shadow. Doris Lessing : The Grass is Singing.	L				
1	7	Assignment UNIT-I to UNIT- V				A	
Seminar & Group Discussion							
1	10	UNIT-I to UNIT- V				S	
Class Test							
1	6	UNIT-I to UNIT-V			CT		
Final Evaluation (FE)							
1	3	Entire course					FE


Head of the Department


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


Signature of the Staff Member(s)

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

DEPARTMENT OF ENGLISH

Teaching Plan

Name(s) of the Staff: C.TAMILARASI

Programme: II M.A English Literature

Academic Year:

2018-2019

Semester: IV semester

Course Code: P18ELC413

Course Title: Translation: Theory and Practice.

Objectives: To enhance the employability of the learners as translators

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 2 units)	02		
Field visit (FV)		-----	----		
Group discussion					
Evaluation -Class Tests (CT)		5 test per unit	05		
Seminar/problem solving/class work(S)		2 hour per unit(for 5 units)	10		
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	13	A Brief History of Translation and Translation Theory, Aspects of Translation Theory	L			
Unit-II						
2	15	Types of Translation Procedure, Communicative and Semantic Translation	L			
Unit – III						
03	13	Translation Procedures, Translation Process and Synonymy, Translation and the Meta Lingual Function of Translation	L			
Unit – IV						
04	13	Linguistics and Translation, Theories of Translation, Equivalence in Translation, Problems in Translation – Untranslatability	L			
Unit – V						
04	13	Translation Practice in Tamil and English – Proverbs and Prose Passages	L			
Seminar						
1	2	UNIT-I Aspects of Translation Theory			S	
2	2	UNIT-II Communicative and Semantic Translation			S	
3	2	UNIT-III Translation Process and Synonymy			S	

4	2	UNIT - IV Untranslatability			S	
5	2	UNIT - V Proverbs and Prose Passages			S	
Class Test						
1	5	UNIT I- & UNIT V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE



Head of the Department

C. Thamilmani
Signature of the Staff Member(s)

Amal...
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: S. Bhuvaneshwari

Programme: II B. A History T/m&E/m

Academic Year: 2018-2019

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

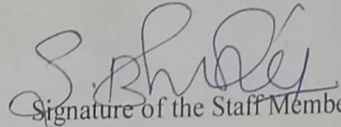
Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

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						

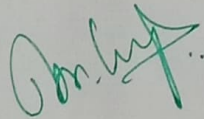
1	5	UNIT-V - Essay Writing (Current Affairs)		C		
				W		
Dramatization(Play, Skits etc.)						
1	2	UNIT-III Only		C		
				W		
Final Evaluation (FE)						
1	3	Entire course				FE



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 (A), KUMBAKONAM
POST GRADUATE AND RESEARCH DEPARTMENT OF MATHEMATICS

Teaching Plan

Name(s) of the Staff: Mrs.P.Latha

Programme: III B.S.C., MATHEMATICS(T.M)

Academic Year:

2018-2019

Semester: vi semester

Course Code: 17MC613

Course Title: Dynamics

Objectives:

- 1.To expose a basic knowledge about the Coplanar Motion, Newton's Laws of Motion.
2. To provide a knowledge about projectiles, simple Harmonic motion and Conservation of linear momentum

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		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						
1	2	Introduction	L			
2	3	Kinematics	L			
3	3	Relative velocity	L			
4	3	Acceleration	L			
5	2	Newton law of motion	L			
Unit-II						
6	2	Simple Harmonic motion	L			
7	3	Simple pendulum	L			
8	3	projectile	L			
9	3	Projectile Time of flight, range, Maximum height	L			
10	2	Projectile up/down an inclined plane.	L			
Unit - III						
12	2	Impulsive force	L			
13	2	Conservation of linear momentum	L			
14	2	Impact of a sphere and a plane	L			
15	3	Direct and Oblique Impact of two smooth spheres	L			
16	2	Kinetic energy	L			
17	2	impulse.	L			
Unit - IV						
18	2	Central Orbit	L			
19	3	Central force	L			
20	2	central orbit in polar and p-r coordinates	L			
21	3	Given the central orbit to find the law of force	L			

22	3	Kepler's Laws of Planetary motion	L			
Unit - V						
23	3	Moment of Inertia of simple bodies	L			
24	3	Theorem of Parallel and Perpendicular axes	L			
25	2	Motion in two dimension	L			
26	2	Equation of motion	L			
27	3	Two dimensional motion.	L			
Seminar						
1	1	UNIT-I Tangent and Normal theorem, Varignon's Theorem			S	
2	1	UNIT-II The path of projectile is a parabola book work			S	
3	1	UNIT -III Direct impact and oblique impact			S	
4	1	UNIT - IV Central orbit theorem and pedal equation			S	
5	1	UNIT-V Parallel axis and perpendicular axis theorem			S	
Class Test						
1	5	UNIT I - UNIT V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE

S. Rajkumari
Head of the Department

P. [Signature]
Signature of the Staff Member(s)

[Signature]
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 MATHEMATICS

Teaching Plan

Name(s) of the Staff: Mrs. G.Vembarasi

Programme: III B.Sc MATHEMATICS (T.M)

Academic Year:

2018-2019

Semester: VI semester

Course Code: 17MC611

Course Title: Complex Analysis

Objectives:

1. To introduce the theory of complex variable which is different from analysis of real variable.
2. To learn the properties of complex valued function defined on the set of Complex numbers.
3. To introduce the concept of complex integration and its properties.

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						
1	2	Functions of a complex variable	L			
2	3	Limits – Theorems on Limits	L			
3	3	Continuous functions – Differentiability	L			
4	3	Cauchy – Riemann equations	L			
5	2	Analytic functions – Harmonic functions.	L			
Unit-II						
6	2	Elementary transformations	L			
7	3	Bilinear transformations	L			
8	3	Cross ratio	L			
9	3	Fixed points of Bilinear transformations	L			
10	2	Some special bilinear transformations	L			
Unit – III						
12	2	Complex integration	L			
13	2	Definite integral	L			
14	2	Cauchy's theorem	L			
15	3	Cauchy's integral formula	L			
16	2	Higher derivatives	L			
17	2	Application of problems	L			
Unit – IV Finite – Dimensional Spectral Theory						
18	2	Series expansions	L			
19	3	Taylor's series	L			
20	2	Laurent's series	L			
21	3	Zeros of analytical functions	L			

22	3	Singularities	L				
Unit - V							
23	3	Residues	L				
24	3	Cauchy's Residue theorem	L				
25	2	Evaluation of definite integrals – Type -I	L				
26	2	Type - II	L				
27	3	Type -III	L				
Seminar							
1	1	UNIT-I Analytic functions – Harmonic functions				S	
2	1	UNIT-II Fixed points of Bilinear transformations				S	
3	1	UNIT -III Higher Derivatives				S	
4	1	UNIT - IV Zeros of analytical functions				S	
5	1	UNIT-V Type -III				S	
Class Test							
1	5	UNIT I - UNIT V			CT		
Final Evaluation (FE)							
1	3	Entire course					FE

S. Rajkumari
Head of the Department

[Signature]
Signature of the Staff Member(s)

[Signature]
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 MATHEMATICS

Teaching Plan

Name(s) of the Staff: Mrs. J.Indira

Programme: I M.Sc MATHEMATICS

Academic Year:

2018-2019

Semester: III semester

Course Code: P21MC208

Course Title: **Partial Differential Equations**

Objectives:

1. To give an in-depth knowledge of solving partial differential equations.
2. To introduce different types of second order partial differential equations.
3. The problem arising in physical phenomena widely involve partial differential equations (PDES).

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						
1	2	First order P.D.E	L			
2	3	Curves and Surfaces	L			
3	3	Genesis of First order P.D.E	L			
4	3	Classification of Integrals	L			
5	2	Linear Equation of the First Order	L			
Unit-II						
6	2	Pfaffian Differential Equations	L			
7	3	Compatible Systems	L			
8	3	Charpit's Method	L			
9	3	Jacobi's Method	L			
10	2	Integral surfaces through a given curve	L			
Unit – III						
12	2	Second order P.D.E: Genesis of second order P.D.E	L			
13	2	– Classification of second order P.D.E. One - Dimensional wave Equatio	L			
14	2	Vibrations of an Infinite string	L			
15	3	Vibrations of a semi – Infinite string	L			
16	2	Vibrations of string of finite length	L			
17	2	Vibrations of string of finite length and simple problems	L			
Unit – IV Linear Integral Equations						
18	2	Vibrations of a string of finite Length (Method of separation of variables) Laplace's Equation	L			

19	3	Boundary value problems	L			
20	2	Maximum and Minimum principles	L			
21	3	The Cauchy problem – The Dirichlet problem for the upper Half plane	L			
22	3	The Neumann problem for the upper Half plane	L			
Unit - V						
23	3	The Dirichlet interior problem for a circle	L			
24	3	The Dirichlet Exterior problem for a circle	L			
25	2	The Neumann problem for a circle	L			
26	2	The Dirichlet problem for a Rectangle	L			
27	3	Harnack's Theorem – Laplace's Equation – Green's Function	L			
Seminar						
1	1	UNIT-I Classification of Integrals			S	
2	1	UNIT-II Jacobi's Method			S	
3	1	UNIT –III Vibrations of a semi – Infinite string			S	
4	1	UNIT – IV Maximum and Minimum principles			S	
5	1	UNIT-V The Dirichlet problem for a Rectangle			S	
Class Test						
1	5	UNIT I - UNIT V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE

S. Rajkumari
Head of the Department

[Signature]

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

[Signature]
Signature of the Staff Member(s)



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

Teaching Plan

Name(s) of the Staff: Mrs.P.Latha

Programme: III B.SC., MATHEMATICS(T.M)

Academic Year: 2018-2019

Semester: vi semester

Course Code: 17MC613

Course Title: Dynamics

Objectives:

1. To expose a basic knowledge about the Coplanar Motion, Newton's Laws of Motion.
2. To provide a knowledge about projectiles, simple Harmonic motion and Conservation of linear momentum

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		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						
1	2	Introduction				
2	3	Kinematics	L			
3	3	Relative velocity	L			
4	3	Acceleration	L			
5	2	Newton law of motion	L			
Unit-II						
6	2	Simple Harmonic motion	L			
7	3	Simple pendulum	L			
8	3	projectile	L			
9	3	Projectile Time of flight, range, Maximum height	L			
10	2	Projectile up/down an inclined plane.	L			
Unit - III						
12	2	Impulsive force	L			
13	2	Conservation of linear momentum	L			
14	2	Impact of a sphere and a plane	L			
15	3	Direct and Oblique Impact of two smooth spheres	L			
16	2	Kinetic energy	L			
17	2	impulse.	L			
Unit - IV						
18	2	Central Orbit	L			
19	3	Central force	L			
20	2	central orbit in polar and p-r coordinates	L			
21	3	Given the central orbit to find the law of force	L			

22	3	Kepler's Laws of Planetary motion	L			
Unit - V						
23	3	Moment of Inertia of simple bodies	L			
24	3	Theorem of Parallel and Perpendicular axes	L			
25	2	Motion in two dimension	L			
26	2	Equation of motion	L			
27	3	Two dimensional motion.	L			
Seminar						
1	1	UNIT-I Tangent and Normal theorem, Varignon's Theorem			S	
2	1	UNIT-II The path of projectile is a parabola book work			S	
3	1	UNIT -III Direct impact and oblique impact			S	
4	1	UNIT - IV Central orbit theorem and pedal equation			S	
5	1	UNIT-V Parallel axis and perpendicular axis theorem			S	
Class Test						
1	5	UNIT I - UNIT V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE

S. Rajkumar
Head of the Department

P. [Signature]
Signature of the Staff Member(s)

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Co-ordinator
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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.S.Raikumari

Programme: I M.Sc MATHEMATICS

Academic Year:

2018-2019

Semester: I semester

Course Code: P17MC101

Course Title: Linear Algebra

Objectives:

1. To study Linear Transformations and its properties
2. To study the Algebra of Polynomials and Annihilating Polynomials
3. To study Invariant space and its properties

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			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						
1	2	Introduction and Basic Definition The definition and some examples	L			
2	3	Systems of linear Equations – Matrices and Elementary Row operations	L			
3	3	Row -Reduced Echelon matrices	L			
4	3	Matrix multiplication – Invertible matrices - Vector spaces	L			
5	2	Subspaces –Bases and Dimension – Co-ordinates.	L			
Unit-II						
6	2	The algebra of linear transformations	L			
7	3	Isomorphism of vector spaces	L			
8	3	Representations of Linear Transformations by Matrices.	L			
9	3	Linear functional – The Double Dual	L			
10	2	The Transpose of Linear Transformation	L			
Unit – III						
12	2	The algebra of polynomials	L			
13	2	Lagrange Interpolation – Polynomial Ideals	L			
14	2	The prime factorization of a polynomial, Commutative rings	L			
15	3	Determinant functions	L			
16	2	permutations and the uniqueness of determinants	L			
17	2	Additional properties of Determinants	L			
Unit – IV						

18	2	Characteristic values	L			
19	3	Annihilating polynomials, Invariant subspaces	L			
20	2	simultaneous triangulation and simultaneous Diagonalization	L			
21	3	Direct- sum	L			
22	3	Decompositions	L			
Unit - V						
23	3	Invariant Direct sums	L			
24	3	The primary Decomposition Theorem	L			
25	2	Cyclic subspaces	L			
26	2	Cyclic Decompositions	L			
27	3	the Rational Form	L			
Seminar						
1	1	UNIT-I Row -Reduced Echelon matrices			S	
2	1	UNIT-II The Transpose of Linear Transformation			S	
3	1	UNIT -III Determinant functions			S	
4	1	UNIT - IV Annihilating polynomials, Invariant subspaces			S	
5	1	UNIT-V Cyclic Decompositions			S	
Class Test						
1	5	UNIT I - UNIT V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE

S. Rajkumari
Head of the Department

S. Rajkumari
Signature of the Staff Member(s)

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



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

Teaching Plan

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

Programme: B.SC., MATHEMATICS(E.M)

Academic Year:

2018-2019

Semester: v semester

Course Code: 17MC507

Course Title: **ABSTRACT ALGEBRA**

Objectives:

1. To study the various algebraic structures of Mathematics including sets, groups.
2. To develop the Rings, maximal and prime ideals through the concept of group.

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		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						
1	2	Subgroups	L			
2	3	Cyclic groups	L			
3	3	Order of an element	L			
4	3	Cosets	L			
5	2	Lagrange's theorem	L			
Unit-II						
6	2	Normal subgroups	L			
7	3	Normal subgroups	L			
8	3	Quotient groups	L			
9	3	Isomorphisms	L			
10	2	Homomorphisms	L			
Unit - III						
12	2	Definition and Examples	L			
13	2	Elementary Properties of rings	L			
14	2	Types of rings - Characteristics of a ring	L			
15	3	Subrings - Ideals – Quotient rings	L			
16	2	Maximal and prime ideals – Homomorphism of rings	L			
17	2	Isomorphism of rings	L			
Unit - IV						
18	2	Definition and Examples	L			
19	3	Subspaces	L			
20	2	Linear Transformations	L			
21	3	Span of a set	L			

22	3	Linear independence	L				
Unit - V							
23	3	Basis and Dimension	L				
24	3	Basis and Dimension	L				
25	2	Rank and Nullity	L				
26	2	Matrix of a Linear Transformation	L				
27	3	Matrix of a Linear Transformation	L				
Seminar							
1	1	UNIT-I Order of an element				S	
2	1	UNIT-II Cosets				S	
3	1	UNIT -III Isomorphisms				S	
4	1	UNIT - IV Linear Transformations				S	
5	1	UNIT-V Rank and Nullity				S	
Class Test							
1	5	UNIT I - UNIT V			CT		
Final Evaluation (FE)							
1	3	Entire course					FE

S. Rajkumari
Head of the Department

S. Rajkumari
Signature of the Staff Member(s)

[Signature]
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 MATHEMATICS

Teaching Plan

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

Programme: II M.Sc MATHEMATICS

Academic Year:

2018-2019

Semester: III semester

Course Code: P17MC312

Course Title: **Differential Geometry**

Objectives:

1. To help the students to understand the use of differential calculus in the field of genetics.
2. To help the students to distinguish between plane curves and space curves using differentiations.

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 Space Curves						
1	2	Definition of a Space Curve – Arc length	L			
2	3	Tangent – Normal and Binormal – Curvature and Torsion	L			
3	3	Contact between curves and surfaces	L			
4	3	Tangent Surface – Involutives and Evolutes – Intrinsic Equations	L			
5	2	Fundamental Existence Theorem for space curves – Helices	L			
Unit-II Intrinsic properties of a surface						
6	2	Definition of a Surface – curves on a Surface	L			
7	3	Surface of revolution	L			
8	3	Helicoids	L			
9	3	Metric = Direction Coefficients	L			
10	2	Families of curves.	L			
Unit – III Geodesics						
12	2	Geodesics	L			
13	2	Canonical Geodesic Equations	L			
14	2	Normal Property of Geodesics	L			
15	3	Normal Property of Geodesics and simple examples	L			
16	2	Existence Theorems	L			
17	2	Existence Theorems and theorems	L			
Unit – IV						

18	2	Geodesic parallels	L			
19	3	Geodesic curvature	L			
20	2	Gauss Bonnet Theorem	L			
21	3	Gaussian curvature	L			
22	3	surface of constant curvature	L			
Unit - V Non Intrinsic properties of a surface						
23	3	The second Fundamental form	L			
24	3	Principal curvature – Lines of curvature	L			
25	2	Developable	L			
26	2	Developable associated with space curves and with curves on surface	L			
27	3	Minimal Surfaces – Ruled surfaces	L			
Seminar						
1	1	UNIT-I Tangent Surface – Involutives and Evolutes – Intrinsic Equations			S	
2	1	UNIT-II Metric – Direction Coefficients			S	
3	1	UNIT –III Normal Property of Geodesics and simple examples			S	
4	1	UNIT – IV Gaussian curvature			S	
5	1	UNIT-V Minimal Surfaces – Ruled surfaces			S	
Class Test						
1	5	UNIT I - UNIT V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE

S. Rajkumari
Head of the Department

[Signature]
Signature of the Staff Member(s)

[Signature]
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 PHYSICS

Teaching Plan

Name(s) of the Staff: Dr. I. Kalaiarasi

Programme: B.Sc Physics

Academic Year:

2018-2019

Semester: I semester

Course Code:: 18PHC101

Course Title: CC-I PROPERTIES OF MATTER
AND SOUND

Objectives:

- To understand the basic principles of elasticity and bending of beams.
- To understand properties of liquids and propagation of sound waves.

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
Ice breaking / Creating awareness about the study of properties of matter and sound which is of great value in day to day life. (CA)		1 hour per /concept	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: ELASTICITY						
1	3	Introduction-Stress - Strain diagram - Elastic moduli.	L			
2	3	Work done per unit volume in shearing - Relation between elastic constants .	L			
3	4	Poisson's Ratio- Expression for Poisson's ratio in terms of elastic constants.	L			
4	3	Twisting couple on a wire - Work done in twisting.	L			
5	3	Torsional Pendulum –Determination of Rigidity modulus of a wire.	L			
UNIT - II: BENDING OF BEAMS						
6	3	Bending of beams-Expression for bending moment.	L			
7	4	Cantilever - expression for depression -Young's modulus - cantilever oscillation - expression for period of oscillation.	L			
8	3	Uniform bending - expression for elevation - measurement of Young's modulus - pin and microscope.	L			
9	3	Non Uniform bending - expression for depression.	L			
10	3	Determination of Young's modulus byusing Koenig's method.	L			
UNIT - III: SURFACE TENSION						
11	2	Surface tension - surface energy.	L			
12	3	Excess of pressure over curved surfaces-Variation of surface tension with temperature.	L			
13	3	Jaeger's experiment - Surface tension by capillary rise method.	L			
14	3	Low pressure - Production and measurement of low pressure.	L			
15	3	Gaede moleculer pump and its applications	L			
16	2	Kundsen's absolute gauge - Detection of leakage.	L			
UNIT - IV: VISCOSITY						

17	3	Viscous force- Streamlined motion - Turbulent motion.	L			
18	3	Coefficient of viscosity and its Dimensions.	L			
19	3	Rate of flow of liquid in a capillary tube.	L			
20	4	Poiseuille's formula-Determination of coefficient of viscosity of liquid.	L			
21	3	Stoke's Experiment-Terminal Velocity	L			
UNIT - V: SOUND						
22	3	Free and damped oscillations - origin of sound - Material medium.	L			
23	3	Velocity of longitudinal waves in gases- Newton's formula for velocity of sound.	L			
24	3	Effect of pressure, temperature and density of medium- Wind and humidity on velocity of sound.	L			
25	4	Velocity of sound in water and air - Beats - Helmholtz resonator - velocity of transverse waves in strings.	L			
26	3	Reverberation time - Sabine's formula	L			
Class Test						
1	5	UNIT I-UNIT V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE

G. Kalaiarasi
Signature of the Faculty

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HOD

[Signature]
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.

Dr. S. Venkatalakshmi. M.Sc., M.Phil., Ph.D.
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GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF PHYSICS

Teaching Plan

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

Programme: **B.Sc Physics**

Academic Year:

2018 -2019

Semester: III semester

Course Code:PHCC04

Course Title: THERMAL AND STATISTICAL PHYSICS

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)		Class Test	05
Seminar/Problem Solving/ Class work/ Creating Awareness/Assignment		Assignment	02
Final Evaluation (FE)		3 hrs (Rehearsal)	03
Hrs per week	6	Credit	5
		Total	75

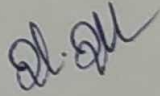
Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I Thermodynamics						
1	3	Zeroth law of thermodynamics, First law of thermodynamics	L			
2	3	Work done in an isothermal and adiabatic processes, Heat engines	L			
3	3	Reversible and irreversible processes, isobaric, isochoric process	L			

4	3	Carnot's theorem, Second law of thermodynamics	L			
5	4	Thermodynamic scale of temperature, Maxwell's Thermodynamical relations	L			
Unit-II Entropy						
6	3	Entropy, Change in entropy in reversible and irreversible processes	L			
7	3	Temperature entropy diagram, Clausius – Clapeyron equation	L			
8	3	Enthalpy, Nernst Heat theorem	L			
9	3	Thermal conductivity, Forbes's method Lee's disc method	L			
10	4	Thermal conductivity of glass and rubber	L			
Unit – III Low Temperature						
11	3	Joule – Thomson's effect, Porous plug experiment	L			
12	4	Liquefaction of gases (air, H ₂ and He), Adiabatic expansion process	L			
13	3	Adiabatic demagnification, Practical application of low temperature	L			
14	3	Refrigerating mechanism, Electrolux refrigerator	L			
15	3	Air conditioning Machine	L			
Unit - IV Radiation						
16	3	Black body radiation, Stefan's law	L			
17	3	Boltzmann law, Blackbody, Rayleigh radiation	L			
18	3	Rayleigh Jean's law, Wein's displacement law	L			
19	3	Planck's law, Stefan's fourth power law	L			

20	4	Pyrometry, Solar Constant, Sources of solar energy	L			
Unit V – Statistical Physics						
21	4	Phase space, Maxwell, Boltzmann distribution law	L			
22	3	Fermi Dirac distribution law, Application to electron gas	L			
23	3	Bose - Einstein distribution law	L			
24	3	Application to photon gas, Radiation laws	L			
25	3	Comparison of three statistics	L			
Class Test						
1	1	UNIT-I First law of Thermodynamics		CT		
2	1	UNIT-II Change in entropy in reversible Process		CT		
3	1	UNIT-III Joule Thomson's effect		CT		
4	1	UNIT - IV Blackbody radiation		CT		
5	1	UNIT-V Maxwell - Boltzman distribution law		CT		
Assignment						
1	1	Work done in an isothermal and adiabatic process		PS		
2	1	Lee's Disc method		PS		

Final Evaluation (FE)						
1	3	Entire course				FE

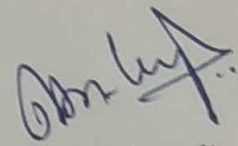


Signature of the Faculty



HOD

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



IQAC Coordinator

Dr. S. Venkatalakshmi, M.Sc., M.Phil., Ph.D.
 Head & Associate Professor in Zoology
 Government College For Women (G)
 Kumbakonam-612001.

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF PHYSICS

Teaching Plan

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

Programme: M.Sc Physics

Academic Year:

2018-2019

Semester: I semester

Course Code: P18PHC101

Course Title: CC I - CLASSICAL DYNAMICS AND RELATIVITY

Objectives:

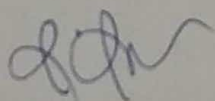
- To introduce different formulations of classical dynamics with linear and Non-linear oscillations
- To solve any dynamical system using Lagrangian and Hamiltonian formulations.

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		16hrs 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

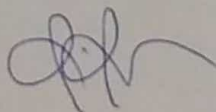
Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
UNIT -I: FUNDAMENTAL PRINCIPLES AND LAGRANGIAN FORMULATION						
1	2	Mechanics of a particle and system of particles	L			
2	2	Conservation laws	L			
3	3	Constraints ,Generalized coordinates	L			
4	3	D'Alembert's Principle	L			
5	3	Lagrange,s equation with holonomic constraints	L			
6	3	Application –Atwood's Machine,Simple pendulum				
UNIT - II: LAGRANGIAN FORMULATION: APPLICATIONS						
7	2	Rigid body dynamics, Euler angles, Moment and products of inertia	L			
8	3	Euler's equations, Symmetrical top	L			
9	3	Oscillatory Motion, Theory of small oscillations	L			
10	3	Normal modes and frequencies	L			
11	2	Two coupled harmonic oscillators, Linear triatomic molecule	L			
12	2	Wave motion, Wave equation				
13	1	Phase velocity,group velocity, Dispersion				
UNIT - III: HAMILTON'S FORMULATION						
14	3	Hamilton's canonical equations of motion	L			
15	3	Hamiltonian Principle- Hamilton's equations from the variational principle	L			
16	4	Principle of Least action	L			
17	3	Canonical Transformations ,Poissons brackets	L			
18	3	Hamilton-Jacobi method	L			
UNIT - IV: NONLINEAR DYNAMICS						
20	2	Dynamical systems,Mathematical implications of nonlinearity	L			

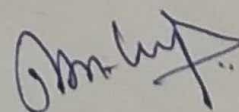
20	2	Definition and effects of nonlinearity	L			
21	2	Regular and Chaotic motion- linear and nonlinear oscillators, Phase trajectories	L			
22	4	Classification of fixed points and limit cycles - Period doubling bifurcation and onset of chaos in Duffing Oscillator	L			
23	3	Solitons - Derivation of cnoidal waves (solitary waves) of K-dv equation	L			
24	3	AKNS eigen value problem and derivation of K-dV, MKdV equation.	L			
UNIT - V: RELATIVITY						
25	3	Limitations of Lorentz transformation, need of special theory of relativity	L			
26	3	Energy and momentum Four vectors, Minkowski' four dimensional space	L			
27	3	Lorentz transformation as rotation	L			
28	4	Minkowski's space Lagrangian formulation in relativistic mechanics	L			
29	3	Invariance of Maxwell's equations under Lorentz transformation.	L			
Seminar						
1	1	UNIT-I Generalised coordinates -D'Alembert's principle			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),
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Government College for Women (Autonomous),
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GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM
POST GRADUATE AND RESEARCH DEPARTMENT OF PHYSICS

Teaching Plan

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

Programme: B.Sc Physics

Academic Year:

2018-2019

Semester: II semester

Course Code: U18PHC203

Course Title: C C – III MECHANICS AND RELATIVITY

Objectives:

- To impart the students fundamental ideas on conservation laws, projectiles and relativity
- To understand the concept of static and dynamic nature of physical systems.

Teaching Methodology			Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method [L]			13hrs per unit (for 5 units)		65
Evaluation –Class Tests (CT)			5 test per unit		05
Seminar/problem solving/class work(S)			1 hour per unit(for 5 units)		01
Ice braking/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	5	Credit	5	Total	75

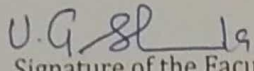
Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

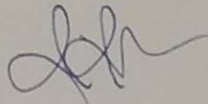
SL.NO	HOUR	UNIT –CONTENT	MODE OF TEACHING
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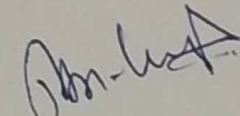
			L	CT	S	FE
UNIT - I: DYNAMICS OF PROJECTILE, IMPULSE AND IMPACT						
1	2	Projectile - range of horizontal and inclined plane	L			
2	3	Impulsive of force –Fundamental Principles of impact- Types of collision -Oblique impact of a smooth sphere on a fixed plane	L			
3	3	Direct Impact of a two smooth spheres-Loss of K.E due to Direct Impact of a smooth spheres	L			
4	3	Derivation of Oblique impact of two smooth spheres - Loss in kinetic energy due to Oblique impact .	L			
5	3	Motion of two interacting bodies and the Reduced mass derivation.	L			
UNIT - II: DYNAMICS OF RIGID BODIES						
6	2	Kinetic energy of rotation - Theory of Compound Pendulum- Equivalent to simple pendulum	L			
7	3	Reversibility of centre of oscillation and suspension - Determination of g and radius of gyration of a bar pendulum	L			
8	3	Period of oscillation of Bifilar pendulum with and without parallel threads - Centre of mass - Velocity and acceleration of centre of mass	L			
9	3	Determination of motion of individual particles - system of variable mass –Introduction of Rocket- Rocket equation.	L			
10	3	Conservation of linear momentum and angular momentum.	L			
UNIT - III: GRAVITATION AND CENTRE OF GRAVITY						
12	2	Introduction of gravitation-Gravitational potential and field due to Spherical Shell - Gravitational Energy	L			
13	2	Determination of G by using Boy's method	L			
14	2	Derivation of Centre of Gravity of a Solid and Hollow Tetrahedron	L			
15	3	Centre of gravity of a solid and hollow hemisphere	L			

16	3	Stability –Types of Equilibrium	L			
17	2	Stability of Ship - Banking of curves.	L			
UNIT - IV: CENTRE OF PRESSURE						
18	2	Introduction-determination of centre of pressure-Vertical rectangular lamina	L			
19	3	Vertical triangular lamina -Vertical circular lamina	L			
20	3	Atmospheric pressure - its variation with altitude- Reasons for such variation HYDRODYNAMICS-Equation of continuity	L			
21	3	Euler's equation for unidirectional flow – applications	L			
22	3	Bernoulli's theorem -Torricelli's theorem	L			
UNIT - V: RELATIVITY						
23	3	Frame of Reference-Galilean - Newtonian relativity	L			
24	3	Galilean transformation Equations –The Michelson Morley experiment and its importance	L			
25	3	Einstein's postulates of special theory - Lorentz transformations and its interpretation	L			
26	2	Consequences of Lorentz transformations - Length contraction- time dilation	L			
27	3	Relativistic addition of velocities - Mass - energy equivalence - Basic ideas of general theory of relativity.	L			
Seminar						
1	1	UNIT-I Direct Impact of a smooth spheres-Loss of K.E due to Direct Impact of a smooth spheres.			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,
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 Head & Associate Professor of Zoology/
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GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF PHYSICS

Teaching Plan

Name(s) of the Staff: Dr.S.AKILANDESWARI

Programme: B.Sc Physics

Academic Year:

2018-2019

Semester: IV semester

Course Code:PHCD06

Course Title: CORE-VI-Optics

Objectives:

- To understand the Phenomenon of Interference,diffraction and Polarization and their principle associated with measurement Techniques.
- To understand the working of various Optical Instruments.

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)		5 test per unit	05
Seminar(S)		1 hour per unit(for 5 units)	01
Creative awareness(CA)		1 hour per unit(for 5 units)	01
Final Evaluation (FE)		3 hrs (Rehearsal)	03
Hrs per week	5 hrs	5 credits	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:Aberration in Lenses						
1	2	Spherical Aberration	L			

2	3	Methods of reducing Spherical Aberration	L			
3	3	Chromatic Aberration	L			
4	3	Condition for achromatism of lenses	L			
5	2	Coma- Astigmatism	L			
Unit-II :Optical Instruments						
6	2	Ramsden's eyepiece - Hygen's eyepiece	L			
7	3	Resolving power of Prism , Grating , Telescope & Microscope	L			
8	3	Optical Fibre - Derivation of Numerical aperture	L			
9	3	Optical Fibre communication system with block diagram	L			
10	2	Fibre Optic Sensor- Temperature and Displacement Sensor	L			
Unit – III:Interference						
11	2	Principle of Superposition - Colours of thin film	L			
12	2	Air wedge - Brewster's fringes	L			
13	3	Michelson Interferometer - Determination of wavelength of light and difference between two wavelength of light	L			
14	2	Newton's Ring Experiment with theory	L			
15	2	Haidenger's Fringes	L			
16	2	Fabry Perrot Interferometer	L			
Unit - IV : Diffraction						
17	2	Fresnel's Diffraction - Diffraction at a circular aperture, Opaque Circular disk	L			
18	3	Diffraction at Straight edge , Narrow wire	L			
19	2	Fraunhofer Diffraction at a sigle slit - Double slit	L			

20	3	Grating with theory	L			
21	3	Oblique incidence - Overlapping of Spectral lines	L			
Unit - V Polarization						
22	3	Polarization by Reflection - Refraction	L			
23	3	Principal Section - Principal Plane - Brewster's Law - Malus Law	L			
24	2	Double refraction	L			
25	2	Nicol Prism as Polariser - Analyzer	L			
26	3	Optical Activity - Fresnel's explanation of Optical Activity	L			
Seminar & Creative Awareness						
1	1	UNIT-I			S	
Class Test						
1	5	UNIT I-UNIT V			CT	
Final Evaluation (FE)						
1	3	Entire course				FE

S. Anilakrishnan
Signature of the Faculty

[Signature]
HOD

Dr. R. RADHA,
Associate Professor,
Centre for Nonlinear Science (CeNSc),
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[Signature]

IQAC Coordinator

Dr. S. Venkatalakshmi, M.Sc., M.Phil., Ph.D.
Head & Associate Professor in Zoology
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GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF PHYSICS

Teaching Plan

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

Programme: I M.Sc Physics

Academic Year: 2018-2019

Semester: II semester

Course Code: P18PHC205

Course Title: CC- V Numerical Methods

Objectives:

- Solve the algebraic and transcendental equations using various methods.
- To impart the knowledge of Interpolation and its methods.

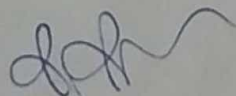
Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method [L]		16hrs per unit (for 5 units)		80
Evaluation –Class Tests (CT)		1 hrsper unit (for 5 units)		05
Ice Breaking and Creating awareness		Ice Breaking		01
		Creating Awareness		01
Final Evaluation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

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

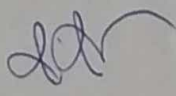
SL.NO	HOUR	UNIT –CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I Methods of Curve Fitting						
1	3	Principle of least square methods, fitting a straight line	L			
2	3	Fitting a parabola, Experimental curves	L			

3	4	Problem solving methods for least square, fitting a straight line, parabola and experimental curves	L			
4	3	Error and their types, Approximation and residuals	L			
5	3	Problem solving methods of error and their types and residuals	L			
Unit-II Solution of Algebraic and Transcendental Equations						
6	3	Bisection method, Newton Raphson method	L			
7	3	Problem solving methods of Bisection and Newton Raphson method	L			
8	4	Convergence of Newton Raphson method, Matrix inversion methods	L			
9	3	Gauss Elimination method, Problem solving methods of Matrix inversion and convergence of Newton Raphson methods	L			
10	3	Gauss seidal method , problem solving methods of gauss Elimination method and gauss seidal method	L			
Unit - III Interpolation						
11	3	Newton Forward and Backward interpolation formula	L			
12	3	Problem solving methods of Newton forward and backward interpolation formula	L			
13	3	Gauss forward and backward interpolation formula	L			
14	3	Problem solving methods of gauss forward and backward interpolation formula	L			
15	4	Stirling and Bessel's formula	L			
Unit - IV Numerical Differentiation and Integration						
16	3	Newton forward difference formula and Newton backward difference formula	L			
17	4	Problem solving methods of Newton forward and backward difference formula	L			

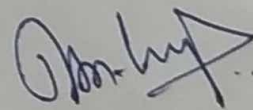
18	3	Numerical integration, Trapezoidal rule	L			
19	3	Problem solving of Trapezoidal methods Simpsons 1/3rd rule and solving problems	L			
20	3	Simpsons 3/8th rule and solving problems	L			
Unit - V Numerical solution of ordinary differential equations						
21	3	Taylor's series, Euler's method	L			
22	3	Modified Euler's method , problem solving methods of Taylor and Euler's methods	L			
23	4	Modified Euler's methods and solving problems	L			
24	3	Second order Rungekutta method and solving problems	L			
25	3	Fourth order RungeKutta methods and solving problems	L			
Ice Breaking and Creating Awareness						
1	1	Ice Breaking	IB			
2	1	Creating awareness about higher studies/Current trends in Science & Technology	CA			
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,
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GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM
POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

Teaching Plan

Name of the Staff : Dr. K. VIMALA

Programme: **B.Sc.Chemistry**

Academic Year:

2018 -2019

Semester: I semester

Course Code: 18CHC101

Course Title: CC-I General chemistry - I

Objectives: Basic concepts regarding periodic properties bonding concepts ionic bond, VSEPR and MO theories, Hybridization, electron displacement reactions, nomenclature of organic compounds, states of matter.

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)	04
Creating awareness about the latest developments of General chemistry - I (CA)		1 hour per unit(for 5 units)	05
Final Evaluation (FE)		1hrs (Rehearsal)	01
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 Inorganic chemistry						
1	2	Variation of atomic volume, atomic and ionic radii, ionization potential,	L			
2	3	electron affinity and electronegativity along periods and groups,	L			
3	3	Definition of ideal and non ideal solutions	L			
4	2	Concentration units molarity, molality, formality	L			
5	3	Diborane structure, discussion -borax, boron nitride, boron carbide and borazole	L			
Unit-II Inorganic chemistry						
6	2	Lattice energy and Born - Heber cycle, Pauling and Mulliken's scales of electronegativity	L			
7	3	Polarizing power and polarizability, ionic character from electronegativity	L			
8	2	Transition from ionic to covalent character	L			
9	3	Shapes of simple organic molecules (BF ₃ , BeCl ₂ , SiCl ₄ , PCl ₅ , SF ₆ , IF ₇ , H ₂ O, NH ₃ , XeF ₆ and Ethane)	L			
10	3	Hydrogen bonding and its types, effectson properties,	L			
Unit – III Organic chemistry						
12	2	Hybridization and geometry of methane, ethane molecules	L			
13	3	Hybridization and geometry of ethylene, acetylene and benzene	L			
14	2	Resonance, hyper conjugation and steric effects	L			
15	3	Homoytic cleavage of carbon - carbon bonds	L			
16	2	Heterolytic cleavage of carbon - carbon bonds	L			
17	2	Free radical, carbocations, carbanions, carbenes, nitrenes and arynes their stability	L			

Unit - IV Organic chemistry

18	3	IUPAC naming of aliphatic, aromatic and acyclic compounds reparation and properties of alkanes,	L			
19	3	Thermal and catalytic process of cracking, Fisher Tropsch,s and Bergius process	L			
20	2	Flash point, fire point, smoke point, knocking, octane and cetane number of petrole	L			
21	3	Antiknocking reagents, power alcohol	L			
22	2	Electrophilic and free radical addition reactions with HBr, H ₂ SO ₄ , H ₂ O, hydroboration, ozonolysis, hydroxylation with KMnO ₄ , allylic substitution by NBS	L			

Unit - V Physical chemistry

23	3	The constant "R" in different units, derivation from ideal behaviour, Vander Waal's equation for real gases	L			
24	3	Isotherms of real gases, critical temperature, state relation between critical and Vander Waal' constant	L			
25	2	Determination of critical volume, the law of corresponding states reduced equations of state	L			
26	2	Root mean square, average and most probable velocities, Maxwell - Boltzmann distribution of molecular velocities	L			
27	3	Collision number, meen free path and collision diameter,	L			

Seminar

1	1	UNIT-I Factors affecting periodic properties			S	
2	1	UNIT -II Landon forces and Vander Waals forces			S	
3	1	UNIT-III Stability of intermediates			S	

4	1	UNIT - IV mechanism of free radical substitution in alkanes			5	
5	1	UNIT-V Classification, structure, properties and applications of liquid crystal			5	
Class Test						
1	5	UNIT I-UNIT V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE

C. Jyothi

Head of the Department

[Signature]

Signature of the Staff Member

[Signature]

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 CHEMISTRY

Teaching Plan

Name of the Staff: Dr. C. JAYANTHI

Programme: M.SC., CHEMISTRY

Academic Year:

2018 -2019

Semester: Semester-III

Course Code:P21CH3MBE3:1

Course Title: MEDICINAL CHEMISTRY

Objectives:

- ❖ To learn role of chemistry in Medicinal field.
- ❖ To know about first aid, antibiotic, anesthetics and antioxidant

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. NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I First aid						
1	3	Definition - rules of first aid – first aid for cuts, abrasions, bruises, bleeding,	L			
2	3	Fractures, burns, fainting and poisonous bites. First box –detection hallucinogens and poisons and antidotes for poisoning	L			
3	3	Some common poison and their antidotes- Acid poisoning, alkali poisoning	L			
4	3	Poisoning by disinfectants, Poisoning of hallucinogens atropine.	L			
5	2.	, Alcohol, Mercury poisoning	L			
Unit-II - Indian medicinal plants and Biological role of some inorganic compounds						
6	3	Indian medicinal plants –Adathoda vasica, Ocimum sanctum, ,, iodine, copper ,zinc and its compounds	L			
7	3	Hibiscus rosa-sinensis, Mangifera indica,	L			
8	3	Azadirachta indica, Ficus,Solanum trilobatumPhyllanthus niruri	L			
9	3	Biological role of some inorganic compounds – Sodium, potassium ,calcium	L			
10	2	Iodine, copper ,zinc and its compounds	L			

Unit – III - Antibiotics and Anesthetics

11	3	Antibiotics : Definition. Chloromphenicol –properties, structure, uses , SAR (Structure activity relationship). Pencillin-structure, uses , SAR.	L			
12	3	Anesthetics -Definition - Characteristics General anesthetics – volatile general anesthetics	L			
12	3	chloroform preparation, properties ,advantages and disadvantages	L			
14	3	Non-volatile general anesthetics –thiopental sodium preparation ,properties , advantages and disadvantages	L			
15	2	Local anesthetics – Requisites, cocaine, procaine, amithocaine structure , properties, advantages and disadvantages	L			

Unit – IV - Organic pharmaceutical Aids and Antioxidant

16	3	Organic pharmaceutical Aids - Classification. Preservatives –.	L			
17	3	Definition , Characteristics, Benzoic acid,	L			
18	3	Antioxidant –Definition, galic acid, propyl galate, properties and uses	L			
19	2	General study of Sequestrants, emulsifying agents,	L			
20	3	Colouring, flavouring and sweetening agents. Stablizing and suspending agents, ointment bases and related agents and solvents	L			

Unit – V Important drugs, Diabetes and AIDS

21	3	Important drugs – Availability, uses and side effects ofAspirin,paracetamol,	L			
22	3	Trimethoprim, ibuprofen, gentamycin, diazepam, doxycycline, erthromycin,	L			

23	2	Tetracycline, ranitidine, digoxin, verapamil, glibenclamide, cephalixin	L			
24	3	Rifampicin, furosemide, phenobarbitone, nitroglycerin, captopril, theophylline	L			
25	3	Diabetes – Definition, types, control of diabetes. AIDS – causes, symptoms, prevention and treatment.	L			
Seminar						
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	7	UNIT I-UNIT V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE

C. Jayanthi

Head of the Department

C. Jayanthi

Signature of the Staff Member

Abinaya

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 CHEMISTRY

Teaching Plan

Name of the Staff: V. ANU

Programme: B.Sc CHEMISTRY

Academic Year:

2018-2019

Semester: V semester

Course Code: 18CHC507

Course Title: INORGANIC 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 COORDINATION COMPOUNDS						
1	2	Types of ligands	L			
2	3	IUPAC nomenclature	L			
3	3	Werner, Sidgwick theory	L			
4	2	Valence bond, Crystal field, molecular orbital and ligand field theories	L			
5	3	Comparison – Merits and demerits	L			
Unit-II -						
6	2	Isomerism – Stability of complexes – factors affecting the stability of complexes	L			
7	3	Unimolecular and bimolecular nucleophilic substitution reactions in octahedral and square planar complexes – Trans effect.	L			
8	2	Application of coordination compound Detection of potassium ions, separation of copper and cadmium ions.	L			
9	3	Estimation of nickel using DMG and aluminium using oxine. Structure of EDTA and its complexes	L			
10	3	Complexometric titrations – principles and application.	L			
Unit – III						
12	2	Biologically important coordination compounds – Chlorophyll, haemoglobin structure – application	L			
13	3	vitamin B-12 - their structure – application	L			
14	2	Metal carbonyls – Mono and poly nuclear carbonyls of Ni, Fe synthesis, reactions, structure and uses.	L			
15	3	Co Mn –synthesis, reactions, structure and uses.	L			

16	2	Nitrosyl compounds – classification, preparation, properties	L				
17	2	structure of nitrosyl chloride and sodium nitroprusside	L				
Unit - IV							
18	3	Binary compounds – hydrides, borides, carbides and nitrides – classification	L				
19	3	preparation, properties and uses of compounds hydrides, borides	L				
20	2	preparation, properties and uses of compounds carbides and nitrides.	L				
21	3	Organometallic compounds of alkenes and cyclopentadiene – preparation	L				
22	2	structure, bonding and uses of olefine and ferrocene only	L				
Unit - V							
23	3	Characteristics of precipitating agent – choice of precipitants – specific and selective precipitant.	L				
24	3	Coprecipitation and post precipitation	L				
25	2	Precipitation from homogeneous solution. Digestion and washing of precipitate. Ignition of the precipitate. Use of sequestering agents	L				
26	2	Symmetry elements – symmetry operations	L				
27	3	mathematical group multiplication tables, point groups of simple molecules. (H ₂ , HCl, CO ₂ , H ₂ O, BF ₃ NH ₃)	L				
Seminar							
1	1	UNIT-I Valence bond, Crystal field, molecular orbital				S	

2	1	Estimation of nickel using DMG and aluminium using oxine. Structure of EDTA and its complexes			5	
3	1	UNIT-III Biologically important coordination compounds			5	
4	1	UNIT - IV Organometallic compounds of alkenes and cyclopentadiene - preparation			5	
5	1	UNIT - V Characteristics of precipitating agent - choice of precipitants - specific and selective precipitant			5	
Class Test						
1	5	UNIT I-UNIT V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE

C. Jayaram

Head of the Department

V. Anus

Signature of the Staff Member

Prasanna

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

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

Teaching Plan

Name of the Staff: Dr. S. Jasmine Mary

Programme: M.Sc., Chemistry

Academic Year:

2018-2019

Semester: IV semester

Course Code: P18CH1804

Course Title: RECENT TRENDS IN CHEMISTRY

Objectives:


Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		12hrs 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)	05
Final Evaluation (FE)		3 hrs (Rehearsal)	03
Hrs per week	6	Credit	5
		Total	

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

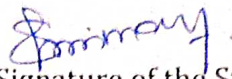
SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I Introduction to computing and networking						
1	2	Introduction to computers and computing – hardware – basic organization of a computer –	L			
2	3	CPU – main memory – secondary storage – i/o devices – software system and applications of software	L			
3	3	high and low level languages compilers – algorithms and flow charts.	L			0
4	2	Introduction to networking –Computer networks – LAN, WAN internet and internet – worldwide web	L			
5	3	internet for chemists – online search of chemistry data bases – e-journals - search engines for chemistry.	L			
Unit-II Nano chemistry						
6	2	Introduction to nanotechnology – molecular nanotechnology – nanomanipulator, nanotweezers,	L			
7	3	atom manipulation – nanomaterials–	L			
8	2	preparation of nanomaterial - plasma arcing method, chemical vapor deposition method, electrodeposition method	L			
9	3	Chemical abstracts – Subject index – author index and formula index –	L			
10	3	– nanotubes – properties and uses of nanotubes, Nano medicines, environmental applications. Fullerenes - properties & uses.	L			
Unit – III Research methodology						
12	2	Introduction to primary sources (journals and patent), secondary sources	L			
13	3	(chemical abstract, Dictionary, Monographs and Review articles),	L			
14	2	Chemical abstracts – Subject index – author index and formula index	L			

15	3	other indexes with examples – current contents – organization	L			
16	2	methods of using the titles and index	L			
17	2	preparation and presentation of research papers in journals and seminars.	L			
Unit – IV Green chemistry						
18	3	Principles(12) - inception – scope – areas – green solvents	L			
19	3	biocatalyst and biocatalysis – synthesis of safer product.	L			
20	2	Green chemistry – photochemical principles – photo oxidation – photo degradation	L			
21	3	removal of hazardous chemicals from water	L			
22	2	cleaner production concept – implementation – Government role .	L			
Unit – V Molecular modeling basics						
23	3	Molecular modeling – coordinate systems – Cartesian and internal coordinate systems	L			
24	3	bond lengths, bond angles and torsion angles	L			
25	2	potential energy surfaces.	L			
26	2	Molecular mechanics – applications and parameterization	L			
27	3	advantages and limitations of force fields.	L			
Seminar						
1	1	UNIT-I Introduction to networking – Computer networks – LAN, WAN internet and internet – worldwide web			S	
2	1	UNIT-II Chemical abstracts – Subject index – author index and formula index			S	
3	1	UNIT-III Chemical abstracts – Subject index – author index and formula index			S	
4	1	UNIT – IV Principles(12) - inception – scope – areas – green solvents			S	
5	1	UNIT-V Molecular modeling – coordinate systems – Cartesian and internal coordinate systems			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)
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GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM
POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

Teaching Plan

Name of the Staff: Mrs.S. Vijayalakshmi

Programme: M.Sc Chemistry

Academic Year:

2018-2019

Semester: II semester

Course Code: P18CH2EC2

Course Title: CC-II – Food and Nutrients

Objectives:

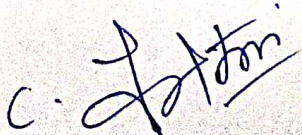
To impart knowledge about the Carbohydrates, **Proteins** and its Applications, **Fats**, **Electrolytes** and **Minerals** properties, **Milk and Milk products**, **Food and Nutrients** its Applications.

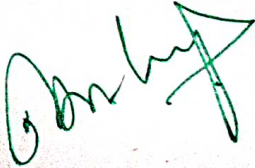
Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction		
Traditional Chalk and Talk Method [L]		14 hrs per unit (for 5 units)	70		
Evaluation – Class Tests (CT)		7 class test (for 5 units)	07		
Seminar/problem solving/class work(S)		1 hour per unit(for 5 units)	05		
Creating awareness about the latest developments of 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	90

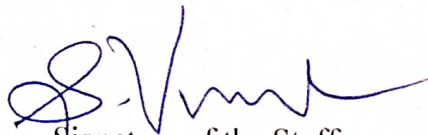
Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL. NO	HOUR	UNIT - CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I Carbohydrates						
1	3	Classification- Carbohydrates	L			
2	3	available polysaccharides	L			
3	3	unavailable carbohydrates or dietary fibres	L			
4	3	carbohydrates in diets – digestion and absorption	L			
5	3	regulation of blood glucose - insulin	L			
Unit-II Proteins						
6	2	Proteins :Sources and chemical nature	L			
7	3	aminoacids – nitrogen balance –	L			
8	3	Factors affecting nitrogen balance – physiological needs	L			
9	3	dietary sources – biological tests	L			
10	3	requirements – protein deficiency,	L			
Unit – III Fats, Electrolytes and Minerals						
11	2	Visible fats – phospholipids - digestion and absorption – essential fatty acids deficiency	L			
12	3	dietary needs for fat salt – Na and K in the body. Water balance – Na excess	L			
13	2	K excess., Minerals – intake – absorption – substances – assisting absorption -recommended intake – trace elements	L			
14	3	iodine – physiology – sources – prophylactic and therapeutic uses	L			
15	2	fluorosis in man – fluoride and osteroporosis	L			
16	2	opposition to fluoridation of water Pb – Hg – hazards	L			
Unit – IV Milk and Milk products						
17	3	Composition of milk – flavor	L			
18	3	physical properties of milk	L			
19	2	effect of heat on milk – pasteurisation	L			

20	3	homogenisation – Milk Products	L			
21	3	cream milk – ice cream – milk powder	L			
Unit – V Food and Nutrients						
22	3	Food – classification – cereals – wheat – distribution of nutrients in grain and flour – starches	L			
23	3	starches – invalid foods – sugars – syrups, nutritive properties of vegetables	L			
24	2	fruits – nutrition properties of meat, fish and oil of sea foods.	L			
25	2	Food adulteration	L			
26	3	determination of adulteration in food products by simple qualitative test	L			
Seminar						
1	1	UNIT-I adrenaline			S	
2	1	UNIT-II K deficiency			S	
3	1	UNIT-III fluorine – prevention of dental carriers			S	
4	1	UNIT – IV aroma of milk			S	
5	1	UNIT-V novel protein foods			S	
Class Test						
1	7	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

GOVERNMENT COLLEGE FOR WOMEN (A), KLIMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

Teaching Plan

Name of the Staff: Dr.G.SRIDEVI

Programme: M.Sc Chemistry

Academic Year:

2018-2019

Semester: II semester

Course Code: P18CHC206

Course Title: ORGANIC CHEMISTRY II

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 molecules three dimensional structure 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 ORGANIC REACTION MECHANISM -I						
1	2	Types of organic reactions – Reaction intermediates – formation, structure and stability of carbocations, carbanions, radicals, carbenes and nitrenes.	L			
2	3	Aliphatic nucleophilic substitution – S_N1 , S_N2 and S_Ni mechanisms – simple examples, Aromatic nucleophilic substitution; Unimolecular, bimolecular and benzyne mechanisms.	L			
3	3	Addition to carbon-carbon and carbon-oxygen multiple bonds – electrophilic and nucleophilic	L			
4	2	addition – addition to conjugated system. Hydration of olefins – Hydroboration	L			
5	3	Elimination reactions: E1, E2, E1cB&E2cB mechanisms – Pyrolytic eliminations – cis elimination - orientation of double bond –	L			
UNIT –II ORGANIC REACTION MECHANISM -II						
6	2	Aliphatic electrophilic substitution - S_E1, S_E2 and S_Ei mechanisms, electrophilic substitution with migration of double bond.	L			

7	3	Aromatic electrophilic substitution – mechanisms of nitration, halogenation and sulphonation reactions. Fridel-Crafts reaction and its modifications. Influence of Cl, Me, OH, NH ₂ , NHC(O)CH ₃ and NO ₂ on reactivity and orientation. Electrophilic substitution of naphthalene – formation of two isomers –	L			
8	2	Substituent effects – origins of Hammett equation – principles of Hammett correlation – effect of structure on reaction mechanisms	L			
9	3	Hammett parameters – σ and ρ , modified forms of Hammett equation.	L			
10	3	Esterification, hydrolysis and transesterification by acid-catalysed acyl oxygen fission mechanism – explanation of the principle of microscopic reversibility	L			
UNIT –III STEREO CHEMISTRY -II						
12	2	Atropisomers: Atropisomerism of biphenyls, allenes and spiranes .Walden inversion, asymmetric induction and asymmetric transformation	L			
13	3	Atropisomers: Atropisomerism of biphenyls, allenes and spiranes .Walden inversion,	L			
14	2	Asymmetric induction and asymmetric transformation	L			
15	2	Regioselective synthesis – halogenation of alkanes, ambident nucleophiles,	L			
16	2	Regiospecificsyntheis – reductions using Baker's yeast.	L			
17	2	Stereospecific Reaction - bromination of fumaric and maleic acid .	L			
UNIT - IV REAGENTS IN ORGANIC CHEMISTRY						

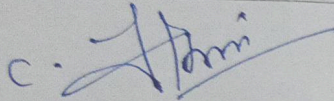
18	3	Application of reagents in organic synthesis and functional group transformations. Sodium borohydride, Lithium aluminium hydride, tri-n-butyl tin hydride,	L			
19	3	Lithium diisopropyl amide, Trimethylsilyl iodide, dicyclohexylcarbodiimide,	L			
20	2	OsO ₄ , DDQ, SeO ₂ , PCC	L			
21	3	Need for protection of functional group during chemical reactions – Reagents for protection of Hydroxyl, Mercapto, Amino, Carbonyl and Carboxylic groups.	L			
22	2	Phase Transfer Catalysts – Benzyltriethylammonium halides – Crown ethers.	L			

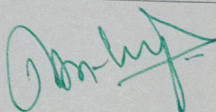
UNIT – V ORGANIC SYNTHESIS

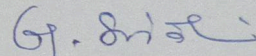
23	3	An introduction to retrosynthesis - Synthons, Synthetic equivalent, Target molecule, Functional group interconversion - Disconnection approach – One group disconnection	L			
24	3	Disconnection of alcohols, olefins and ketones - Logical and illogical disconnections.	L			
25	2	Two group disconnection-1,2-, 1,3-, 1,4-, 1,5- and 1,6-dioxygenated skeletons and dicarbonyls.	L			
26	2	Retrosynthesis of some heterocycles containing two nitrogen atoms.	L			
27	3	Retrosynthetic analysis of Camphor and Reserpine	L			

Seminar

1	1	UNIT-I Bredt's rule, Hofmann & Saytzeff rules.			5	
2	1	UNIT-II Taft Equation			5	
3	1	UNIT-III Enantiomeric excess and diastereomeric excess			5	
4	1	UNIT - IV Lithium dimethyl cuprate.			5	
5	1	UNIT-V Retro Diels - Alder reaction - Pericyclic reactions			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
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:

2018-2019

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. Srinivasan
Head of the Department

V. Devi
Signature of the Staff Member

Omshree
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 DEPARTMENT OF BOTANY

Teaching Plan

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

Programme: UG-BOTANY

Academic Year:

2018-2019

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

Prasanna
Head of the Department

P. Jagan
Signature of the Staff Member

Prasanna
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: Mrs. B.Bhavani

Programme: B.Sc Botany

Academic Year:

2018-2019

Semester: V semester

Course Code: U21BOC511

Course Title: Morphology, Taxonomy and Economic Botany

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	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	Morphology: vegetative, floral and fruit parts	L			
2	3	Inflorescence – Types – racemose, cymose, mixed and special types.	L			
3	3	Fruit - simple, fleshy, dry dehiscent	L			
4	2	Dry indehiscent,	L			
5	3	Agregate and multiple fruits.	L			
Unit-II						
6	2	Binomial nomenclature – ICBN rules – taxonomic types.	L			
7	3	Systems of Classification – Bentham and Hooker classification – Merits and demerits.	L			
8	2	Phylogenetic classification – anatomical, embryological	L			
9	3	Biochemical and palynological evidence for taxonomy, numerical taxonomy,	L			
10	3	Herbarium techniques.	L			
Unit – III						
12	2	A detailed study of the following families with their economic importance	L			
13	3	Annonaceae, Capparidaceae,	L			
14	2	Tiliaceae, Rutaceae,	L			
15	3	Anacardiaceae, Leguminosae	L			
16	2	(Papilionaceae, Cesalpinaceae and Mimosaceae)	L			
17	2	Economic Cucurbitaceae.	L			

Unit - IV

18	3	A detailed study of the following families with their economic importance	L			
19	3	Rubiaceae, Asteraceae,	L			
20	2	Apocynaceae, Asclepiadaceae	L			
21	3	Solanaceae, Verbenaceae,	L			
22	2	Euphorbiaceae, Orchidaceae and Poaceae.	L			

Unit - V

23	3	Economic Botany: A brief study of the following economically important plants:	L			
24	3	Food – Cereals (<i>Oryza sativa</i> , <i>Eleusinecoracana</i>); Pulses – Black gram (<i>Phaseolusmungo</i>),	L			
25	2	Edible – Gingelly oil (<i>Sesamumindicum</i>); Root tu Tapioca (<i>Manihotesculenta</i>); Sugar – Sug (<i>Saccharumofficinarum</i>).	L			
26	2	Fibres – Textiles (<i>Gossypium</i>); Others– <i>Croti</i> <i>Agave</i> .	L			
27	3	Medicinal Plants – <i>Ocimum</i> , <i>Phyllanthus</i> , <i>Solanum</i> L Forest Products – Timber: Teak (<i>Tectonagrandis</i>) (<i>Artocarpusheterophyllus</i>). Tannins, Gums, F Turpentine.	L			

Seminar

1	1	UNIT-I Inflorescence – Types – racemose, cymose, mixed and special types.				S
2	1	UNIT-II Systems of Classification – Bentham and Hooker classification – Merits and demerits.				S

3	1	UNIT-III A detailed study of the following families with their economic importance			S	
4	1	UNIT - IV Economic importance Rubiaceae, Asteraceae,			S	
5	1	UNIT-V Food - Cereals (<i>Oryza sativa</i> , <i>Eleusinecoracana</i>); Pulses - Black gram (<i>Phaseolusmungo</i>),			S	
Class Test						
1	5	UNIT I-UNIT V			CT	
Final Evaluation (FE)						
1	3	Entire course				FE

Bala Krishnan
Head of the Department

P. J. Jai
Signature of the Staff Member(s)

Am. Jay
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: Mrs. C.MAHESHWARI

Programme: B.Sc Botany

Academic Year:

2018-2019

Semester: III semester

Course Code: U21BOC305

Course Title: Bryophytes, Pteridophytes,
Gymnosperms and Paleobotany

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.N O	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I Bryophytes						
1	2	General characteristics	L			
2	3	Classification – Liverworts (Stotler et. al., 2009), hornworts (Renzaglia et al., 2009) and Mosses (Goffinet et al., 2009);	L			
3	3	Morphology, Structure,	L			
4	2	Reproduction and life history of the following genera:	L			
5	3	<i>Riccia</i> , <i>Marchantia</i> , <i>Anthoceros</i> , <i>Polytrichum</i> and <i>Funaria</i> .	L			
Unit-II Pteridophytes						
6	2	General characteristics and classification by Smith,	L			
7	3	Morphology, Structure	L			
8	2	Reproduction and life	L			
9	3	Psilotum, Lycopodium	L			
10	3	<i>Selaginella</i> and <i>Equisetum</i> .	L			
Unit – III Pteridophytes						
12	2	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 Gymnosperms							
18	3	General characteristics and classification of Gymnosperms by Sporne;	L				
19	3	Morphology,	L				
20	2	Classification, Marsilea;	L				
21	3	structure, mode of reproduction and life-history of the following genera	L				
22	2	<i>Cycas, Pinus</i> and <i>Gnetum</i> .	L				
Unit – V Paleobotany							
23	3	Fossils and methods of fossilization –	L				
24	3	Geological time-scale – an elementary knowledge of the computation of the age of fossils –	L				
25	2	– Radio-Carbon dating technique. Contributions of Birbal sahani	L				
26	2	A brief study of the following fossil plants: a) Rhynia, b) Lepidodendron,	L				
27	3	c) Pentoxylon and d) Williamsonia.	L				
Seminar							
1	1	UNIT-I Classification – Liverworts (Stotler et. al., 2009), hornworts (Renzaglia et al., 2009) and Mosses (Goffinet et al., 2009);				S	
2	1	UNIT-II General characteristics, ecology and significance,				S	
3	1	UNIT-III Economic importance.				S	

4	1	UNIT – IV structure, mode of reproduction and life- history of the following genera			5	
5	1	UNIT-V Geological time-scale – an elementary knowledge of the computation of the age of fossils –			5	
Class Test						
1	5	UNIT I-UNIT V		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: Mrs. C.MAHESHWARI

Programme: B.Sc Botany

Academic Year:

2018-2019

Semester: V semester

Course Code: U21BOC511

Course Title: Morphology, Taxonomy and Economic Botany

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	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						
1	2	Morphology: vegetative, floral and fruit parts	L			
2	3	Inflorescence – Types – racemose, cymose, mixed and special types.	L			
3	3	Fruit - simple, fleshy, dry dehiscent	L			
4	2	Dry indehiscent,	L			
5	3	Agregate and multiple fruits.	L			
Unit-II						
6	2	Binomial nomenclature – ICBN rules – taxonomic types.	L			
7	3	Systems of Classification – Bentham and Hooker classification – Merits and demerits.	L			
8	2	Phylogenetic classification – anatomical, embryological	L			
9	3	Biochemical and palynological evidence for taxonomy, numerical taxonomy,	L			
10	3	Herbarium techniques.	L			
Unit – III						
12	2	A detailed study of the following families with their economic importance	L			
13	3	Annonaceae, Capparidaceae,	L			
14	2	Tiliaceae, Rutaceae,	L			
15	3	Anacardiaceae, Leguminosae	L			
16	2	(Papilionaceae, Cesalpinaceae and Mimosaceae)	L			

17	2	Economic Cucurbitaceae.	L			
Unit – IV						
18	3	A detailed study of the following families with their economic importance	L			
19	3	Rubiaceae, Asteraceae,	L			
20	2	Apocynaceae, Asclepiadaceae	L			
21	3	Solanaceae, Verbenaceae,	L			
22	2	Euphorbiaceae, Orchidaceae and Poaceae.	L			
Unit – V						
23	3	Economic Botany: A brief study of the following economically important plants:	L			
24	3	Food – Cereals (<i>Oryza sativa</i> , <i>Eleusinecoracana</i>); Pulses – Black gram (<i>Phaseolusmungo</i>),	L			
25	2	Edible – Gingelly oil (<i>Sesamumindicum</i>); Root tubers – Tapioca (<i>Manihotesculenta</i>); Sugar – Sugarcane (<i>Saccharumofficinarum</i>).				
26	2	Fibres – Textiles (<i>Gossypium</i>); Others– <i>Crotalaria</i> , <i>Agave</i> .				
27	3	Medicinal Plants – <i>Ocimum</i> , <i>Phyllanthus</i> , <i>Solanum</i> . Forest Products – Timber: Teak (<i>Tectonagrandis</i>), Jack (<i>Artocarpusheterophyllus</i>). Tannins, Gums, Resins, Turpentine.	L			
Seminar						
1	1	UNIT-I Inflorescence – Types – racemose, cymose, mixed and special types.			S	

2	1	UNIT-II Systems of Classification – Bentham and Hooker classification – Merits and demerits.			S	
3	1	UNIT-III A detailed study of the following families with their economic importance			S	
4	1	UNIT – IV Economic importance Rubiaceae, Asteraceae,			S	
5	1	UNIT-V Food – Cereals (<i>Oryza sativa</i> , <i>Eleusinecoracana</i>); Pulses – Black gram (<i>Phaseolusmungo</i>),			S	
Class Test						
1	5	UNIT I-UNIT V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE

Bachchanisman
Head of the Department

[Signature]
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[Signature]
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Co-ordinator
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GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

DEPARTMENT OF BOTANY

Name(s) of the Staff: Dr. C.MAHESHWARI

Programme: B.Sc Botany

Academic Year:

2018-2019

Semester: IV semester

Course Code: U21BOC407

Course Title: Anatomy and Embryology and microtechque

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	5	Total	5	Total	75

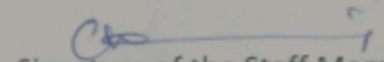
Hours per week	Total Hours of Instruction
6	90
5	75
4	60
2	30

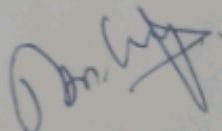
SL.N O	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I						
1	2	Anatomy: Plant tissue	L			
2	3	Classification, Meristems, definition, differentiation, redifferentiation and dedifferentiation	L			
3	3	Classification of meristems- apical meristems	L			
4	2	lateral meristems intercalary meristem,	L			
5	3	Concepts of apical meristem theories, apical cell theory, Tunica – Corpus and Histogen theory.	L			
Unit-II						
6	2	Epidermal tissue system	L			
7	3	Stomatal types. Permanent tissue	L			
8	2	Parenchyma, collenchyma and sclerenchyma.	L			
9	3	Complex Permanent Tissues:	L			
10	3	Phloem – Components, Ontogeny and Phylogeny. Laticifer types.	L			
Unit – III						
12	2	Primary structure of root, stem and leaf in dicots and monocots.	L			
13	3	Normal Secondary growth in stem and root-annual rings –.	L			
14	2	Heart Wood, sapwood	L			
15	3	Anomalous secondary growth in dicot stems:	L			

16	2	<i>Nyctanthes</i> and <i>Boerhaavia</i> and monocot stem	L			
17	2	<i>Dracaena</i> . Nodal anatomy – uni and trilacunar types.	L			
Unit – IV Plant Protection and Disease management						
18	3	Embryology – Structure and development of anther.	L			
19	3	Microsporogenesis; Microgametogenesis	L			
20	2	Ultrastructure of pollen wall –	L			
21	3	structure, development and types of ovules, megasprogenesis, Megagametogenesis (<i>Polygonum</i> type of embryo sac development),	L			
22	2	Fertilization. Endosperm types, Development of embryo – dicot and Monocot. Basic concepts of apomixis, apospory, Polyembryony and Parthenogenesis	L			
Unit – V Methods of Plant Protection						
23	3	Micrometry	L			
24	3	Fixation, dehydration,	L			
25	2	Embedding, hand sectioning, microtome sectioning,	L			
26	2	Stain types, staining and mounting	L			
27	3	Preparation of double staining using saffranin and fast green..	L			
Seminar						
1	1	UNIT-I Classification, Meristems, definition,			S	
2	1	UNIT-II Stomatal types. Permanent tissue			S	
3	1	UNIT-III Primary structure of root, stem and leaf in dicots and monocots.			S	

4	1	UNIT – IV Microsporogenesis; Microgametogenesis			S	
5	1	UNIT-V Fixation, dehydration,			S	
Class Test						
1	5	UNIT II		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 ZOOLOGY (2018-2019)

Teaching Plan 2018-2019-Odd Semester

Name(s) of the Staff: Dr.D.Soumady

Programme: III-B.Sc., Zoology Academic Year: 2018-2019

Semester: V semester Course Code: 18Z5EC3:1

Course Title: Biostatistics

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)	
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/PPT	CT	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.	PPT			
5	5	Students t-Test (based on mean with two samples, Testing correlation co-efficient and paired t-Test),	L			
6	4	Introduction to statistical packages – SPSS.	L			
Class Test						
1	2	UNIT III & V		CT		
Final Evaluation (FE)						
1	2	Entire course				FE

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Teaching Plan 2018-2019 -odd semester

Name(s) of the Staff: Dr.D.SOUMADY
 Programme: I-M.Sc., Zoology Academic Year: 2018-2019
 Semester: I semester Course Code: P18ZC101

Course title: Functional morphology and phylogeny of Invertebrates and Chordates

Objectives: 1. To imbibe current knowledge on the structure and functional morphology of invertebrates and chordates. 2. To learn the origin and evolution of invertebrates and chordates

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)		02	
Final Evaluation (FE)			3 hrs (Rehearsal)		02	
Hrs per week	3	Credit	5	Total	39	
Hours per week			Total Hours of Instruction			
6			90			
5			75			
4			60			
2			30			
SL.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L/PPT	CT	S	FE
Unit-II						

1	3	Excretion: Different types of excretory organs in invertebrates.	L			
2	4	Nervous System: Primitive types - Coelenterates, Advanced types - Nervous system in Molluscs.	L			
3	4	Chemical Co-ordination: Endocrine glands in Crustaceans and Insects	PPT			
4	4	Pheromones and allelochemicals	PPT			
Unit-III						
5	4	Reproduction: Pattern of sexual and asexual reproduction -	L			
6	4	Echinoderm larval forms and their phylogenic significance.				
7	4	Invertebrate Fossils: Evolutionary trends and phylogenetic importance of Trilobites, Ammonoids, Belemnoids and Nautiloids.	PPT			
8	3	Minor Phyla: Organisation and affinities of Chaetognatha, Rotifera and Phoronida	PPT			
Seminar						
1	2	UNIT-II&, III			S	
Class Test						
1	2	UNIT II&III			CT	
Final Evaluation (FE)						
1	2	Entire course				FE

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Teaching Plan 2018-2019 -odd semester

Name(s) of the Staff: Dr.D.SOUMADY
 Programme: M.Sc., Zoology Academic Year: 2018-2019
 Semester: III semester Course Code: P18Z3EC3

Course title: Biostatistics and Research Methodology

Objectives: 1. To understand the importance of Statistics and presentation of biological data.
 3. 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)		45	
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)			
Final Evaluation (FE)			3 hrs (Rehearsal)		03	
Hrs per week	3	Credit	4	Total	54	
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	L			
4	4	Probability theory - Normal, Binomial and Poisson distributions (theory only)	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	3	UNIT-I & V			S	
Class Test						
1	3	UNIT I, III & V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE

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Teaching plan 2018 – 2019 (Even Semester)

Name(s) of the Staff: Dr.D.SOUMADY
 Programme: B.Sc., Zoology Academic Year: 2018-2019
 Semester: IV Course Code: ZCF11

Course Title: Ecology

Objectives: To imbibe the knowledge on the Environment – their general principles, definition and scopes, which influence the living organism through ecosystem structure and components, various habitats.

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 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	4	Credit	5	Total	30	
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
UNIT-II						
1	4	Ecosystem: Definition, ecological hierarchy, A typical ecosystem: Pond ecosystem,	L			

2	4	Primary production, Secondary production, food chains, food web, Trophic levels	PPT			
3	3	energy flow, pyramids of biomass and energy	L			
4	4	Biogeochemical cycles- nitrogen and phosphorus.	PPT			
UNIT - III						
1	4	Community ecology: Types and characteristics - stratification - community interdependence	L			
2	4	Ecotone - edge effect - ecological niche - ecological succession.	PPT			
3	4	Population ecology: Definition, density, natality, mortality, age distribution, age pyramids,	L			
4	3	Population growth, population equilibrium, biotic potential, dispersion and fluctuation.	L			
Class Test						
1	2	UNIT-II & III		CT		
Final Evaluation (FE)						
1	2	Entire course				FE

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Teaching plan 2018 – 2019 (Even Semester)

Name(s) of the Staff: Dr.D.SOUMADY
 Programme: I-M.Sc., Zoology Academic Year: 2018-2019
 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.

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	3	Credit	5	Total	34	
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	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						
1	5	Antigen - Antibody reaction: Immune complex, Binding forces, Types of Antigen-antibody reactions	L			
2	5	Precipitations, Agglutinations, cytolysis, complement fixation, opsonization.	L			
3	5	Complements (Classical and Alternate pathways) Cytokines Cell mediated Immune response	L			
Seminar						
1	---	UNIT-I & III			S	
Class Test						
1	2	UNIT I & III		CT		
Final Evaluation (FE)						
1	2	Entire course				FE

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Teaching plan 2018 – 2019 (Even Semester)

Name(s) of the Staff: Dr.D.SOUMADY
 Programme: II-M.Sc., Zoology Academic Year: 2018-2019
 Semester: IV Course Code: PZCD13

Course Title: Applied Ecology, Biodiversity and Conservation

Objectives: To learn the fundamentals of environment Components and Space ecology.

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)			2 hrs (Rehearsal)		02		
Hrs per week	2	Credit	5	Total	34		
Hours per week			Total Hours of Instruction				
6			90				
5			75				
4			60				
2			30				
SL.NO	HOUR	UNIT - I		MODE OF TEACHING			
				L	CT	S	FE

1	4	Population ecology- density, natality, mortality, distribution, growth rate.	L			
2	4	Population interaction, structure, dominants, stratification.	L			
3	3	Community ecology-Radioactivity, interdependence, ecotone, edge effect, niche, succession, climax.	L			
4	4	Ecosystem: concept of ecosystem-structure, types, dynamics ecological pyramids-biogeochemical cycles pond and forest as an examples of natural ecosystem.	L			
UNIT- II						
1	5	Space ecology-space engine, artificial satellite and probes.	L			
2	5	Environmental problems of space travels, Exobiology	L			
3	5	solar system-methods for testing extra terrestrial life-environmental survey- SETI programme.	L			
Class Test						
1	2	UNIT-I &II		CT		
Final Evaluation (FE)						
1	2	Entire course				FE

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ODD SEMESTER
GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM
DEPARTMENT OF ZOOLOGY

Teaching Plan

Name(s) of the Staff: Dr.V.Kavitha

Programme: B.Sc., ZOOLOGY

Academic Year:

2018-2019

Semester: III semester

Course Code: U20ZC305

Course Title: **CELL BIOLOGY**

Objectives: To understand the structure and functions of cellular organelles - their ultra structure and applications of microscope for better understanding of molecular structure of cells.

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method [L]		13 hrs per unit (for 2 units)		24
Evaluation -Class Tests (CT)		hrs (for 2 units)		04
Seminar/problem solving/class work(S)		-		-
Final Evaluation (FE)		2 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.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I						
1	3	The cell - Definition, Cell theory , types of cells, size, shape, volume and number	L			
2	4	Detailed study of cell structure. Prokaryotic and eukaryotic cells.	PPT			
3	3	Microscopes- Compound, fluorescent and Electron.	L			
4	2	Centrifuge and Electrophoresis. Principle and applications.	L			
Unit-II						

6	5	Plasma membrane - Ultra structure & Functions.	PPT			
7	2	Cytoplasm - Composition and physicochemical properties.	L			
8	5	Golgi complex - Ultra structure and Functions.	L			
Class Test						
1	4	UNIT I and UNIT II		CT		
Final Evaluation (FE)						
1	2	Entire course				FE

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GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

DEPARTMENT OF ZOOLOGY

Teaching Plan

Name(s) of the Staff: Dr.V.Kavitha

Programme: B.Sc., ZOOLOGY

Academic Year:

2018-2019

Semester: V Semester

Course Code: U20ZC511

Course Title: ANIMAL PHYSIOLOGY

Objectives: To acquire knowledge on the structure and functions of animals - their body parts, organs and behaviour through understanding of their nutrition, respiration, circulation, excretion, endocrine system with physico - chemical coordination.

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method [L]		12 hrs per unit (2 units)		24
Evaluation -Class Tests (CT)		2 hrs (per unit)		04
Seminar/problem solving/class work(S)		-		-
Final Evaluation (FE)		2 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.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-III						
1	2	Excretion: Types of Excretion - Excretory products.	L			
2	4	Structure of Kidney and Nephron, Mechanism of Urine formation, Excretion in mammals	PPT			

3	3	Osmoregulation: Euryhaline, stenohaline, osmoregulators and Osmo conformers.	L			
4	3	Osmoregulation in freshwater and marine.	L			
Unit-V						
6	3	Structure and functions of pituitary, thyroid and parathyroid	L			
7	3	Structure and functions of Islets of langerhans and adrenal gland	PPT			
8	3	Structure and functions of sex glands, thymus and pineal gland	L			
9	3	Reproduction: Types of reproduction – Reproduction in man - Reproductive cycle - Hormonal control.				
Class Test						
1	4	UNIT III and UNIT V		CT		
Final Evaluation (FE)						
1	2	Entire course				FE

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DEPARTMENT OF ZOOLOGY

Teaching Plan

Name(s) of the Staff: Dr.V.Kavitha

Programme: M.Sc., ZOOLOGY

Academic Year: 2018-2019

Course Code: P21ZC103

Semester: I Semester

Course Title: **GENETICS**

Objectives: To make the students

1. Understand the gene concept and principles of Genetics
2. Comprehend gene interaction and their impact on genetic and phenotypic characters
3. Apprehend the microbial genetics, mutation and human genetics.
4. Gain knowledge on genetic disorders.
5. Enrich knowledge in genetic counseling.

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method [L]		12 hrs per unit (or 2 units)		24
Evaluation -Class Tests (CT)		3 hrs (for 2 units)		3
Seminar/problem solving/class work(S)		-		-
Final Evaluation (FE)		3 hrs (Rehearsal)		03
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	2	Classical genetics: Mendel's laws	L			
2	4	Gene interaction: Codominance, Supplementary, Complementary, Epistasis - Dominant	L			
3	3	Pleiotrophism, Penetrance, Expressivity, Sex linked Inheritance in man	L			
4	4	Sex influenced genes, Sex limited genes- Genomic imprinting, X inactivation in mammals	L			
Unit-II						
6	3	ABO Blood grouping and Pseudo allele.	L			
7	3	Linkage and Crossing over in Drosophila - Mechanism	PPT			
8	3	Fine structure of gene -cistron, muton, recon, exon and split genes.	PPT			
9	3	House keeping genes, luxury genes.	L			
Class Test						
1	3	UNIT I and UNIT II		CT		
Final Evaluation (FE)						
1	3	Entire course				FE

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DEPARTMENT OF ZOOLOGY

Teaching Plan

Name(s) of the Staff: Dr.V.Kavitha

Programme: M.Sc., ZOOLOGY

Academic Year:

2018-2019

Semester: III semester

Course Code: P21ZC311

Course Title: MICROBIOLOGY

Objectives:

- To learn the basics of microbes and their environment.
- 2. To gain the knowledge of nutritional requirements for microbial growths.
- 3. To give awareness on microbial world and microbial diseases.

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		15 hrs per unit (for 2 units)	30
Evaluation -Class Tests (CT)		4 hrs (for 2 units)	04
Seminar/problem solving/class work(S)		-	-
Final Evaluation (FE)		2 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.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I						
1	3	Scope and history of microbiology - Classification of microorganisms	L			
2	5	Microbial diversity, general methods of classifying bacteria, fungi, algae and virus.	L			

3	3	Morphology and fine structure of bacterial cells - cell wall and peptidoglycan in Gram positive and Gram negative bacteria.	PPT			
4	4	Reproduction of bacteria and viruses (lytic and lysogenic cycles).	L			
Unit-II						
6	4	Industrial microbiology -Structure of fermenter and fermentation process, fermentation products.	L			
7	2	Production of ethanol, Pharmaceuticals - antibiotic, vitamins.	L			
8	5	Production of microbial enzymes and vaccines	PPT			
9	4	Food microbiology - Food spoilage and food preservation techniques.	L			
Class Test						
1	4	UNIT I and UNIT II		CT		
Final Evaluation (FE)						
1	2	Entire course				FE

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Signature of the Staff Member(s)

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Kumbakonam- 612 001

EVEN SEMESTER

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

DEPARTMENT OF ZOOLOGY

Teaching Plan

Name(s) of the Staff: Dr.V.Kavitha

Programme: B.Sc., ZOOLOGY

Academic Year: 2018-2019

Semester: IV Semester

Course Code: _____

Course Title: **GENETICS AND MOLECULAR BIOLOGY**

Objectives: To comprehend the knowledge on the fine structure of genetic materials their regulation and action and to know the molecular aspects of DNA – fine structure, transcription, and translation.

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method [L]		13 hrs per unit (for 1 unit) 8 hrs for half unit		21
Evaluation –Class Tests (CT)		2 hrs (for 2 units)		02
Seminar/problem solving/class work(S)		-		-
Final Evaluation (FE)		2 hrs (Rehearsal)		02
Hrs per week	2	Credit	5	Total
				25

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	Mendelian laws	L			
2	4	Interaction of genes - complementary, supplementary, inhibitory and lethal.	L			
3	4	Linkage and Multiple alleles - ABO blood group system.	PPT			
4	3	Crossing over in Drosophila – types and mechanism	L			
Unit-IV						
6	2	DNA as the genetic material - Griffith experiment.	PPT			
7	4	Gene concept, Fine structure of DNA and RNA	L			
8	2	DNA Replication	L			
Class Test						
1	2	UNIT I and UNITI IV		CT		
Final Evaluation (FE)						
1	2	Entire course				FE

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GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

DEPARTMENT OF ZOOLOGY

Teaching Plan

Name(s) of the Staff: Dr.V.Kavitha

Programme: B.Sc., ZOOLOGY

Academic Year:

2018-2019

Course Code:

Semester: IV

Course Title: Apiculture (NMEC)

Objectives: To comprehend the knowledge on the apiculture (culture of honeybees)-their species diversity, natural and artificial lives, handling and maintenance of colony and possible prospects of apiculture as self employment venture.

Teaching Methodology			Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method [L]			5 hrs per unit (for 2.5 units)		12
Evaluation -Class Tests (CT)			2hr (for 2.5 units)		02
Seminar/problem solving/class work(S)			-		-
Final Evaluation (FE)			1 hr (Rehearsal)		01
Hrs per week	2	Credit	5	Total	15

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	1	Apiary care and Management – selection of sites – Catching and transforming a colony	L			
2	1	Handling and maintenance of the colony	L			

3	2	Natural enemies and diseases of honey bees	L			
4	1	Control methods.	L			
Unit-IV						
6	2	Instruments employed in Apiary. Newton's hive, honey extractors and smokers.	L			
7	3	Honey: Extraction and apiculture used – Chemical composition – nutritive and medicinal values.	L			
Unit-V						
9	2	Preparing proposal (Layout and budget) for financial assistance of funding agencies.	L			
Class Test						
1	2	UNIT III, UNIT IV and V		CT		
Final Evaluation (FE)						
1	1	Entire course				FE

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Name(s) of the Staff: Dr.V.Kavitha

Programme: M.Sc., ZOOLOGY

Academic Year:

2018-2019

Course Code: P21ZC103

Semester: I Semester

Course Title: **GENETICS**

Objectives: To make the students

1. Understand the gene concept and principles of Genetics
2. Comprehend gene interaction and their impact on genetic and phenotypic characters
3. Apprehend the microbial genetics, mutation and human genetics.
4. Gain knowledge on genetic disorders.
5. Enrich knowledge in genetic counseling.

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method [L]		14 hrs per unit (for 2 units)		31
Evaluation -Class Tests (CT)		3 hrs (for 2 units)		3
Seminar/problem solving/class work(S)		-		-
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.NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
Unit-I						
1	2	Classical genetics: Mendel's laws	L			

2	4	Gene interaction: Codominance, Supplementary, Complementary, Epistasis - Dominant	L			
3	3	Pleiotrophism, Penetrance, Expressivity, Sex linked Inheritance in man	L			
4	4	Sex influenced genes, Sex limited genes- Genomic imprinting, X inactivation in mammals	L			
Unit-II						
6	3	ABO Blood grouping and Pseudo allele.	PPT			
7	3	Linkage and Crossing over in Drosophila - Mechanism	PPT			
8	3	Fine structure of gene - cistron, muton, recon, exon and split genes.	L			
9	3	House keeping genes, luxury genes.	L			
Class Test						
1	3	UNIT I and UNIT II		CT		
Final Evaluation (FE)						
1	2	Entire course				FE

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 Kumbakonam- 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

DEPARTMENT OF ZOOLOGY

Teaching Plan

Name(s) of the Staff: Dr.V.Kavitha

Programme: B.Sc., ZOOLOGY

Academic Year:

2018-2019

Course Code: U20ZC407

Semester: IV Semester

Course Title: **ENVIRONMENTAL BIOLOGY**

Objectives: To imbibe the knowledge on the Environment - their general principles, definition and scope, which influence the living organism through ecosystem structure and components, various habitats, sources of pollution and conservation of wild life.

Teaching Methodology			Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method [L]			13 hrs per unit (for 2 units)		24
Evaluation -Class Tests (CT)			hrs (for 2 units)		04
Seminar/problem solving/class work(S)			-		-
Final Evaluation (FE)			2 hrs (Rehearsal)		2
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	1	Ecology: Definition, scope and branches	L			
2	4	Abiotic factors: water, soil, temperature, light. Biotic factors	PPT			

3	3	Animal relationship - symbiosis, commensalism, mutualism,	L			
4	4	antagonism, antibiosis, parasitism, predation and competition.	L			
Unit-IV						
6	4	Habitat Ecology: Habitat characteristics and fauna and its adaptation in rivers, muddy	L			
7	4	Habitat characteristics and fauna and its adaptation in rocky, mangroves and estuaries	L			
8	2	Habitat characteristics and fauna and its adaptation in deep sea and forest	PPT			
9	2	Habitat characteristics and fauna and its adaptation in desert and cave.				
Class Test						
1	4	UNIT I and UNIT 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 COMMERCE

Teaching Plan

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

Programme: M.Com

Academic Year:

2018-2019

Semester: I semester

Course Code: P18COC101

Course Title: **INDIAN FINANCIAL SYSTEM**

Objectives:

- To enable the Students gain knowledge about Business Law and its 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		
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)		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	Indian financial system- Introduction, concepts – money market – meaning and importance-	L			
2	3	Features of money market Objectives.	L			
3	3	Segmentation of Indian money market	L			
4	3	Difference between money market and capital market	L			
5	2	Composition of money market	L			

UNIT – II							
6	4	New issue market – meaning , concepts- stock exchange	L				
7	5	New issue markets Vs stock exchange – guidelines of instruments	L				
8	4	Players –advantages of NIM- disadvantages	L				
UNIT – III							
9	3	Secondary markets – meaning – service of stock exchange –Listing of securities – advantages -	L				
10	3	Listing procedure- obligations – registration of stock brokers	L				
11	3	Online trading modus operandi –Merits – speculative transaction-	L				
12	2	- kinds of brokers –steps in trading	L				
13	2	Defect of Indian capital market	L				
UNIT – IV							
14	2	Securities and exchange board of India -objectives- functions -	L				
15	3	SEBI- organization- SEBI guidelines for primary market - secondary markets – bonus shares-right issues ,debentures – underwriting	L				
16	2	NSE- objectives –features BSE- segments.	L				
17	3	- investor protections- need .	L				
18	3	Factors- measures	L				
UNIT – V							
19	3	Depository system- definition and meaning- -objectives -	L				
20	3	Activities –interacting institutions – Depository process	L				
21	2	Trading in a depository system-	L				
22	2	SEBI- (depository and participation) Regulation act -benefits	L				
Seminar							
1	3	Unit-I Importance of money markets and capital market				S	
2	3	Unit III- listing of securities				S	
3	4	Unit IV-investor protections – rights				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)

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

Teaching Plan

Name(s) of the Staff: M.RAJA RAJESWARI

Programme: **M.COM**

Academic Year:

2018-2019

Semester: II semester

Course Code:

P18COCB07

Course Title: QUANTITATIVE TECHNIQUES
FOR BUSINESS DECISIONS

Objectives:

- To impart knowledge on quantitative techniques so as to help the students in making business decision.

Teaching Methodology		Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method [L]		12 per unit(1 to 5)		60
ICT Enabled Lectures [I]		-----		-----
Practical Demonstration[P]		-----		-----
Tutorial (T)		-----		-----
Field visit (FV)		-----		-----
Group discussion		-----		-----
Evaluation –Class Tests (CT)		2 hours per unit (5 unit)		10
Seminar/problem solving/class work(S)		3 Hours (1 to 5 unit)		15
Creating awareness about the latest developments in current research sector (CA)				
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: Probability distribution						
1	1	Introduction to Probability distribution				
2	4	Binomial distribution	L			
3	4	Poisson distribution	L			
4	3	Normal distribution	L			
UNIT - II: Linear Programming						
5	1	Introduction to linear programming				
6	4	Mathematical formulation	L			
7	3	Solving LPP using graphical method	L			
8	4	LPP using Simplex Method	L			
UNIT - III: Decision Analysis						
9	1	Decision Analysis – Introduction				
10	3	Decision under risk	L			
11	3	Expected Monetary Value (EMV) Criterion	L			
12	2	Expected Opportunity Loss	L			
13	3	Decision Tree Analysis	L			
UNIT - IV: Transportation and Assignment						
14	1	Transportation Problems – Introduction				
15	2	North West Corner rule	L			
16	2	Least Cost Method	L			
17	3	Vogel's Approximation Method	L			
18	4	Assignment Problems	L			
UNIT - V: Game Theory						
19	3	Introduction – Types				
20	3	Value of game for Pure strategy –	L			
21	3	Dominance rule	L			
22	3	Graphic method	L			
Problem solving/ Class Work						
1	3	Binomial, Poisson, Normal distribution				
2	3	Solving LPP				CW
3	3	Expected Monetary Value (EMV) Criterion				CW
4	3	Expected Opportunity Loss				CW
5	3	Game theory - Dominance rule				CW
CLASS TEST						
1	10	Unit I – Unit II		CT		
Final Evaluation (FE)						
1	5	Entire Course				FE



Head of the Department



Signature of the Staff Member(s)

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

Teaching Plan

Name(s) of the Staff: N.DEEPA

Programme: B.COM

Academic Year:

2018-2019

Semester: III semester

Course Code:

COCC04

Course Title: BUSINESS ACCOUNTING

Objectives:

- To helps the students to prepare different kinds of accounts for concerns of different nature.

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)		1 test per unit(for 5 units)	5		
Seminar/problem solving/class work(S)		(for 5 units)	22		
Creating awareness about the latest developments of commerce in current research sector (CA)		-----	---		
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

L.NO	HOUR	UNIT –CONTENT	MODE OF TEACHING			
			L	CT	S	FE
UNIT –I:BRANCH ACCOUNT AND DEPARTMENTAL ACCOUNT						
1	1	Branch – meaning, type and format theory	L			
2	3	Goods invoiced at cost price	L			
3	2	Goods sent at Invoiced price	L			
4	2	Stock & debtors system (Cost price & Invoiced price)	L			
5	2	Department accounts-meaning-need-advantage – format	L			
6	3	Departmental trading and P & L account.	L			

UNIT - II: HIRE PURCHASE ACCOUNT						
7	1	Hire purchase – definition-features	L			
8	2	Calculation of interest	L			
9	2	Default & repossession	L			
10	2	Royalty accounts	L			
UNIT – III ADMISSION AND RETIREMENT OF PARTNERS						
11	1	Admission of a partner: Theory and format	L			
12	3	Adjustment profit sharing ratio & goodwill	L			
13	3	Adjustment of revaluation account & capital account	L			
14	2	Retirement : ratio & goodwill	L			
15	3	Capital account	L			
16	2	Joint life policy	L			
UNIT - IV: DISSOLUTION OF A FIRM						
17	1	Dissolution of firm- theory & format	L			
18	4	Realization , capital & bank account	L			
19	3	piecemeal distribution & proportionate capital method	L			
20	3	insolvency of a partner	L			
21	3	Garner vs. Murray.	L			
UNIT - V: INSURANCE & INSOLVENCY ACCOUNTS						
22	1	Theory and format	L			
23	2	Loss of stock	L			
24	3	Statement of affairs	L			
25	3	Deficiency account	L			
26	3	Insolvency of individual	L			
PROBLEM SOLVING						
1	4	UNIT I : BRANCH ACCOUNT				PS
2	4	UNIT II : HIRE PURCHASE				PS
3	5	UNIT III : ADMISSION OF A PARTER				PS
4	5	UNIT IV : DISSOLUTION OF A FIRM				PS
5	4	UNIT V : INSOLVENCY ACCOUNTS				PS
Class Test						
1	5	UNIT I to UNIT V				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 COMMERCE

Teaching Plan

Name(s) of the Staff: M.BANUMATHI

Programme: B.COM

Academic Year:

2018-2019

Semester: VI semester

Course Code:

COCF12

Course Title: INCOME TAX THEORY
LAW&PRACTICE

Objectives:

- To provide basic knowledge of Income tax and able to compute the taxable income of individual assessee under different heads of income.

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)		3hrs for 5 units	15
Creating awareness about the latest developments of quantum physics in current research sector (CA)		-----	---
Final Evaluation (FE)		5hrs (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	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
UNIT -I: CONCEPT OF INCOME TAX						
1	2	Meaning of income, important terms used in Income Tax,	L			
2	4	Computation of Residential status of an Individual,	L			
3	4	Computation of Scope of Total Income, Capital and Revenue.	L			
4	2	Incomes exempted from tax.	L			
UNIT - II: INCOME FROM SALARY						
5	2	Salary, features of Salary, Provisions relating to Provident Fund.	L			
6	5	Allowances and Perquisites	L			
7	1	Retirement benefits	L			
8	3	Gross salary and deductions from salary	L			
UNIT - III INCOME FROM HOUSE PROPERTY						
9	2	Meaning and Basis of charge	L			
10	4	Computation of Gross Annual Value and Net Annual Value	L			
11	2	Pre-construction and Post construction Interest	L			
12	4	Computation of income from House property, Deductions u/s 24.	L			
UNIT - IV: PROFITS AND GAINS OF BUSINESS OR PROFESSION						
13	3	Meaning of Business and Profession, provisions relating to them.	L			
14	5	Computations of Profits from Business.	L			
15	4	Computation of Income from Profession.	L			
UNIT - V: INCOME FROM CAPITAL GAIN AND OTHER SOURCES						
16	3	Capital Gain meaning and Basis of charge, Short term and Long term Capital Gain.	L			
17	3	Computation of Short term Capital Gain and Deductions made under it.	L			
18	4	Computation of Long term Capital Gain and deductions made.	L			
19	2	Income from other Sources.	L			
PROBLEM SOLVING						
1	2	UNIT I : Residential status				S
2	4	UNIT II: computation of salary				S
3	3	UNIT III: computation of income from house property				S
4	3	UNIT IV: computation of profits from business or profession				S
5	3	UNIT V: computation of capital gain				S
Class Test						
1	10	UNIT I to UNIT V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE



Head of the Department

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Teaching Plan

Name(s) of the Staff: **M.BANUMATHI.**

Programme: B.Com

Academic Year:

2018-2019

Semester: I semester

Course Code : 18C0C101

Course Title: **FINANCIAL ACCOUNTING**

Objectives:

- To help the Students to acquire knowledge of financial accounting and to impart skills for recording various kinds of business transactions.

Teaching Methodology	Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]	14hrs per unit (for 5 units)	70
ICT Enabled Lectures [I]	-----	-----
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)	For 5 Units	13
Creating awareness (CA)	----	----
Final Evaluation (FE)	3 hrs (Rehearsal)	02
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	Preparation of Trial Balance.				
2	4	Trading A/C, Profit & Loss A/C	L			
3	4	Balance Sheet of Trading Concerns	L			
4	3	Rectification of errors	L			
UNIT - II						
5	4	Depreciation- Methods of providing depreciation	L			
6	5	Fixed instalment method, reducing balance method, annuity method	L			
7	5	Provisions and reserves, Bank Reconciliation statement	L			
UNIT - III						
8	5	Single Entry				
9	5	Statement of affairs method	L			
10	4	Conversion method	L			
UNIT - IV						
11	5	Average due date	L			
12	9	Bills of Exchange	L			
UNIT -V						
13	4	Accounts of Non- trading concerns - introduction	L			
14	4	Receipts and Payments A/C	L			
15	4	Income & Expenditure A/C	L			
16	2	Balance Sheet	L			
Seminar						
1	5	Unit-I Preparation of Trial Balance			S	
2	4	Unit III - Statement of affairs method			S	
3	4	Unit IV- Bills of Exchange			S	
Class Test						
1	5	Unit I to V		CT		
Final Evaluation (FE)						
1	2	Entire course - Unit I to Unit V				FE



Head of the Department



Signature of the Staff

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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:

2018-2019

Semester: II semester

Course Code:

18COC203

Course Title: **BUSINESS STATISTICS**

Objectives:

- To provide basic knowledge about the statistical techniques among the students.

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)			5 test per unit		02
Seminar/problem solving /class work(S)			(for 5 units)		10
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

SL.NO	HOUR	UNIT –CONTENT	MODE OF TEACHING			
			L	CT	S	FE
UNIT –I: INTRODUCTION TO STATISTICS						
1	3	Introduction to Statistics	L			
2	3	Central Tendency – Arithmetic mean,	L			
3	3	Median and Mode	L			
4	3	Geometric mean and Harmonic mean	L			

UNIT - II: DISPERSION					
5	2	Measures of Dispersion			
6	3	Range – Quartiles	L		
7	2	Deciles – Percentiles	L		
8	2	Quartile Deviation – Mean Deviation	L		
9	3	Standard Deviation – Co-efficient of variation	L		
UNIT – III MEASUREMENT OF SKEWNESS					
10	3	Measurement of Skewness : Karl Pearson & Bowley's method	L		
11	3	correlation - Karl Pearson	L		
12	3	Spearman's Rank correlation (simple ranks only)	L		
13	3	co-efficient of concurrent deviation	L		
UNIT – IV REGRESSION ANALYSIS					
14	2	Regression analysis – simple regression	L		
15	2	equations – X on Y – Y on X	L		
16	3	Time series analysis – components	L		
17	3	fitting a straight line by method of least square	L		
18	2	moving average	L		
UNIT - V: INDEX NUMBER					
19	3	Index numbers – weighted and unweighted	L		
20	2	price index numbers – test in index numbers	L		
21	3	time and factor reversal test	L		
22	2	cost of living index number – aggregate method	L		
23	2	family budget method	L		
PROBLEM SOLVING					
1	2	UNIT I : Mean and median			S
2	2	UNIT II: standard deviation			S
3	2	UNIT III: co efficient of correlation			S
4	2	UNIT IV: moving average and regression			S
5	2	UNIT V; price index.			S
Class Test					
1	2	UNIT I to UNIT V		CT	
Final Evaluation (FE)					
1	3	Entire course			FE



Head of the Department



Signature of the Staff Member(s)

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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:

2018-2019

Semester: I semester

Course Code: P18COC101

Course Title: **INDIAN FINANCIAL SYSTEM**

Objectives:

- To enable the Students gain knowledge about Business Law and its 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		
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)		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	Indian financial system- Introduction, concepts – money market – meaning and importance-	L			
2	3	Features of money market Objectives.	L			
3	3	Segmentation of Indian money market	L			
4	3	Difference between money market and capital market	L			
5	2	Composition of money market	L			

UNIT – II						
6	4	New issue market – meaning , concepts- stock exchange	L			
7	5	New issue markets Vs stock exchange – guidelines of instruments	L			
8	4	Players –advantages of NIM- disadvantages	L			
UNIT – III						
9	3	Secondary markets – meaning – service of stock exchange –Listing of securities – advantages -	L			
10	3	Listing procedure- obligations – registration of stock brokers	L			
11	3	Online trading modus operandi –Merits – speculative transaction-	L			
12	2	- kinds of brokers –steps in trading	L			
13	2	Defect of Indian capital market	L			
UNIT – IV						
14	2	Securities and exchange board of India -objectives- functions -	L			
15	3	SEBI- organization- SEBI guidelines for primary market - secondary markets – bonus shares-right issues ,debentures – underwriting	L			
16	2	NSE- objectives –features BSE- segments.	L			
17	3	- investor protections- need .	L			
18	3	Factors- measures	L			
UNIT – V						
19	3	Depository system- definition and meaning- -objectives -	L			
20	3	Activities –interacting institutions – Depository process	L			
21	2	Trading in a depository system-	L			
22	2	SEBI- (depository and participation) Regulation act -benefits	L			
Seminar						
1	3	Unit-I Importance of money markets and capital market			S	
2	3	Unit III- listing of securities			S	
3	4	Unit IV-investor protections – rights			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)

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

Teaching Plan

Name(s) of the Staff: M.RAJA RAJESWARI

Programme: M.COM

Academic Year:

2018-2019

Semester: II semester

Course Code:

P18COCB07

Course Title: QUANTITATIVE TECHNIQUES
FOR BUSINESS DECISIONS

Objectives:

- To impart knowledge on quantitative techniques so as to help the students in making business decision.

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		12 per unit(1 to 5)	60
ICT Enabled Lectures [I]		-----	-----
Practical Demonstration[P]		-----	-----
Tutorial (T)		-----	-----
Field visit (FV)		-----	-----
Group discussion		-----	-----
Evaluation –Class Tests (CT)		2 hours per unit (5 unit)	10
Seminar/problem solving/class work(S)		3 Hours (1 to 5 unit)	15
Creating awareness about the latest developments in current research sector (CA)			
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: Probability distribution						
1	1	Introduction to Probability distribution				
2	4	Binomial distribution	L			
3	4	Poisson distribution	L			
4	3	Normal distribution	L			
UNIT - II: Linear Programming						
5	1	Introduction to linear programming				
6	4	Mathematical formulation	L			
7	3	Solving LPP using graphical method	L			
8	4	LPP using Simplex Method	L			
UNIT - III: Decision Analysis						
9	1	Decision Analysis – Introduction				
10	3	Decision under risk	L			
11	3	Expected Monetary Value (EMV) Criterion	L			
12	2	Expected Opportunity Loss	L			
13	3	Decision Tree Analysis	L			
UNIT - IV: Transportation and Assignment						
14	1	Transportation Problems – Introduction				
15	2	North West Corner rule	L			
16	2	Least Cost Method	L			
17	3	Vogel's Approximation Method	L			
18	4	Assignment Problems	L			
UNIT - V: Game Theory						
19	3	Introduction – Types				
20	3	Value of game for Pure strategy –	L			
21	3	Dominance rule	L			
22	3	Graphic method	L			
Problem solving/ Class Work						
1	3	Binomial, Poisson, Normal distribution				
2	3	Solving LPP				CW
3	3	Expected Monetary Value (EMV) Criterion				CW
4	3	Expected Opportunity Loss				CW
5	3	Game theory - Dominance rule				CW
CLASS TEST						
1	10	Unit I – Unit II		CT		
Final Evaluation (FE)						
1	5	Entire Course				FE



Head of the Department



Signature of the Staff Member(s)

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

Teaching Plan

Name(s) of the Staff: N.DEEPA

Programme: B.COM

Academic Year:

2018-2019

Semester: III semester

Course Code:

COCC04

Course Title: BUSINESS ACCOUNTING

Objectives:

- To helps the students to prepare different kinds of accounts for concerns of different nature.

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)		1 test per unit(for 5 units)	5		
Seminar/problem solving/class work(S)		(for 5 units)	22		
Creating awareness about the latest developments of commerce in current research sector (CA)		-----	---		
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

L.NO	HOUR	UNIT –CONTENT	MODE OF TEACHING			
			L	CT	S	FE
UNIT –I:BRANCH ACCOUNT AND DEPARTMENTAL ACCOUNT						
1	1	Branch – meaning, type and format theory	L			
2	3	Goods invoiced at cost price	L			
3	2	Goods sent at Invoiced price	L			
4	2	Stock & debtors system (Cost price & Invoiced price)	L			
5	2	Department accounts-meaning-need-advantage – format	L			
6	3	Departmental trading and P & L account.	L			

UNIT - II: HIRE PURCHASE ACCOUNT						
7	1	Hire purchase – definition-features	L			
8	2	Calculation of interest	L			
9	2	Default & repossession	L			
10	2	Royalty accounts	L			
UNIT – III ADMISSION AND RETIREMENT OF PARTNERS						
11	1	Admission of a partner: Theory and format	L			
12	3	Adjustment profit sharing ratio & goodwill	L			
13	3	Adjustment of revaluation account & capital account	L			
14	2	Retirement : ratio & goodwill	L			
15	3	Capital account	L			
16	2	Joint life policy	L			
UNIT - IV: DISSOLUTION OF A FIRM						
17	1	Dissolution of firm- theory & format	L			
18	4	Realization , capital & bank account	L			
19	3	piecemeal distribution & proportionate capital method	L			
20	3	insolvency of a partner	L			
21	3	Garner vs. Murray.	L			
UNIT - V: INSURANCE & INSOLVENCY ACCOUNTS						
22	1	Theory and format	L			
23	2	Loss of stock	L			
24	3	Statement of affairs	L			
25	3	Deficiency account	L			
26	3	Insolvency of individual	L			
PROBLEM SOLVING						
1	4	UNIT I : BRANCH ACCOUNT				PS
2	4	UNIT II : HIRE PURCHASE				PS
3	5	UNIT III : ADMISSION OF A PARTER				PS
4	5	UNIT IV : DISSOLUTION OF A FIRM				PS
5	4	UNIT V : INSOLVENCY ACCOUNTS				PS
Class Test						
1	5	UNIT I to UNIT V				CT
Final Evaluation (FE)						
1	3	Entire course				FE



Head of the Department

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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: B.COM

Academic Year:

2018-2019

Semester: VI semester

Course Code:

COCF12

Course Title: INCOME TAX THEORY
LAW&PRACTICE

Objectives:

- To provide basic knowledge of Income tax and able to compute the taxable income of individual assessee under different heads of income.

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)		3hrs for 5 units	15
Creating awareness about the latest developments of quantum physics in current research sector (CA)		-----	---
Final Evaluation (FE)		5hrs (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	HOUR	UNIT -CONTENT	MODE OF TEACHING			
			L	CT	S	FE
UNIT -I: CONCEPT OF INCOME TAX						
1	2	Meaning of income, important terms used in Income Tax,	L			
2	4	Computation of Residential status of an Individual,	L			
3	4	Computation of Scope of Total Income, Capital and Revenue.	L			
4	2	Incomes exempted from tax.	L			
UNIT - II: INCOME FROM SALARY						
5	2	Salary, features of Salary, Provisions relating to Provident Fund.	L			
6	5	Allowances and Perquisites	L			
7	1	Retirement benefits	L			
8	3	Gross salary and deductions from salary	L			
UNIT - III INCOME FROM HOUSE PROPERTY						
9	2	Meaning and Basis of charge	L			
10	4	Computation of Gross Annual Value and Net Annual Value	L			
11	2	Pre-construction and Post construction Interest	L			
12	4	Computation of income from House property, Deductions u/s 24.	L			
UNIT - IV: PROFITS AND GAINS OF BUSINESS OR PROFESSION						
13	3	Meaning of Business and Profession, provisions relating to them.	L			
14	5	Computations of Profits from Business.	L			
15	4	Computation of Income from Profession.	L			
UNIT - V: INCOME FROM CAPITAL GAIN AND OTHER SOURCES						
16	3	Capital Gain meaning and Basis of charge, Short term and Long term Capital Gain.	L			
17	3	Computation of Short term Capital Gain and Deductions made under it.	L			
18	4	Computation of Long term Capital Gain and deductions made.	L			
19	2	Income from other Sources.	L			
PROBLEM SOLVING						
1	2	UNIT I : Residential status				S
2	4	UNIT II: computation of salary				S
3	3	UNIT III: computation of income from house property				S
4	3	UNIT IV: computation of profits from business or profession				S
5	3	UNIT V: computation of capital gain				S
Class Test						
1	10	UNIT I to UNIT V		CT		
Final Evaluation (FE)						
1	3	Entire course				FE



Head of the Department

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Signature of the Staff Member(s)



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Teaching Plan

Name(s) of the Staff: **M.BANUMATHI.**

Programme: B.Com

Academic Year:

2018-2019

Semester: I semester

Course Code : 18C0C101

Course Title: **FINANCIAL ACCOUNTING**

Objectives:

- To help the Students to acquire knowledge of financial accounting and to impart skills for recording various kinds of business transactions.

Teaching Methodology			Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk and Talk Method [L]			14hrs per unit (for 5 units)		70
ICT Enabled Lectures [I]			-----		-----
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)			For 5 Units		13
Creating awareness (CA)			----		----
Final Evaluation (FE)			3 hrs (Rehearsal)		02
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	Preparation of Trial Balance.				
2	4	Trading A/C, Profit & Loss A/C	L			
3	4	Balance Sheet of Trading Concerns	L			
4	3	Rectification of errors	L			
UNIT - II						
5	4	Depreciation- Methods of providing depreciation	L			
6	5	Fixed instalment method, reducing balance method, annuity method	L			
7	5	Provisions and reserves, Bank Reconciliation statement	L			
UNIT - III						
8	5	Single Entry				
9	5	Statement of affairs method	L			
10	4	Conversion method	L			
UNIT - IV						
11	5	Average due date	L			
12	9	Bills of Exchange	L			
UNIT -V						
13	4	Accounts of Non- trading concerns - introduction	L			
14	4	Receipts and Payments A/C	L			
15	4	Income & Expenditure A/C	L			
16	2	Balance Sheet	L			
Seminar						
1	5	Unit-I Preparation of Trial Balance			S	
2	4	Unit III - Statement of affairs method			S	
3	4	Unit IV- Bills of Exchange			S	
Class Test						
1	5	Unit I to V		CT		
Final Evaluation (FE)						
1	2	Entire course - Unit I to Unit V				FE

Head of the Department

Signature of the Staff

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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:

2018-2019

Semester: II semester

Course Code:

18COC203

Course Title: **BUSINESS STATISTICS**

Objectives:

- To provide basic knowledge about the statistical techniques among the students.

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)			5 test per unit		02
Seminar/problem solving /class work(S)			(for 5 units)		10
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

SL.NO	HOUR	UNIT –CONTENT	MODE OF TEACHING			
			L	CT	S	FE
UNIT –I: INTRODUCTION TO STATISTICS						
1	3	Introduction to Statistics	L			
2	3	Central Tendency – Arithmetic mean,	L			
3	3	Median and Mode	L			
4	3	Geometric mean and Harmonic mean	L			

UNIT - II: DISPERSION					
5	2	Measures of Dispersion			
6	3	Range – Quartiles	L		
7	2	Deciles – Percentiles	L		
8	2	Quartile Deviation – Mean Deviation	L		
9	3	Standard Deviation – Co-efficient of variation	L		
UNIT – III MEASUREMENT OF SKEWNESS					
10	3	Measurement of Skewness : Karl Pearson & Bowley's method	L		
11	3	correlation - Karl Pearson	L		
12	3	Spearman's Rank correlation (simple ranks only)	L		
13	3	co-efficient of concurrent deviation	L		
UNIT – IV REGRESSION ANALYSIS					
14	2	Regression analysis – simple regression	L		
15	2	equations – X on Y – Y on X	L		
16	3	Time series analysis – components	L		
17	3	fitting a straight line by method of least square	L		
18	2	moving average	L		
UNIT - V: INDEX NUMBER					
19	3	Index numbers – weighted and unweighted	L		
20	2	price index numbers – test in index numbers	L		
21	3	time and factor reversal test	L		
22	2	cost of living index number – aggregate method	L		
23	2	family budget method	L		
PROBLEM SOLVING					
1	2	UNIT I : Mean and median			S
2	2	UNIT II: standard deviation			S
3	2	UNIT III: co efficient of correlation			S
4	2	UNIT IV: moving average and regression			S
5	2	UNIT V; price index.			S
Class Test					
1	2	UNIT I to UNIT V		CT	
Final Evaluation (FE)					
1	3	Entire course			FE



Head of the Department



Signature of the Staff Member(s)

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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

Semester: I semester

Course Title: EC I ARCHAEOLOGY

Academic Year: 2018-2019

Course Code: P18HSC1EC1

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	-	-
2.	II	Surface Exploration-Methods and Equipments:Objectives,Survey of Pre-History,Proto-Historic and Historical sites-Excavational Equipments-Methods of Excavation-Dating methods:Preservation of Atrifacts-Study of Numismatics – Role of Museum.	5	-	-	1	1	1	-
3.	III	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	-
4.	IV	Epigraphy as source material-Study of Brahmi – Tamil-Nagari-Vatteluthu-Grandha-Selected Inscriptions-Arachur-Puhalur-Meenakshipuram,Annamalai-Kalugumalai-Mandagapattu	5	1	-	1	-	-	-
5.	V	Temple Architecture –Pallavas-Cave temples-Five rathas,Kalugumalai,Vettuvankovil-Pallavas-Pandya Style-Cholas Big Temple,Gngaikonda Cholapuram,Darasuram Temple	5	1	-	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.

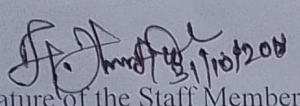
Model Examination: 75 marks as per end semester question paper pattern.

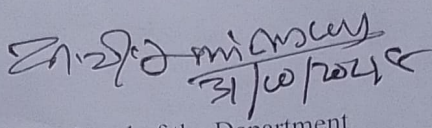
Assignment Topic I for 10 marks: Alexander Cunnigham (Unit III)

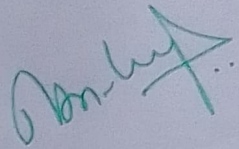
Assignment Topic II for 10 marks: Vatteluthu (Unit IV)

Assignment Topic III for 10 marks: Five Rathas (Unit V)

Seminar Topics from Unit I,II,IIISeminar 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

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: **2018-19**

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	-	-	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	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)

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: Scientific Inventions (Unit II)

Assignment Topic II for 5 marks : Louis XIV of France (Unit III)

Assignment Topic III for 5 marks: Thirty Years of Wars (Unit IV)

Seminar Topics from Units I, 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)
Govt. College for Women (A)
Kumbakonam- 612 004

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

Teaching Plan

Name of the Staff: Mrs.K.Durgadevi

Programme : B.A. HISTORY

Academic Year: 2018-2019

Semester: V semester

Course Code: 18HSC510

Course Title: History of U.S.A FROM 1776A.D to 1900 A.D

Objectives:

- To know causes for the rise of nationalism in America.
- To study about the Economic development in U.S.A.
- To understand the works of various leaders in the America.

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.NO	UNIT	TOPICS	LECTURE	ASSIGNMENT	GROUP DISCUSSION	EVALUATION-CLASS TESTS	SEMINAR	CREATING AWARENESS	FE
1	I	American war of independence, The making of constitution, Washington's presidency johnAdams.	5	1	-	-	-	-	-
2.	II	Jeffersonian republicanism, madison and the war of 1812 james munroe and the Era of good feelings, munroe's doctrine.	5	-	-	1	1	1	
3.	III	Andrew jackson's presidency, westward movement ,the issue of slavery in American politics.	5	1	-	-	1	1	
4.	IV	Abraham Lincoln, the civil war 1860 to 1865, causes, courses and the results of the civil war , reconstruction.	5	-	-	1	1	1	
5.	V	The rise of big business and industry, the populist and the granger,	5	1	-	1	-	-	3(Model)

		movement trade unions, U.S. Imperialism, the Spanish American war of 1898.							E x a m i n a t i o n)
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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 5 marks: The American war of independence (Unit-I)

Assignment Topic II for 5 marks: Westward Movement (Unit-III)

Assignment Topic III for 5 marks: The civil war-1862-1865 (Unit-IV)

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

Donkey
Faculty
31.10.2018

Shobana
HOD
31/10/2018

Shobana
IQAC Coordinator

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

Teaching Plan

Name(s) of the Staff: Dr.S.GEETHA ✓

Programme: M.Sc., APPLIED GEOGRAPHY Academic Year: 2018-2019 NOVEMBER

Semester: III SEMESTER Course Code:P18GC102

Course Title: CLIMATOLOGY AND OCEANOGRAPHY

Objectives:

- To learn about the nature of atmosphere and dynamics processes
- To understand the various climatic elements and climatic zones

Teaching Methodology		Distribution of hours/Unit	Total Hours of Instruction		
Traditional Chalk and Talk Method [L]		13hrs 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)		---	---		
Group discussion		2 hours	2		
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 climatic elements (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

Ocean deposits	3	1	
Coral reef ,conditions for growth	3		
Types and distribution of coral reefs	3		1
Class test		1	1

Unit - V Temperature and salinity,vertical and horizontal distribution 5

Density of the sea water,movement of sea water,currents 5 1

Waves,tides and tsunami 3

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: General circulation of atmosphere

Assignment Topic II for 10 marks:health hazards

Assignment Topic III for 10 mark: vertical and horizontal distribution of temperature


Head of the Department

 
IQAC Co-ordinator. Signature of the Staff Member(s)

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

Teaching Plan

Name(s) of the Staff: Dr.S.NITHYA

Programme: B.Sc., GEOGRAPHY

Academic Year: 2018-
2019 April ✓

Semester: IV SEMESTER

Course Code:U21GC509

Course Title: OCEANOGRAPHY

Objectives:

- To understand the Dynamic nature of ocean
- To learn about the characteristic features of marine environment

Teaching Methodology	Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]	10 hrs per unit (for 5 units)	50
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 in ocean (CA)	1 hour per unit(for 5 units)	05
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

Unit wise Teaching and Evaluation Plan

Unit Wise Topics	L	I	P	T	FV	C T	S	C A	FE
Unit-I Nature,scope and significance of oceanography ,distribution of land and sea	3								
Surface configuration of the ocean floor	3								
Continental slope ,deep sea plain	2			1					
Oceanic deeps	2						1		
Class Test						1		1	
Unit- II major relief features of the pacific	3								
Atlandic andn Indian ocean	3		1	1					
Ocean deposite	2						1		
Classification of ocean deposite	2								
Class test						1		1	1
Unit - III temperature ,salinity and density of sea water	4								
Controlling factors	3								
Distribution of ocean water	3						1		
			1	1					
Class test							1	1	1
Unit-IV dynamics of ocean	3								
Waves ,tides and current	3			1					
Major types and effects	2								
Ocean oscillation	2						1		

Class test

1 1

Unit - V marine resource :types

4

Distribution and uses

3

1

Coral reefs:origin and types

3

Class Test

1

1

1

Rehearsal Examination

3

Total Hours

75

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:surface configuration of ocean floor

Assignment Topic II for 10 marks: dynamics of ocean

Assignment Topic III for 10 mark: marine resources –origin and types

J. S. S. S.
Head of the Department

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

Amulya
IQAC Coordinator.

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 009

Teaching Plan

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

Programme: B.Sc., GEOGRAPHY

Academic Year: 2018-
2019 April

Semester: III SEMESTER

Course Code:U21GC203

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

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 T	S	C A	FE
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

90

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: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
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.V.KALYANI

Programme: BSc., GEOGRAPHY

Academic Year: 2018-2019 NOVEMBER

Semester: V SEMESTER

Course Code:18GC614

Course Title: GEOGRAPHY OF INDIA

Objectives:

- To understand the Physical and human environment of india
- To learn about special focus on geography of tamilnadu

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 major resources in india (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

Software industry

3

1

Class test

1

1

Unit - V Demographic trends in 5
india, density of population

Urbanization ,transport:surface,air,water and 4
pipe line

1

Major export and import items of india 4

Class Test

1

1

1

Rehearsal Examination

3

Total Hours

90

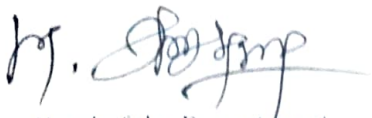
Components of Students' Evaluation for Continuous Internal Assessment:

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

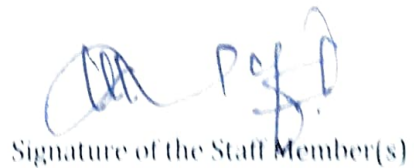
Assignment Topic I: for 10 marks: major physiographic divisions in india

Assignment Topic II for 10 marks: distribution and production of major industries

Assignment Topic III for 10 mark: urbanization in india



Head of the Department



Signature of the Staff Member(s)


IQAC Coordinator.

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