GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

KUMBAKONAM - 612 001

Affiliated to Bharathidasan University
DST - CURIE Sponsored Institution

IV Cycle of Accreditation



Estd. 1963





CRITERION II – TEACHING - LEARNING AND EVALUATION

2.3 Teaching - Learning Process

2.3.3 Academic Calendar and Teaching plans by the Institution

TEACHING PLANS

2022-2023

2022-2023 (Odd Sem)

பாடத்திட்டஅமைவு

பெயர் முனைவர். ப.சத்யா

on(in) title 2022-2023

வகப்பு இளங்கலை முதலாமாண்டு

தாள் குறியீடு U21TLC101

பக்ளம் முதல் பக்வம்

தூள்: இக்கால இலக்கியம்

நோக்கம் :இக்கால் இலக்கியப் படைப்பாளிகளின் படைப்புகள் வழி அவற்றின் சமூகப்பார்வை,

மனிதநேயம் .பண்பாடுபற்றிய புதிய சிந்தனைகளை அறிமுகப் படுத்துதல் மொத்தம் பயிற்றும் முறைகள் வகுப்புப் ഖ.ଗ 6001 பங்கீடு(அலகு) 75 அலகுவாரியாக13 கரும்பலகையின் வழி 1 மணிநேரம் Chak& Talk 03 தேவையானஅலகிற்கு வரைபடம் புலனம் வழி .05 5தேர்வு 5 அலகு 3 வகப்புத்தேர்வுவாய்மொழி,எழுத்துவழி 05 5 அலகுகள் (1வகுப்பு கருத்தரங்கம்,கலந்துரையாடல் 4 நேரம்) 02 இறுதிமதிப்பீடுதிருப்புதல் தேர்வு 02 5 90 Per week credit 4 மொத்தம்

வ.எண்	வாரவாரியானவகுப்பு	பயிற்றுவகுப்புகள்- மொத்தம்
I	06	90

பாடத்திட்டம்,பயிற்றுமுறை,மதிப்பிடும் முறை

· 11.12 - 11.440

	பாட <i>த்தி</i> ட்டம்,ட	யர்ற்றுமுன	ற,மதிப்பிடும்	ரியை		
ഖ.எ ൽ	அலகுவாரியாக	வகுப்பு	வரைபடம்	தோவு	கருத்தரங்கம்	திருப்புதல் தேர்வு
1	பாரதியார் பாடல்கள் கண்ணன் என் தேரமுன் கண்ணன் என் தந்தை கண்ணன் என் குழந்தை பாரதிதாசன் குழந்தை பாரதிதாசன் தமிழின் இனிமை, எந்நாளோ? கவிக்கோஅப்துல் ரகுமான் பால்விதி	02 02 02 03 06		01	01	01
	பெண்ணின் பெருமை பெண் ஆண் - பெண்ணின் முதன்மை—பெண்ணுரிமை— பெண் வளர்ப்பு - இரைவழி இயற்கைஅரம் - திருமணம் - இன்பவாழ்வு— பிள்ளைப் பேறு— பெண்ணலம் - பதியிலார் - கைம்மை—பெண்மை— தாய்மை - இறைமை	03 02 03 02 05		01	01	

	சிறுகதை					
	சிறுகதைஅறிமுகம	.03				
	பாயவிஜயம் தீட்டுத்துணி,	03		3	01	01
3	குற்றவாளி யர் ?	03	ot	0.1	()1	
	செள்ளாழை,தேவதையின் துபரம், பேப் ஓடிப்போச்சு,	03				
	சந்தர்ப்பம்,பகல் சோறு. அப்பாவும் மகனும், ஊசல்,	03				
	நாடகம்					
4	நாடகம் அறிமுகம்	02				
4	ரௌத்திரம் பழகு	13	01	01	01	
5	புதினம்					
	புதினம் அறிமுகம்	04	Q.,	01	01	01
	ஊருக்குள் ஒருபுரட்சி	П				
		60	02	05	05	03

தேர்வுவிபரம்

தோவு: 5 தோவுகள் 25 மதிப்பெண்கள் பிரிவு அ: 10X1=10 பிரிவு ஆ:1X5=05

பிரிவு இ: 1X10=<u>10</u> 25

Incharge staff

Hod

IQAC Co - Ordinator

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumpakonam- \$12,001

பாடத்திட்ட அமைவு

பெயா முனைவர் நா. சத்பா

வருடம் : 2022-2023

வகுப்பு முதுகலை முதலாமாண்டு

தாள் குறியீடு : P21TA1MBE1:1

பருவம் முதல் பருவம்

தாள் : பண்பாட்டு மானுடவியல்

ோக்கம் மனித வரலாற்றின் பண்பாடு குறித்த செய்திகளை அறிதல்

வ.எ ண்	பயிற்றும் முறைகள்	வகுப்புப் பங்கீடு(அலகு)	மொத்தம்	
I	கரும்பலகையின் வழி Chak& Talk	அலகுவாரியாக12 மணிநேரம்	60	
2	வரைபடம் புலனம் வழி	தேவையானஅலகிற்கு	03	
3	வகுப்புத்தோவுவாய்மொழி எழுத்துவழி	5தோவு 5 அலகு	05	
4	கருத்தரங்கம்.கலந்துரையாடல்	5 அலகுகள் (1வகுப்பு நேரம்)	05	
	இறுதிமதிப்பீடுதிருப்புதல் தேர்வு	02	02	
1	Per week credit 4	மொத்தம்	75	

ഖ.எண்	வாரவாரியானவகுப்பு	பயிற்றுவகுப்புகள்- மொத்தம்		
1	05	75		

பாடத்திட்டம்,பயிற்றுமுறை,மதிப்பிடும் முறை

ഖ.எ ൽ	அ ல்குவாரியாக		வுந்.மதிப்பு(9	w.to	
		வகுப்பு	வரைபடம்	Cartag	கருத்தரங்கம்	
l	மானுடவியலின் தோற்றம் வளர்ச்சி அறிருர்களின் கருத்து இந்தியாவின் மானுடவியல் வளர்ச்சி – அறினொவிக்காலச் சிந்தனைகள்	03 03 03 03	01	01	பு	திருப்புத ை தே
3	அமைப்பியல் பண்பாட்டுஅமைப்பியல் மானுடவியலில் குடும்பம், திருமணம்,உறவுமுறை, உணவு.விளையாட்டு.கலை கள் சமுதாயம் சமயநம்பிக்கைகள்,அரசிய ல் முறைகள்	03 03 03 03	01	01	01	
4	மானுடவியல் வரலாறும் சங்ககாலமும் தாய்வழிச் சமூகம் - இனக்குழு– வேளாண் ஆயர் - பாணர் - சங்க இலக்கியத்தில் தழையாடை–காப்பியம் காலமானுடவியல் சமயமானுடவியல் இக்காலமானுடவியல்	03 03 03 03	01	(1)		01
5	பண்பாட்டுமாற்றம் - கண்டுபிடிப்புகள் நவீனமயமாக்கல் - தொழில் மயமாதல் - மானுடவியல் சட்டங்கள்	03 03 03 03		01	01	01
			1 7	1		

தேர்வுவிபரம்

தேர்வு: 5 தேச்வுகள் 25 மதிப்பெண்கள்

பிரிவு அ: 10X1=10

பிரிவு ஆ. 1X5=05

பிரிவு இ IX10=10

25

IQAC Co - Ordinator

Co-ordinator

Internal Quality Assurance Cell (IQAC) Gov! College for Women (A) Kumbakonam- 612 001

Unister Honlog

ெயர் முனைவர். ப செந்தில்குமாரி.

வருடம்: 2022-2023

வதப்பு முதுகலை இரண்டாமாண்டு

தாள் குறியீடு : P21TA3MBE3:2

பருவம் முன்றுரம். பருவம்

தாள்: சோழநாட்டியல்

நேரக்கம் : 1.மாணவர்கள் தாம் வாழ்கின்ற பகுதிசார்ந்த வரலாற்று சிறப்புகளை அறிதல்

5 0 61	பயிற் று ம் முறைகள்	வகுப்புப் பங் கீடு (அலகு)	மொத்தம்
1	கரும்பலகையின் வழி		
	Chak& Talk	அலகுவாரியாக†5 மணிநேரம்	75
2	வரைபடம் புலனம் வழி		
3		தேவையானஅலகிற்கு	02
	வகுப்புத்தேர்வுவாய்மொழி,எழுத்துவழி	5தேர்வு 5 அலகு	
4	கருத்தரங்கம்,கலந்துரையாடல்		05
	المالية	5 அலகுகள் (1வகுப்பு	06
		நேரம்)	
	இறுதிமதிப்பீடுதிருப்புதல் தேர்வு		
		02	02
	Per week credit 6	மொத்தம்	
			90

வி.எண்	வாரவாரியானவகுப்பு	பயிற்றுவகுப்புகள்- மொத்தம்
1	06	
		90

பாடத்திட்டம்,பயிற்றுமுறை,மதிப்பிடும் முறை

வ.எ ண்	அலகுவாரிபாக		முற்று	டும் மே	മ്യ	
1		வகுப்பு	வரைபடம்	தோவு	கருத்தரங்கம்	திருப்புதல்
1	சோழநாட்டின் புவியமைப்பு –	04		-		தேர்வு
	சோழநாட்டின் எல்லை	03				
		03				
	சோழநாட்டின் சமூகநிலை	05	01	01	01	-
	சோழர்களின் அரசியல்					
2	நிர்வாகம் சங்ககாலச்	05				
2,	சோழராட்சி - பிற்காலச்	05				
	சோழராட்சி - பிற்காலச் சோழராட்சி	05	01	01	03	
	சோழநாட்டு இலக்கியங்கள்	05				
	சுங்க இலக்கியங்கள் வழி	05				
7	சோழர்	05			1	
3	பெருமைகாப்பியங்கள்வழி		01	02	02	
	சாழர் பெருமை				-	
	சிற்றிலக்கியங்கள் வழி					
	சோழர் பெருமை					
	சோழர் காலகலைகள் -	05				
4	கட்டடக்கலை -சிற்பக்கலை	05				
	- ஓவியக்கலை	05				
			***	01	01	
5	சோழநாட்டுப் புலவர்கள் -	05				
	உரையாசிரியாகள் -	05				
	திறனாய்வாளர்கள்	05				

		75	03	05	07	

தேர்வு விபரம்

தேர்வு: 5 தேர்வுகள் 25 மதிப்பெண்கள் பிரிவு அ: 10X1=10

பிரிவு ஆ:1X5=05

பிரிவு இ: IX10=<u>10</u>

25

IQAC Co - Ordinator

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

2022-2023 (Even Sem)

பாடத்திட்டஅமைவு

பெயர்:முனைவர் து.அசோகன்

வருடம்: 2022-2023

வகுப்பு:

முதுகலை இரண்டாமாண்டு

தாள் குறியீடு: P20TAC311

பருவம்: மூன்றாம் பருவம்

தாள்: தொல் (பொருள்)

நோக்கம்: 1.தொன்மைத் தமிழரின் வாழ்வியல் கோட்பாடுகளை எடுத்துரைத்தல்.

2. நாகரிகம் பண்பாட்டின் மேன்மையை எடுத்துரைத்தல்

ฌ .எ	பயிற்றும் முறைகள்	வகுப்புப்	மொத்தம்
600 i		பங்கீடு(அலகு)	
1	கரும்பலகை	ஒருஅலகிற்கு 15 மணிநேரம்(5 அலகு)	75
2	வரைபடம் புலனம்	தேவையானஅளவு	03
3	வகுப்புத்தோவு	சிறுதேர்வுகள்	05
4	கருத்தரங்கம் கலந்துரையாடல்	சிறுசிறுகுழுவாகப் பிரித்துக் கலந்துரையாடல்	05
5	இறுதிமதிப்பீடுதிருப்புதல் தோவு	02	02
		மொத்தம்	90

റെ	<u></u> ப.எண்	வாரவாரியானவகுப்பு	பயிற்றுவகுப்புகள்- மொத்தம்
	1	06	90

பாடத்திட்டம்,பயி<mark>ற்றுமுறை</mark>,மதிப்பிடும் முறை

ഖ.எண்	அலகுவாரியாக	வகுப்பு	வரைபடம்	தேர்வு	கருத்தரங்கம்	திருப்புத _{ல்} தேர்வு
1	அகத்திணையியல் 1. அகத்திணை ஏழு 2. முதல் உரிகருப்பொருள் உடன்போக்கு 3.உள்ளுறைஉவமம்	06 07 02	01	01	01	()
2	புறத்திணையியல் 1.வெட்சிமுதல் ஏழுதிணைவிளக்கம் 2.துறைகள் விளக்கம் 3.பேட் பற்றியசிந்தனைகள்	05 05 05		01	01	
3	களவியல் தலைவன் தலைவி 1.உள்ளப்புணர்ச்சி 2.தலைவன் கூற்று 3.தலைவி கூற்று 4.பிரிவுகள் 5.வாயில்கள்	05 03 03 02 02	01	01	01	01
	கற்பியல் 1.எண்வகைத் திருமணம் 2.தலைவன் கூற்று 3.தலைவி கூற்று 4.தோழி கூற்று 5.இல்வாழ்வின் பயன் பொருளியல்	03 03 03 03 03		01	01	
	1 அறத்தொடுநிற்றல் 2.புலவி 3.இறைச்சி 4.உள்ளுறை உவமம் வகை	04 04 04 03		01	01	01
		75	02	05	05	03

தேர்வுவிபரம்

தோவு: 5 தோவுகள் 25 மதிப்பெண்கள் பிரிவு அ: IX10=10 பிரிவு ஆ: IX10=05

பிரிவு இ: IX10=<u>10</u>

25

Incharge Staff

Hod

IQĂC Co - Ordinator

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

பாடத்திட்டஅமைவு

பெயர்:முனைவர் தி.லெட்சுமி

வருடம்: 2022-2023

வகுப்பு:

முதுகலை முதலாமாண்டு

தாள் குறியீடு : P21TAC205

பருவம்:

இரண்டாம்பருவம்

தாள்: சிற்றிலக்கியம்

நோக்கம்:: 1. இலக்கியவரலாற்றுப் பின்னணியில் தமிழ் சிற்றிலக்கியங்களின்

வளர்ச்சிப்

போக்குகளை அறிதல்.

களைஅறுதல். 2. தமிழ்ச் சிற்றிலக்கியங்களின் அமைப்பையும் உள்ளடக்கத்தையும் பற்றி அறிதல்

3. தமிழ்ச் சிற்றிலக்கியங்களின் சிலபகுதிகளைப் பாடமாகக் கற்பதன் மூலம் உள்ளடக்கம், இலக்கிய வெளிப்பாட்டு நெறி ஆகியவற்றை அறிந்து பயிற்சியும்,திறனாய்வுத் திறனும் பெறுதல்.

ฌ .ส	பயிற்றும் முறைகள்	வகுப்புப்	மொத்தம்
600i		பங்கீடு(அலகு)	
1	கரும்பலகையின் வழி Chak& Talk	அலகுவாரியாக 1 3 மணி நேரம்	65
2	வரைபடம் புலனம் வழி	தேவையானஅலகிற்கு	02
3	வகுப்புத்தோவுவாய்மொழி,எழுத்துவழி	5தேர்வு 5 அலகு	04
4	கருத்தரங்கம்,கலந்துரையாடல்	5 அலகுகள் (1வகுப்பு நேரம்)	02
5	இறுதிமதிப்பீடுதிருப்புதல் தேர்வு	02	02
	Per week credit 5	மொத்தம்	75

อม.สรร์ท	வாரவாரியானவகுப்பு	பயிற்றுவகுப்புகள்- மொத்தம்
1	05	75

பாடத்திட்டம்,பயிற்றுமுறை,மதிப்பிடும் முறை

ഖ.எ ண்	அலகுவாரியாக	வகுப்பு	வரைபடம்	தேர்வு	கருத்தரங்கம்	திருப்புத _{ல்} தோவு
I	பாட்டியல் நூல்கள் சிற்றிலக்கிய இலக்கணங்கள்-	02 04				
	தோற்றமும் வளர்ச்சியும் - பெயர்பெறும் முறை,பொருளமைதி- கட்டமைப்பு-	03	01		01	***
2	குந்நாலக் குறவஞ்சி— வசந்தவல்லிவருகைபந்தாட லின் சிறப்பு முக்கூடற்பள்ளு - நாட்டுவளம் - நகர்வளம் நந்திக் கலம்பகம் - முதல் 20 பாடல்கள்	04 05 04		01		
3	பிள்ளைத்தமிழ் திருச்செந்தூர் பிள்ளைத்தமிழ் .தமிழ்விடுதூது –முதல் 25 கண்ணிகள் .தண்டலையார் சதகம் முதல் - 10 பாடல்கள்	02 03 04 6 04			01	01
4	.மூவருலா–முழுவதும் தக்கயாகப்பரணி– கோயிலைப் பாடியது	06	01	01		
5	அற்புதத் திருவந்தாதி- முதல் 20 பாடல்கள் முத்தொள்ளாயிரம் முழுவதும்	- 06 - 07	01	01		01
		65	03	03	02	02

தேர்வுவிபரம்

தேர்வு: 5 தேர்வுகள் 25 மதிப்பெண்கள் பிரிவு அ: 10X1=10

பிரிவு ஆ:1X5=05 பிரிவு இ: 1X10=<u>1</u>0

Hod

Incharge Staff

25

IQAC Co - Ordinator

Co-ordinator

பாடத்திட்டஅமைவு

பெயர்:முனைவர். ச.மகாலெட்சுமி வகுப்பு: இளங்கலைத்தமிழ் மூன்றாமாண்டு வருடம்: 2022-2023 தாள் குறியீடு: SBPTT

பருவம்:V தாள்: பணித்தேர்வுத்தமிழ்

நோக்கம்:பணித்தேர்வு எழுதுவதற்குப் பயிற்சி அளித்தல்

வாரவாரி	யானவகுப்பு	பயிற்றுவகுப்புகள்-மொத்தம் 30				
2	·					
வ.எண்	பயிற்றும் முறைகள்	வகுப்புப் பங்கீடு(அலகு)	மொத்தம்			
1.	கரும்பலகைருபேச்சு	ஓவ்வொருஅலகிற்கும்	20			
	Chalk & Talk	4மணிநேரம் (5 அலகுகள்)				
2.	வரைபடம் இபுலனம்வழி	தேவைப்படும் அலகிற்குமட்டும்	01			
3.	வகுப்புத்தேர்வு	5- தேர்வு 5-அலகு	05			
4.	கருத்தரங்கம்-கலந்துரையாடல்	5-அலகுகள்	02			
5.	இறுதிமதிப்பீடுதிருப்புதல் தேர்வு	2	02			
	வாரத்தின் மொத்தமணிநேரம் -2	தரப்புள்ளி -6 மொத்தம்-	30			

பாடத்திட்டம் பயிற்றுமுறை மதிப்பிடும் முறை

அலகுவாரியாக

0	பரடத்திட்டம்-	வகுப்பு	வரைபடம்	தேர்வு	கருத்தரங்கம்	திருப்புதல்
வரிசை		020004	02000,022	العراق ا	022,	
எண் - 🍷	அலகுவாரியாக	02		02	-	-
1.	<u> </u>	02		02		
	மொழியின்	01				
	இன்றியமையாமைபேச்சு,எழுத்துெ	01				
	மாழித் தோற்றம் வளர்ச்சி					
	திருந்திய,திருந்தாமொழிகள்					
,	தமிழில்	0.1				
	பிறமொழிகள்கலப்புதமிழின்	01				
	செல்வாக்கு					
2	அலகு-2-முதல் ,சார்பெழுத்துக்கள்	02	-	02	01	-
_	, பெயர் முதலானசொற்கள்					
	, வினைமுற்றுவினையெச்சம்.					
		01				
	வகைகள்	01				
	உ வமை,தற்குறிப்பேற்றம்					
	,வஞ்சப்புகழ்ச்சிஅணி					
		02	01	01	-	-
	அலகு-3 ஆற்றுப்படை நூல்கள்	02	UI	U1		
	எட்டுத்தொகை,கபிலர் ,பரணர்	0.1				
	,பாடல்கள் -நீதி நூல்கள்	01				
		01				

4.	அலகு-4 இரட்டைக் காப்பியங்கள் இராமாயணம்	03	01		
	.இயேசுகாவியம்பன்னிருதிருமுறை கள் -பன்னிருஆழ்வார்கள்-	01			
	புனைகதை,நாடகம் இகவிதை,புதுக்கவிதை				
5.	அலகு-5மக்கள் தகவல்	02	01	01	-
	தொடர்பியல் வானொலி,தொலைக்காட்சிமுதலா	01			
	னவை	01			
	இதழ்கள் ,தகவல் பரிமாற்றம் இணையதளம் ,கணினிபயிற்சி				
	·				

தேர்வுவிபரம் 15- மதிபெண்கள்

பகுதி -அ (5X15=75) --மதிப்பெண்கள்

திட்டக்கட்டுரை -10 மதிப்பெண்கள் தேவைப்படும் அலகுகளில் ஆசிரியர் முடிவுசெய்வது. திருப்புதல் தேர்வு – பருவத் தேர்வுமாதிர ிஅடிப்படையில் கேட்கப்படும்.

Incharge Staff

Hod

IQAC Co - Ordinator

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.T.SUDHA

B.Sc CHEMISTRY

&BOTANY(E/m &T/M) Academic Year:

2022-2023

Semester:

Programme:

I Semester

Course Code:

U211E1

Course Title: English For Communication-I (Short Stories)

Objectives:

> To enable students to discuss content of the story and structure in depth. To develop students' performance skills in relation to story-telling.

Teaching Methodology	Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]	13 hours per unit (for 5 units)	65
Text Book Assignment	1 hour per unit(for 5 units)	05
Story Telling	2 hours for 5 units	02
Evaluation –Class Tests (CT)	1 test per unit(for 5 units)	05
Seminar/problem solving/class work(S)	1 hour per unit(for 5 units)	05
Vocabulary lists (written)	1 hour per unit(for 5 units)	05
Final Evaluation (FE)	3 hours (Rehearsal)	03
Hours per week 6 Credit	6 Total	90

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

SL.	HOURS UNIT -CONTENT	LINITE CONTENTE	MODE OF TEACHING				
NO	HOURS UNIT -CONTENT		L	CT/ CW	S	FE	
		Unit-I					
1	3	Little Girls Wiser Than Men-Leo Tolstoy	L				
2	4	Valiant Vicky-Flora Annie Steel	L				
3	6	Parts of Speech-Noun, Pronoun, Adjective	L				
		Unit-II					
4	3	The Selfish Giant-Oscar Wilde	L				
5	4	My Lord, The Baby-Rabindranath Tagore	L				
6	6	Parts of Speech-Verb, Adverb	L				
		Unit – III					
7	4	After Twenty Years- O Henry	L				
8	4	The Conjurer's Revenge-Stephen Leacock	L				
9	5	Parts of Speech-Prepositions, Articles	L				
		Unit – IV					
10	4	An Astrologer's Day- R.K.Narayan	L				
11	4	The Tiger in the Tunnel-Ruskin Bond					
			L				
12	5	Parts of Speech-Conjunction, Interjection	L				
		Unit – V					
13	5	The Four Brothers-Walter de la Mare	L				
14	4	Karma-Khushwant Singh	L				
15	4	Sentence Pattern	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		СТ		1	

		Text Book Assignment		
1	5	UNT-I, UNIT -II, UNIT-III, UNIT-IV & UNIT-V	CW	
		Story Telling		
1	2	UNT-I, UNIT -II, UNIT-III, UNIT-IV & UNIT-V	CW	
		Vocabulary lists(written)		
1	5	UNT-I, UNIT -II, UNIT-III, UNIT-IV & UNIT-V	CW	
		Final Evaluation (FE)		
1	3	Entire course		FE

Head of the Department Member(s)

Signature of the Staff

J. Sur

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

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

Teaching Plan

Name of the Staff: Mrs. C.Thenmozhi

Programme: M.A English Academic Year: 2022 - 2023

Semester: I semester Course Code: P21ELC101

Course Title: Modern Literature 1 (1400 -1660)

Objectives:

To expose students to the evaluation of English poetry in the age of Chaucer

To introduce the students to the characteristics of metaphysical poetry

To makes students learn the origin of English essays

Teaching Methodology			Distribution of	Total Hours of Instruction	
Traditional Chalk and Talk Method [L]			13 hrs per unit (65	
Evaluation – Class Tests (CT)			2 hr per unit (for	10	
Seminar/probler	n solving/class	s work(S)	1 hour per unit(f	05	
Final Evaluation (FE)			10 hrs (Rehearsal)		10
Hrs per week	6	Credit	4	Total	90

SL.NO	HOUR	UNIT -CONTENT		MODE OF TEACHING				
SLAVO	HOUR	CITT-CONTENT	L	CT	S	FE		
		Unit-I						
1	3	Introduction to Geoffrey Chaucer	L					
2	5	The Prologue to the Canterbury Tales	L					
3	2	Introduction to Edmund Spencer	L					
4	3	Epithalamion	L					
		UNIT –II						
5	4	John Donne - "The Flea"	L					
6	4	Andrew Marvell - " To His Coy Mistress"	L					
7	2	Geroge Herbert - "The Pulley"	L					
8	3	Henry Vaughan - "The Retreat"	L					
		UNIT III						
9	2	Introduction to Francis Bacon	L					
10	2	Of Truth	L					
11	2	Of Great Place	L					
12	2	Of Parents and Children	L					
13	3	The Bible	L					
. 14	2	Chapters 5to 7 from the Gospel of Matthew	L					
		UNIT IV						
15	6	Christopher Marlowe - The Jew of Malta	L					
16	7	John Webster - The White Devil	L					
		UNIT V						
17	6	Ben Jonson - Every Man in His Humour	L					
18	7	Thomas Kyd - The Spanish Tragedy	L					
		Seminar		4/15/				
1	5	UNIT I TO UNIT V			S			
		Class Test						
1	10	UNIT I-UNIT V		СТ				
		Final Evaluation (FE)						
1	- 10	Entire course				FE		
				-				

Co-ordinator
Co-ordinator
Uniternal Quality Assurance Cell (IQAC)
Govt. Cellege for Women (A)
Kumbakenam- 612 001

Signature of the Staff Member

C. The ghi

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

Teaching Plan

Name of the Staff: Mrs.C.Thenmozhi

Programme: M.A English Academic Year: 2022 - 2023

Semester: II semester Course Code: P21ELC205

Course Title: Modern Literature III

Objectives:

To make the students appreciate the characteristics of the novels of Scott

Teachi	ng Methodol	ogy	Distribution of	`hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		11 hrs per unit (for 5 units)		60	
Evaluation –Class Tests (CT)		2 hr per unit (for 5 units)		10	
Seminar/problem solving/class work(S)			2 hour per unit(fe	10	
Group discussion		1 hr per unit for 5 units		05	
Final Evaluation (FE)		5 hrs (Rehearsal)		05	
Hrs per week	6	Credit	5	Total	90

way!		UNIT – CONTENT		DDE OF	TEAC	CHING
SL.NO	HOUR	UNII - CONTENI	L	CT	S	FE
		Unit-I				
1	4	William Wordsworth : Ode to the Intimation of Immortality	L			
2	4	S.T.Coleridge: Rime of the Ancient Mariner	L			
3	2	Walter Scott : Lochinvar	L			
		Unit-II,				
4	3	John Keats: Ode to a Nightingale	L			
5	4	P.B.Shelley: The Cloud	L			
6	3	Lord Byron: Youth and Age	L			
		Unit – III				
7	5	Charles Lamb: A Dissertation Upon a Roast Pig	L			
8	5	William Hazlitt : On Reading Old Books	L			
		UNIT –IV				
9	3	P.B Shelley: Prometheus	L			
		UNIT -V				
15	4	Jane Austen : Emma	L			
16	3	Walter Scott: Ivanhoe	L			
		ACTIVITIES				
17	3	UNIT-I		СТ		
18	3	UNIT-II		СТ		
19	4	UNIT-III,IV and V		СТ		
20	10	UNIT I, II, III, IV and V			S	
21	5	Entire paper (Final Evaluation)				FE

C. The ghi Signature of the Staff Member

Co-ordinator
Co-ordinator

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

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

Teaching Plan

Name of the Staff: Mrs. C.Thenmozhi

Programme: M.A English Academic Year: 2022 - 2023

Semester : III semester Course Code : P18ELC312

Course Title: CC XII New Literature in English

Objectives:

To make students familiarize with writers of new literatures

To enable students to appreciate the values of literatures of different nations

		Distuil	oution of hours/Unit	Total Hours of
ing Metho	odology	Distric	Julion of Access	Instruction
alk and Tal	k Method [L]	10hrs p	er unit (for 2 units)	20
Evaluation –Class Tests (CT)		1hrs (for 2 units)		2
		2 hour per unit (for 2 units)		4
		1 hour per unit (for 2 units)		2
Group Discussion Final Evaluation (FE)		hrs (Rehearsal)		2
	Credit	6	Total	30
	alk and Taless Tests (em solving/ion	em solving/class work(S) ion on (FE)	alk and Talk Method [L] 10hrs per sars Tests (CT) 1hrs (for sem solving/class work(S) 1 hour per son (FE) 1 hour per son (FE)	alk and Talk Method [L] 10hrs per unit (for 2 units) 1hrs (for 2 units) 2 hour per unit (for 2 units) 1 hour per unit (for 2 units) 1 hour per unit (for 2 units) hrs (Rehearsal)

Hours per week	Total Hours of Instruction
Hours per week	90
5	75
1	60
2	30
2	

W NO HOUD		UNIT CONTENT		DE OF	TEAC	CHING
SL.NO	HOUR	UNIT - CONTENT	L	CT	S	FE
		Unit-I				
1	2	Africa – David Diop	L			
2	2	Telephone Conversation – Wole Soyinka	L			
3	3	Fire at Murdering Hut – Judith Wright	L		,	
4	3	Australia – A.D.Hope	L			
		Unit-II				
5	2	A January Morning – Archibald Lampman	L			
6	2	The Canadian Authors Meet – F.R.Scott	L			
7	3	Journey to the Interior – Margaret Atwood	L			
8	3	Leonard Cohen - If It Were Spring	L			
		Seminar				
9	4	Unit I – II			S	
		Class Test				
10	2	Unit I – II		СТ		
		Group Discussion				
11	4	Unit I – II				
		Final Evaluation (FE)				
12	2	Entire course				FE

Co-ordinator
Co-ordinator
Co-ordinator
Co-ordinator
College for Women (A)

Internal Quality Assurance Cell (IQAC)

Kumbakonam 612 001

C. The ghi Signature of the Staff Member

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

Teaching Plan

Name of the Staff: Mrs. C.Thenmozhi

Programme: M.A English

Academic Year: 2022 - 2023

Course Code: P21EL4MBE4:2 Semester: III semester

Course Title: Women's Writing in English

Objectives:

It aims to expose students to a substantial body of knowledge about the social construction of gender in various cultural contexts from a variety of disciplinary perspectives.

It also provides students with the analytic tools for understanding the lives and experiences of women in various cultural contexts.

Teach	ning Meth	nodology	Distrib	ution of hours/Unit	Total Hours of Instruction
Traditional Cha	alk and Ta	alk Method [L]	12 hrs pe	er unit (for 5 units)	60
Evaluation – Class Tests (CT)		2 hrs (for 5 units)		10	
Seminar/problem solving/class work(S)		2 hour per unit (for 5 units)		10	
Group Discussion		1 hour p	er unit (for 5 units)	5	
Final Evaluation (FE)		5 hrs (R	ehearsal)	5	
Hrs per week	2	Credit	6	Total	90

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

-:0	HOUR UNIT - CONTENT		Mo	ODE O	CHING	
SL.NO		Tinta T	L	CT	S	FE
		Unit-I				
1	5	Anne Bradstreet- The Prologue	L			
2	5	Anne Sexton- Pain for a Daughter	L			
3	5	Marianne More- Poetry	L			
4	5	Adrienne Rich- Aunt Jennifer's Tigers	L			
		Unit-II				
5	10	Virginia Woolf- A Room of One's Own	L			
		Unit-III				
6	10	Lorraine Hansberry- A Raisin in the Sun	L			
		Unit-IV				
7	10	Toni Morrison - Beloved	L			
		Unit-V				
8	10	Shashi Deshpande - That Long Silence	L			
		Seminar				•
9	10	Unit I – V			S	
		Class Test	,			
10	10	Unit I – V		СТ		
		Group Discussion				
11	5	Unit I – V				
		Final Evaluation (FE)				
12	5	Entire course				FE

Co-ordinator
Co-or

C. The Shir Signature of the Staff Member

GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) - KUMBAKONAM

DEPARTMENT OF ENGLISH

Teaching Plan

Name(s) of the Staff: A. VASANTHI

Programme: II B.A, English- (Shift-II)

Academic Year:

2022-2023

Semester:

III Semester

Course Code:

U21EL3A4

Course Title: History of English Literature II

Objectives:

To familiarize students with the history and life and works of British writers. To provide students a basic understanding of all the literary periods and its major writers.

Teaching Methodology		Distribution of h	ours/Unit	Total Hours of Instruction		
Traditional Chalk and Talk N	1ethod [L]	12 hours per unit	(for 5 units)	60		
Creative Writing (Translation	1)	2 hours for 5 units		2 hours for 5 units		02
Evaluation –Class Tests (CT)		1 test per unit(for 5 units)		05		
Translation- Assignment	Assignment		r 5 units)	05		
Final Evaluation (FE)	l Evaluation (FE)		3 hours (Rehearsal)		hours (Rehearsal)	
Hours per week 5	Credit	3	Total	75		

Total Hours of Instruction
75
75
60
30

SL.N	HOUDO	UNITE CONTENTS		MOI TEAC	DE OI	G
0	HOURS	UNIT -CONTENT	L	L CT/ CW		FE
		Unit-I				
1	4	Introduction to HEL II	L			
2	4	Introduction to the Romantic Age	L			
3	2	The Age of Wordsworth	L			
4	2	The Age of Wordsworth	L			
		Unit-II				
5	3	The Older poets	L			
6	3	The Age of Tennyson	L			
7	3	The Age of Tennyson	L			
8	3	Recap of all the seen writers	L			
		Unit-III				
9	4	Introducation to the political and social background of Hardy Age	L			
10	3	Introduction to Hardy and other major writers	L			
11	3	The Age of Hardy	L			
12	2	Recap of the Age of Hardy	L			
		Unit-IV				
13	3	Introduction to the 20 th century literature	L			
14	5	Impact of social and political background of the age	L			
15	5	The Modern Age				
		Unit-V				
16	6	Introduction to postmodern period	L			
17	6	Postmodern British Literature	L			
		Creative Writing				
1	2	UNIT-I,UNIT-II,UNIT-III,UNIT-IV&UNIT-V		CW		

		Class Test		
1	5	UNIT-I,UNIT-II,UNIT-III,UNIT-IV&UNIT-V	CT	
		Translation-Assignment		
1	5	UNIT-I,UNIT-II,UNIT-III,UNIT-IV&UNIT-V	CW	
		Final Evaluation (FE)		
				FE
1	3	Entire course		FE

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: Dr.G.Kamatchi

Programme: III B.A English Literature

Academic Year:

Course Code: 18ELC508

2022-2023

Semester:

V semester

Course Title: Principles of Literary Criticism

Objectives: To help students to approach the literary texts from different perspectives. It also provides a conceptual framework of various critical theories through different ages that compliment and contradict one another.

Teaching Methodolog	V	Distribution of hours	/Hnit	Total Hours
a careful graduates		and a determined from Sy	Offic	of Instruction
Traditional Chalk and	Talk Method [L]	10hrs per unit (for 5 t	inits)	50
Evaluation -Class Tes	ts (CT)	1 hr per unit (for 5 unit	s)	05
Seminar/problem sol	ving/class work(S)	1 hour per unit(for 5 t	units)	05
Tutorial		1 hour per unit(for 5units)		05
Reading aloud		3hrs for 5 units		03
Group discussion		1 hr per unit for 5 units		05
Final Evaluation (FE)		3 hrs (Rehearsal)		02
Hrs per week 5	Credit	3	Total	75

SL.NO	HOUR	UNIT -CONTENT		MODE OF TEACHING		
L.NU	HOOK		L	СТ	S	FE
		Unit-I				
1	3	Introduction to Literary Theory	L			
2	3	Introduction to Literary History	L			
3	3	Introduction to Literary Criticism	L			
4	1	Applications of Literary Theory in Literature	L			
		Unit-II				
5	2	Classical Criticism-Plato	L			
6	2	Classical Criticism-Aristotle	L			
7	2	Classical Criticism-Horace	L			
8	2	Classical Criticism-Quintilian	L			
9	2	Classical Criticism-Longinus	L			
		Unit – III	1.			
10	1	Critical Theories-Philip Sidney	L			
11	2	Critical Theories- Dryden	L			
12	2	Critical Theories-Dr.Johnson	L			
13	2	Critical Theories- Coleridge	L			
14	1	Critical Theories- Arnold	L			
15	2	Critical Theories-T.S.Eliot	L			
		UNIT -IV				
16	5	Moralistic approach	L			
17	5	Psychological approach	L			

UNIT	V					
18	4	Archetypal approach	L			
19	4	Sociological approach	L			
20	2	Formalistic approach	L			
ACT	IVITIES	3				
11	1	UNIT-I		СТ		
12	1	UNIT-II		СТ		
13	3	UNIT-III,IV and V		СТ		
14	5	UNIT I, II, III, IV and V			S	
15	3	Entire paper (Final Evaluation)				FE

Signature of the Staff Member(s)

Co-ordinator

(Internal Quality Assurance Cell (IQAC)

Govt. College for Women (A)

Kumbakonam- 612 001

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

DEPARTMENT OF ENGLISH

Teaching Plan

Name(s) of the Staff: C.TAMILARASI

Programme:

II M.A English Literature

Academic Year:

2022-2023

Semester:

II semester

CourseCode: P21EL2MBE2:3

SCourse Title: Ethics

Objectives:

> To appreciate human values.

Teaching Methodology	Distribution	n of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Metho	d [L] 14 hrs per u	ınit (for 5 units)	70
ICT Enabled Lectures [I]			
Practical Demonstration[P]			
Tutorial (T)	1 hour per u	1 hour per unit(for 2 units)	
Field visit (FV)			
Group discussion			
Evaluation –Class Tests (CT)	5 test per ur	nit	05
Seminar/problem solving/class v	ork(S) 2 hour per u	2 hour per unit(for 5 units)	
Final Evaluation (FE)	3 hrs (Rehea	arsal)	03
Hrs per week 6 Cre	it 5	Total	90

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

SL.N	о нои	R UNIT -CONTENT			DE OF	
			L	CT	S	F
		Unit-I				
1	13	The Book of Job from 'The Bible'	L			
		Unit-II				
2	15	The Book of Job from 'The Bible'	L			
		Unit – III				
3	13	MarcusAurelius : Meditations	L			
		Unit - IV				
4	02	Charles (Till Co. 1)				
•	02	Chapter 6: The Goodness of the Help to Domestic Life	L			
5	02	Chapter 8: The Possession of Love	L			
5	03	Chapter 10: The Utterance of Pleasant Words (From G.U.Pope's Translation of Thirukkural)		-		
	03	Chapter 11: : The Knowledge of Benefits Conferred: Gratitude				
	03	Chapter 14: The Knowledge of Benefits Conferred: Gratitude				
		Unit - V				
	13	SwamiVivekananda : Our Women	L			
		Seminar				
		UNIT-I Chapter 6 to 10 (The Book of Job)			S	
		UNIT-II Chapter 20 to 25 (The Book of Job)			S	

3	2	UNIT-III Book 3 (MarcusAurelius : Meditations)		S	
4	2	UNIT – IV Chapter 8: The Possession of Love		S	
5	2	UNIT-V SwamiVivekananda : Our Women (Life of Women in Olden Days		S	
		Class Test			
1	5	UNIT I- &UNIT V	СТ		
		Final Evaluation (FE)			
1	3	Entire course			FE

C. Tanilarase Signature of the Staff Member(s)

Co-ordinator
Internal Quality Assurance Cell (IGAC)
Govt. College for Women (A)
Kumbakonam- 612 691

GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) - KUMBAKONAM

DEPARTMENT OF ENGLISH

Teaching Plan

Name(s) of the Staff: T · SUDHA

Programme:

II B.A., English- (ShiftII)

Academic Year:

2022-2023

Semester:

IV Semester

Course Code:

U21EL4A6

Course Title: Women's Writing in English

Objectives:

To make students aware of the history and the growth of Indian Writing in English. To introduc students to the rich literary tradition in Indian Writing in English.

Teaching Metho	odology	10-0-	Distribution of hou	ırs/Unit	Total Hours of Instruction
Traditional Chall	k and Talk	Method [L]	13 hours per unit (f	for 5 units)	30
Text Book Assig	nment		1 hour per unit(for 5	units)	05
Group Discussion	n		1 hour for 5 units		05
Evaluation –Clas	Evaluation –Class Tests (CT)		1 test per unit(for 5	1 test per unit(for 5 units)	
Seminar/problem	Seminar/problem solving/class work(S)		1 hour per unit(for 5	1 hour per unit(for 5 units)	
Tutorial			1 hour per unit(for 5	units)	05
Final Evaluation	(FE)		5hours (Rehearsal)		05
Hours per week	4	Credit	3	Total	60

Total Hours of Instruction
90
60
60
30

SL.			MODE OF TEACHING				
NO NO	HOURS	UNIT -CONTENT	L	CT/ CW	S	FE	
		Unit-I					
1	7	Emily Dickinson: "I Cannot live with You"	L				
		"I'm Wife : I have finished that"					
2	6	Sylvia Plath: 'Lady Lazarus'	L				
		Eunice De Souza: 'Advice to Women', 'Bequest'					
		Unit-II					
3	6	Introduction to Mary Wolstonecrft	L				
4	7	Mary Wollstonecraft: 'A Vindication of the Rights of Woman'	L				
		Unit – III					
5	6	Introduction to African American litt.	L				
6	7	Lorraine Hansberry: 'A Raisin in the Sun'	L				
		Unit – IV					
7	10	Introduction to Alice Walker	L				
		Alice Walker: 'The Colour Purple'					
		Unit – V					
8	10	Charlotte Perkins Gilman: 'The Yellow Wallpaper'	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		СТ			
		Text Book Assignment					
1	5	UNT-I, UNIT -II,UNIT-III,UNIT-IV &UNIT-V		CW			

		Group Discussion		
1	2	UNT-I, UNIT -II,UNIT-III,UNIT-IV &UNIT-V	CW	
		Tutorial		
1	5	UNT-I, UNIT -II,UNIT-III,UNIT-IV &UNIT-V	CW	
		Final Evaluation (FE)		
1	3	Entire course		FE

Member(s)

J. Su Signature of the Staff

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: K.GOWRI

Programme:

III B.A., English- (Shift-II)

Academic Year:

2022-2023

Semester:

VI Semester

Course Code:

18ELC611

Course Title: Indian Writing In English

Objectives:

> To make students aware of the history and the growth of Indian Writing in English. To introduce students to the rich literary tradition in Indian Writing in English.

Teaching Methodology	Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and Talk Method [L]	13 hours per unit (for 5 units)	65
Text Book Assignment	1 hour per unit(for 5 units)	05
Group Discussion	2 hours for 5 units	02
Evaluation –Class Tests (CT)	1 test per unit(for 5 units)	05
Seminar/problem solving/class work(S)	1 hour per unit(for 5 units)	05
Tutorial	1 hour per unit(for 5 units)	05
Final Evaluation (FE)	3 hours (Rehearsal)	03
Hours per week 6 Credit	5 Total	90

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

SL.				MOD TEAC		
NO	HOURS	UNIT -CONTENT	L	CT/ CW	S	FE
		Unit-I				
1	7	Henry Derozio: "The Harp of India"	L			
2	6	Sarojini Naidu : "Love and Death"	L			
		Unit-II				
3	6	Nissim Ezekiel :"Poet, Lover, Birdwatcher"	L			
4	7	A.K.Ramanujan: "Of Mothers, Among Other Things"	L			
		Unit – III				
5 6		M. K. Gandhi: "Playing the English Gentleman" (Chapter 15 from The Story of My Experiments with Truth)	L			
6	7	A. P. J. Abdul Kalam: "The Power of Prayer"	L			
		Unit – IV				
7	13	Vijay Tendulkar : Kamala	L			
		Unit – V				
8	13	Arundati Roy : God of Small Things	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		СТ		
		Text Book Assignment				
1	5	UNT-I, UNIT-II,UNIT-III,UNIT-IV &UNIT-V		CW		

	Group Discussion		
2	UNT-I, UNIT -II I DUT		
	UNT-I, UNIT -II,UNIT-III,UNIT-IV &UNIT-V	CW	
	Tutorial		
5	UNT-I, UNIT -II UNIT III		
	UNT-I, UNIT -II,UNIT-III,UNIT-IV &UNIT-V	CW	
	Final Evaluation (FE)		
3	Entire course		

Signature of the Staff Member(s)

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

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

Teaching Plan

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

Programme: I B.A ECONOMICS

Academic Year:

2022-2023

Semester: II

Semester

Course Code: U21ECC203

Course Title: MICRO ECONOMICS -II

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

price determination

2.To study the theories of distribution and factor pricing

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

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

-	T	***************************************		MODE OF TEAC			
SL.	HOUR	UNIT -CONTENT	L	ст	S	FE	
		Unit-I	_				
1	3	Meaning and forms of market	L				
2	3	Marshal's General theory of value	L				
3	3	Time element	L				
4	3	Equilibrium of firm and Industry	L				
5	3	Objectives of the firm	L				
		Unit-II					
6	3	Definition of perfect competition	L				
7	3	Features- Price output determination	L				
8	3	Monopoly-definition and meaning of monopoly	L				
9	3	Kinds of monopoly-Price determination	L				
10	3	Comparison between perfect competition and monopoly	L				
		Unit – III					
11	3	Meaning and features of monopolistic competition	L				
12	3	Price determination under monopoly	L				
L3	3	Oligopoly	L				
.4	3	Definition of oligopoly	L				
.5	3	Features of oligopoly	L				
6	3	Price and output determination under oligopoly	L				
		Unit - IV					
7	3	Marginal productivity theory of distribution	L				
8	3	Modern theory of distribution	L				
_	3	Ricardian theory of rent	L				
) :	3	Quasi-Rent	L				

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

S. Pya Proi Head of the Department

M. Anan Halalyhm' Signature of the Staff Member(s)

I DAC - CO-DEDINATOR.

**Thtemal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakenam- 612 001

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS **TEACHING PLAN**

Name of the Staff : Mrs. N. VIJAYASUNDARI

Programme

: I B.A. Economics

Academic Year: 2022-2023

Semester

: II

Course Code: U21EC2A3

Course Title

: PRINCIPLES OF COMMERCE

Objectives:

1. To make the students study about rules and types of data classification.

2. To make the students learn the basic and elementary tools in statistics such as correlation and regression analysis

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

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

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

		UNIT - V Advertisemen	t		т	Т
22.	3	Advertisement	L			-
23.	3	Objectives	L			-
24.	3	Uses of Media	L			-
25.	3	Importance	L			+
26.	3	Merits and demerits of Media	L			
		Seminar / Creating Awaren	iess	Τ		Т
1.	1	Unit - I			S	-
2.	1	Unit – II			S	-
3.	1	Unit - III			S	
4.	1	Unit - IV			S	
5.	1	Unit - V			3	
		Class Test and Five year plan	ning			T -
1	3	Unit-I, II, III, IV and Unit - V		CT		
		Final Evaluation (FE)				
1	2	Entire Course				FE

N. Vijoup & ...
Signature of the Staff Member(s)

IQAC-Co-ordinator

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

(K)

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS TEACHING PLAN

Name of the Staff

: Mrs. M. Ananthalakshmi

Programme

: I. B.A. Economics

Academic Year: 2022-2023

Semester

: I semester

Course Code: U21ECC101

Course Title

: MICRO ECONOMICS - I

Objectives:

1. To make the students study about rules and types of data classification.

2. To make the students learn the basic and elementary tools in statistics such as correlation and regression analysis

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

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

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

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

M. Ahentelaluhm. Signature of the Staff Member(s)

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

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS TEACHING PLAN

Name of the Staff

: Mrs. M. Ananthalakshmi

Programme

: II B.A. Economics

Academic Year: 2022-2023

Semester

: IV semester

Course Code: 18EC4A5

Course Title

: Statistical Methods - II

Objectives:

1. To make the students study about the rules and types of data classification.

2. To make the students learn the basic and elementary tools in statistics such as correlation and regression analysis.

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

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

SL.	HOUR	HAUT CONTENT	MOD	E OF T	EACH	IING
NO.		UNIT – CONTENT		СТ	S	FE
		Unit - I Measures of central Tendenc	ies			
1.	2	Arithmetic mean	L			
2.	3	Median mode	L			
3.	3	Harmonic mean	L			
4.	2	Geometric mean	L			
5.	3	Relationship between different averages	L			
		UNIT - II Measures of Dispersion				
6.	2	Properties of good measure of variation	L			
7.	3	Range -Merits and demerits	L			
8.	3	Quartile deviation Merits and demerits	L			
9.	3	Standard deviation - merits and demerits	L			
10.	3	Co- efficient of variation and Lorenz curve	L			
		UNIT – III Skewness and Kurtosis			,	
11.	2	Skewness - meanings	L			
12.	2	Types of skewness	L			
13.	2	Karlpearson measures of skewness	L			
14.	3	Bowley measures of skewness	L			
15.	2	Kurtosis – meaning	L			
16.	2	Measures of kurtosis	L			
		UNIT - IV Correlation Analysis				
17.	3	Types of correlation	L			
18.	3	Scatter diagram- graphic method	L			
19.	2	Karlpearson's co – efficient of correlation	L			
20.	3	Co – efficient of determination	L			
21.	2	Speraman's rank correlation	L			
		UNIT - V Regression Analysis				
22.	3	Meaning and uses	L			
23,	. 2	Correletion vs Regression analysis	L			

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

M. Arenthalaluhmi Signature of the Staff Member(s)

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

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS TEACHING PLAN

Name of the Staff

: Mrs. N. VIJAYASUNDARI

Programme

: II B.A. Economics

Academic Year: 2022-2023

Semester

: III

Course Code: U21ECC305

Course Title

: LABOUR ECONOMICS

Objectives:

1. To make the students study about rules and types of data classification.

2. To make the students learn the basic and elementary tools in statistics such as correlation and regression analysis

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

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

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

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

Signature of the Staff Member(s)

IRAC-co-ordinator

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

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

TEACHING PLAN

Name of the Staff

: Mrs. D. Mekala

Programme

: 11 year NMEC

Academic Year: 2022-2023

Semester

: IV semester

Course Code: U21NME2:1

Course Title

: Economics of Insurance

Objectives:

1. To create knowledge about basic concepts of insurance.

2. To Impart knowledge about insurance agent and Information technology.

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

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

SL.	HOUR	OUR UNIT - CONTENT	MODE OF TEACHING				
Ю.	HOOK	UNII - CONTENT	L	СТ	S	FE	
		Unit - I Meaning and Importance				_	
1.	1	Meaning and Features of insurance	L				
2.	1	Characteristics of insurance	L				
3.	1	Importance of insurance	L				
4.	1	Principles and functions of insurance	L				
		UNIT - II Insurances organization					
5.	1	Kinds of insurance	L				
6.	1	Types of insurance organizations	L				
7.	1	Types and kinds of insurance	L				
8.	1	Insurance organization in India Case study – IRDA certification					
		UNIT - III Life Insurance					
9.	1	Life Insurance Policy	L				
10.	1	Kinds of Life insurance policies	I	,			
11.	1	Advantages of life insurance policies]	١			
12.	1	Difference between life and non – life insurance policies – performance of private companies	L				
		UNIT - IV Other Insurance					
13.	1	Health and Fire Insurance		L			
14.	1	Property and marine insurance		L			
15.	1	Personal accident insurance Fidelity insurance - workmen's compensation insurance	ce	L			
16.	1	Automobile insurance – Crop Insurance		L			
0±200		UNIT – V Insurance Salesmanship)				
17.	1	Insurance Agent – Definition		L			
18.		Characteristics of salesmanship		L			
19.			ind	L			
20	. 1	Usage of Information technology		L			

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

Signature of the Staff Member(s)

Co-ordinator
Internal Quality Assurance Cell (IOAC)
Gevt. College for Women (A)
Kumbakenam- 612 001

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS TEACHING PLAN

Name of the Staff

: Mrs. D. Mekala

Programme

: II B.A. Economics

Academic Year: 2022-2023

Course Code: U21ECC406

Semester

: IV semester : INTERNATIONAL ECONOMICS

Objectives:

Course Title

1. To create knowledge about basic concepts of insurance.

2. To Impart knowledge about insurance agent and Information technology.

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

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

SL.	HOUR	INIT CONTENT	MODE OF TEACHING						
NO.	HOUK	HOUR UNIT - CONTENT		СТ	S	FE			
		Unit - I Theory of International Trade							
1.	3	Theories of Absolute Advantage	L						
2.	3	Comparative advantage and opportunity costs Heckscher	L						
3.	3	Ohlin Theory of Trade	L						
4.	3	Leontief Paradox	L						
5.	3	Kravis and Linder Theory of Trade	L						
	UNIT - I	I Gains from Trade, Terms of Trade and Theory	of Int	ervent	ion	***			
6.	3	Sources of Gain	L						
7.	3	Factors determining size of gain	L						
8.	. 3	Criteria of measuring gains from trade	L						
9.	3	Concepts of terms of trade	L						
10.	2	Factors deciding terms of trade	L						
11.	. 1	Theory of interventions	L						
		UNIT - III Balance Payment							
12	. 3	Meaning and structure of balance of payments	L						
13	. 3	Disequilibrium in balance of payments Measures to correct deficit in balance of payments Theories of foreign exchange	L						
14	. 3	The Mint parity theory	L						
15	3	The purchasing power parity theory	L						
16	5. 3	Balance of payment theory Causes of changes in the exchange rate							
		UNIT - IV International Trade and Financial ins	titutio	ns					
17	7. 3	Bretton woods system, the breakdown of the Bretton Woods systems,	L						
18	8. 3	The present international monetary systems	L						
19	9. 3	Role of WTO.	L						
2	0. 3	UNCTAD. IMF,	L						
2	1. 3	World bank and Asian development bank. SAARC.G-20. Regional Co-Operation	L						

		UNIT - V Trade Policies in India				
17.	3	Foreign trade since independence	L			_
18.	3	Direction and composition of India's Foreign trade	L			
19.	3	Balance payment crisis	L			_
20.	3	Balance of payments since the new economic reforms of 1991	L			
21.	3	Recent export and import policies	L			
	676	Seminar / Creating Awareness				_
1.	1	Unit - I			S	
2.	1	Unit - II			S	
3.	1	Unit - III			S	
4.	1	Unit - IV			S	
5.	1	Unit - V			S	
		Class Test				
1	5	Unit - I, Unit - II, Unit - III, Unit - IV and Unit - V		СТ		
		Final Evaluation (FE)				
1	5	Entire Course				FE

D. platala Signature of the Staff Member(s)

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 901

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

TEACHING PLAN

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

Programme

: II. B.A. Economics

Academic Year: 2022-2023

Semester

: IV

Course Code: U21EC4A5

Course Title

: Mathematical Methods For Economics - II

Objectives:

1. To gain sound knowledge on the principle of public Finance.

2. To understand roles of different governments.

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

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

SL.	HOUR	HAUTE COMPLEME	MOD	E OF T	EACI	IING
NO.	noon	UNIT - CONTENT		СT	S	FE
		Unit - I Differentiation				-
1.	2	Functions of Two or more Variables, First and second order simple and partial derivatives	L			
2.	3	Total differential, Partial elasticity values and growth rates, Economic applications of partial derivatives	L			
3.	3	Marginal utility, Marginal rate of substitution, Marginal productivity, Marginal rate of technical substitution	L			
4.	3	Input elasticities, Elasticity of substitution, Euler's theorem	L			
5.	3	Properties of homogenous production function, cob, douglas and CES function	L			
		UNIT - II Optimization in Economics		•	500	
6.	2	First and second order conditions for maximum and minimum of Y = f(x) and Z= f (X, Y)	L			
7.	3	Maximum revenue,	L			
8.	3	Minimum average cost	L			
9.	3	Maximum profit of a firm	L			
10.	3	Monopoly with tax and price discrimination	L			
11.	3.	Duopoly and game theory	L			
		UNIT - III Constrained Optimization				
12.	2	Lagrange's multiplier method, First and Second order conditions	L			
13.	2	Consumer equilibrium, Slutsky equation, Producer equilibrium	L			
14.	2	Least cost combination of inputs, Expansion path	L			
15.	2	Minimizing cost with output constraint	L			
16.	2	Maximizing profit with output constraints	L			

		Unit - IV Applications of Integration				
17.	3	Basic rules and methods of integration	L			
18.	3	Deriving total from marginal values	L			
19.	2	Consumer's surplus and producer's surplus	L			
		UNIT – V Dynamic Analysis				
22.	3	First order differential equations	L			
23.	2	Harrod domar and solow growth models	L			
24.	2	Capital expansion model	L			_
25.	2	Linear and exact difference equations	L			_
26.	3	Cob, Web model	L			
		Seminar / Creating Awareness				
1.	1	Differentiation input Elasticities, Elasticity of substitution Euler's theorem			S	
2.	1	Optimization in Economics Minimum Revenue			S	
3.	1	Constrained optimization minimizing cost with output constraint			S	
4.	1	Applications of integration Basic rules and methods of integration			S	
5.	1	Dynamic Analysis capital expansion Model			S	<u> </u>
		Class Test and creating awareness				
1	3	Unit -l, IV and V		C.I.		
		Final Evaluation (FE)				
1	2	Entire Course				F

S. Pry Head of the Department

Signature of the Staff Member(s)

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

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS **TEACHING PLAN**

Name of the Staff : Mrs. M. Ananthalakshmi

Programme

: II B.A. Economics

Academic Year: 2022-2023

Semester

: I Semester

Course Code: U21EC1A1

Course Title

: STATISTICAL METHODS - I

Objectives:

1. To make the students study about rules and types of data classification.

2. To make the students learn the basic and elementary tools in statistics such as correlation and regression analysis

Teaching Methodology				ibution of hours/Unit	Total Hours of Instruction
Traditional Chalk a	nd Talk M	ethod (L)	13 hr	s per unit (for 5 units)	65
Evaluation - Class	rests (CT)		1 hrs	(for 5 units)	3
Seminar/ Problem solving / Class Work(s)				r per unit (for 5 units)	3
Creating awareness about the latest development of Numerical methods in current research sector (CA)			1 hou	r per unit (for 5 units)	2
Final Evaluation (FE)			3 hrs (Rehearsal)		2
Hrs per Week	5	Credit	5	Total	75

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

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

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

Signature of the Staff Member(s)

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

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

Teaching Plan

Name(s) of the Staff: N.VIJAYASUNDARI

Programme:

III B.A ECONOMICS

Academic Year:

2022-2023

Semester: VI semester

Course Code:18ECC613

Course Title: Personnel management

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

personnel management

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

leadership of personnel management

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

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

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

20	3	Maslow's Need Hierarchy Theory-Mc.Gregor's	L			
		X and Y theories				
21	3	Herbler's two factor theory-Vroom's expectancy theory	L			
		Unit – V			,	11.1
22	3	Concept of Leadership	L			
23	3	Characteristics of leadership	L			
24	3	Importance- Qualities-Functions	L			
25	3	Typesof leadership-Theories of leadership	L			
26	3	Traits theory- Behavioural theory- Situational theory	L			
		Seminar/Creating Awareness			T c	
1	1	UNIT-I characteristics of personnel management			S	
2	1	UNIT-II Importance of manpower planning			S	
3	1	UNIT-III Job analysis			S	
4	1	UNIT - IV Vroom's Expectancy theory			S	
5	1	UNIT-V Importance of leadership			S	
		Class Test				
1	3	UNIT I-UNIT III and UNIT-V		СТ		
		Final Evaluation (FE)				
1	2	Entire course				F
255V	1882	TO A STATE OF THE				

Signature of the Staff Member(s)

IRAC-co-ordinator

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

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS TEACHING PLAN

Name of the Staff

: Mrs. N. VIJAYASUNDARI

Programme

: III B.A. Economics

Academic Year: 2022-2023

Semester

: V

Course Code: 18ECC510

Course Title

: CAPITAL MARKET

Objectives:

1. To make the students study about rules and types of data classification.

2. To make the students learn the basic and elementary tools in statistics such as correlation and regression analysis

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

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

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

		UNIT - V Stock Exchange		T	Т
22.	3	Stock exchange, Meaning Definition, Characteristics, Functions	L		
23.	3	Listing of securities	L		_
24.	2	Dealers in stock exchange	L		
25	2	Securities and exchange board of India (SEBI) Functions	L		
26.	3	Powers and Performance	L		
economics i	<u> </u>	Seminar / Creating Awareness			T
1.	1	Unit - I		S	-
2.	1	Unit - II		S	
3.	1	Unit - III		S	-
4.	1	Unit – IV		S	-
5.	1	Unit - V		S	
		Class Test and Five year planning			_
1	3	Unit II, III and Unit V	СТ		
19104 		Final Evaluation (FE)			T
1	2	Entire Course			FE

Signature of the Staff Member(s)

IQAC- co-ordinator

Govt. College for Women (A)
Kumbakenam- 612 001

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS TEACHING PLAN

Name of the Staff

: Mrs. D. Mekala

Programme

: III B.A. Economics

Academic Year: 2022-2023

Semester

: VI semester

Course Code: 18EC6EC4:1

Course Title

: Rural Industrialization

Objectives:

1. To make the students to know about the meaning of Rural Industrialization.

2. To study the role of Rural Industrialization and its major steps taken for its development.

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

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

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

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

8 - Ray of the Department

Signature of the Staff Member(s)

Thernal Quality Assurance Cell (IQAC)

Gevt. College for Wemen (A)

Kumbakenam-612 e01

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

TEACHING PLAN

Name of the Staff

: Mrs. D. Mekala

Programme

: III B.A. Economics

Academic Year: 2022-2023

Semester

: V Semester

Course Code: 18ECC509

Course Title

: Environomics

Objectives:

1. To make the students to know about the meaning of Rural Industrialization.

2. To study the role of Rural Industrialization and its major steps taken for its development.

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

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

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

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

Signature of the Staff Member(s)

Kunnanonam vizudi

POLAL

co-ordinator

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

POST GRADUATE AND RESEARCH

DEPARTMENT OF ECONOMICS

Teaching Plan

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

Programme:

I MA Economics

Academic Year:

2022-2023

Semester: II

semester

Course Code: P21ECC206

Course Title: MACRO ECONOMIC ANALYSIS - II

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

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

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

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

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

21	4	Philips curve - deflation	L			
22	2	Stagflation - friedman philips arguments	L			
. 4		(long run)				
		Unit - V				
		womic policy	L			
23	3	Objectives of macro economic policy	L			
24	3	Monetary policy	L			
25	3	Fiscal policy	L			
26	3	Tools and problems				_
27	3	Monetarism vs Keynesianism	L			
		Seminar			S	Г
	1	UNIT-I Friedman and quantity theory			3	5555
1	1				S	
2	1	UNIT-II determination of money supply				
		UNIT-III role of non banking financial			S	
3	1	intermediaries				
		UNIT - IV inflation and deflation			S	
4	1	UNII - IV Illiadon and desares				
5	1	UNIT-V monetary and fiscal policy			S	
-						
		Class Test			192	
1	5	UNIT I-UNIT V		СТ		
		Final Evaluation (FE)				1
					1	FE
1	3	Entire course				rE

Signature of the Staff Member(s)

IQAC coordinator

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

POST GRADUATE AND RESEARCH DEPARTMENT OF ECONOMICS

TEACHING PLAN

Name of the Staff

: Mrs. S.P. Balasangeetha

Programme

: I M.A. Economics

Academic Year: 2022-2023

Semester

: II

Course Code: P21ECC207

Course Title

: Fiscal Economics

Objectives:

1. To gain sound knowledge on the principle of public Finance.

2. To understand roles of different governments.

Teaching I	Methodol	ogy	Distr	bution of hours/Unit	Total Hours of Instruction
Traditional Chalk a	nd Talk M	ethod (L)	13 hrs	per unit (for 5 units)	65
Evaluation – Class Tests (CT)			1 hrs	for 5 units)	3
Seminar/ Probler Work(s)	n solvin	g / Class	1 hou	per unit (for 5 units)	3
Creating awarenes development of No current research se	umerical		1 hour	per unit (for 5 units)	2
Final Evaluation (Fl	Ξ)		3 hrs (Rehearsal)	2
Hrs per Week	5	Credit	5	Total	75

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

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

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

Signature of the Staff Member(s)

IQAC Co-ordinator

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

POST GRADUATE AND RESEARCH

DEPARTMENT OF ECONOMICS

Teaching Plan

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

Programme:

I MA Economics

Academic Year:

2022-2023

Semester: I semester

Course Code: P21ECC101

Course Title: MACRO ECONOMIC ANALYSIS -1

Objectives: 1. To make the students understanding the important of macroeconomic concepts.

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

Teaching Meth	nodology		Distribution	of hours/Unit	of Instruction
Traditional Ch	alk and Ta	lk Method [L]	15 hrs per ur	nit (for 5 units)	75
and the second of the second o			1 hrs (for 5 ur	1 hrs (for 5 units)	
		g/class work(S)	1 hour per u	nit(for 5 units)	05
Creating aw	areness of Num	about the late		nit(for 5 units)	02
Final Evaluatio	on (FE)		3 hrs (Rehea	rsal)	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		MOD		
	DESIGNATION AT SALE	67000000 CCCCCC	L	СТ	S	FE
		Unit-I				
1	3	Meaning ,Nature and scope of Macro economics	L			

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

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

Signature of the Staff Member(s)

IQAC coordinator

PRINCIPAL

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

POST GRADUATE AND RESEARCH

DEPARTMENT OF ECONOMICS

Teaching Plan

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

Programme:

II MA Economics

Academic Year:

2022-2023

Semester:

IV Semester

Course Code:P21EC4MBE4:1

Course Title: ENVIRONMENTAL ECONOMICS

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

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

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

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

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

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

		Unit - V			
23	5	Basic approaches to environmental policy	L		
24	5	Distributive effects of environmental policy	L		
25	5	law and environmental protection in india	L		
		Seminar			
1	1	UNIT-I T Environmental Segments		S	
2	1	UNIT-II Theories of public good		S	
3	1	UNIT-III Natural Resources And Their Conservation		S	
ı	1	UNIT - IV Environmental Pollution		S	
	1	UNIT-V Environmental Policies		S	
		Class Test			
	5	UNIT I-UNIT V	СТ		
		Final Evaluation (FE)			
	3	- 1 NO. 1 NO. 1			
		Entire course			FE

Signature of the Staff Member(s)

النواز الم

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

POST GRADUATE AND RESEARCH

DEPARTMENT OF ECONOMICS

Teaching Plan

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

Programme:

11 MA Economics

Academic Year:

2022-2023

Semester: III semester

Course Code: P21ECC309

Course Title: INTERNATIONAL ECONOMICS

Objectives: 1. To acquire basic knowledge about international trade and trade issues .

2. To understanding of the key concepts and practical applications of international trade

Teaching Methodol	ogy	Distribution of h	nours/Unit	Total Hours of Instruction
Traditional Chalk a	nd Talk Method [L]	15 hrs per unit ((for 5 units)	75
Evaluation –Class T	ests (CT)	1 hrs (for 5 units)	05
Seminar/problem s	olving/class work(S)	1 hour per unit((for 5 units)	05
Creating awaren developments of current research se	Numerical methods	in 1 hour per unit((for 5 units)	02
Final Evaluation (F	Ξ)	3 hrs (Rehearsa	l)	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		MOD		
			L	СТ	S	FE
		Unit-I				
1	3	Theories of absolute advantage	L			

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

.

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

IQAC coordinator

Signature of the Staff Member(s)

AMULTAL

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 901

POST GRADUATE AND RESEARCH DEPARTMENT OF COMMERCE

Teaching Plan

Name(s) of the Staff: R.ANUSUYA

Programme: B.0

B.COM

Academic Year:

2022-23

Semester:

II semester

Course Code:

U21CO2A3

Course Title: MARKETING MANAGEMENT

Objectives:

To provide basic knowledge of concepts, principles, tools and techniques of marketing

Teaching Methodology		Distribution hours/Unit	of	Total Hours of Instruction
Traditional Chalk and Talk Method [L]		12 hours per un	iit	60
ICT Enabled Lectures [I]				
Practical Demonstration[P]				
Tutorial (T)				
Field visit (FV)				
Group discussion				
Evaluation -Class Tests (CT)		1 hours per unit		5
Seminar/problem solving/cl	ass work(S)	5 hours per unit		5
Creating awareness about uantum commerce in curre	the latest developments of nt research sector (CA)			
inal Evaluation (FE)		1 hours per unit		5
rs per week 6	Credit	5 Total	-	75

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

SL.NO HOU	UNIT -CONTENT	MODE OF TEACHING					
	R		L	СТ	S	FE	
		UNIT -I:					
1	2	Introduction, Meaning, definition	ı				
2	2	Evaluation of marketing concept	1				
3	2	Features of marketing	L I				
4	3	Functions of marketing					
5	3	Market segmentation	L				

		UNIT - II:				
6	2	Buyer behavior: determination of consumer buying behaviour	L			
7	3	Product, classification of product, product policy.	-			
8	3	Product mix, factors influencing, product mix, major product mix.	L			-
		mix, ractors influencing, product mix, major product mix.	L			
9	2	Product life cycle, product development.				
10	2	Product diversification, elimination.	L			+
			L			+
12	2	UNIT - III:		1		
13	3	Factors determining pricing.	L			
14	3	Producers for pricing determination.	L			-
15	2	Pricing policy.	L			
16	2	kinds of pricing	L			-
		mids of pricing	L			
17	2	UNIT - IV:	L			
		Promotion, channels of distribution, kinds of middle man.				
18	2	Services real 11	L			
9	2	Services rented by wholesaler and retailer.	L			
.0	3	Torm of promotion cales promoti				
1		reisonal selling, publicity public reacti	L			
	3	Advertising, media, advantage and disadvantage.	L			
2		LIAUT	L			
2	2	Modern marketing F marketing business in				•
		E marketing. E marketing, business model associated with	L			
3	2	Web site associated with E marketing				
1	3	E marketing benefits and limitation, scope of E marketing.	L			
		scope of E marketing.	L			
	3 (Green marketing digital marketing.				
	2 (Online marketing.	L			
			L			
	1 U	Seminar				
	1 U	nit 1: function of marketing			-	
		nit 2: product life cycle, new product development.			S	
	- 01	it 3. Kinds of pricing.			S	
1	L U1	nit 4: Personal selling, sales promotion.			S	
1	- E	marketing benefits, limitation, online marketing.			S	
		o marketing.			S	
		Class Tart				
5	Un	it 1 – Unit 2				
	OTI			C.T		
		Final Evaluation (FE)		C.I		
5	Ent	rire course				-
						F.E

Amen Si

Signature of the Staff Member(s)

Dr. W. JAYASEFIT Control of Contr

Co-ordinator
Internal Quality Assurance Call (IQAC)
Govt. College for Warming (A)
Kumhakonam- 612 yuu

POST GRADUATE AND RESEARCH DEPARTMENT OF COMMERCE

Teaching Plan

Name(s) of the Staff: R.Anusuya

Programme:

Commerce

Academic Year

2022-2023

Semester: VI

Course Code: 18CO6EC5-2

Course Title: E- Commerce

Objectives:

To enable the students become familiar with the mechanism for conducting business transactions through electronic modes.

Teaching Met	Teaching Methodology			Distribution of hours/Unit		
Traditional Cl	nalk and Talk N	Method [L]	14 hrs per unit	14 hrs per unit (for 5 units)		
ICT Enabled I	Lectures [I]					
Practical Dem	onstration[P]					
Tutorial (T)						
Field visit (FV	Field visit (FV)					
Group discussi	Group discussion					
Evaluation –Cl	ass Tests (CT)		5 UNIT	5 UNIT		
Seminar/proble	Seminar/problem solving/class work(S)			5 UNIT		
Creating awareness						
Final Evaluation (FE)			5 HRS PER UN	5 HRS PER UNIT		
Hrs per week	s per week 5 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
1	4	Introduction to e-commerce – meaning - definition	Sept 1	和第一7分		1969
2	4	Features – advantages of e – commerce to organization	L			
2	1		L			
4	4	Limitations of e- commerce	L			
4	3	E- Business VS E- commerce – supply chain management.	L			
5	3	Unit – 2				
6	4	Electronic payment system – introduction Traditional payment system – internet based payment system.	L			-
	·		L			
7	3	Electronic fund transfer, automated clearing house.	L			
8	4	Digital cash – E- Cash E- Chequs	L			
		Unit –3			77 7	
	4	Electronic money- Benefit of e- money	L			
	3	Gateways – introduction – process	L			
	4	Advantages and disadvantages	L			
2 .	3	Protocol- working of the SET protocol	L			
2	<u> </u>	Unit – 4	14.00			
	3	Applications of e –commerce – Introduction	L			
		Business to business	L			
5 3		Online – travel services	L			
6 4	1	Online career industry , online banking.	L			
,		Unit-5				46.3
4		Virtual organization – concept – principles	L			
4	1	Advantages – Disadvantages	L			
4		Types of E- Business	L			\top
4	P	Pure C2C business models.	L			
		Seminar				
2	U or	NIT IFeatures – advantages of e – commerce to rganization			S	
2	sy	NIT II Traditional payment system — internet based payment stem			S	
2		NIT IIIGateways – introduction - process			S	+
2		NIT-IVOnline – travel services			S	+
2	Vir	tual organization – concept – principles			S	+
		Class Test			3	
5	UN	IIT 1-UNIT 5		COT		
	31			CT		
3	F13-1/	Final Evaluation (FE)				
		TIRE COURSE				

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Head of the Department

April.

Signature of the Staff Member(s)

l Houstro

Co-ordinator

Internal Quality Assurance Cell (QAC)
Govt. College for Wamar (A)
Kumbakonam- 612 001

Dr. W. JAYASE DE et Com, M.Phill, Ph.O. Associate Professione Superce,

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POST GRADUATE AND RESEARCH DEPARTMENT OF COMMERCE

Teaching Plan

Name(s) of the Staff: Dr. M. Maheswari

Programme:

B.com

Academic Year:

2022-23

Course Code:U21COC406

Semester:

IV semester

Course Title: COST ACCOUNTING

Objectives: To know the uses, methods and importance of cost accounting

Teaching Methodology	Distribution of hours/Unit		Total Hours of Instruction	
Traditional Chalk and Talk Method [L]	12 hour per unit (for 5	60		
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)		22	
Creating awareness about the latest developments in current research sector (CA)				
Final Evaluation (FE)	3 hrs (Rehearsal)		03	
Hrs per week	5	Total	90	

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

1	T		181.51	A		-
SL.NO	HOU R	UNIT -CONTENT		MODI TEAC	E OF HING	
		UNIT-1 COST ACCOUNTING	L	CT	S	FE
1	2	Cost accounting Definition Scope and not				
2	3	accounting store and nature of cost	L			
3	3	Cost concepts, Classification				
		Objectives and advantages of cost concepts	L			
4	3	Difference between Financial	L			
5	2	Cost sheets(excluding tenders and quotation)	L			+
(UNII - II. MATERIALG	L			
6	2					
7	3	Ecvers of stock, Bin card, Pernetual Inventors	L			
8	3	ABC Analysis, EOQ, Stores Ledger, Pricing of Material	L			
		issues issues	L			
9	3	FIFO, LIFO				
10	2	Simple average and Weighted average.	L			
		LINIT HE LA POUR GOOT	L			
12	2	Labour cost, Meaning and Definition				
13	2	Methods of remuneration and Incentive schemes	L			
14	2	Taylor's plan and Marrial and Incentive schemes	L			
15	3	Taylor's plan and Merricks plan	L			
16	2	Halsey and Rowan plan	L			
17	2	Labour Turnover types and causes	L			
1 /		Labour turnover remedies	L			
18	2	UNIT - IV: OVERHEADS				
		Overheads classification, allocation, appointment	L			
19	3	Primary and Secondary distribution	L			
20	2	Repeated distribution method	L			
21	3	Simultaneous equation method	L			
22	3	Machine hour rate	L			
	•	UNIT - V: JOB COSTING				
23	3	Job Costing	L			
24	3	Contract costing(Simple problems)	L			
25	2	Process costing	L			
26	2	Batch costing	L			
27	3	Batch costing	L			
27		PROBLEM SOLVING				
1	1	UNIT-I			S	
1	1	UNIT-II			S	
2	1		+		S	
3	1	UNIT-III			S	_
4	1	UNIT – IV			S	
5	1	UNIT-V				
		Class Test		CT		
1	5	UNIT I-UNIT V		CT		
		Final Evaluation (FE)				
			1			F

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Head of the Department

Dr. W. JAYAS . W. Som, M. Phill, Ph.D., .

Entire course

Signature of the Staff Member(s)

Internal Quality / Section 1992 (Section 1992)

Govt Confedence for Assembly Authorized to Authorized for Assembly 1997

Kumpakename 612 397

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

Teaching Plan

Name(s) of the Staff: Dr. M. Maheswari

Programme:

B.com

Academic Year:

2022-23

Course Code:P21COC312

Semester:

III Semester

Course Title: RESEARCH METHODOLOGY

Objectives:

To give students a broad understanding of research methodology, including qualitative and quantitative

methods					Total Hours
Teaching Meth	odology		Distribution of hours/	of Instruction	
Traditional Cha	alk and Talk M	ethod [L]	12 hour per unit (for :	60	
ICT Enabled L	ectures [1]				
Practical Demo	nstration[P]				
Tutorial (T)					
Field visit (FV)					
Group discussion	on				
Evaluation –Cla	ass Tests (CT)		5 test per unit		05
Seminar/problem	m solving/class	s work(S)	(for 5 units)	20	
Creating awarer in current resear		latest developments (CA)			
Final Evaluation	Final Evaluation (FE)			5hrs (Rehearsal)	
Hrs per week	5	Total	90 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 RESEARCH IN BUSINESS						
]	2	Meaning and definition of Research in business	L					
2	3	Nature and Scope of Research	L					
3	3	Objectives and qualities of research	L					
4	3	Methods of Research	L					
5	2	Techniques of Research	L					

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`	Semest _	UNIT - II: RESEARCH DESIGN				
	2	Meaning and definition of Research Design				
,	3	Features of Research Design		L		
3	3	Formulation of Research problem		L		
)	3	Testing of Hypothesis		L		
0	2	Testing of Hypothesis.		L		
		UNIT – III: DATA COLLECTION		L		
1	2	Methods of Data collection				
2	2	Primary and secondary data, Observation]			
3	2	Interview Questionnaire & Schedule	J	,		
4	3	Attitude measurement and scales	I	,		
5	2	Sample and Sampling methods, Types	I	,		
6	2	Random and Non-Random	I	,		
			I			
7	2	UNIT – IV: CORRELATION				
		Correlation and Regression	L			
8	3	Hypothesis Testing of head				
9	2	Hypothesis, Testing of hypothesis	L			-
20	3	Type-I and Type-II errors, Level of Significance	L			
21	3	Ciii-Square	L			
- 1	3	ANOVA	L			
22	2	UNIT - V: REPORT WRITING	L			
23	3	Report Writing and presentation steps in report writing	1			
23 24		Substance of Report	L			
	2	Format of Report	L			
25	2	Importance of foot note and Bibliography	L			
26	3	Index vs bibliography	L			
		Seminar	L			
l	1	UNIT-I Nature of research				
2	1	UNIT-II Formulation of Research problem			S	
3	1	UNIT-III Sample and Sampling methods			S	
4	1	UNIT – IV Testing of hypothesis			S	
5	1	UNIT-V Format of Reports			S	
		1 offiliat of Reports			S	
1	5	UNIT I-UNIT V		•		
				СТ		
	3	Final Evaluation (FE)				
		Entire course				T

Head of the Department

Dr. W. JAYASEELI, M.Com., M.Ph.J. Sh. B. e Professor of Commerce.

for Women (Auto..ems..a).

Signature of the Staff Member(s)

Co-ordinator Internal Quality Assurance Cell (IQAC)
Gevt. College for Women (A)
Kumbakonam- 612 061

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POST GRADUATE AND RESEARCH DEPARTMENT OF COMMERCE

Teaching Plan

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

Programme: **BCOM** Academic Year:

2022-23

Course Code: U21COC304

Semester:

III semester

Course Title: PARTNERSHIP ACCOUNTING

Objectives:

prepare the accounts at the time of admission retirement and insolvency

• To help the stu	idents to	prepare the accounts at the time of	Distribu	ition of	Total Hours	
Teaching Methodolo	gу		hours/U		of Instruction	
Traditional Chalk and		Method [L]	(for 5 u		60	
ICT Enabled Lectures		U - 2				
Practical Demonstrat						
Tutorial (T)		3 hour units)	per unit(for 5			
Field visit (FV)						
Group discussion		-				
Evaluation -Class Tes	ts (CT)		5 test p	er unit	05	
Seminar/problem solv	ving/cl	ass work(S)	(for 5 u	ınits)	22	
Creating awareness quantum physics in c		the latest developments of research sector (CA)				
Final Evaluation (FE)			3 hrs (Rehearsal)		03	
Hrs per week 5		Credit	4 Total 90			

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

SL.NO	HO UNIT -CONTENT		MODE OF TEACHING				
	UR		L	CT	S	FE	
		UNIT I : PARTNERSHIP DEED AND BASIC CONCEPTS					
1	2	Definition of Partnership – Partnership Deed: Rules applicable in the absence of partnership deed; adjustments in accounts	L				
2	2	Interest on capital – Interest on drawings	L				
3	3	Capital accounts of partners – fixed capital method,;	L				
4	3	fluctuating capital method	L				
5	3	Final accounts of partnership	1			ĺ	

		Admission : Adjustments in profit short				
_	- /2	Admission: Adjustments in profit sharing ratio – Adjustment of Goodwill,	L			
77	2	Methods of valuation of Goods in				
8	2	Revaluation of Assets and Linking	L			
9	3	Adjustificity of Capital	L			
10	3	Preparation of Balance Sheet	L			
12	3	I MIT III. DECEMBER	L			
13	2	Retirement – Revaluation, capital account				
14	3	01100	L			
15	-	retirement cum admission	L			
16	3	Death of a partner	L			
10	4	Join Life Policy	L			
17	3	UNIT - IV: DISSOLUTION OF A FIRM	L			
		Dissolution of firm				
18	2	Piecemeal distribution	L			
19	2	Proportionate capital method.	L			
20	3	Garner Vs Murray	L			
21	3	Insolvency of partner/partners	L			
		Statement of affairs & deficiency accounts	L			
		LINIT M. Counts				
22	1	UNIT - V: SALE OF PARTNERSHIP Purchase consideration				
23	1	Goodwill valuation	L			
24	3	Realisation and carital	L			
25	2	Realisation and capital accounts Cash / bank accounts	L			
			L			-
1	3	PROBLEM SOLVING AND CLASS WORK UNIT-I Final accounts of partnership				-
2	5	Final accounts of partnership			CW	
3	5	partiers			CW	
4	5	UNIT-III Retirement of partners			-	
 5		UNIT - IV Dissolution of a firm			CW	
<i></i>	4	UNIT-V Sale of partnership			CW	
•	_	Class Test			CW	
	5	UNIT I-UNIT V				
		Final Evaluation (FE)		СТ		
	3	Entire course				
						FE

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Head of the Department

AMAL

Signature of the Staff Member(s)

Dr. W. JAYASEELI, M.Com., M.Ph., Hale .

Court "Momen (Austraction Court)"

Co-ordination
Internal Quality / ssyrange 6001 626/
Govt. College 66/00 100/
Kumhakunamy 69/2 00/

POST GRADUATE AND RESEARCH DEPARTMENT OF COMMERCE

Teaching Plan

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

Academic Year:

2022-23

Programme:

BCOM

Course Code:

U21COC102

Semester:

I semester

Course Title: BUSINESS COMMUNICATION

Objectives:

To develop the necessary communication skill required for a business situation among the

Teaching Met	hodology		Distribution of hours/Unit		Total Hours of Instruction
Traditional Ch	nalk and Talk N	Method [L]	12 hrs per unit (1	for 5 units)	60
ICT Enabled I	Lectures [1]				
Practical Dem	onstration[P]				
Tutorial (T)					
Field visit (FV)					
Group discussi	on				
Evaluation –Cl	Evaluation –Class Tests (CT)			for 5 units)	05
Seminar/proble	Seminar/problem solving/class work(S)			1 hour per unit(for 5 units)	
Creating awareness about the latest developments in current research sector (CA)			;		
Final Evaluation (FE)		5 hrs (Rehearsal)		05	
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		
	1	UNIT -I:	L	СТ	S	FE
1	2	Communication – Introduction – Objectives				
2	3	Characteristics – Need Barriers	L			
3	2	Importance of commercial correspondence –	L			
		Functions of commercial correspondence	L			
4	3	Appearance of Business Letter- Qualities of a Good	T			
		Business letter	L			
5	2	Format of Business Letter	L			
		UNIT – II	L			
6	2	Trade enquiry – Replies,	L			
7	3	offers and quotations	L			+
8	2	Status Enquiries. Orders	L			+
9	3	Execution	L			+
10	2	Cancellation	L			+
		UNIT – III	L			
12	3	Complaint	L			
13	3	and their Adjustments	L			_
14	3	Circular letters	L			
15	3	Collection letters	L			_
		UNIT – IV	_ L			
16	4	Application for Situation	L			
			L			
17	4	Banking correspondence	L			
18	4	Export and Import Trade correspondence.	L			
		UNIT – V				
19	2	Electronic communication: Internet —-	L			
22	3	World Wide Web - E mail	L			
23	3	Voice Mail – SMS – Whatsapp	L			
24	2	Video Conferencing	L			
25	2	Interactive Voice response system (IRVS)	L			
		Seminar				
1	1	UNIT-I Appearance of Business Letter			S	
2	1	UNIT-II offers and quotations			S	+
3	1	UNIT-III Collection letters			S	_
4	1	UNIT – IV Export Trade correspondence			S	
5		1				_
J	1	UNIT-V Voice Mail – SMS – Whatsapp			S	
		Class Test			1	
1	5	UNIT I-UNIT V		CT		
,		Final Evaluation (FE)				
1	5	Entire course				F

Signature of the Staff Member(s)

Or. W. JAYASEELI, M.Com., M.Phil., Ph. Unternal Quality Assurance Coll MOACY
Associate Professor of Company

Associate Professor of Commerce, Government College for Wome

Kumbakonam -

Govt. College for Women (A)

Kumbakonam-612 uut

POST GRADUATE AND RESEARCH DEPARTMENT OF MATHEMATICS

Teaching Plan

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

Programme:

M.Sc MATHEMATICS

Academic Year:

2022-2023

Semester:

I semester

Course Code: P21MC103

Course Title: Graph Theory

Objectives:

1.To introduce the basic concepts of Graph Theory.

2. To give applications of Graph Theory .

Teaching Method	lology		Distribution of hours/Unit		Total Hours of Instruction
Traditional Chalk	and Talk Meth	nod [L]	13 hrs per unit (for 5	units)	65
ICT Enabled Lectures [I]					
Practical Demons	stration[P]				
Tutorial (T)		1 hour per unit(for 2 t	units)	02	
Field visit (FV)					
Group discussion					05
Evaluation -Class	s Tests (CT)		5 test per unit		05
Seminar/probler	n solving/class	work(S)	1 hour per unit(for 5 t	ınits)	05
Creating awareness about the latest developments of quantum physics in current research sector (CA)				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				
		ONT -CONTENT	L	СТ	S	FE	
	1	Unit-I Graphs, Sub graphs and Trees					
1	2	Introduction and Basic Definition The definition and some examples	L				
2	3	Graphs and simple graphs — Graph Isomorphism	L				
3	3	The Incidence and Adjacency Matrices – Sub graphs	L				
4	3	Vertex Degrees – Paths and Connection – Cycles – Trees	L				
5	2	Cut Edges and Bonds – Cut Vertices	L				
		Unit-II Connectivity, Euler Tours and Hamilton C	ycle				
6	2	Connectivity, Euler Tours and Hamilton Cycle	L				
7	3	Connectivity - Blocks	L				
8	3	Euler Tours	L				
9	3	Hamilton Cycles	L				
10	2	Hamilton Cycles and theorems	L				
		Unit – III Matching, Edge Colorings					
12	2	Matching, Edge Colorings	L				
13	2	Matching – Matching and Coverings in Bipartite Graphs	L				
14	2	Matching – Matching and Coverings in Bipartite Graphs and theorems	L				
15	3	Edge Chromatic Number	L				
16	2	Vizing's Theorem	L				
17	2	Application of Vizing's Theorem	L				
		Unit - IV Independent sets and Cliques, Vertex Col-	l orings				

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

5- Polkuman Head of the Department

Signature of the Staff Member(s)

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

POST GRADUATE AND RESEARCH DEPARTMENT OF MATHEMATICS

Teaching Plan

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

Programme:

B.SC., MATHEMATICS(E.M)

Academic Year:

2022-2023

Semester:

I semester

Course Code: U21MC203

Course Title: Analytical Geometry 3D And

Trigonometry

Objectives:

1. Expose various concept of Analytical geometry of 3D.

2. Be able to understand properties of straight lines and spheres. Solve trigonometry equation and applications.

Teaching Methodology			Distribution of hours/Unit		Total Hours of Instruction
Traditional Chall	k and Talk Meth	od [L]	13 hrs per unit (for 5 units)		65
ICT Enabled Lect	ICT Enabled Lectures [I]				
Practical Demons	stration[P]				
Tutorial (T)			1 hour per unit(for 2 units)		02
Field visit (FV)					
Group discussion	Group discussion				05
Evaluation -Clas	s Tests (CT)		5 test per unit		05
Seminar/probler	n 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 (TEACHI					
			L	CT	S	F		
1	2	Unit-1				_		
2			L					
2	3	Coplanar lines	L					
3	3	Skew lines	L					
4	3	Base of the lines of the shortest distance	L					
5	2	The definition and some examples	L					
		Unit-II						
6	2	Sphere	L					
7	3	Standard equation	L					
8	3	Length of a tangent from any point	L					
9	3	Sphere passing through a given circle	L					
10	2	Intersection of two sphere	L					
		Unit – III						
12	2	Expansions of $sin(n\theta)$, $cos(n\theta)$, $tan(n\theta)$	L					
13	2	Expansions of $\sin^n \theta$, $\cos^n \theta$	L					
14	2	Expansions of $sin(\theta)$ in powers of θ .	L					
15	3	Expansions of $cos(\theta)$ in powers of θ .	L					
16	2							
		Expansions of $tan(\theta)$ in powers of θ .	L					
17	2	Based problems in $sin(\theta)$, $cos(\theta)$ and l , $km tan(\theta)$	L					
		Unit – IV						
18	2	Hyperbolic functions	L					
19	3	Explain hyperbolic function	L					
20	2 1	Explain circular trigonometric functions	L					
21	3	Relation between hyperbolic and circular trigonometric	L					
		functions						
22	3	Inverse Hyperbolic Functions	L					

		Unit – V			
23	3	Logarithm of a complex number	L		T
24	3	Summation of Trigonometric series	L		
25	2	Difference method	L		
26	2	Angles in arithmetic progression method	L		
27	3	Gregory's Series.	L		
		Seminar	1		
1	1	UNIT-I Coplanar lines		S	
2	1 ,	UNIT-II Sphere passing through a given circle		S	
3	1 -	UNIT –III Expansions of sin(0), cos(0), tan(0)		S	
4	1	UNIT – IV Inverse Hyperbolic Functions		S	
5	1 1 1	UNIT-V Logarithm of a complex number		S	
		Class Test			
1	5	UNIT I - UNIT V	С	Т	
		Final Evaluation (FE)			
1	3	Entire course			FE
			<u>/</u>		

5. foffum Head of the Department

Signature of the Staff Member(s)

Co-ordinator

Govt. College for Women (A)

Kumbakonam- 612 001

POST GRADUATE AND RESEARCH DEPARTMENT OF PHYSICS

Teaching Plan

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

Programme: B.Sc Physics

Academic Year:

2022-2023

Semester:

1 semester

Course Code:: U21PHC101

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	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
Ice breaking / Creating awareness about the study ofproperties of matter and sound which is of great value in day to day life. (CA)					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		TEAC			
				СТ	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	L		
	1 432	motion.			
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 waterandair - 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		СТ	
		Final Evaluation (FE)			
H			1		
1	3	Entire course			FE

A. Malaiaran.

Signature of the Faculty

AHOD HOD

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

IOAC Coordinator

Co-ordinator
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Kumbakonam- 612 001

POST GRADUATE AND RESEARCH DEPARTMENT OF PHYSICS

Teaching Plan

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

Programme: B.Sc., Computer science Shift -I

Academic Year:

2022-2023

Semester:

III-semester

Course Code: U213AAPH1

Course Title: APPLIED PHYSICS I

Objectives:

☐ To understand the Mathematical expression for Guass law and its applications.

☐ To study the nature of various magnetic materials.

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

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

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

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

20	Determination of mutual inductance- coefficient of coupling					
21	2	Transformer theory	L			
		Unit - V alternating current				144
22	2	Introduction to Ac current and its importance	L			
23	3 AC circuit with double components - L Measurement of current and voltage					
24	3	Power in an AC circuit – Power factor derivation	L			
25	3	Wattless current – Choke – series and parallel resonance circuit	L			
26	2	Oscillatory discharge of a condenser	L			
		Class Test				
1	1	Gauss theorem and its applications		CT	1	
2	1	Relation between Magnetization, permeability, susceptibility		СТ		
3	1	Wheatstone's bridge, Carey foster's bridge		CT		
4	1	Determination of self induction – Anderson's method		CT		
5	1	Oscillatory discharge of a condenser		CT		
		Class Work				
1	1	Ohm's law - Kirchoff's first and second law-			S	
2	1	Eddy current and its uses			S	
		Final Evaluation (FE)				

1 3 Entire course FE

Signature of the Faculty

HOD

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IQAC Coordinator

Co-ordinator
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Kumbakonam-612 001

POST GRADUATE AND RESEARCH DEPARTMENT OF PHYSICS

Teaching Plan

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

Programme:

II M.Sc Physics

Academic Year:

2022 -- 2023

Semester:

III semester

Course Code: P21PHC311

Course Title: CC- XI -Nuclear and Particle Physics

Objectives:

• To introduce the fundamental characteristics of nucleus, nuclear reactions and radioactive decay.

• To impact knowledge about various classification of elementary particles.

Teaching Metho	ndology		Distribution of hours/Unit		Total Hours	
reaching Metric	radiogy		Distribution	of Instruction		
Traditional Cha	lk and Talk M	ethod [L]	13 hrs per uni	it (for 5 units)	65	
ICT Enabled Le	ctures [I]					
Practical Demo	nstration[P]	ALC: YELD	1 hour per un	it(for 5 units)	05	
Tutorial (T)	Tutorial (T)			it(for 2 units)	02	
Field visit (FV)	Field visit (FV)					
Group discussion	on		ALC: A			
Evaluation -Cla	Evaluation -Class Tests (CT)			5 test per unit		
Seminar			1 hour per un	05		
Creating awa	areness abo	out the latest				
developments of quantum physics in current			1 hour per un	05		
research sector (CA)						
Final Evaluation	n (FE)	1.57 7.7 1.25	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

000 -

				MODE OF TEACHING				
SL.NO	HOUR	UNIT -CONTENT	L	СТ	S	F		
	Un	it-I: Nuclear Properties , Two body problems and Nucle	art for	ces				
1	2	Basic ideas of Nuclear size, mass, charge distribution, spin and parity	L					
2	3	Binding energy, semi empirical mass formula, Nuclear stability,	L					
3	3	Mass parabola of the nucleus, Ground state of Deutron,meson theory of exchange forces						
4	2	Scattering cross section, Neutron	L					
5	3	Proton scattering at low energies.	L					
		Unit-II: RADIOACTIVE DECAYS						
6	2	Alpha emission, giger, Nuttal law, Gamow"s theory Neutrino hypothesis	L					
7	3	Fermi theory of beta decay, Curie point, Energies of beta spectrum selection rules	L					
8	2	Non conversation of parity,	L					
9	3	Gamma emission selection rules, Transition probability	L					
10	3	Internal conversion, Nuclear isomerism.	L					
		Unit - III: NUCLEAR MODELS		السي				
11	2	Consevation of energy, Q-values of nuclear reaction	L					
12	3	Energetic of nuclear reaction, Reciprocity theorem	L					
13	3	Breit wigner formula, Compound nucleus	L					
14	3	Resonance theory, Collective model	L					
15	2	Optical model	L					
		Unit - NUCLEAR REACTORS				10-		
16	3	Characteristics fo fission, Mass distribution of fragments, Fission cross section	L					

				1		
17	Energy in fission, Bohr wheeler theory of nuclear Fission		L			
18	2	Fission reactors, Generation of electric power	L			
19	3	Fast breeder reactor , Basic fusion process, Charaacteristics of fusion	L			
20	2	Laser fusion, Plasma confinement	L			
		UNIT-V ELEMENTARY PARTICLES				
21	1	Building blocks of nucleus, Nucleons, leptons, mesons, baryons, hyperons, strange hadrons	L			
22	2	Classification of fundamental forces and elementary particles, Basic conservation laws				
23	2	Quantum numbers, Gell, Mann, Nishijima formula, invariance under time reveals(T) charge conjugation(c) and parity(P)	L			
24	2	CPT theorem, Parity and conservation in weak interaction	L			
25	3	SU(3) symmetry, Meson Octer, Basic Quarks.	L			
		Class Test				
1	5	Test 1:Nuclear Properties		СТ		
	12.0	Test 2: Gawmow's theory				
	4	Test 3: Collective model,Optical model				
		Test 4: Bohr Wheeler theory of nuclear fission				
		Test 5: Basic conservation law				
		Final Evaluation (FE)				
1	3	Entire course				FE

Signature of the Faculty

HOD

IQAC Coordinator

Or. R. RADHA,
Associate Professor,
Centre for Nonlinear Science(CeNSc),
PG & Research Department of Physics,
Government College for Women(Autonomous),
Kumbakonam - 812 001

Co-ordinator
Internal Quality Assurance Centro (AC)
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.S.RENUKA,

Programme

: M.Sc Physics

Academic Year

: 2022-2023

Semester

: IV semester

Course Code

:P21PHC413

Course Title

: CCXIII: CONDENSED MATTER PHYSICS

OBJECTIVES:

> To relate crystal structure to symmetry, recognize the correspondencebetween real and reciprocal space.

Acquire knowledge of the behavior of electrons in solids based on classical and quantum theories.

> To become familiar with the different types of magnetism and magnetismbased phenomenon.

> To develop an understanding of the dielectric properties and ordering ofdipoles in ferroelectrics.

> To get familiarized with different types of modern engineering materials.

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	5
Seminar(S)	1 hour per unit (for 5 units)	5
Creating awareness about the latest developments of Solid state physics in current research sector (CA)	1 hour per unit (for 2 units)	2
Final Evaluation (FE)	3 hrs (Rehearsal)	3
Hrs per week 6 Credit	5 Total	90

90
75
60
30

	MODE OF TEACHIN							
SL.NO HRS.		RS. UNIT -CONTENT		Class Test (CT)	Semin ar (S)	Final Evaluati on (FE)	Creating awarene ss (CA)	
		UNIT-I: CRYSTAL STRUCTURE AND D	EFE	CTS				
1	2	Crystal lattice-Primitive and unit cell	L					
2	2	Seven classes of crystals, Bravias lattice	L					
3	3	Miller indices, Reciprocal lattice	L					
4	2	Structure -SC, BCC	L					
5	2	FCC and HCP	L					
6	2	Lattice defects-Point, Line and plane defects, Schottky and Frenkel defects	L					
7	2	Vacancies- Colourcentres, Edge and screw dislocation, Grain boundaries	L					
		Seminar (S)						
8	1	FCC and HCP			S			
	1	Class Test (CT)						
0		Unit I: Lattice Vibrations and Thermal		СТ				
9	1	Properties Properties						
_		NIT-II: FREE ELECTRON THEORY AND EN	ERGY	BANI	OS			
10	1	Energy levels and density of orbitals-Fermi	L					
10	3	Dirac Distribution						
11	2	Free electron gas in three dimensions, Heat capacity of electron gas	L					
12	2	Electrical conductivity and ohm's law, Motion in magnetic field	L					
13	2	Hall effect	L					
14	2	Thermal conductivity of metals, Nearly free electron model	L					
15	2	Kroneig Penny model	L					
16	2	Semiconductors-Band gap, Effective mass, Intrinsic carrier concentration	L					
		Seminar (S)						
17	1	Hall effect			S			
		Class Test (CT)			1.3			
18	1	Unit-II: Free electron theory and energy bands UNIT-III: MAGNETISM		СТ				
19	2	Weiss theory of Paramagnetism, Quantum theory of paramagnetism						
20	2	Langevin's theory of Diamagnetism, Weiss theory of paramagnetism,	L					
21		Demagnetization of a paramagnetic salt, Paramagnetic susceptibility of conduction	L					
	2	electrons						

22	1	Temperature dependence, Weiss molecular field theory	L				
23	2	Hund's rules	L				
24	2	Ferromagnetic order, Curie point and the exchange integral, Temperature dependence of saturation magnetization	L				
25	1	Magnons, Antiferromagnetic order	L				
26	3	Ferromagnetic domains, Origin of domains and hysteresis, Introduction of Ferrites	L				
		Seminar (S)					
27	1	Ferromagnetic domains			S		
100		Class Test (CT)					40:00
28	1	Unit III: Magnetism		CT	,		
1 -11-		UNIT-IV:DIELECTRICS AND FERROELE	CTRI	CS			
29	2	Macroscopic electric field	L				
30	2	Local electric field at an atom, Dielectric constant and polarizability	L				
31	2	Types of Polarizability	L				
32	2	Temperature and frequency dependency	L				
33	2	Determination of Dielectric constant	L				
34	2	Clausius-Mossotti equation	L				
35	1	Ferroelectric materials	L				
36	2	Ferroelectric Domains, Polarization Catastrope	L				
		Seminar (S)					
37	1	Types of Polarizability			S		
		Class Test (CT)					
38	1	Unit IV: Dielectrics and Ferroelectrics		CT			
		UNIT V:MODERN ENGINEERING MATI	ERIA	LS			
39	2	Polymer, Ceramics, Super strong materials, Elactrets and Cermets	L				
40	1	Nuclear Engineering materials	L				
41	2	Thermoelectric materials	L		1110		
42	2	Metallic Glasses	L				
43	2	Fibre reinforced Plastics	L				
44	2	Metal matrix composites	L				
45	1	High temperature materials	L				
46	3	Soft and Hard Magnetic materials-Basic idea of Nanomaterials	L				
		Seminar (S)					
47	1	High temperature materials			S		
	15.35.1	Class Test (CT)					

48	1	Unit V:Modern Engineering materials	CT		
		Creating awareness (CA)			
49 2 Creating awareness about the latest developments of Condensed Matter Physics in current research sector (CA)				CA	
		Final Evaluation (FE)			
50	3	Unit I To Unit V		FE	

Signature of the Faculty

HOD

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

IQAC Coordinator

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

POST GRADUATE AND RESEARCH DEPARTMENT OF PHYSICS

Teaching Plan

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

Programme:

B.Sc., physics

Academic Year:

2022-2023

Semester:

Visemester

Course Code: 18PH6EC5

Course Title: Computer programming - C

LANGUAGE

Objectives:

☐ To understand the basic concept of c programming.

☐ To study the Arrays and string function

Teaching Meth	odology		Distribution	Total Hours of Instruction	
Traditional Chalk and Talk Method [L]			13 hrs per un	65	
Evaluation -Class Tests (CT)			1 hrs per units (for unit 5)		05
Seminar(S)			1 hrs (for 5 u	01	
Creating Awarness (CA) Final Evaluation (FE)			1 hour per ur	nit(for 5 units)	01
			3 hrs (Rehearsal)		03
Hrs per week	5hrs	credits	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	СТ	S	FE

1.	2	History of c	L	
2	2	Basic structure of c programs	L	
3	2	Keywords and identifiers	L	
4	2	Constants, variables, Datatypes, Declaration of variables, assigning variables		
5	2	Operators ,Classification of operators	L	Ħ
6	3	Precedence and Associativity of operaters	L	
	1	Unit-II I/O,CONTROL STATEMENTS AND AR	RAYS	
7	2	Introduction to Library functions and control statements	L	
8	2	Gets,puts,getchar,putchar function	L	
9	2	Formatted input and output statements	L	
10	2	Decision making with if, simple if, ifelse,nested ifelse,else if ladder		
11	2	Swith ,goto, break,continue,whiledo, while ,for statement	L	
12	3	Declaration of one,two dimensional array, Character strings	L	
		Unit – III FUNCTION AND STRUCTURE		
13	2	Introduction to function	L	Y
14	2	Types of function	L	
15	2	Local and Global variables	L	
16	2	Recursion ,Storage classes		
17	3	Structure ,Declaring structure variables,Accessing structure member	L	
18	2	Structure intialization	L	
	Unit	- IV POINTERS, FILES AND PREPROCESSOI	RDUCTO	

20 .	2	Initialization of pointers	L		
21	2	Types of pointers	L		
22	3	Files in c and declaration	L		
23	2 .	Random access file			
24	3	Functions used with random files	L		
		Unit - V PROGRAMS			
25	3	Solving Quadratic equations	L		
26	6 3 Newton raphson method		L		
27	Finding the smallest and largest element in array		L		
28	2	Ascending and Descending order	L		Ī
27	3	Addition/Subraction/Multiplication of two matrics	L		
		Seminar			
1	1	UNIT-I to V		S	
		Creating Awarness			
1	1	Creating awareness about higher studies/Current trends in Science & Technology	CA		
		Class Test			

1	5	UNIT I- Operators	СТ	,
		UNIT II- Formatted input and output statements		
		UNIT III- Structure ,Declaring structure variables,Accessing structure member		
		UNIT IV- Types of pointers		
		UNIT V- C Program Newton raphson method		
		Final Evaluation (FE)		
1	3	Entire course		FE

7. Rolling

Signature of the Faculty

Kur

Dr. R. RADHA, Associate Professor Centre for Noninear Consel(CaNSc),
PG & Research De Consel Physics,
Government Coned

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

IQAC Coordinator

POST GRADUATE AND RESEARCH DEPARTMENT OF PHYSICS

Teaching Plan

Name(s) of the Staff: B.JEEVA

Programme:

M.Sc Physics

Academic Year:

2022-2023

Semester:

II semester

Course Code:P21PHC206

Course Title: CC-VI QUANTUM MECHANICS

Objectives:

 $\hfill\Box$ To understand the Schrodinger equation and operator formalisms.

☐ To study the dynamics of the quantum particle and the wave equation in the relativistic situation

Teaching Methodology			Distribution o	Total Hours			
Traditional Chalk and Talk Method [L]			13 hrs per uni	65			
Evaluation -Ciass Tests (CT)			1 hrs (for 5 units)		05		
Ice Breaking an	Ice Breaking and Creating awareness			Ice Breaking			
			Creating Awar	reness	01		
Final Evaluation	Final Evaluation (FE)		aluation (FE)		3 hrs (Rehear	sal)	03
Hrs per week	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			E OF	
32	110011		L	СТ	S	FE
		Unit-I				
1	2	The Schrödinger Equation and Stationary States: Statistical interpretation	L			
2	3	Normalization of the wave function	L			
3	3 probability current density		L			
4	Expectation values and Ehrenfest's theorem Time independent Schrödinger equation		L			
		L				
		Unit-II General Formulation				
6	2	Linear operators - Dynamical variables - eigenfunction and eigen values scalar product	L			
7			L			
8	3	Commutation rules and Uncertainity principle ,Postulates of Quantum Mechanics ,Dirac notations – Bra and Ket notations	L			
9	3	Relationship between Kets and wave functions - Matrix representation of an operator - Unitary transformation	L			
10	2	The Schrödinger picture - Heisenberg Picture - Interaction picture - Parity operator	L			
	Uı	nit – III Angular Momentum and Matrix Represe	ntatio	on		
12	2	Orbital angular momentum - Commutation relations	L			
13	2	Eigen values - Matrix representation of angular momentum	L			

14	2	Matrix representation of angular momentum Matrices corresponding to j=2	L		
15	3	Pauli spin matrices - Addition of angular momenta	L		
16	2	Scattering theory: The scattering cross section	L		
17	2	Methods of partial waves Green function - Born approximation	L		
		Unit - IV Approximation Methods			
18	2	Time independent perturbations Non-degenerate case: First and second order perturbations	L		
19	3.	Degenerate case: Zeeman effect - Stark effect., Variational method - WKB Quantization rule	L		
20	2	Time dependent perturbation theory - First order perturbation	L		
21	3	Constant perturbation - Harmonic perturbation - Transition probability	L		
22	3	Fermi's Golden rule - Adiabatic approximation - Sudden approximation.	L		
		Unit - V Relativistic Wave Equation			
23	3	Klein-Gordon equation for a free particle	L		1
24	3	an electromagnetic field	L		
25	2	Dirac Hamiltonian	L		
26	2	Dirac matrices – spin of the Dirac particle –	L		
27	3	Negative states	L		
		Ice Breaking and Creating Awareness			
1	1	Ice Breaking	IB		
2	1	Creating awareness about higher studies/Current trends in Science & Technology	СТ		
	-	Class Test			

1	5	UNIT I-UNIT V	СТ	
		Final Evaluation (FE)		

Signature of the Faculty

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

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. Cellege for Women (+)
Kumbakenam- 612 003

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

Teaching Plan

Name of the Staff: A.ANITHA

Programme:

III B.Sc., Chemistry

Academic Year: 2022-2023

Semester:

V semester

Course Code:

18CH5EC3

Course Title: ANALYTICAL CHEMISTRY

Objectives:

> To develop some understanding of the professional and safety responsibilities residing in working on chemical analysis

➤ To provide an understanding of chemical methods employed for elemental and compound analysis.

Teaching Methodolog	y	Distribution of hours/Unit	Total Hours of Instruction
Traditional Chalk and	Talk Method [L]	13 hrs per unit (for 5 units)	65
Evaluation –Class Test	s (CT)	5 test per unit	. 05
Seminar/problem solvi	ng/class work(S)	1 hour per unit(for 5 units)	03
Final Evaluation (FE)		3 hrs (Rehearsal)	02
Hrs per week 5	Credit	5 Total	75

2 V P	Hours per week	Total	Hours of Inst	ruction
	6		90	
1.1 %	5		75	
	4		60	
3	2	v 6	30	

Γ					MOD TEAC		
	SL.N O	HOUR	UNIT -CONTENT	L	CT	S	FE
-			Unit-l			A	
-	1	2	Laboratory hygiene and safety	L			
2	2	3	Simple first aid procedure for accidents, acid in eye, alkali in eye, acid burns, alkali burns, bromine burns,	L			
3		3	Poison, inhalation of gases, cut by glasses and heat burns. Data of analysis.	L			
4		2	Errors in chemical analysis, classification of errors. determinant errors, instrumental errors, personal errors, constant errors and proportional errors.	L			
5		3	Precision, accuracy and rejection of data questioned. Significant figures. mean deviation and standard deviation. Curve fitting. Method of least squares – definitions only.	L			
		_	Unit-II				
6	3	1	Separation and Purification Techniques: General Principle involved in the separation of precipitates.	L			
7	2		Solvent extraction	L			
	3	8	Chromotography: Principles Involved in the adsorption, partition and ion exchange, paper, thin ayer, column, gas-liquid chromatography	L		344	
	3		Desiceants, Vaccum drying, Distillation, fractional istillation, steam distillation, azeotropic distillation,	L			
	2		rystallization and sublimation – principles and echniques	L			
	4.7.7		Unit — III			78.12.13F	
	3	Pı di	inciples involved in thermogravimetric analysis and fferential analysis — instrumentation.	L			
	2	Clan	naracteristic of TGA (CaC ₂ O ₄ H ₂ O, CUSO ₄ 5H ₂ O) d DTA Curves (CaC ₂ O ₄ H ₂ O).	L			
d.	2	Fa	ctors affecting TGA and DTA curves	L			
	2	An	alytical Electro Chemistry	L			

16	2	Electrolytic separation.	L	***************************************	*Martin di si di semani mangani banya (s.	*****
	8.0-		L	ē. * _		
17	2	Principles of electro deposition Electrogravimetry (estimation of copper and silver only)	L		- The state of the section of the se	= 2
	A Proposition of the Control of the	Unit & IV				- Total Constitution
18	3	Laws of colorimetry – instrumentation. Nessler's, photoelectric colorimetric method	L			
19	2	operation and applications.	L			
20	2	Basic principles of flame photometry – Atomic absorption – Spectrophotometry	L			
21	3	Estimation of Na, K and Ca. Estimation of Ni, Cu and Fe.	L			
22	3	Techniques in Kinetics Principles and techniques used to follow the kinetics of ordinary and elementary treatment of fast – photo chemical reactions.	L			
		Unit – V				
23	3	Elementary features of BASIC and C programming	T .	1		
			L			
24	3	Structure, data types, variable, constants, keywords, operators, expressions and library functions	L			
25	2	Conversion of celcius temperature to Kelvin temperature. Conversion of celcius to Fahrenheit and viceversa	L			,
26	2	Application of Beer Lambert law.	L		•	
		Molecular weights from atomic weight.		ä		
27	3	Average, RMS. And most probable velocities of gas molecules.	L			
		Rate constant for a first order reaction			S. C. C.	
		Bohr radius .				
1	· · ·	Seminar				
	e e	UNIT-I Storage and handling of corrosive, flammable, explosive, toxic, carcinogenic and poisonous themicals.			S	
	Control of the second s	JNIT-II Electrophoresis— Application			S	

3	1	UNIT-III Thermometric titration of HCI Vs NaOH		31 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	S	1 03
5		Class Test				
1	5	UNIT I- & UNIT V		СТ		
-		Final Evaluation (FE)	description (A) (MA) (MA) and also republished by			
I	3	Entire course				FE

Head of the Department

Signature of the Staff Member

Internal Quality Assurance Cell (IQAC)
Govt. College for Wemen (A)
Kumbakenam- 612 001

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

Teaching Plan

Name of the Staff: Mrs.U.Nithya

Programme:

II MSc., Chemistry

Academic Year:

2022-202.3

Semester:

III semester

Course Code: P18CHC310

Course Title: Organic Spectroscopy

Objectives:

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

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

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

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

	SL.NO	HOUR	R UNIT -CONTENT		TEAC		
				L	СТ	S	FE
		,	Unit-I UV AND IR SPECTROSCOPY				
	1	2	UV and visible spectroscopy, Types of electronic transitions	L	-		
	2	2	Chromophores and auxochromes, factors influencing position and intensity of absorption	L			
3	3	2		L			
4		2	Woodward-Fieser rules, IR vibrational frequencies and factors affecting them	L			3
5		3	Identification of functional groups,intra and inter molecular hydrogen bonding ,finger print region, ligand stretching vibrations	L			
			Unit-II Molecular and Raman Spectra				
6		2	Origin of molecular spectra,rotational spectra rigid and non rigid rotors	L			
7		2	Effect of isotopic substitutions, harmonic and non harmonic oscillators	L			
8	2)	Hot bands, vibrational – rotational spectra P,Q,R branches, electronic spectra of di atomic molecule	L			
9	2		Potential energy curves, Frank condon principle. Raman spectra Selection rules	L			
10	3		Rotational raman spectra and vibrational raman spectra, mutual exclusion principle	L			
			Unit – III NMR- Spectroscopy				
11	2		Nuclear spin, magnetic moment of a nucleus, nuclear energy levels in the presence of magnetic field	L			
12	2		Macroscopic magnetization, basic principles of NMR	L			
13	2		experiments CW and FT NMR H ¹ NMR .chemical shift and coupling constant	L		-	
14	1	I	H ¹ NMR spectra of simple molecules	L		_	
15	2		AX and AB Spin system	L	-		
16	2	S	Spin decoupling Nuclear overhauser effect,	L			
	- Va		Unit – IV 13 C NMR and 2D NMR Spectroscop	V			
17	2	13	C NMR proton decoupled and off resonance				
	=11 ⁴¹ - 7	S	pectra	L			
18 19	2	F	actors influencing ¹³ C NMR Chemical shift	L			
LJ	2	13	C NMR spectra of simple organic molecules,	100		W 1	

20	basic principles of 2- dimensional NMR spectroscopy	L			
21	2 HOMOCOSY, NOESY their applications	L			
	Unit - V Mass Spectroscopy				
22	2 Principle				
	EI,CI,FD,FAB,SIMS	L			
23	Presentation of spectral data, molecular ions, Isotopic ions, fragment ions	L			
24	2 Odd and area	L			
25	2 Mass spectra of hydrocarbons, alcohols, phenols				
26	3 Mass spectra of addatasets to the spectra o	L			
	Mass spectra of aldehydes, ketones, acids, amines and their derivatives	L			= =
					1
1	Seminar 1 UNIT-I			1 121	
2 2	Absorption spectra of dienes, polyenes			S	
2	1 UNIT-II		.5-		
	fundamental vibrations and overtones	A		S	
3	UNIT-III				
1 1	factors influencing chemical shift and vicinal proton UNIT – IV			S	
	HOMOCOSY, NOESY Spectra	и п		S	
1	UNIT-V Mclafferty rearrangement and Retro Diels Alder fragmentation		2 2	S	
	Class Test				
5	LINITELLIA				
	UNIT I-UNIT V		CT		T
	Final Evaluation (FE)				
5	Entire course				
F. 100		ATOM I			FE

Head of the Department

W. Signature of the Staff Member

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam-612861

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

Teaching Plan

Name of the Staff: Mrs.P.Vasanthi

Programme:

M.Sc Chemistry

Academic Year:

2022-2023

Semester:

III semester

Course Code:P21CHC309

Course Title: Inorganic chemistry

Objectives:

Teaching Metho	dology			Distribution of hours	s/Unit	Total Hour
Traditional Chal	k and Talk N	Method [L]		13 hrs per unit (for 5	units)	65
Evaluation –Clas	ss Tests (CT)			1 hrs (for 5 units)		05
Seminar/probler	m solving/c	lass work(S)		1 hour per unit(for 5	units)	05
Creating awar developments of current research	of Numerica		in	1 hour per unit(for 5	units)	05
Final Evaluation ((FE)		- 00	3 hrs (Rehearsal)	3	03
Hrs per week 6		Credit		5	Total	75
						1

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

SL.NO HOUR	UNIT -CONTENT		MOD		
	Unit I Elantuonia Coma	L	СТ	S	F
1 2 Ir	Unit-I Electronic Spectroscopy ntroduction about electronic	1.			
st ar fie	pectroscopy.Explanation about Microstates, terms and energy levels for d1-d10 ions in cubic and square elds.	L			
co	tensity of bands.Group theoretical approach to lection rules. Effect of distortion and apin -orbit upling on spectra.	L			
cor	aluation of 10Dq and beta for octahedral applexes of cobalt and nickel.	L			
bipy	olications to simple coordination compounds. rge transfer spectra.electronic spectra of [Ru (v)3]2+.	L		er .	
and	ical rotatory dispersion and circular dichroism magnetic circular dichroism-application to metal plexes.	L			
	Unit-II Infrared and Raman spectroscopy				
	tions in simple molecules (H2O,Co2) and their		T		
Syllili	ietric notation for molecular vibrations	L			
elucid	o vibrations and the limitations -combined uses and Raman spectroscopy in the structural ation of simple molecules like N2O, O3,ClO4.	L			
groups	of coordination on ligand vibrations.uses of vibrations in the structural elucidation on vibrations.	L			111
elucidat	groups vibrations in the structural ion of metal complexes of				
sulfoxide	ourea,cyanide,thiocyanate and dimethyl			5	
3 Effect of	isotropic substitution on the vibrational				
apectia 0	f molecules.vibrational spectra of metal with reference to the nature of bonding.	L			-

1	.0 3	Geometry and number of C-O streching vibrations.				
		Applications of Raman spectroscopy.resonance	L			
		Raman spectroscopy			15	
12		Unit – III NMR Spectroscopy				
	2 2	Examples for different spin systems. Chemical shifts and coupling constants involving different nuclei(1H,19F,31P,13C)	L			
13	3	Interpretation and applications to inorganic compounds.	L			
14	2	Effect of quarupolar nuclei (2H, 10B, 11B)on the 1HNMR spectra	L			
15	3	Systems with chemical exchange. Evaluation of thermodynamic parameters in simple systems.	L			
16	2	Study of fluxional behavior of molecules.	L			
17	2	NMR of paramagnetic molecules. Isotopic shifs contact and pseudo contact interactions. Lanthanide shift reagents.	L			
=		Unit – IV EPR Spectroscopy and Magnetic prope	rties			
18	3	Theory of EPR spectroscopy. Spin densities and McConnenell relationship.	L			
19	3	Factors affecting the magnitude of g and A tensors in metal species	L			
20	2	Zero field splitting and kramers degeneracy. Spectra of V(II),Mn, Fe,Co,Ni,Cu complexes .Applications of EPR to a few biological molecules Containing Cu(II)and Fe(III)ions.	L			
1	3	Magnetic properties. Types of magnetism -dia- ,para-,ferro-, and antiferromagnetism	L			
2	2	Magnetic properties of free ions, first order zeemsn effect, second order zeeman effect, states << KT- determination of magnetic and their applications to the elucidation of structures of inorganic composinds.	L			
				Anna and a second	-	- 200
		Unit – V Mossbauer spectroscopy				
	3	Unit – V Mossbauer spectroscopy	103			T

		Final Evaluation (FE)		СТ		
	5	Class Test UNIT I-UNIT V		The land	2 a	N* 2000
		NQR transitions.Applications of NQR spectroscopy.			S	
-	1	Magnetic properties of free ions, first order zeemsn effect, second order zeeman effect, states << KT-				
	1	UNIT - IV Magnetic properties of free in the size of			S	
3	1	UNIT-III NMR of paramagnetic molecules. Isotopic shifs contact and pseudo contact interactions. Lanthanide shift reagents.			S	
_	1	Unit -Iluses of groups vibrations in the structural elucidation of metal complexes of urea,thiourea,cyanide,thiocyanate and dimethyl sulfoxide			S	
2	1	UNIT-I magnetic circular dichroism-application to metal complexes.			S	
1	4	Seminar				
27	3	NQR transitions.Applications of NQR spectroscopy.	L			
26	2	NQR spectroscopy -characteristics of quadrupolar nucleus.effects of field gradient and magnetic Field upon quadrupolar energy levels.	L			
25	2	Magnetic interactions.applications to iron and tin compounds.	L			
-		Introduction about mossbauer spectroscopy .lsomer shifts.quadrupole splitting.	L			1

ロ・かつ Signature of the Staff Member

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Gevt. College for Women (A)

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

Teaching Plan

Name of the Staff: Dr.M.Kiruthiga

Programme: II B.Sc BOTANY

Academic Year:

2022-2023

Semester:

IV semester

Course Code:U214ACH3

Course Title: ALLIED CHEMISTRY

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

To understand about the synthetic polymers

To know the fundamentals of photochemistry and surface chemistry

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

	Hours per week	Total Hours of Instruction
	6	90
= v ,	5	75
	4	60
	2	_30

S	L.NO	HOUR	UNIT -CONTENT		MOD		
_				L	СТ	S	FE
			Unit-I				
1	2	2	Coordinationchemistry-Nomenclatureofmononuclearcomplexes-Werner, SidwickandPauling's theries.	L			
2	2		Chelation and its industrial importance to EDTA:	L			
3	1		Biological role of heamoglobin and cholorophyll	L			
4	2		Metallic Bond-Electrngas, Pauling and Band theories	L			
5	2		Semiconductors-intrinsic,n-type and p-type. Applications of Semiconductors.	L			
			. UNIT-II	1			
6	2	1	Aromatic compounds-structure, stability, resonance	Γ.			
		a r	and aromaticity of Benzene. Typical substitution eaction - Nitration	L			
7	1		Naphthalene synthesis, Properties and uses	L			
8	2	A	minoacids and proteins-Aminiacids-classification	L		+	_
2		ba	ased on structure and essential and non essential.				
9	2	A	minoacids-Preparation and properties -	L			+
		pe	eptides(elementary treatment)				
0	2	Pr	oteins-classification based on physical properties	L			_
		an	d biological functions.structure of proteins-primary	L	27		
		and	d secondary (Elementary treatment)	0			
	2		Unit – III	٠			
	2	Syl	nthetic polymers-Teflon,Alkyl and Epoxy	L			
		resi	ns,Poly esters-genernal treatment only.				
	2	Fur	an,Thiophene Preparation, properties	L			-
	2	Pyri	ole and Pyridine Preparation and properties	L		NI AL	
	1	Basi	c properties of pyridine	L			
	2	Basi	c properties of pyrrole				
			1 Formula of Pyttole	L			
			Unit - IV				

16		Surface chemistry -Emulsions		Commence Property		on every sing
75.00		preparation, Properties and Applications	1,			
17	2	Gels preparations, Properties and applications	L	and the state of t	-	
18	1	Electrophoresis	L	1000		
19	2	Chromatography-Column chromatography	L		all the way have a fact that the	
20	2	Photochemistry - Laws of photochemistry	L		-	
OTTOPIC COURSE A JOS		and applications. Unit - V				
21	2	Electrochemistry-specific and Equvalent				
		conductivities-their determination -effect of	L			
		dilution on conductivity.				
AND DESCRIPTION OF THE PARTY OF	**************************************	·				
22	2	An elementary idea about Ionic theory-Oswald's	L			
		dilution law.kohlrauschlaw,conductometric titrations				
23	2	PII and Buffers-Importance of	L			
		P ^H andBuffersinliving systems-				
		P ^H determination by colorimetric.				
24	1	Catalysis-Catalyst-Introduction, types and	L			
		applications.				
25	2	Mechanism of catalysisImportance of	L			
		Enzyme in Biological system				
		Seminar				1
1	1	UNIT-I			S	
		Application of complexes in qualitative and				
•		quantitative analysis				
2	1	UNIT-II			S	
		Typical substitution reaction -	-			
		Halogenation, Alkylation				
4	1	UNIT - IV			S	
		Paper and Thin layer chromatography				
	-	Class Test				
E 9.5 EFF	5	UNIT I-UNIT V		СТ		
	100			СТ		
		Final Evaluation (FE)	A C L			
	3	Entire course			T	FI
				and the second		i i

M. Di Ruthi J.D. Signature of the Staff Member

Internal Quality Assurance Cell (IQAC)
Govt. Cellege for Women (A)

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

Teaching Plan

Name of the Staff: Mrs.K.Indhira

Programme:

M.Sc., Chemistry

Academic Year:

2022-2023

Semester:

Il semester

Course Code: P22CH2ED

Course Title: EDC-Food and nutrition

Objectives:

This course aims in making the student to understand about carbohydrates and proteins

This course facilitates the students to inculcate many information about milk, fat, protein and analysing the food quality

Teaching Methodology			Distribution of hours/Unit		Total Hours of Instruction
Traditional Cha	alk and Talk M	lethod [L]	5hrs per unit (for 5 u	inits)	25
Evaluation –Class Tests (CT)			1 hour		01
Seminar/probl	em solving/cl	ass work(S)	1 hour		01
Creating awareness about the latest developments of chemicalmethods in current research sector (CA)					
Final Evaluation (FE)			3 hrs (Rehearsal)		03
Hrs per week	6	Credit	5	Total	30

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

SL.NO	NO HOUR UNIT -CONTENT			MOD TEAC		
			L	СТ	S	FE
	T-	Unit-I Carbohydrates				
1	1	Classification, available polysaccharides	L			
2	1	Unavailable carbohydrates disaccharides fats fibres in diets	L			
3	1	Digestion and absorption	L			
4	1	Regulation of blood glucose	L			
5	1	Insufficient adrenaline	L			
- Anna ann an Aireann Aireann ann an Aireann ann an Aireann ann ann ann ann ann ann ann ann ann		Unit-II Proteins				
6	1	Sources and chemical nature	L			
7,	1	Amino acids, nitrogen balance, factors affecting nitrogen balance	L			
8	1	Physiological needs, dietary sources	L			
9	1	Biological tests	L			
10	1	Requirements and protein deficiency	L			
		Unit -III Fats, electrolytes and minerals				
12	1	Visible fats, phosspholipids digestion and absorption, essential of fatty acids and minerals	L			
13	1	Dietary needs for fat salt, sodium and potassium salt water balance, sodium -importance and efficiency and potassium -importance and deficiency	L			
14	1	Minerals intake absorption and substances assisting absorption for recommended intake.	L			
15	1	Trace elements- iodine, physiology sources propylactic therapeutic uses.	L			
16	1	Fluorine-prevention of dental carriers fluorosis in man	L			Name :
		Fluoride and osteoporosis opposition to fluoridation of water Pb-Hg-hazards		94734 E		

SL.NO	HOUR	UNIT -CONTENT		MOD TEACI		
520	HOOK	ONTI -CONTENT	L	CT	S	FE
		Unit-I Carbohydrates				
1	1	Classification, available polysaccharides	L			
2	1	Unavailable carbohydrates disaccharides fats fibres in diets	L			
3	1	Digestion and absorption	L			
4	1	Regulation of blood glucose	L			
5	1	Insufficient adrenaline	L			
		Unit-II-Proteins				-
6	1	Sources and chemical nature	L			
7.	1	Amino acids, nitrogen balance, factors affecting nitrogen balance	L			
8	1	Physiological needs, dietary sources	L			
9	1	Biological tests	L			
10	1	Requirements and protein deficiency	L			
		Unit -III Fats, electrolytes and minerals				
12	1	Visible fats, phosspholipids digestion and absorption, essential of fatty acids and minerals	L			
13	1	Dietary needs for fat salt, sodium and potassium salt water balance, sodium -importance and efficiency and potassium -importance and deficiency	L			
14	1	Minerals intake absorption and substances assisting absorption for recommended intake.	L			
15	1	Trace elements- iodine, physiology sources propylactic therapeutic uses.	L			
16	1	Fluorine-prevention of dental carriers fluorosis in man	103			
		Fluoride and osteoporosis opposition to fluoridation of water Pb-Hg-hazards		91 - 12 - 31 - 1		

18	1	Composition of milk flavour and Aroma of milk				
19	1	Physical program	L			
20	1	Physical properties of milk	L			
	•	Effect of heat on milk -pasteurisation , homgenesation.	L			
21	1	Milk products- cream milk	L			
22	1	Ice cream ,milk powder	L			
		Unit – V Food and nutrients				
23	1	Classification of food- cereals, wheat				
24			L			
24	1	Distribution of nutrients in food -grains, flour, starches, invalid food	L			
25	1	Sugar syrups, nutritive value of vegetablesand fruits	L			
- 26	1	Nutrient properties of meat, fish oil of sea food, novel protein foods	L			
27	1	Food adulteration of various food using simple qualitative tests	L			
		Seminar				
28	1	Importance of trace elements -fluorine iodine			S	
		Class Test				
29	1	UNIT I-UNIT V		СТ		
		Final Evaluation (FE)				
20	12	T. C.			1	
30	3	Entire course				FE

14. Zuda Signature of the Staff Member

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. Cellege for Women (A)
Kumbakenam- 612 691

Government College for Women (Autonomous) PG & Research Department of Computer Science Academic Year 2022 - 2023 Odd Semester

	TEACHING PLAN				
Course Title	ourse Title DOCUMENT PREPARATION SYSTEM - LATEX				
Course Code	P21CS1SE1				
Course	Periods/week	Credits			
Structure	2	4			
Programme	II B.Sc (Computer Science)	Semester	IV		
Course Coordinator	S.Sheela, Assistant Professor of Con	nputer Science			
Course Objective	To inculcate professional training required to become a scl	holar in Computer Scie	ence.		

Teaching Methodology	Distribution of Hours/Unit	Total No. of Instruction
Traditional Chalk and Talk Method(L)	2 hrs per unit(for 5 units)	10
ICT Enabled Lectures (I)	1 hr per unit (for 3 units)	3
Practical Demonstration	1 hr per unit(for 5 units)	5
Quiz/ Group Discussion (Q/GD)	1 hr (for 5 units)	1
Evaluation - Class Tests(CT)	1 hr per unit(for 5 units)	5
Seminar/ Problem Solving/Class Work(S)	1 hrs per unit(for 5 units)	5
Final Evaluation (FE)	1 Hr (Rehearsal)	1
Total		30

Total Hours of Instruction
90
75
60
30

	No. of								
Lectures		Unit -Content		P	CT	S	I	FE	Q/GD
	Table on the	Unit - I				1 9		15 pro - 10 - 14 Van	
1	1	Installation of Latex in different operating systems	L	asi i	Í.			0.00	
2	1	Create & Title the Latex Document	L	3.1					
3	1	basic layout of Latex documents		P	Å.,			- 4-	
4	1	Document Structure:		14	97		I		
5	1	section, subsection and paragraph			- &-	S			
7	1	Class Test			CT				
1		Unit II					141		
1	2	Latex packages: Installing, including and purpose of packages.	L						
2	1	Latex Math and equations	10	P					
3	1	Inline math, equations, fractions					I	81	
4	1	matrices scaling of parenthesis, Brackets etc.				S			
9	1	Class test			CT	14.4			
		I CIA EXAMIN	ATIO	N		1,47.			
		UNIT - II	I	***					<u>Karananan</u>
1	2	Latex image: caption, position and multiple images	L						
2	1	Latex table of contents-List of figures		P					
3	2	Depth, Spacing etc.,	71838		r P	S			
4	1	Bibliography, Footnotes.					I		
8	1	Quiz							Q
9	1	Class Test			CT				
		Unit -IV							
1	2	Special Pages, Special documents	L	1					

2	1	Font Families, styles, and sizes, Colors: Font, text background and page background		P					
4	1	Special characters and symbols			G/T	S	-		
9	1	Class Test			CT				
		II CIA EXAMINA	ATIC	N					
		Unit - V			-			\top	-
1	2	Hyperlinks, Automatic plot Generation, Automatic table generation	L						
2	1	Drawing graphs, circuit diagrams, Advanced circuit diagrams		P					
3	# 1 ss	source code highlighting, Lists	e paid			S			
9	1	Class Test		ANL.	CT		market and I		0
10	1	Ouiz(for 5 units)	V		100				- 4
10	1500	MODEL EXAMIN	IATI	ON		F	7 10		
	5	Final Evaluation (for 5 units)				67.13	FI		07.2 Late

Text Book: 1. Learning Latex- David Francis Griffiths & Desmond Higham. SIAM publisher, 1997 2.Latex Beginners Guide- Stefan Kottwitz, Packt publishing Ltd.

Head of the Department

Signature of the Staff Incharge

IQAC Coordinator

Co-ordinator

Internal Quality Assurance Cell (IQAC)

Govt. College for Women (A)

Kumbakonam- 612 001

Government College for Women (A), Kumbakonam PG & Research Department of Computer Science Academic Year 2022 - 2023 **Odd Semester**

Teaching Plan

Name(s) of the Staff: P. JAYALAKSHMI

I M.Sc Computer Science Programme:

Academic Year: 2022-2023

Semester:

I Semester

Course Code: P17CSC101

Course Title: Mathematical Foundations

Objectives:

> To know the applications of graph theory, computer representations of graph, fundamental ideas of mathematical logic, concepts of set theory and Boolean algebra.

Teaching Meth	odology		Distribution of hours/Unit	Total Hours of Instruction
Traditional Chal	k and Talk	Method [L]	12 hrs per unit (for 5 units)	60
ICT Enabled Le	1,377	And April Section	1 hour per unit (for 5 units)	05
Practical Demor			1 hour per unit(for 5 units)	05
			1 hour per unit(for 2 units)	02
Field visit (FV)				<u> </u>
Group discussion	n			
Evaluation –Cla	ss Tests (C	T)	5 test per unit	05
		the second secon	1 hour per unit(for 5 units)	05
Seminar/problem solving/class work(S) 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

Total Hours of Instruction
90
75
60
30

CI NO		JR UNIT -CONTENT		MODE OF TEACHING						
SL.NO	HOUR			I	CT	S	FE			
- M		Unit-I								
1	2	Mathematical Logic, Introduction, Statements and Notations, Connectives, Negation, Conjunction, Disjunction, Statement Formulas and Truth Tables, Logical Capabilities of Programming Languages	L							
2	3	Conditional and Biconditional, Well-Formed Formulas Tautologies, Equivalence of Formulas, Duality Law	L							
3	3	Tautological Implications, Formulas With Distinct Truth Table, Functionality Complete Sets of Connectives, Two- State Devices and Statement Logic		I						
4	3	Normal Forms, Disjunctive Normal Forms, Conjunctive Normal Forms, Principle Disjunctive Normal Form, Principle Conjunctive Normal Forms, Ordering and Uniqueness of Normal Forms, Completely Parenthesized Infix Notation and Polish Notation.	L							
5	2	The theory of inference for the statement calculus, validity using truth tables, rules of inference, consistency of premises and indirect method of proof, automatic theorem proving.	L							
		Unit-II	1		Truly .	161				
6	2	Set Theory, Introduction, Basic Concepts of Set Theory	L							
7	3	Notation, Inclusion and Equality of Sets, The Power Set and Some Operations on Sets	L							
8	3	Venn Diagrams, Some Basic Set Identities, The Principle of Specification		I	l à					
9	3	Ordered Pairs, and n-tuples, Cartesian Products, Representation of Discrete Structures, Data Structures	L							
10	2	Storage Structures, Sequential Allocation, Pointers and Linked Allocation	L							
11	2	An Application of Bit Represented Sets.								
		Unit – III								
12	2	Relations and ordering, Relations, Properties of Binary Relations In a Set	L							
13	2	Relation Matrix and The Graph of a Relation, Partition and Covering of a Set		I						
14	2	Equivalence Relations, Compatibility Relations, Composition of Binary Relations Partial Ordering	L			- 03 - 1 -10-1				
15	3	Partially Ordered Set: Representation and Associated Terminology	L		9					
16	2	Functions, Definition and Introduction, Composition of Functions, Inverse functions	L							

17	2	Binary and n-ary Operation, Characteristics Function of a Set Hashing Functions	L				
		Unit – IV	,				
18	3	Introduction: What is Graph, Application of Graph	13	I		1	
19	3	Finite and Infinite Graph, Incidence and Degree, Isolated Vertex, Pendant Vertex	L				
20	2	Null Graph, Isomorphism, Subgraphs, Walks, Paths and Circuit	L				
21	2	Operation of Graphs, Trees	L				
22	3	Some Properties Of Trees and Pendant Vertices in a Tree.	L				
		Unit – V					
23	3	Cut Sets-Fundamental Circuits and Cut Sets	L				_
24	3	Incidence Matrix	L				
25	2	Circuit Matrix		I			
26	2	Cut-Set Matrix	L				-
27	3	Path Matrix-Adjacency Matrix	L		1		
-	1.	Seminar	10				-
1	* 1	UNIT-I Normal Forms			140	S	
2	1	UNIT-II Storage Structures - Sequential Allocation - Pointers and Linked Allocation				S	
3	1	UNIT-III Relations and ordering-Relations-Properties of Binary Relations In a Set	E de			S	
4	1	UNIT – IV Operation of Graphs			1	S	
5	1	UNIT-V Adjacency Matrix and Incidence Matrix				S	
1. 1	1	Class Test	1.		1	1	1
1	5	UNIT III- &UNIT V			CT		1
Ī		Final Evaluation (FE)					T T
1	3	Entire course					FI

Signature of the Staff Incharge

IQAC Coordinator

Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakenam- 612 061

Government College for Women (A), Kumbakonam PG & Research Department of Computer Science Academic Year 2022 - 2023 Even Semester

Even Semester Teaching Plan

Name of the Staff: Mrs. E. Suganthi

Programme: III B.Sc., Computer Science

Academic Year:

2022-2023

Semester:

VI Semester

Course Code:

Course Title: XIV - PHP Scripting Languages

Objectives:

> To understand server side scripting

Feaching Metho	dology		Distribution of	of hours/Unit	Total Hours of Instruction
Fraditional Chall	and Talk	Method [L]	12 hrs per unit	60	
ICT Enabled Lec	201		1 hrs per unit	(for 5 units)	05
Practical Demon			1 hour per uni	t(for 5 units)	05
Tutorial (T)		The state of the s	1 hour per uni	t(for 2 units)	02
Field visit (FV)					
Group discussion	n				
Evaluation –Cla		T)	5 test per unit	05	
Seminar/probler		Charles the Charles Are system and the	1 hour per uni	it(for 5 units)	05
	ness about	the latest developments current research sector	1 hour per un	it(for 5 units)	05
Final Evaluation (FE)			3 hrs (Rehear	rsal)	03
Hrs per week	6	Credit	5	Total	90

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

		TANK COLUMN	MODE OF TEACHING							
SL.NO	HOUR	UNIT -CONTENT	L	I	CT	S	FE			
		Unit-I								
1	2	Introduction to XHTML	L							
2	3 Introduction – Editing XHTML – First XHTML example- W3C XHTML validation service			Ι						
3	3	Headings – Linking c- Images – Special characters and horizontal rules	L							
4	3	Lists, Tables and Forms	L							
5	2	Internal linking – Meta elements – Web resources	L							
1 7		Unit-II	101 100 110 110							
6	2	JavaScript : Introduction to Scripting	L							
7	3	JavaScript Control statements – Control structures – if selection statement – if- else selection statement – while repetition statement –	L							
8	3	Assignment operators – Increment and Decrement operators – for repetition statement – Examples using for statement –		Ι						
9	3	Switch multiple - selection statement – do – while repetition statement –	L							
10	2	break and continue statements – labeled break and continue statements – Logical operators –	L							
11	2	Functions – Arrays.								
		Unit – III					E. Carlotte			
12	2	Essentials of PHP and	L	AV 1						
13	2	PHP Operators		I			ANA			
14	2	PHP Flow Control	L							
15	3	Strings in PHP	L							
16	2	PHP Arrays	L							
17	2		L		100					
		Unit – IV								
18	2	Creating Functions	L							
19	3	Reading Data in Web Pages	L							
20	2	PHP Browser		I						
21	3	Handling Power	L							
22	3	Validation functions	L	The state of						
		Unit – V	The state of				The second			
23	3	File Handling —, and	L							

			THE RESIDENCE OF THE PARTY OF T			
24	3	Working with Databases	L			1
25	2	Queries in PHP	1	I		
26	2	Sessions, Cookies	L			
27	3	FTP Functions	L	100 000		
		Seminar				100
1	1	UNIT-I Lists, Tables and Forms			S	
2	1	UNIT-II JavaScript Control statements	8.1	10	S	
3	1	UNIT-III Strings in PHP			S	
4	1	UNIT – IV Handling Power			S	
5	1	UNIT-V Sessions, Cookies			S	
		Class Test	100			
1	5	UNIT I- & UNIT V		(CT	
	The state of	Final Evaluation (FE)		Walter !		
1	3	Entire course			1	FE

E.SID

Signature of the Staff Incharge

IQAC Coordinator

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

Government College for Women (A), Kumbakonam PG & Research Department of Computer Science

Academic Year 2022 - 2023 Even Semester Teaching Plan

Name of the Staff: G. SOBIYA

Programme:

III B.Sc., Computer Science

Academic Year: 2022-2023

Semester:

VI

Course Code: U20CSC613

Course Title: XIV - Database Systems

Objectives:

> To understand server side scripting

Teaching Met	hodology	to the second of	Distribution of	f hours/Unit	Total Hours of Instruction
Traditional Cha	alk and Tal	k Method [L]	12 hrs per unit (60	
ICT Enabled L	Cally		1 hrs per unit (f	for 5 units)	05
Practical Demo	First Control	ון	1 hour per unit((for 5 units)	05
Tutorial (T)	nistration _{[1}	The state of the s	1 hour per unit((for 2 units)	02
Field visit (FV)					
Group discussi			Company of the second	***	
Evaluation –Cl	The state of the s	CT)	5 test per unit	05	
Seminar/proble			1 hour per unit((for 5 units)	05
Creating aware	ness about	the latest developments current research sector	1 hour per unit((for 5 units)	05
Final Evaluation (FE)			3 hrs (Rehearsa	ıl)	03
Hrs per week	6	Credit	5	Total	90

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

			MC	DE C)F TE	ACH	ING
SL.NO	HOUR	UNIT -CONTENT	L	I	CT	S	FE
		Unit-I	V.				
1	2	Introduction: Database	L	The second			
2	3	Database Design: Overview of the design Process	L				
3	3	ER Model, Constraints,		I		30	
4	3	Removing Redundant Attributes in Entity sets	L	46			
5	2	ER Diagram - Reduction to Relational Schema.	L				
4		Unit-II		li .	1		
6	2	Relational Database – Introduction to Relational Model – Introduction to SQL	L				
7	3	Intermediate SQL – Formal Relational Query Language : Relational Algebra.		I			
8	3	Database Design: Features of good relational design – Atomic domains & First Normal Forms	L				
9	3	Decomposition using functional dependencies	L	1 199			
10	2	Algorithms for decomposition	L				
11	2	Decomposition using multi value dependency.	1		100		
		Unit – III					
12	2	Storage and File Structure: Overview of Physical Storage Media – File Organization	L				
13	2	Organization of Records in Files	L				
14	2	Data Dictionary Storage – Indexing and Hashing : Basic Concepts		I			
15	3	Ordered Indices – B+ Tree Index Files	L				100
16	2	B- Tree Index Files - Static Hashing – Dynamic Hashing.	L				
	1	Unit – IV					
18	2	Transaction: Transaction Concept - Simple Transaction model	L				
19	3	Storage structure – Transaction Atomicity & durability. Transaction isolation.		I			
20	2	Serializability - Concurrency Control: Lock Based Protocols	L	1	Hos.		
21	3	Timestamp Based Protocols – Validation Based Protocols.	L				
22	3	Recovery System: Failure Classification	L		_		
23	3	Recovery and Atomicity – Recovery Algorithms.	+-				XF
		Unit – V	1	-	1		
23	3	PL/SQL : PL/ SQL Blocks		I			
24	3	How PL/SQL Works – Integrating SQL in a PL/SQL Program	L				

25	2	Triggers – Stored Procedures and Functions	L			
26	2	Packages – Cursors	L			
27	3	Transactions.	L			
		Seminar				
1	1	UNIT-I			S	
1		Database Design				
2		UNIT-II			S	
2	4	Formal Relational Query Language: Relational Algebra.			gwest Lieb.	
3		UNIT-III			S	
3		Organization of Records in Files				
1	1	UNIT-IV			S	
4	1	Timestamp Based Protocols				
5	1	UNIT-V			S	
3	1	Stored Procedures and Functions				
		Class Test				
1	5	UNIT I - UNIT V		C	T	11/24
		Final Evaluation (FE)			16 G 34	Pity 1
ì	3	Entire course				FE

G Shyp: Signature of the Staff Incharge

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

Academic Year: 2022-2023 NOVEMBER Programme: B.Sc. GEOGRAPHY

Course Code: U213AG4 III SEMESTER Semester:

Course Title: STATISTICS I

Objectives:

To learn abount basic concepts of statistics

> To learn about the quantitative skills of ststistics

Teaching Methodology	Distribution of hou	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)			
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 Tourism Development in current research	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
Hours per ween	90
5	75
5	60
4	30
2	

Unit wise Teaching and Evaluation Plan

Unit Wise Topics	L	I	P	T	FV	C	S	C A	FE
Unit-I Nature and scope of statistics	3								
Limitations of statistics	3								
Uses of statistics in geography	2			1					
Collection of data	2						1		
Class Test						1		1	
Unit- II classification of data, tabulation of data	of 3								
Frequency distributions	3		1	1			1		
Diagrammatic and graphical representation of	of 2						•		
data Data usages Class test	2					1		1	1
Unit - III measures of central tendency	3								
Arithmetic and geometric mean	3								
Harmonic mean ,median,mode	2						1		
Properties and limitations	2		1	1					
									1
Class test						1		1	1
Unit-IV measures of dispersion	3								
Range,quartile deviation	3			1					
Mean deviation, standard deviation	2								
Coefficient of variation	2						1		

1 1

Unit - V skewness and kurtosis	4				
Coefficient of skewness	3	1			
Bowleys method, karl pearson method	3				
Class Tost			1	1 1	

Class Test Rehearsal Examination Total Hours

3

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
Ш	20X1 = 20 Marks	5X5=25 Marks	3X10=30 Marks	75

Assignment Topic I: for 10 marks: uses of statistics in geography

Assignment Topic II for 10 marks:collection of data

Assignment Topic III for 10 mark: measures of central tendency

Head of the Department

S. Gootho Signature of the Staff Member(s)

Coordinator

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

DEPARTMENT OF GEOGRAPHY

Teaching Plan

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

Programme: M.Sc., APPLIED GEOGRAPHY

Academic Year: 2022-2023 NOVEMBER

Semester:

III SEMESTER

Course Code:P21GC310

Course Title: Research Methodology in

Geography

Objectives:

> To understand the significances, types and methods of Geographical Research.

> To learn about Research Planning, Design, data processing and report writing.

Teaching Methodology			Distribution of hou	Total Hours of Instruction	
Traditional Cha	alk and Talk	Method [L]	13 hrs per unit (for	5 units)	65
ICT Enabled Le	ctures [I]				
Practical Demo	onstration[P]			4 1 1 1 1 1	
Tutorial (T)			1 hour per unit(for	5 units)	05
Field visit (FV)			2 hours	02	
Group discussi	on				
Evaluation -Cla	ass Tests (CT)	5 test per unit		05
Seminar/prob	lem solving/	class work(S)	1 hour per unit(for	05	
Creating awareness about the importance Tourism Development in current research sector (CA)				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

Unit wise Teaching and Evaluation Plan

Unit Wise Topics	L I	P	T	FV	C T	S	C A	FE
Unit-I Research: Meaning, Objectives	4							
Significance of Research	3							
Research and Scientific Methods	3		1					
Types and Methods of Research	3					1		
Class Test					1		1	
Unit- II Logic in Research, Hypothesis	4							
Concepts and Facts Principles of Geographical Research Class test	3 3 3	1	1		1	1	1	1
Unit - III Data Acquisition, Analysis	4							
Collection of Data, Sources of Data	3							
Sampling Methods	3					1		
Structure of Data data base, Data Transformation	3	1	1					
Class test					1		1	1
Unit-IV Research Design-Literature Survey	4							
Selection of the Topic	3		1					
Statement of the Problem, Formulation of Hypothesis	3							
Testing of Hypothesis	3					1		

90

Unit - V	Organization	of	Thesis:	Reference	5
Materials,	Drafting of Th	esis	, Plagiai	rism	

Abstract and Synopsis, Bibliography, Research 4 1
Papers and Journal Publications

Project proposal writing

Class Test
Rehearsal Examination
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 Research

Assignment Topic II for 10 marks: Collection of Data

Assignment Topic III for 10 mark: Research Design, Testing of Hypothesis

Head of the Department

Signature of the Staff Member(s)

IRAC Coordinator

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

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

DEPARTMENT OF GEOGRAPHY

Teaching Plan

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

Programme:

M.Sc GEOGRAPHY

Academic Year:

2022-2023

Semester:

IV semester

Course Code:

Course Title:

ENVIRONMENTAL GEOGRAPHY-P21G1MBE1:1

Objectives:

- To understand the components of ecosystem and explore man and environment relationship.
- To learn about natural and man induced disruptions in the ecosystem
- * To explore climate change and its implications on ecosystems

Teaching Metho	dology		Distribution of hours	s/Unit	Total Hours of Instruction
Traditional Cha	lk and Talk M	lethod [L]	134hrs per unit (for	5 units)	70
ICT Enabled Led	ctures [I]				
Practical Demor	nstration[P]		1 hour per unit(for 5	units)	
Tutorial (T)			1 hour per unit(for 2	2 units)	02
Field visit (FV)					
Group discussion	on				
Evaluation -Cla	ss Tests (CT)		5 test per unit		05
Seminar/proble	m solving/cla	ass work(S)	1 hour per unit(for 5	5 units)	05
		out the latest nysics in current	1 hour per unit(for	5 units)	05
Final Evaluation	n (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	F	C	S	C	FE
Unit-IEnvironment – Elements and Types	3				V	T		A	
Man and environment relationships	3								
Determinism – Possibilism	3			1					
Changing nature of concept lithosphere	3						1		
Hydrosphere, biosphere,mult disciplinary approach	ti 2								
Class Test						1		1	
Unit- II Concept of Ecosystem – Forms and functions of Ecosystem	3								
Classification of Ecosystem forest Ecosystem, grassland Ecosystem Classification of Ecosystem: marine and	3						1		
mountain ecosystem									
Biomass – food web – food pyramid	2								
Nutrient cycle, biodiversity and its types	3								
Class test						1		1	1
Unit – III Natural disruptions of the ecosystem – Natural hazards – landslide,	2								
Natural disruptions of the ecosystem – , earthquake, volcano, floods and droughts	2								
Pollution	2						1		
Ozone Depletion	3								
Human interference on ecosystem – Population growth and its impact	3								
Man's modifications of the biosphere, agriculture, Green Revolution	2								
Class test					1		1		1
Unit - IV Environmental planning and a management	3								

Objectives and strategies Environmental 3 1 planning			
Natural resource management and 2 conservation (land, water and forest)			
Sustainable development concept - need, 3 problems and strategies		1	
EIA principles and procedures 3			
Class test	1		1
Unit – V Climate change - causes and 3 consequences			
Stockholm conference, Earth summits 3 and Round tables and Kyoto Protocol			
World climate data monitoring 2 programme			
Environment related policies and 3 programme in India		1	
Environment Governance 2			
Class Test Rehearsal Examination Total Hours	1	1	1 1 3

Components of Students' Evaluation for Continuous Internal Assessment:

Test 1: for 40 marks: Section A [10 X 1 = 10 marks]; Section B [2 X 5 = 10 marks]; Section C [2X10 = 200 marks]

Test 2: for 40 marks: Section A [10 X 1 = 10 marks]; Section B [2 X 5 = 10 marks]; Section C [2X10 = 200 marks]

Test 3: for 40 marks: Section A [10 X 1 = 10 marks]; Section B [2 X 5 = 10 marks]; Section C [2X10 = 200 marks]

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

Assignment Topic I for 10 marks: Multi disciplinary approach in ENVIRONMENTAL GEOGRAPH

Assignment Topic II for 10 marks: Causes and consequenses of Ozone Depletion

Assignment Topic III for 10 marks: Environment policies and programme in India Rehearsal Examination: 75 marks as per end semester question paper pattern.

Head of the Department

Signature of the Staff Member(s)

IQAC Coordinator.

Internal Quality Assurance Cell (IQAC)

Govt. College for Women (A)

Kumbakenam- \$12 995

GOVERNMENT COLLEGE FOR WOMEN (A) KUMBAKONAM

DEPARTMENT OF GEOGRAPHY

Teaching Plan

Name(s) of the Staff: S. MAHESWARI, Lecturer in Geography

Programme: M.Sc. APPLIED GEOGRAPHY

Academic Year: 2022-2023

Semester:

IV semester

Course Code: P21G4MBE4:2

Course Title: MBEC-IV-GEOGRAPHY OF ECONOMIC ACTIVITIES

Objectives:

> To make understand varying sets of conditions associated with location, production, distribution, consumption, exchange of resources and spatial organization of economic activities across the world.

activiti	es across the v	voria.			Total Hours
Teaching Meth	nodology		Distribution of hours	s/Unit	
					of Instruction
Traditional Ch	alk and Talk M	1ethod [L]	12 hours per unit (fo	or 5 units)	60
ICT Enabled Le	ectures [I]				
Practical Demo	onstration[P]				
Tutorial (T)			1 hour per unit(for 3	3 units)	03
Field visit (FV)					
Group discussi	on (GD)		1 hour per unit (for	5 units)	05
Class Quiz Offe	red (CQ)		1 hour per unit (for	5 units)	05
Evaluation -Cla	ass Tests (CT)		1 test per unit (for 5	units)	05
Seminar/probl	em solving/cl	ass work(S)	1 hour per unit (for	5 units)	05
Creating awa	areness abo	out the latest	1 hour per unit (for	5 units)	05
developments	of practical mo	odels (CA)			
Final Evaluation	n (FE)		2 hrs (Rehearsal)		02
Hrs per week	6	Credit	4	Total	90

Hours per week	Total Hours of Instruction
6	90
5	75
4	60
3	54
2	30

Unit Wise Topics	L	I	T	FV	GD	CQ	СТ	S	CA	F
UN	IT-I									1
Introduction and factors affecting spatial organization of economic activities	2								1	
Types of economic activities, primary activities in world	3							1		
Secondary activities in world	3		1							
Tertiary and quaternary activities in world	4									
Class Final Evaluation					1	1	1			
	IT-II									
Natural resources: Introduction and its types	3									
Distribution of renewable and non-renewable resources in World and its associated problems	5							1		
Resource management World energy crises in developed countries	4								1	
Class Final Evaluation					1	1	1			
UNI	T-III									
ndustries: Classification, bases and characteristics in World	2									
Factors of industrial localization	2									
Concepts and Theories : Weber, Hoover Models	3		1							
Models and Theories: August Lonch, Pres and Smith	3							1		
Norld Industrial Region	2								1	
Class Final Evaluation					1	1	1			
UNI'	-									
Models of transportation and transport cost	2					4		1		
Accessibility and connectivity measures and ndices, Comparative cost advantages	3								1	
Models: Spatial flow gravity and allocation	3									
oncept and ideas: Edward Ullman and Hurst	4									
lass Final Evaluation					1	1	1			
UNI Distribution and Growth of Information and	-									
ommunication technology in World	3		1							
Vorld Trade Organization	2								1	
lobalization and Liberalization	4									
Vorld Trade pattern and Its problems and prospects	3							1		
lass Final Evaluation					1	1	1			
ehearsal Examination				1 - 0 -	- 10 10		The last			2

Components of Students' Evaluation for Continuous Internal Assessment:

TEST	SECTION A	SECTION B	SECTION C	TOTAL
I	10 X 1 = 10 marks	2 X 5 = 10 marks	2 X 10 =20 marks	40
II	10 X 1 = 10 marks	2 X 5 = 10 marks	2 X 10 =20 marks	40
III	10 X 1 = 10 marks	2 X 5 = 10 marks	2 X 10 =20 marks	40

Assignment Topic I for 10 marks: Types of Economic Activities in World

Assignment Topic II for 10 marks: Various Theories of Industrial Model

Assignment Topic III for 10 marks: World Trade Organization and World Trade Patterns

Head of the Department

Signature of the Staff Member(s)

I QAC COORdinator.

Internal Quality Assurance Cell (IQAC)

Govt. College for Women (A)

Kumbakonam-612 004

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

DEPARTMENT OF BOTANY

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

Programme: B.Sc Botany

Academic Year:

Semester: V semester Course Code: U21BOC509

Course Title: Cell and Molecular Biology

Objectives:

Teaching Meth	odology		Distribution	of hours/Unit	of Instruction
Traditional Ch	alk and Ta	alk Method [L]	12 hrs per u	unit (for 5 units)	60
Evaluation -Cl	aluation -Class Tests (CT)		5 test per ur	05	
Seminar/problem solving/class work(S)		5 test per ur	05		
Final Evaluation	n (FE)		5 hrs (Rehe	arsal)	05
Hrs per week	5	Credit	5	Total	75

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

C1 N			MODE OF TEACHING					
SL.N HOUR		UNIT -CONTENT	L	CT	S	FE		
		Unit-I				700		
1	2	Basic principles of microscopy	L					
•			L	100				
2	3	Differentiating features of Prokaryotic and Eukaryotic cells –						
				1000	7.0	-		
3	3	Ultra structure and functions of plasma membrane	1	17.7				
	-	Ultra structure of cell organelles - Plastids,	L					
4	2	Mitochondria, Golgi bodies, Endoplasmic Reticulum,		1999				
		Lysosomes	333		-	-		
5	3	Cell Inclusions.	L					
				100				
		and the state of t						
	10000	Unit-II		4.4				
	,	Nucleolus - Structure of euchromatin and	L			T		
6	2	Nucleolus - Structure of euchromatin and heterochromatin	-					
7	3	Special types of chromosomes	L	100		Т		
'	3		100	100		+		
8	2	Lamp brush chromosomes and polytene	L					
		chromosomes						
0	2	Cell cycle, Cell Division:	L	-				
9	3	Cell cycle, Cell Division.						
10	3	Mitosis and meiosis.	L		1			
			1	1		19		
			100		188			
			133					
		Unit – III		-				
12	2	Nucleic acids – DNA and RNA	L					
12	2	Factures Criffith Euneriment	L					
13	3	Features – Griffith Experiment	-	1 13				
14	2	Structure, properties (C-Value Paradox) & replication	L					
	1 3 3 3	of DNA	All Co	23				
	1882		1		1 3			
15	3	Hershey and Chase experiment	L		1	196		
16	2	RNA – Structure	L					
	-	MVA - Structure	-		13/14			

7	2	Functions of rRNA, mRNA and tRNA.				+
		Unit – IV				
		Una coords	L			
18	3	Gene regulation in Prokaryotes (Lac operon			90	
10		concept) and Eukaryotes			100	
			L	3597 19		
19	3	Initiation, Elongation and termination				
		Transcription and Translation.	L			
20	2	Transcription and Transaction				
-	3	Gene regulation in prokaryotes	L		77.12	33
21			L			
22	2	prokaryotes and eukaryotes - Differences.	1			
		Unit – V				
23	3	Chloroplast and mitochondrial genome organization	L			
23			L			
24	3	Microbial genetics – PCR		17 19		
100	1	Basic mechanism of signal transduction	L	100		
25	2		1000	7 7 7		
26	2	principles of cell communication	L		1	
20			L			
27	3	Programmed Cell Death (PCD)	-		23	
Harin.		Seminar				1336
		UNIT-I		170	S	
1	1	Differentiating features of Prokaryotic and		100		
	60	Eukaryotic cells –			1	
		Eukai yotic cens			-	-
2	1	UNIT-II	13/19/1	1	S	
-	1000	Cell cycle, Cell Division:			100	10
	3 3 4		-	-	S	+
3	1	UNIT-III	0.0		3	
	4 4 4 6	Structure, properties (C-Value Paradox) & replicati	on	1		
	100	of DNA		1	10 13	
		UNIT – IV	100		S	1
4	1		111111	5465	23 790	3
-		Gene regulation in prokaryotes			S	
5	1	UNIT-V	100	384	100	134 5
		Microbial genetics – PCR Class Test				THE.

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

By say washing Head of the Department

Signature of the Staff Member(s)

IQAC- co-ordinator

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

DEPARTMENT OF BOTANY

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

Programme:

B.Sc Botany

Academic Year:

2022-2023

Semester:

IV semester

Course Code: U21BOC614

Course Title: Plant Ecology and Conservation.

Teaching Methodology			Distribution of	hours/Unit	of Instruction
Traditional Cha	lk and Ta	alk Method [L]	15 hrs per uni	t (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 (Rehears	sal)	05
Hrs per week	-	Credit	5	Total	90

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

L.N	HOUR	UNIT -CONTENT		MOD		
0	HOOK			СТ	S	FE
1000	1	Unit-I				
	2	General Ecology	L		17.84	Park.
	3	Approaches to the study of Ecology, Autecology Synecology	L			
3	3	Plant environment	L	1000		
1	2	Plant environment – climatic, edaphic and Biotic factor,	L			
5	3	Grazing and browsing, by humans -deforestation, Agriculture), Allelopathy	L			
6	2	Fcosystem	L			
6	2	Ecosystem Components abiotic-biotic-autotrophic	L			
7	3	producers				
8 2		Heterotroophic consumers, biomass-ecological pyramids, Productivity	L			
9	3	Primary, secondary & gross; food chain	L		1	
10	3	Food web & energy flow - pond ecosystem	L			
		Unit – III		1		
12 2		Vegetation – Units of vegetation – formation, association, consociation,	L			
7 3 66		Development of vegetation	L			1
13	3		100			-
13	2	Migration – colonization, ecesis	L			
		Migration – colonization, ecesis Methods of study of vegetation (Quadrat & transect				

17	2	Ecological classification of Plants; Morphological and anatomical features of plants and their correlation to the habitat. Floristic	L			
		Studies Unit – IV Plant Protection and Disease managen	nent			
		Unit - IV Flant Floresta				
				1	7700	
18	3	Pollution and its control: Air pollution, Radiation pollution,				
19	3	Noise pollution, Thermal pollution	L			
20	2	Soil pollution: Industrial, agrochemicals	L			
21	3	Water pollution	L			
22	2	Industrial effluents. Marine pollution.	L	100		
		Unit - V Methods of Plant Protection	1			
23	3	Phytogeography-Approaches to Phytogeography - Climate of India & its climatic zones, Botanical regions (provinces) of India	L			
24	3	Climate of India & its climatic zones, Botanical regions (provinces) of India	L			
25	2	Vegetational types of Tamil Nadu: Evergreen, deciduous, scrub & Mangrove, Continuous and discontinuous distribution.	L			
26	2	Endemism. In situ and ex situ conservation.	L			
27	3	Application of remote sensing in conservation.	L			
		Seminar				
1	1	UNIT-I General Ecology			S	
2	1	UNIT-II Primary, secondary & gross; food chain			S	
3	1	UNIT-III Development of vegetation			S	

				S	
4	1	UNIT – IV Pollution and its control: Air pollution, Radiation pollution,			
			100	5	1
5	1	UNIT-V Endemism. In situ and ex situ conservation			
-		Class Test			
			CT	120	
1	5	UNIT I			
		Final Evaluation (FE)			
				1	FE
1	3	Entire course			
-			200000000000000000000000000000000000000		

Basas Mirhman

Head of the Department

Bakha Husthan

Signature of the Staff Member(s)

I QAE Co-ordinator

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

DEPARTMENT OF DEPARTMENT OF BOTANY

Teaching Plan

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

Programme:

UG-BOTANY

Academic Year:

2022-2023

Semester:

V semester

Course Code:SBBH

Course Title: Bio resources and human welfare Objectives:

 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	Total Hours of Instruction		
Traditional Ch	alk and Ta	lk Method [L]	13 hrs per ui	nit (for 5 units)	65	
Evaluation -Cl	ass Tests (CT)	1 hrs (for 5 ur	1 hrs (for 5 units)		
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)				nit(for 5 units)	05	
Final Evaluation	on (FE)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 hrs (Rehea	rsal)	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	HOUR UNIT - CONTENT		TEACHI			
SL.NO HOOK				СТ	S	FE	
		Unit-I -Useful products from microorganism	s				
1	2	Single cell proteins from fungi (yeast)	4				
2	3	Alage (Spirulina)	L	278			
3	3	Antioxidants from Dunaliellasalina	L				
4	2	Vitamins, Enzymes	L	198			
5	3	Antibioics and Alcohol	L	1999			
		Unit-II- Useful products form Gymnosperms	8		23		
6	2	Useful products form Gynosperms)	L	17 8			
7	3	Wood (Pine)	L	139			
8	2	Drugs (Turpentine)	L	124	10.1	100	
9	3	Drugs (Taxol)	L	-		100	
10	3	Drugs (Ephedrine)	L		250		
		Unit - III - Study of plants for the source					
2	2	Application of the following products, beverage (coffee)	L	1			
3	3	narcotics (poppy)	L				
4	2	fiber (Cotton)	L	100			
5	3	oil-seeds (sesame),	L	1	1		
6	2	latex (rubber)	L	100	53		
7	2	Economic importance	L	160			
		Unit - IV Importance and application areas	3				
8	3	Biomass production - food	L	-	1	I	
9 :	3	Bio-fertilizers	L			-	
0 :	2	Environmental Biotechnology	L	130		0	

21	3	Waste treatment – solid (compost)	L			
22	2	sewage treatment (domestic sewage).				
		Unit - V - Traditional and economically impor	rtan	t		
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	110		
	17274 . 779	Seminar	100		100	200
1	1	UNIT-I Vitamins			5	13
2	1	UNIT-II Useful products form Gynosperms)	241		S	
3	1	UNIT-III Plants for the source and application of the following products	100	-	S	
	1	UNIT - IV Bio-fertilizers use		11.0	S	
	1	UNIT-V Traditional and economically important plant species of India.	100		S	
		Class Test	100	_		
	5	LINUT LUNETY				
	100	UNIT I-UNIT V	1 4	CT		
		Final Evaluation (FE)				
	2					
	3	Entire course				

Basas misfmuu Head of the Department

Signature of the Staff Member

IRAC - Coordinator

Co-ordinator.
Internal Quality Assurance Cell (IQAC)
Goxt. College for Women (A)
Kumbakenam- 612 661

DEPARTMENT OF DEPARTMENT OF BOTANY

Teaching Plan

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

Programme: UG-BOTANY

Academic Year:

2022-2023

Semester:

V semester

Course Code: 18BOC508

Course Title: GENETICS, BIOSTATISTICS
AND EVOLUTION

Objectives:

 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	Distribution of hours/Unit		
Traditional Chalk and Talk	Method [L]	13 hrs per unit	13 hrs per unit (for 5 units)		
Evaluation -Class Tests (CT)	1 hrs (for 5 unit	1 hrs (for 5 units)		
Seminar/problem solving/c	lass work(S)	1 hour per uni	1 hour per unit(for 5 units)		
Creating awareness at developments of Numeric current research sector		in 1 hour per uni	t(for 5 units)	05	
Final Evaluation (FE)		3 hrs (Rehears	sal)	03	
Hrs per week 6	Credit	5 cot as	Total	75	

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

CI NO	HOUR	UNIT -CONTENT	MODE OF TEACHING			
SL.NO	HOUR	OIII COIII	L	CT	S	FE
		Unit-I - Mendel's laws				
1	2	Mendel's laws, Monohybrid	L		33	1
2	3	Dihybrid, back cross and test cross	L			36
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 Lathyrusodoratus	L	1231		
7	3	Eye colour in <i>Drosophila</i> colour blindness in man	L	-		100
8	2	Cytoplasmic inheritance.	L			
9	3	Sex determination in plants and Drosophila.	L			1
10	3	Functional units of gene – cistron, recon, muton,	L	7.73	8	1 200
		codon and operon concept				
		Unit - III - Biostatistics Definition		11604	177	
12	2	Sampling techniques: Sample	L			
13	3	Random and non – random sampling techniques	L			100
14	2	Data - Types of data	L	150	1000	1
15	3	Presentation of data	L			
16	2	Graphical methods: Histogram,	L		1	
17	2	Graphical methods: Bar and Pie diagrams.	L			
	L. COLLEGE	C. ckion, in	1	1000	1	
		Unit - IV Mean, median and mode				

9	3	1			
0		Measures of dispersion - range,	L		1
	2	Standard Deviation	L		17
1	3	Standard Error	L		1
2	2	Correlation and its types	L	13.	
		Unit - V - Evolution	11111111	DE.	120
13	3	Evolutionary concepts - Theories of Lamarck	L		
24	3	Charles Darwin	L		179
25	2	Modern synthetic theories	L	1	1
26	2	Population genetics	L	1	1.18
27	3	Factors affecting gene frequencies.	L	100	
		Seminar	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
1	1	UNIT-I Vitamins	Tour Barre	5	
2	1	UNIT-II Useful products form Gynosperms)	1214	S	14
3	1	UNIT-III Plants for the source and application of the following products		S	1000
4	1	UNIT - IV Bio-fertilizers use		S	1
5	1	UNIT-V Traditional and economically important plant species of India.		S	
		Class Test			
1	5	UNIT I-UNIT V	СТ	180	
		Final Evaluation (FE)			
1	3	Entire course	1 1	4	FE

Gya saaksuskmass Head of the Department

Signature of the Staff Member

Co-ordinator Internal Quality Assurance Cell (IQAC)
Gevt. College for Women (A)
Kumbakenam- 612 801

DEPARTMENT OF BOTANY

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

Programme:

B.Sc Botany

Academic Year:

2022-2023

Semester:

V semester

Course Code: U21BOC511

Course Title: Morphology, Taxonomy and Economic Botany

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(5 test per unit	05
Final Evaluation (FE)	5 hrs (Rehearsal)	05
Hrs per week 6 Total	5 Total	90

Hours per week	Tota	al Hours of Instructi	ion
6	A STATE OF	90	
5	411111111111111111111111111111111111111	75	No. of Concession, Name of
4	12 13 19	60	
2	Stempino	30	

SL.NO	HOUR	UNIT -CONTENT		MODE OF TEACHING		
			L	CT	5	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	1313		
4	2	Dry indehiscent,	L			
5	3	Aregate and multiple fruits.	L			
	1	Unit-II	-	151.5		-
	Section 1			13010		
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 eveidence for taxonomy, numerical taxonomy,	L			
10	3	Herbarium techniques.	L			
-		Unit – III	1	1 10 10		1
12	2	A detailed study of the following families with their economic importance	L			r
13	3	Annonaceae, Capparidaceae,	L			ı
14	2	Tiliaceae, Rutaceae,	L	16		
15	3	Anacardiaceae, Leguminosae	L			
16	2	(Papilionaceae, Cesalpinaceae and Mimosaceae)	L			
17	2	Economic Cucurbitaceae.	L	1		1

Unit - IV

8	3	A detailed study of the following families with their economic importance	L
9	3	Rubiaceae, Asteraceae,	u l
0	2	Apocynaceae, Asclepiadaceae	L
1	3	Solanaceae, Verbenaceae,	L
2	2	Euphorbiaceae, Orchidaceae and Poaceae.	-
		Unit - V	
23	3	Economic Botany: A brief study of the following economically important plants:	L
24	3	Food – Cereals (Oryza sativa, Eleusinecoracana); Pulses – Black gram (Phaseolusmungo),	L
25	2	Edible – Gingelly oil (Sesamumindicum); Root tu Tapioca (Manihotesculenta); Sugar – Sug (Saccharumofficinarum).	
26	2	Fibres - Textiles (Gossypium); Others- Cros	
27	3	Medicinal Plants – Ocimum, Phyllanthus, Solanus, Forest Products – Timber: Teak (Tectonagrandis (Artocarpusheterophyllus). Turpentine. Turpentine.	
-		Seminar	
1	1	UNIT-I Inflorescence - Types - racemose, cymose, mixed and special types.	S
2	1	UNIT-II Systems of Classification – Bentham and Hooke classification – Merits and demerits.	r

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 (Oryza sativa, Eleusinecoracana); Pulses – Black gram (Phaseolusmungo),	S
		Class Test	
1	5	UNIT I-UNIT V	СТ
1.74		Final Evaluation (FE)	
1	3	Entire course	FE

Bea skalmishman Head of the Department Signature of the Staff Member(s)

Iake - coordinator

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Gevt. Cellege for Women (A)
Kumbakenam-612 881

DEPARTMENT OF BOTANY

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

Programme: B.Sc Botany

Academic Year:

2022-2023

Semester: III semester

Course Code: U21BOC305

Course Title: Bryophyles, Pteridophytes,

Gymnosperms and Paleobotany

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

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

		UNIT -CONTENT		MOD		
SL.N O	HOUR	UNIT-CONTENT	L	СТ	5	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	Riccia, Marchantia, Anthoceros, Polytrichum and Funaria.	L		29	
		Unit-II Pteridophytes				
6	2	General characteristics and classification by Smith,	L	16		
7	3	Morphology, Structure	L			
8	2	Reproduction and life	L	1	1	
9	3	Psilotum, Lycopodium	L			
10	3	Selaginella and Equisetum.	L			
30		Unit – III Pteridophytes	-	1	-	
12	2	General characteristics	L		1356	N N
13	3	Ecology and significance	L			
14	2	Life cycle of Rhizopus (Zygomycota) Penicillium	L			
15	3	Alternaria (Ascomycota)	L	1000	-	
16	2	Puccinia, Agaricus Basidiomycota	L		1 700	

17	2	Economic importance.	L		198	
		Unit – IV Gymnosperms				9/0
				1		
18	3	General characteristics and classification of Gymnosperms by Sporne;	L			
19	3	Morphology,	L			200
20	2	Classification, Marsilea;	L			
21	3	structure, mode of reproduction and life- history of the following genera	L			
22	2	Cycas, Pinus and Gnetum.	L	180		
		Unit – V Paleobotany				
1000	10	Fossils and methods of fossilization –	L			
23	3	Fossils and methods of fossilization –	-			
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 sahni	L		1 . 3	
26	2	A brief study of the following fossil plants:	L			1
		a) Rhynia, b) Lepidodendron,				
27	3	c) Pentoxylon and d) Williamsonia.	L			186
		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.		7	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 –		S
		Class Test		
1	5	UNIT I-UNIT V	СТ	
		Final Evaluation (FE)		
1	3	Entire course		FE

Head of the Department

Signature of the Staff Member(s)

Co-ordinator

Internal Quality Assurance Cell (IOAC)
Govt. College for Women (A)
Kumbakenam- 612 001

DEPARTMENT OF BOTANY

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

Programme:

B.Sc Botany

Academic Year:

2022-2023

Semester:

V semester

Course Code: U21BOC511

Course Title: Morphology, Taxonomy and Economic Botany

Teaching Methodology		Distribution of	hours/Unit	of Instruction
Traditional Chalk and Talk Me	thod [L]	12 hrs per unit	(for 5 units)	60
Evaluation - Class Tests (CT)	7 SEPTEMBER 1 192-40	5 test per unit	Conservation of the	05
Seminar/problem solving/cla	ss work(S)	5 test per unit		05
Final Evaluation (FE)	100000000000000000000000000000000000000	5 hrs (Rehears	al)	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	HOUR	UNIT -CONTENT	MODE O TEACHIN				
0	1000		L	CT	S	FE	
		Unit-I		1333			
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	Aregate and multiple fruits.	L		199		
		Unit-II					
6	2	Binomial nomenclature – ICBN rules – taxonomic types.	L		74		
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 eveidence for taxonomy, numerical taxonomy,	L				
10	3	Herbarium techniques.	L				
	-	Florid VIV					
12	2	A detailed study of the following families with	L				
13	3	their economic importance Annonaceae, Capparidaceae,	L				
14	2	Tiliaceae, Rutaceae,	L	ik de	100		
15	3	Anacardiaceae, Leguminosae	L				
16	2	(Papilionaceae, Cesalpinaceae and Mimosaceae)	L				

17	2	Economic Cucurbitaceae.	L	
1,	1	and the state of t		
		Unit – IV		-
18	3	A detailed study of the following families with their economic importance	L	1 19
19	3	Rubiaceae, Asteraceae,	L	
20	2	Apocynaceae, Asclepiadaceae	L	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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 (Oryza sativa, Eleusinecoracana); Pulses – Black gram (Phaseolusmungo),	L	
25	2	Edible – Gingelly oil (Sesamumindicum); Root tu Tapioca (Manihotesculenta); Sugar – Sug (Saccharumofficinarum).		
26	2	Fibres - Textiles (Gossypium); Others- Crot Agave.	alaria,	
27	3	Medicinal Plants – Ocimum, Phyllanthus, Solanum Forest Products – Timber: Teak (Tectonagrandis (Artocarpusheterophyllus). Tannins, Gums, Turpentine.), Jack	
		Seminar	- August and	
1	1	UNIT-I Inflorescence – Types – racemose, cymose, mixed and special types.		S

2	1	UNIT-II			SI	
		Systems of Classification – Bentham and	1000			
		Hooker classification – Merits and demerits.			333	
3	1	UNIT-III			5	
		A detailed study of the following families with their economic importance				
4	1	UNIT – IV	1000		S	138
	10/3/5	Economic importance Rubiaceae, Asteraceae,	1000			
5	1	UNIT-V	13.71		S	1000
		Food - Cereals (Oryza sativa,	1966		175	
	100	Eleusinecoracana); Pulses – Black gram	110		1 3	1300
		(Phaseolusmungo),	1 15			
		Class Test				
1	5	UNIT I-UNIT V		CT		
		Final Evaluation (FE)	1930		1.3	
1	3	Entire course	100		- 1	FE
	The Park of the Pa					1

By a saswishner Head of the Department

Signature of the Staff Member(s)

Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam-612 981

DEPARTMENT OF BOTANY

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

Programme: B.Sc Botany

Academic Year:

2022-2023

Semester:

IV semester

Course Code: U21BOC407

Course Title: Anatomy and Embryology and microtechque

Teaching Methodology	Distribution of hours/Unit	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 6 5	Total Haves of
-	Total Hours of Instruction
6	90
5	75
4	60
2	30

SL.N	HOUR	UNIT -CONTENT		MODE OF TEACHING			
0			L	CT	5	FE	
		Unit-I					
1	2	Anatomy: Plant tissue	L				
2	3	Classification, Meristems, definition, differentiation, redifferentation and dedifferentation	L				
3	3	Classification of meristems- apical meristems	L			100	
4	2	lateral meristerms intercalary meristem,	L				
5	3	Concepts of apical meristem theories, apical cell theory, Tunica – Corpus and Histogen theory.	L				
6	2	Epidermal tissue system	L				
6	2	Epidermal tissue system Stomatal types. Permanent tissue	L				
			-				
7	3	Stomatal types. Permanent tissue	L				
7	3	Stomatal types. Permanent tissue Parenchyma, collenchyma and sclerenchyma.	L				
7 8 9	3 2 3	Stomatal types. Permanent tissue Parenchyma, collenchyma and sclerenchyma. Complex Permanent Tissues: Phloem – Components, Ontogeny and	L				
7 8 9	3 2 3	Stomatal types. Permanent tissue Parenchyma, collenchyma and sclerenchyma. Complex Permanent Tissues: Phloem – Components, Ontogeny and Phylogeny. Laticifer types.	L				
7 8 9	3 3 3	Stomatal types. Permanent tissue Parenchyma, collenchyma and sclerenchyma. Complex Permanent Tissues: Phloem – Components, Ontogeny and Phylogeny. Laticifer types. Unit – III Primary structure of root, stem and leaf in	L				
7 8 9 10	3 3 3	Stomatal types. Permanent tissue Parenchyma, collenchyma and sclerenchyma. Complex Permanent Tissues: Phloem – Components, Ontogeny and Phylogeny. Laticifer types. Unit – III Primary structure of root, stem and leaf in dicots and monocots. Normal Secondary growth in stem and root-					

16	2	Nyctanthes and Boerhaavia and monocot stem	L	
17	2	Dracaena.Nodal anatomy - uni and trilacunar types.	L	
		Unit - IV Plant Protection and Disease manager	ment	
18	3	Embryology – Structure and development of anther.	L	
19	3	Microsporogenesis; Microgametogenesis	L	
20	2	Ultrastructure of pollen wall -	L	333
21	3	structure, development and types of ovules, megasprogenesis, Megagametogenis (Polygonum type of embryosac 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	
196		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	СТ	
		Final Evaluation (FE)		
1	3	Entire course		FE

Ba saa mishnan Head of the Department

Signature of the Staff Member(s)

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

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

Name of the Staff: Dr.M.Govindarajan

Programme: B.Sc., ZOOLOGY

Academic Year: 2022-23

(ODD SEM)

Semester:

I semester

Course Code: U21ZC101

Course title:

Invertebrate

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

Те	aching M	ethodology	Distribution of hours	/Unit	Total Hours
Traditional Cl	ditional Chalk and Talk Method [L]		-		-
ICT Enabled 1	Lectures []		11 hrs per unit (for 2.0 unit	22	
Practical Dem	onstration	[P]	-		-
Tutorial (T)			-		*
Field visit (FV	field visit (FV)		-		-
Group discussion			1 hour per unit (for 2 units)		_
Evaluation –Class Tests (CT)			1 test per unit (for 2 units)		2
Seminar/proble	em solving	g/class work(S)	1 hour per unit (for 2 units) 1 hour per unit (for 2 units)		2
Creating (CA)					2
inal Evaluation	n (FE)		2 hrs (Rehearsal)		2
Irs per week	2	Credit	5	Total	30
I	Hours per	week	Total Hours of Instruc		
	6		90 75		
	5				
	4			50	
	2			30	

SI.	Hour UNIT -CONTENT				DDE O	_
No.	Hour	CITI CONTENT	L	CT	S	FE
Unit-	I					
1	2	Animal Kingdom: Classification, taxonomy and nomenclature.	L			
2	4	Phylum: Protozoa – General characters and classification up to class level with suitable examples.	L			
3	7	Detailed Study: Paramecium. General Topics: 1. Human Protozoan Diseases: Amebiasis, Leishmaneosis and Malaria	L			
Unit-I	II					
	1	Phylum:Platyhelminthes – General characters	L			
	1	Classification up to class level with suitable examples.	L			
	5	Detailed Study: Liver fluke	L			
	2	General Topics: 1. Parasitic adaptation in helminthes.	L			
Semina	ar					
1	1	UNIT-I			S	T
		Phylum: Protozoa – General characters and classification				
1		UNIT-III Phylum:Platyhelminthes – General characters				
Class T	est					
1		UNIT-I Human Protozoan Diseases:		CT		
1	1	UNIT -III Parasitic adaptation in helminthes.		CT		
reating						
2	(Creating awareness for higher studies			CA	
inal Ev	aluatio				CII	
2	I	Entire course				FE

Court.

Head of the Department

LAD OF THE DEPARTMENT OF ZOOLOGIA

GOVI. COLLEGE FOR WOMEN.

KUMBAKONAM.

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Signature of the Staff Member(s)

Co-ordinator
Internal Quality Assurance Cell (IQAC)
Govt. College for Women (A)
Kumbakonam- 612 901

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

Name of the Staff: Dr.M.Govindarajan

Programme: B.Sc., ZOOLOGY

Academic Year: 2022-23

(ODD SEM)

Semester:

III semester

Course Code: U21ZC305

Course title:

Cell Biology

Objectives: To understand the structure and functions of cellular organelles.

Teaching Methodology			Distribu	Total Hours of Instruction		
Traditional Chalk and Talk Method [L]				-		
ICT Enabled Lectures [I]			10 hrs per un	15		
Practical Demo	onstration[P]				-	
Tutorial (T)			-		-	
Field visit (FV)		-		-	
Group discussi	on		1 hour per uni	1 hour per unit (for 1.5 units)		
Evaluation -Cl	ass Tests (CT)		1 test per unit	1.5		
Seminar/proble	m solving/clas	s work(S)	1 hour per uni	1.5		
Creating (CA)		1 hour per uni	2			
Final Evaluation	n (FE)		2 hrs (Rehearsal)		2	
Hrs per week	2	Credit	5	Total	30	
H	Hours per week	V F T S	,	ction		
6						
5						
4						
2			30			

Sl. No. Hour		UNIT -CONTENT		MODE OF TEACHING				
		CHII CONTENT	L	CT	S	FE		
		Unit-III						
1	3	Ultra structure and functions of Endoplasmic reticulum.	L					
2	3	Ultra structure and functions of ribosomes	L					
3	3	Ultra structure and functions of mitochondria.	L					
4	3	Ultra structure and functions of Lysosome.						
		Unit-II						
5	2	Ultra Structure of Golgi complex.	L					
6	1	Functions of Golgi complex	L					
		Seminar				-		
	1	UNIT-III			S			
	1	UNIT-II						
	2-1111-4	Class Test						
	1	UNIT-III		CT				
	1	UNIT-II		CT				
		Creating Awareness (CA)			_	_		
	1	Creating awareness for higher studies			CA			
		Final Evaluation (FE)						
	2	Entire course				F		

Ough.

Head of the Department of Zoologs.
GOVT. COLLEGE FOR WOMEN.
KUMBAKONAM

M. 255

Signature of the Staff Member(s)

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

POST GRADUATE AND RESEARCH DEPARTMENT OF ZOOLOGY

Teaching Plan

Name of the Staff: Dr.M.Govindarajan

Programme: B.Sc., ZOOLOGY Academic Year: 2022-23 (ODD SEM)

Semester: V semester Course Code: 18ZC507

Course title: Evolution

Objectives: To understand the scientific principles and concepts of animal evolution by means of their evidences and animal distribution.

Teaching Methodology		Distribution of	Total Hours of Instruction		
Traditional Chalk and Talk Method [L]			-	-	
ICT Enabled Lectures [I]			11 hrs per unit (for	22	
Practical Dem	onstration[P]	-	-	
Tutorial (T)			-		_
Field visit (FV	7)		-		-
Group discuss	ion		1 hour per unit (for	-	
Evaluation –Class Tests (CT)			1 test per unit (for 2	2	
Seminar/problem solving/class work(S)			1 hour per unit (for	2	
Creating (CA)		1 hour per unit (for	2		
Final Evaluation	on (FE)		2 hrs (Rehearsal)		2
Hrs per week	2	Credit	5	Total	30
Hours per week 6 5			Total	ction	
4					
2					

Sl. Hour		UNIT -CONTENT	MODE OF TEACHING			
No.	(0.		L	CT	S	FE
		Unit-IV				
1	4	Structural and numerical changes of gene mutation	L			
2	4	Structural and numerical changes of Chromosomal mutations	es of Chromosomal L			
3	3	Population Genetics: Hardy Weinberg principle, Factors affecting Hardy Weinberg equilibrium	L			
		Unit-V				
4	4 Animal distribution – continuous and discontinuous.		L			
5	3	Evolution of horse.	L			
6	4	Human evolution – Biological and Cultural evolution of man				
	Y LIVE	Seminar				
7	1	UNIT-IV			S	
8	1	UNIT-V			S	
		Class Test				
9	1	UNIT-IV		CT		
10	1	UNIT-V		CT		
		Creating Awareness (CA)				
1	2	Creating awareness for higher studies			CA	
		Final Evaluation (FE)				
2	2	Entire course				F

Court.

Head of the Department
HEAD OF THE DEPARTMENT OF ZOOLOGY,
GOVT. COLLEGE FOR WOMEN.
KUMBAKONAM

M. 555

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 ZOOLOGY Teaching Plan

Name of the Staff: Dr.M.Govindarajan

Programme:

B.Sc., ZOOLOGY

Academic Year: 2021-22

21-22 (ODD SEM)

Semester:

I semester

Course Code: P21ZC103

Course title:

Genetics

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

m 11 11			Distribution of hours/Unit		Total Hours		
Teaching Met	thodology		Distribution	of Instruction			
Traditional Cl	halk and Talk	Method [L]	11 hrs per u	22			
ICT Enabled Lectures [I]			-	-			
Practical Dem	Practical Demonstration[P]			-			
Tutorial (T)			1 hour per u	nit(for 2 units)	-		
Field visit (FV	7)		-		-		
Group discuss:	ion		-	-			
Evaluation -C	lass Tests (CT	Γ)	1 test per un	2			
Seminar/proble	em solving/cla	ass work(S)	1 hour per u	2			
Creating (CA)			1 hour per u	2			
Final Evaluatio	on (FE)		2 hrs (Rehea	2			
Hrs per week	2	Credit	5	Total	30		
	Hours per week			Total Hours of Instruct			
6 5 4 2			90				
			30				

			MODE OF TEACHING			
Sl. Hour	UNIT -CONTENT				THE	
No.			L	CT	S	FE
		Unit-IV		, , , ,		
1	3	Mutation: Types – Chromosomal mutation:	L			
*		Numerical and structural changes in chromosomes				
2	3	Edward's syndrome, Cri du chat syndrome,	L			
11		Klinefelter's syndrome and Turner syndrome.				
3	3	Molecular basis of gene mutation, Spontaneous and	L			
		Induced mutation				
4	2	DNA repair mechanism.	L			
THE		Unit-III				
6	6	Sex determination: Grasshopper, Bonellia, Free-	L			
		martin (Cattle), Pigeon, Sacculina.				
7	5	Microbial Genetics: Methods of gene transfer:				
		Transformation, conjugation, sex-duction and				
		transduction.				
		Class Test	,			
8	1	UNIT-IV		CT		
9	1	UNIT-III		CT		
		Seminar				
10	1	Unit IV			S	
11	1	Unit III			S	
		Creating awareness				
12	2	Creating awareness for higher studies			CA	
		Final Evaluation (FE)				
13	2	Entire course				F

Head of the Department

HEAD OF THE DEPARTMENT OF ZOOLOG

GOVT. COLLEGE FOR WOMEN KUMBAKONAM

M. 555

Signature of the Staff Member

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

POST GRADUATE AND RESEARCH DEPARTMENT OF ZOOLOGY

Teaching Plan

Name of the Staff: Dr.M.Govindarajan

Programme:

B.Sc., ZOOLOGY

Academic Year: 2021-22

(ODD SEM)

Semester:

III semester

Course Code: P21ZC309

Course title:

Developmental Biology and Evolution

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

Teaching Methodology			Distribution of hours/Unit		Total Hours	
Teaching Meth	lodology		Distribution	of Instruction		
Traditional Chalk and Talk Method [L]			11 hrs per ui	22		
ICT Enabled Lectures [I]			-			
Practical Demo	onstration[P]				-	
Tutorial (T)			1 hour per u	nit(for 2 units)	-	
Field visit (FV)		-		-	
Group discussi	on		-	-		
Evaluation -Cl	lass Tests (C'	T)	1 test per un	2		
Seminar/proble	em solving/cl	lass work(S)	1 hour per u	2		
Creating (CA)			1 hour per u	2		
Final Evaluation	on (FE)		2 hrs (Rehearsal)		2	
Hrs per week	2	Credit	5	Total	30	
	Hours per week			Total Hours of Instruc		
6 5 4 2						
			60 30			

Sl. No. Hour		UNIT -CONTENT		MOD TEAC		
			L	CT	S	FE
		Unit-I				
1	1	Aim and scope of Developmental Biology	L			
2	3	Spermatogenesis	L			
3	3	Oogenesis	L			
4	2	Tupes of egg	L			
5	2	Polarity and gradient.	L			
		Unit-II				
6	3	Fertilization: Physiological events and Biochemical changes during fertilization.	L			
7	2	Parthenogenesis: Types, Natural and Artificial-significances.				
8	3	Cleavage: Types of cleavage- peculiarities - chemical changes - patterns of cleavage - planes of cleavage, Role of egg cortex in sea urchin.				
9	3	Embryonic induction of lens and competence. Differentiation - Types and levels; Homeotic genes; Nuclear transplantation experiment	L			
		Class Test		1		
10	1	UNIT-I Spermatogenesis and Oogenesis		CT		
11	1	UNIT-II Cleavage - Patterns of cleavage		CT		
12	1	Unit I			S	
13	1	Unit II			S	
1.1					-	
14	2	Creating awareness for higher studies			CA	
1.5		Final Evaluation (FE)				-
15	2	Entire course				FE

Opening.

GOVT. COLLEGE FOR WOMEN.

M. 55

Signature of the Staff Member

GOVERNMENT COLLEGE FOR WOMEN (A), KUMBAKONAM

POST GRADUATE AND RESEARCH DEPARTMENT OF ZOOLOGY

Teaching Plan

Name of the Staff: Dr.M.Govindarajan

Programme: I

B.Sc., ZOOLOGY

Academic Year: 2022-23

)22-23 (EVEN SEM)

Semester:

IV semester

Course Code: U21ZC407

Course title:

Environmental Biology

Objectives: In order to acquire a comprehensive understanding of the Environment, it is essential to delve into its fundamental principles, definition, and scope. Additionally, exploring the sources of pollution and strategies for wildlife conservation is crucial.

Teaching Methodology			Distributi	Total Hours of Instruction	
Traditional Chalk and Talk Method [L]		- 4		-	
ICT Enabled L	ectures [I]		11 hrs per unit	(for 2 units)	22
Practical Demo	onstration[]	P]	-		-
Tutorial (T)			-		-
Field visit (FV))		-		-
Group discussion	on		1 hour per unit (for 2 units)		-
Evaluation –Cl	ass Tests (CT)	1 test per unit (for 2 units)		2
Seminar/proble	m solving.	/class work(S)	1 hour per unit (for 2 units)		2
Creating (CA)			1 hour per unit (for 2 units)		2
Final Evaluatio	n (FE)		2 hrs (Rehear	sal)	2
Hrs per week	2	Credit	5	Total	30
Hours per week			Tota! Hours of Instruction		
6			90		
	5		75		
4			60		
	2			30	

Sl. Hour		UNIT -CONTENT			DE OF	
No.	Hour	OMI -COMEM		CT	S	FE
		Unit-IV				
1	2	Habitat characteristics of fauna and its adaptation in rivers.	L			
2	2	Habitat characteristics of fauna and its adaptation in muddy.	L			
3	2	Habitat characteristics of fauna and its adaptation in rocky.	L			
4	2	Habitat characteristics of fauna and its adaptation mangroves.	L			
5	1	Habitat characteristics of fauna and its adaptation in estuaries.	L			
6	1	Habitat characteristics of fauna and its adaptation in deep sea and forest.	L			
7	1	Habitat characteristics of fauna and its adaptation in desert and cave.	L			
	- 11/1/	Unit-V				
8	2	Sources and effects of air pollution.	L			
9	2	Sources and effects of water pollution.	L			
10	2	Sources and effects of soil pollution.	L			
11	2	Sources and effects of noise pollution.	L			
12	2	Wild life and conservation - IUCN categorization, <i>in situ</i> and <i>ex situ</i> conservation.	L			
3	1	Bio accumulation, bio magnification and bio remediation.	L			
		Seminar				
4	1	UNIT-IV			S	
5	1	UNIT-V			S	
		Class Test				
6	1	UNIT-IV		CT		
7	1	UNIT-V		CT		
		Creating Awareness (CA)				
8	2	Creating awareness for higher studies			CA	
0 1	-	Final Evaluation (FE)				
9	2	Entire course				FF

Clevent.

GOVT. COLLEGE FOR WOMEN

KUMBAKONAM

M. 35

Signature of the Staff Member(s)

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

Name of the Staff: Dr.M.Govindarajan

Programme: B.Sc., ZOOLOGY

Academic Year: 2022-23

(EVEN SEM)

Semester:

VI semester

Course Code: U21ZC613

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.

and translation	hing Meth	odology	Distribution of hours/Unit		Total Hours of Instruction
Traditional Cha	lk and Talk	Method [L]	-		
ICT Enabled Le			11 hrs per unit (for 1	.5 units)	18
Practical Demo			-		-
Tutorial (T)			-		-
Field visit (FV)			-		-
Group discussion			1 hour per unit (for 1	1.5 units)	NA.
Evaluation -Cla		CT)	1 test per unit (for 1.5 units)		1.5
Seminar/proble			1 hour per unit (for 1.5 units)		1.5
Creating Aware			1 hour per unit (for 1 units)		1
Final Evaluatio	n (FE)		1 hr (Rehearsal)		1
Hrs per week	2	Credit	5	Total	23
	Hours per v	veek	Total	Hours of Instru	action
6 5 4			90		
				60	
	2	THE VENEZA THE		30	

SI. II		UNIT -CONTENT			MODE OF FEACHING	
No.	Hour	UNII -CONTENT	L	CT	S	FE
		Unit-II				
1	2	Sex determination in Man.	L			
2	2	Sex determination in drosophila.	L			
3	1	Sex determination in Bonellia.	L			
4	2	Sex linked inheritance, Sex limited and Sex influenced inheritance	L			
		Unit-V				
5	4	Transcription - Genetic Code - Translation.	L			
6	4	Gene expression and regulation in prokaryotes.	L			
7	3	Lac operon model	L			
		Seminar				
8	.5	UNIT-II			S	
9	1	UNIT-V			S	
		Class Test				
10	.5	UNIT-II		CT		
11	1	UNIT-V		CT		
		Creating Awareness (CA)				
12	1	Creating awareness for higher studies			CA	
		Final Evaluation (FE)				
13	1	Entire course				F

TEAD of Head of the Department COLOGN

GOVT COLLEGE FOR WOMEN.

KUMBAKONAM

Signature of the Staff Member(s)

Co-ordinator Internal Quality Assurance Cell (IQAC)

Govt. College for Women (A) Kumbakonam- 612 901

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

Name of the Staff: Dr.M.Govindarajan

Programme: M.Sc., ZOOLOGY

Academic Year: 2021-22

(EVEN SEM)

Semester:

II semester

Course Code: P21ZC207

Course title:

Immunology

Objectives: To inculcate basic and current knowledge on the immune system.

To learn the structure and functions of immune system.

To lear	n the structure	and functions of	immune system.		Total Hours	
Teaching Meth	odology		Distribution of	f hours/Unit	of Instruction	
Traditional Cha	alk and Talk M	lethod [L]	11 hrs per unit	(for 2 units)	22	
ICT Enabled L	ectures [I]		- 37		-	
Practical Demo	onstration[P]		-		-	
Tutorial (T)			1 hour per uni	t(for 2 units)	-	
Field visit (FV)			-		-	
Group discussion	Group discussion			-		
Evaluation –Cla	Evaluation –Class Tests (CT)			1 test per unit		
Seminar/proble	m solving/clas	ss work(S)	1 hour per uni	2		
Creating (CA)			1 hour per uni	t (for 2 units)	2	
Final Evaluation	n (FE)		2 hrs (Rehears	sal)	2	
Hrs per week	2	Credit	5	Total	30	
Hours per week			T	Total Hours of Instruction		
	6			90		
	5			75		
4				60		
2				30		

Sl.	Hour	UNIT -CONTENT		MOD TEAC			
No.			L	CT	S	FE	
		Unit-III					
1	3	Antigen - Antibody reaction: Immune complex, Binding forces, Types of Antigen-antibody reactions - precipitations, Agglutinations, cytolysis, complement fixation, opsonisation.	L				
2	4	Complements (Classical and Alternate pathways)	L				
3	2	Cytokines	L				
4	2	Cell mediated Immune response	L				
		Unit-IV					
5	4	Hyper sensitivity : Types and Mechanism of anaphylaxis.	L				
6	3	Auto immunity - Causes, Auto immune disease - pernicious anemia, Rheumatoid arthritis, Graves disease	L				
7	4	Transplantation Immunology - Types of graft, Mechanism of Allograft rejection, Graft versus Host reaction, Prevention of graft rejection	L				
		Class Test					
8	1	UNIT-III		CT			
9	1	UNIT-IV		CT			
		Seminar					
10	1	Unit III			S		
11	1	Unit IV			S		
		Creating awareness					
12	2	Creating awareness for higher studies			CA	T	
		Final Evaluation (FE)				-	
13	2	Entire course				FE	

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Signature of the Staff Member

M. ___

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

Teaching Plan

Name of the Staff: Dr.M.Govindarajan

Programme: M.Sc., ZOOLOGY

Academic Year: 2021-22

(EVEN SEM)

Semester:

II semester

Course Code: P21Z2EC24

Course title:

Entomology

Objectives: To obtain a wide knowledge on types of insect and their morphology, anatomy and physiology of insects and their management system. To know the risks of vector insects.

physica 8.	y or moves				Total Hours
Teaching Meth	Teaching Methodology			Distribution of hours/Unit	
Traditional Ch	alk and Tal	k Method [L]	11 hrs per un	nit (for 2 units)	22
ICT Enabled L			-		-
Practical Demo		P]	-		-
Tutorial (T)			1 hour per un	nit(for 2 units)	-
Field visit (FV)		-		-
Group discussi	on		The		-
Evaluation -Cl	ass Tests (CT)	1 test per unit		2
Seminar/proble			1 hour per unit (for 2 units) 1 hour per unit (for 2 units)		2
Creating (CA)					2
Final Evaluation	on (FE)		2 hrs (Rehea	rsal)	2
Hrs per week	2	Credit	5	Total	30
Hours per week 6 5 4				Total Hours of Instru	iction
			90		
				60	
THE REAL PROPERTY.	2			30	

SI.	Hour	UNIT -CONTENT		MODI TEACI			
No.			L	CT	S	FE	
		Unit-II			-		
1	4	Mouth parts of Insects- biting and chewing type, chewing and lapping type, piercing and sucking type, sponging type, siphoning type	L				
2	4	Classification of insects based on types of metamorphosis, hormonal control of metamorphosis	L				
3	3	Reproduction in Insects: Reproductive cycle, other types of reproduction – parthenogenesis, viviparity, polyembryony; life span of insects.	L				
		Unit-III					
4	6	Medical Entomology – direct effects of medical pests, indirect effects of medical pests;	L				
5	5	Insects affecting health of man – damage and control of mosquitoes, house flies, bed bug, lice and fleas	L				
		Class Test					
6	1	UNIT-I		CT			
7	1	UNIT-II		CT			
8	1	Unit I			S	T	
9	1	Unit II			S		
10	2	Creating awareness for higher studies			CA	T	
		Final Evaluation (FE)			011		
11	2	Entire course				FE	

TEAD OF Head of the Department oologs

GOVT. COLLEGE FOR WOMEN.

KUMBAKONAM

M. Signature of the Staff Member

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

Teaching Plan

Name of the Staff: Dr.M.Govindarajan

Programme: M.Sc., ZOOLOGY

Academic Year: 2021-22

(EVEN SEM)

Semester:

IV semester

Course Code: P21ZC413

Course title:

Ecology and Ethology

Objectives: To know the sources of pollution and their impact on environment.

Teaching Methodology			Distribution of hours/Unit		Total Hours of Instruction	
Traditional Ch	alk and Tal	k Method [L]	11 hrs per unit (for	· 1 unit)	11	
ICT Enabled I	Lectures [I]		-		-	
Practical Dem	onstration[I	·]			-	
Tutorial (T)			1 hour per unit(for	2 unit)	-	
Field visit (FV)		-		-	
Group discussi	ion		-		-	
Evaluation –Cl	lass Tests (C	CT)	1 test per unit	1		
Seminar/proble	em solving/	class work(S)	1 hour per unit (fo	1		
Creating (CA)			1 hour per unit (for 1 unit)		1	
Final Evaluatio	n (FE)		1hr (Rehearsal)		1	
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		MOD! TEAC!		
			L	CT	S	FE
1		Unit-II				
1	2	Source, effects and control measures of air pollution	L			
2	1	Source, effects and control measures of water pollution	L			
3	1	Source, effects and control measures of soil pollution	L			
4	1	Source, effects and control measures of noice pollution	L			
5	1	Source, effects and control measures of thermal pollution	L			
6	1	Source, effects and control measures of radiation pollution	L			
7	1	Source, effects and control measures of plastic pollution	L			
8	1	Source, effects and control measures of pesticide pollution	L			
9	1	Acid Rain- Green house effect- Ozone and its importance- Global warming.	L			
10	1	Environmental Impact Assessment – Need, Methods	L			
		Class Test				
10	1	UNIT-II		CT		
11		TT ', II	_	_	10	
11	1	Unit II			S	
12	1	Creating awareness for higher studies			CA	
		Final Evaluation (FE)				
13	1	Entire course				F

TEAD OF IHead of the Departmenture.

GOYT- COLLEGE FOR WOMEN.

M. >>

Signature of the Staff Member

Teaching plan 2022 - 2023 Odd Semester

Name of the staff: Dr. G. Priya

MAJOR BASED ELECTIVE COURSE-I

BEE KEEPING

THEORY HOURS PRACTICAL HOURS:	:5	COURSE CODE CREDITS	:P21Z1MBE1:3 :4
EXAM HOURS	:3	MARKS	: ESE-75/CIA-25

UNIT - III

Apiary-care and Management-Artificial beehives-different types-construction of space frames- selection of sites-catching and transforming a Colony-Handling and maintenance of the Colony- Instruments employed in Apiary.

Portions to be completed	Tentative Schedule	Teaching methodology to be applied	Learning strategies	Assess ment
Apiary-care	July I week	Lecture	Notes writing	Assignm ent
Apiary- Management	July II week	Lecture	Notes writing	Test
Artificial beehives	July III week	Powerpoint presentation	Disscussion	Test
construction of space frames	July IV week	Lecture	Notes writing	Test
selection of sites- catching	August I week	Lecture	Notes writing	Test
transforming a Colony- Handling	August II week	You tube videos http://www.youtube.com/@agriculturaldev elopmenttru8788	Disscussion	-
maintenance of the Colony	August III week	Lecture	Notes writing	Test
nstruments employed n Apiary	August IV week	Lecture	Notes writing	Test

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CORE COURSE V - BIOCHEMISTRY

THEORY HOURS 5 PRACTICAL HOURS: EXAM HOURS 3	COURSE CODE : P21ZC205CREDITS 5 MARKS : ESE-75/CIA-25
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UNIT - V

Enzymes -Nomenclature and classification, chemical nature and properties of enzyme, factors affecting enzyme activity, Active site, Enzyme inhibition, Enzyme specificity, Mechanism of enzyme action-MichaelisMenten Hypothesis.Regulation of enzyme activity, Non protein enzymes -coenzymes and Iso enzyme. Hormones: Biochemical classification.

classification.				
Portions to be completed	Tentative Schedule	Teaching methodology to be applied	Learning strategies	Assessment
Enzymes -Nomenclature and classification	July I week	Lecture	Notes writing	Assignment
chemical nature and properties	July II week	Lecture	Notes writing	Test
factors affecting enzyme activity	July III week	Powerpoint presentation	Disscussio n	Test
Active site, Enzyme inhibition	July IV week	Powerpoint presentation	Disscussio n	Test
Enzyme specificity	August I week	Powerpoint presentation	Disscussio n	Test
MichaelisMenten Hypothesis	August II week	Youtube videos http://youtube.co m@studysmar tly8096	Discussion	Test
Regulation of enzyme activity	August III week	Lecture	Notes writing	Test
Non proteinenzymes	August IV week	Lecture	Notes writing	Test
coenzymes and Iso enzyme	September Iweek	Seminar	Notes writing	Seminar presentation skill
Hormones: Biochemical classification.	September II week	Lecture	Notes writing	Test

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MAJOR BASED ELECTIVE COURSE III BIOSTATISTICS AND RESEARCH METHODOLOGY

THEORY HOURS PRACTICAL HOURS:	6	COURSE CODE CREDITS	:P21Z3MBE3:1 4
EXAM HOURS	3	MARKS	: ESE-75/CIA-25

UNIT - II

Skewness and kurtosis, measures of skewness, Karl-Pearson's coefficient of skewness, Bowley's measures of skewness, types of coefficient of skewness, types of kurtosis, Correlation analysis (Karl-Pearson's)- types and methods, Regression analysis - regression line and regression equation

Portions to be completed	Tentative Schedule	Teaching methodology to be applied	Learning strategies	Assessment
measures of Skewness	July I week	Lecture	Notes writing	Assignment
Karl-Pearson's coefficient of skewness	July II week	Lecture	Workout Model problems	Test
Karl-Pearson's coefficient of skewness	July III week	Powerpoint presentation	Disscussion	Test
Bowley'smeasures of skewness	July IV week	Powerpoint presentation	Disscussion	Test
Bowley'smeasures of skewness	August I week	Lecture	Workout Model problems	Assignment
types of coefficient of skewness	August II week	Lecture	Notes writing	Test
types of kurtosis	August III week	Lecture	Notes writing	Test
Correlation analysis	August IV week	Lecture	Workout Model problems	Test
types and methods	September Iweek	Seminar	Notes writing	Seminar presentation skill
Correlation	SeptemberII week	Lecture	Notes writing	Test
regression line and regression equation	September IIIweek	Lecture	Notes writing	Test
Regression analysis	September IVweek	Lecture	Workout Model problems	Test
Revision &Class test	October Onwards			-

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GOVT COLLEGE FOR WOMEN

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Govt. College for Wome
Kumbakonam, 612 UU

INVERTEBRATA

Theory Hours	:	6		Course Code	:U20	OZC101		
Practical Hours			:	 (Credits		:5	
Exam Hours	:	3]	Marks	:100		

UNIT - I

Animal Kingdom: Classification, taxonomy and nomenclature.

Phylum: Protozoa - General characters and classification up to class level with suitable examples.

Detailed Study: Paramecium.

Phylum: Porifera and Cnidaria - General characters and classification up to class level with suitable examples.

General Topics: 1. Canal system in Porifera

Portions to be completed	Tentative Schedule	Teaching methodology to be applied	Learning strategies	Assessment
Classification	August I week	Lecture	Notes writing	Assignment
taxonomy	August II week	Lecture	Notes writing	Test
taxonomy and	August III week	Lecture	Notes writing	Test
Protozoa – General characters	August IV week	Lecture	Notes writing	Test
classification	September Iweek	Lecture	Notes writing	Test
Paramecium External features	SeptemberII week	Powerpoint presentation	Disscussio n	Test
Nutrition&Locomotion	September IIIweek	Lecture	Notes writing	Test
Reproduction	1	http:www.7activestudi o.com	Discussion	Discussion
Reproduction continuation	October Iweek	Seminar	Notes writing	Seminar presentation skill
Porifera and Cnidaria - General characters	October IIweek	Lecture	Notes writing	Test
Porifera and Cnidaria classification	October IIIweek		Notes writing	Test
Revision	October IVweek	Disscussion	Disscussion	Disscussion

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GOVT. COLLEGE FOR WOMEN

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MAJOR BASED ELECTIVE COURSE I BIOSTATISTICS

UNIT - II

Processing of data: classification and tabulation of data. Presentation of Data. Diagramatic (Bar and Pie) and graphical presentation (Histogram, Frequency curve, Frequency polygon).

Portions to be completed	Tentative Schedule	Teaching methodology to be applied	Learning strategies	Assessment
Introduction of Data	July I week	Lecture	Notes writing	Assignment
classification of data	July II week	Lecture	Notes writing	Test
tabulation of data	July III week	Lecture	Notes writing	Test
Presentation of Data	July IV week	Lecture	Notes writing	Test
Bar	August I week	Powerpoint presentation	Disscussio n	Disscussion
Pie	August II week	Powerpoint presentation	Disscussio n	Disscussion
graphical presentation	August III week	Lecture	Notes writing	Test
Conti nuation of graphical presentation	August IV week	Lecture	Notes writing	Test
Revision	September Iweek	Seminar	Notes writing	Seminar presentation skill
Class test	SeptemberI I week	Lecture	Notes writing	Test

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GOVT. COLLEGE FOR WOMEN.

KUMBAKONAM

Teaching plan 2022 - 2023 Even Semester

Name of the staff: Dr. G. Priya

CORE COURSE V - BIOCHEMISTRY

THEORY HOURS PRACTICAL HOURS: EXAM HOURS	5 3	COURSE CODE CREDITS MARKS	: P21ZC205 5 : ESE-75/CIA-25

UNIT - V

Enzymes -Nomenclature and classification, chemical nature and properties of enzyme, factors affecting enzyme activity, Active site, Enzyme inhibition, Enzyme specificity, Mechanism of enzyme action-MichaelisMenten Hypothesis.Regulation of enzyme activity, Non protein enzymes -coenzymes and Iso

enzyme. Hormones: Biochem		on.		
Portions to be completed	Tentative Schedule	Teaching methodology to be applied	Learning strategies	Assessment
UNIT - V Enzymes -Nomenclature and classification	December IV week	Lecture	Notes writing	Assignment
chemical nature	January I week	Lecture	Notes writing	Test
properties of enzyme	January II week	Lecture	Notes writing	Test
factors affecting enzyme activity	January III week	Lecture	Notes writing	Test
Active site	January IV week	Lecture	Notes writing	Test
Enzyme inhibition	February I week	Powerpoint presentation	Disscussion	Test
Enzyme specificity	February II week	Powerpoint presentation	Disscussion	Test
Mechanism of enzyme action	February III week	Lecture	Notes writing	Test
MichaelisMenten Hypothesis	February IV week	Youtube videos http://youtube.com@studysmartly 8096	Discussion	-
egulation of enzyme activity	March I week	Lecture	Notes writing	Test
on proteinenzymes	March II week	Seminar	Discussion	Seminar presentation skill
penzymes and Iso enzyme	March III week	Lecture	Notes writing	Test
ormones: Biochemical classification	March IV week	Lecture	Assignment	Assignment
vision	April I week	Discussion	Discussion	Test
ass Test	April II week	Test	Test	Test

Staff Incharge

Co-ordinator

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

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GOVT. COLLEGE FOR WOMEN.

KUMBAKONAM

EXTRA DISCIPLINARY COURSE (EDC)

DIET FOR HEALTHY LIFE

THEORY HOURS 2 PRACTICAL HOURS: EXAM HOURS 3	COURSE CODE CREDITS MARKS	: P21Z2EDC 2 : ESE-75/CIA-25
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UNIT-III

Role of different kinds of food materials on health Vegetables and fruits in diet, Different kinds of fats/oils (Animal fat, Vegetable fat, visible and nutritive fats, Vanaspati), Salt intake, Sugars, Whole grains ,Water & Beverages Milk & Soft drinks, Tea, Coffee, Energy drinks, Tender coconut water, Alcohol.

UNIT-IV

Best practices for storage-Handling of Perishable foods-Dairy, Fresh fruits and Vegetables, egg, Non vegetarian foods, Personal hygiene, Removal or reduction of pesticides-washing, balancing, peeling, cooling, Beware of adulterants-common adulterant

Unit-V

Healthy cooking practices, pre cooling preparation, washing and cutting of raw food, Cooling methods, Diet and weight management, foods, Tips to reduce body weight –Naturopathy

Portions to be completed	Tentative Schedule	Teaching methodology to be applied	Learning strategies	Assessm ent
Role of different kinds of food materials on health. Vegetables and fruits in diet	December IV week	Lecture	Notes writing	Assignm ent
Different kinds of fat and oils	January I week	Lecture	Notes writing	Assignm ent
Sugars, Whole grains Water &Beverages	January II week	Lecture	Notes writing	Assignm ent
Milk & Soft drinks, Tea, Coffee, Energy drinks, Tender coconut water, Alcohol.	January III week	Lecture	Notes writing	Assignm
Best practices for storage- Handling of Perishablefoods-Dairy, Fresh fruits and Vegetables,egg, Non vegetarian foods	January IV week	Lecture	Notes writing	Assignment
Personal hygiene	February I week	Powerpoint present ation	Disscussion	Test
Removal or reduction of pesticides-washing, balancing, peeling, cooling	February II week	Lecture	Notes writing	Test
Beware of adulterants-common adulterants.	February III week	Lecture	Notes writing	Test
ealthy cooking practices ore cooling preparation, ashing and cutting of raw food, oolingmethods	February IV week	Youtube videos http://nutri tionfact s.org/s ubscrib e/	Discussion	Discus si n
et and weight management lealthy foods, ps to reduce body eight	March I week	Powerpoint present ation	Disscussion	Test
aturopathy	March II week	Powerpoint present ation	Disscussion	Test

Staff Incharge

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GOVT. COLLEGE FOR WOMEN

MANUFAKONAM,

CORE COURSE XIII - ECOLOGY AND ETHOLOGY

THEORY HOURS COURSE CODE : P21ZC413 PRACTICAL HOURS: **CREDITS** 5 **EXAM HOURS** 3 **MARKS** : ESE-75/CIA-25

UNIT-V

Animal behaviour: Feeding and Anti predator behaviour, Aggressive behaviour, Sexualbehaviour and Selection, Family and group behaviour, Dominance behaviour. Animal Communication: Visual, Olfactory, Auditory, Tactile and Chemicals.

Portions to be completed	Tentative Schedule	Teaching methodolog to be applied	y Learning strategies	Assessment
Feeding behaviour	January I week	Lecture	Notes writing	g Test
Anti predator behaviour	January II week	Lecture	Notes writing	Test
Aggressive behaviour	January III week	Lecture	Notes writing	Test
Sexualbehaviour	January IV week	Lecture	Notes writing	Test
Selection	February I week	Lecture	Notes writing	Test
Family behaviour	February II week	Powerpoint presentation	Discussion	Test
group behaviour	February III week	Powerpoint presentation	Discussion	Test
Dominance behaviour	February IV week	Lecture	Notes writing	Test
Visual Communication	March I week	Youtube videos https://t.me/dadhic hhelpline	Discussion	Test
Olfactory Communication	March II week	https://t.me/dadhic hhelpline	Discussion	Test
Auditory Communication	March III week	https://t.me/dadhic hhelpline	Discussion	Test
actile Communication	March IV week	https://t.me/dadhic hhelpline	Discussion	Test
Chemicals Communication	April I week	https://t.me/dadhic hhelpline	Discussion	Test
evision	April II week		Group discussion	Group discussion
	April III week onwards		-	-

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HOD of Zoology

GOVT. COLLEGE FOR WOMEN.

KUMBAKONAM

Core Course -III - CHORDATA

Course Code : U20ZC203 Theory Hours: 6

Credits 6 Exam Hours: 3 Practical Hours

:100 Marks

UNIT - I

Sub Phylum: Prochordata - General characters and classification up to order level

suitable examples.

Detailed Study: Amphioxus (Exclusive of endoskeleteon).

General Topic: 1. Origin of Chordates.

2. Retrogressive metamorphosis in ascidians.

UNIT - II

Class: Pisces and Amphibia: General characters and classification up to order level

with suitable examples. Detailed study: Scoliodon

Portions to be completed	Tentative Schedule	Teaching methodology to be applied	Learning strategies	Assessment
Prochordata - General	January I week	Lecture	Notes writing	Test
Amphioxus-External structure	January II week	Youtube videos http://www.youtube.co m/@tponder7	Disscussion	Disscussion
Digestive system	January III week	Lecture	Notes writing	Test
Endoskeleton system	January IV	Powerpoint presentation	Disscussion	Test
Digestive system	week February I week	Lecture	Notes writing	Test
Circulatory system	February II week	Lecture	Notes writing	Test
Excretion&reproduction	February III week	Lecture	Notes writing	Test
Origin of Chordates	February IV week	Lecture	Notes writing	Test
Retrogressive metamorphosis in	March I week	Powerpoint presentation	Disscussion	Test
ascidians Pisces and Amphibia: General characters and	March II week	Lecture	Notes writing	Test
classification Scoliodon- External	March III week	Lecture	Notes writing	Test
structure Digestive system&Circulatory	March IV week	Lecture	Notes writing	Test
system Reproductive system	April I week	Powerpoint presentation	Disscussion	Test
Endoskeletal system	April II week	Seminar	Group discussion	Presentation skill
Excretory system	April III week	Lecture	Notes writing Notes writing	Test Test
Continuation	April IV week	Lecture	Notes writing	1000

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ordinator Internal Quality Assurance Cell (IQAC)

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