I - BCA Batch: 2023 - 26

			SEMESTER	– II						
S.	0				riod	s	0	Max	k. Marks	i
No	Course Code	Course Title	Category	L	Т	Р	Credits	CAM	ESM	Total
Theo										
1	A23TAT202C /							25	75	100
	A23TAT202C7 A23FRT202C	TAMIL II / FRENCH - II	MIL	3	0	0	3			
2	A23GET202C	GENERAL ENGLISH - II	ENG	3	0	0	3	25	75	100
3	A23CPT203C	FUNDAMENTALS OF INFORMATION TECHNOLOGY	DSC	4	0	0	4	25	75	100
4	A23CPT204C	DATA STRUCTURE AND ALGORITHMS	DSC	4	0	0	4	25	75	100
5	A23MAD205C	DISCRETE MATHEMATICS	IDC	3	1	0	4	25	75	100
Prac	tical				_	_				1
6	A23CPL203C	FUNDAMENTALS OF IT LAB	DSC	0	0	4	2	50	50	100
7	A23CPL204C	DATA STRUCTURES LAB	DSC	0	0	4	2	50	50	100
Skill	Enhancement Co	ourse								
8	A23ENSA01C	Communication Skills	SEC	0	0	4	2	100	0	100
Abilit	y Enhancement	Course								
9	A23AETA02C	ENVIRONMENTAL STUDIES	AEC	0	0	2	1	100	0	100
Exte	nsion Activities			ı						,
10	A23EAS201C		EA	0	0	2	0	100	0	100
Emp	loyment Enhance	ement Course							1	
11	A23CAC202D	Databases	EEC	0	0	4	0	100	0	100
							25	625	475	1100

Department	TAM		Program			B.411	-1.6		-			
Semester	SECO	ND	Course		··	i	,	ester Exam Type: Ti				
Course Code	A23T	AT202C	Perio L	ds/Wee	ek P	Credit C	CAM	ximumM ESE	arks TM			
Course Name	TAM	IL — II	3	0	0	3	25	75	100			
(Common to B	.A, B.S	c., BBA., B.COM., BCA., B.COM CS.,)									
Prerequisite				 பின்றிரு	 க்க வேண்	ாடும்.	<u>i</u>	i				
	•	செவ்விலக்கிய தன்மை கொண்ட தமிழ்	மொழியின்	 சிறப்பி எ	னை எடு <u>த்</u>	 துரைப்பதாக		 திட்டம்				
		அமைக்கப்பட்டுள்ளது.		•	•	•						
Course	•	இரண்டாயிரம் ஆண்டுகாலத் தமிழின் பெண்பாட்டையும் எடுத்துரைப்பதாக இப்ப	-	•	,		விழுமியங்க	ளையும்				
Objectives	 தமிழ் இலக்கியம் உள்ளடக்கத்திலும், வடிவத்திலும் பெற்றமாற்றங்கள், அதன் சிந்தனைகள், அடையாளங்க ஆகியவற்றைக் காலந்தோறும் எழுதப்பட்ட இக்கியங்களின் வழியாகக் கூறுவதற்கு இப்பாடத்திட்டம் அமைக்கப்பட்டுள்ளது. 											
	•	வாழ்வியல் சிந்தனைகள், ஒழுக்கவியல்	் கோட்பாடு	கள், சம	 ்க்துவம்,	சூழலியல் எ	னப் பல க	கூறுகளை				
					-			9				
	•	மாணவர்களுக்கு எடுத்துரைக்கும் விதத்தில் இப்பாடத்திட்டம் உருவாக்கப்பட்டுள்ளது. • சிந்தனை ஆற்றலைப் பெருக்குவதற்குத் தாய்மொழியின் பங்களிப்பினை உணர்த்த இப்பாடத்திட்டம்										
		அமைக்கப்பட்டுள்ளது.						n= :				
	On co	ompletion of the course, the stude	nts will b	e able t	:0				lapping est Leve			
	CO1	இலக்கியங்கள் உணர்த்தும் வாழ்விய	 Iல் நெறிமு	 றைகளை	ாப் பேணி	நடத்தல்.			K3			
Course	CO2	நமது எண்ணத்தை வெளிப்படுத்தும்	கருவியாகத்	 தாய்பெ	 மாழியைட்	பயன்படுத்த	 புதல்.		К3			
Outcome	CO3	தகவல் தெடர்புக்குத் தாய்மொழியின்							K2			
	CO4	தாய்மொழியின் சிறப்பை அறிதல்.							К3			
	CO5	இலக்கிய இன்பங்களை நுகரும் திறன்	களை வள	ர்த்தல்.					К3			
UNIT-I	காப்பிய					Periods: 09						
பெரியபுராணம் கம்பராமாயணம் தேம்பாவணி	- இளை - கும்பக - பாலம - மழைப	கறை புக்ககாதை—மதுமலர்க் கூந்தல்(யான்குடிமாறநாயனார்புராணம் - உள்ளம் கர்ணவதைப்படலம் - உறங்குகின்ற கும் ரட்சிப்படலம் - ஊட்டினார்அருள்(229 ப பழைப்பித்தப் படலம் - வேயினை முநித் சண் கீழ்க்கணக்கு நூல்கள்	் அன்புகொ பகன்ன… (பாடல் மட்டு	ரண்டு…((45ஆவத }ம்)	17ஆவது புபாடல் ப	பாடல்மட்டும் நட்டும்)) மட்டும்)		CO1			
	-	றிதல் (48),நெஞ்சொடுகிளத்தல் (125)							CO			
•	_	பெறல்(பாடல் எண்:34)										
	• •	து காய்க்கும்(பாடல் எண்:22)										
		வாய்ச் சிறுநீரை(பாடல் எண்:38) ளை கண்மலர்போல் பூத்தன(பாடல் எ	ண்:34)									
	_	ினுளெஞ்சிய (பாடல் எண்:2)	, , , , , , , , , , , , , , , , , , ,									
UNIT-III		இலக்கியம் - எட்டுத்தொகை				Periods: 09)					
		எண்:44் - தோழி கூற்று எண்:224 - தலைவி கூற்று							CO.			
JOF F		எண்:284 - தலைவன் கூற்று							COS			
• •		எண்:145 - செவிலி கூற்று										
		எண்:102 - ஒளவையார்										
பரிபாடல் UNIT-IV		எண்:3 - திருமால் வாழ்த்து (1-11வரிக	5ள்)			Periods: 09	<u> </u>					
	பத்துப் - வார்	பாட்டு 1யும் வடித்தும்முதல் பெருந்தகு பாடின	ரி வரை <i>(2:</i>	 5-47)	<u> </u>	renous. 03			CO			
		பந்தனை அவரைமுதல் வென்றிவேலூர்			64-173)							
		ட்ட ர்வையாத்த…முதல் பதம் மிகப் பருகுவீ	-		-							
தறிஞ்சிப்பாட்ட <u>ு</u>		ணல் நெடுங்கோடு…முதல் சிவந்தகண்டே										
்துரைக்காஞ்சி												
நெடுநல்வாடை												
UNIT-V	(North	U U I I I I I I I I I I I I I I I I I I				Daviada, 00	1					
பாட்ட !.முதல், கரு, உர்						Periods: 09						

இலக்கிய வரலாறு

காப்பியம், அறஇலக்கியம், சங்க இலக்கியம் குறித்தப் பாடப்பகுதியை ஒட்டிய இலக்கிய வரலாறு.

Lecture Periods: 45 Tutorial Periods:- Practical Periods:- TotalPeriods:45

Text Books

- 1. **சிவகுமார்,எஸ்., -கொங்குதேர்வாழ்க்கை,** பாடல் தொகுப்பு நூல் தொகுதி -1, யுனைடெட் ரைட்டர்ஸ்,சென்னை -86. முதற்பதிப்பு.2003.
- 2. **சாமிநாதையர் டாக்டர் உ.வே. குறுந்தொகை மூலமும் உரையும்,** டாக்டர் உ.வே.சாமிநாதையர் நூல் நிலையம், வெளியீட்டெண்: 277,பெசன்ட் நகர், சென்னை— 600 090.எட்டாம் பதிப்பு— 2020.
- 3. **வேங்கடராமன், வித்துவான்.ஹெச். (பதி.) நற்றிணை மூலமும் உரையும்,**டாக்டர்உ.வே.சாமிநாதையர் நூல் நிலையம், வெளியீட்டெண்: 277,பெசன்ட் நகர்,சென்னை— 600 090. எட்டாம் பதிப்பு— 2020.
- 4. **திருவள்ளுவர்- சேயோன் டாக்டர் திருக்குறன்,**மயிலைத் திருவள்ளுவர்தமிழ்ச் சங்கம்,184,பிராட்வே,சென்னை 600 108
- **5. வேங்கடசாமிநாட்டார்,ந.மு., கார்நாற்பது,களவழிநாற்பது –**சாரதாபதிப்பகம்,சாந்திஅடுக்ககம், ஸ்ரீகிருஷ்ணபுரம் தெரு, இராயப்பேட்டை,சென்னை -14. முதற்பதிப்பு: 2005.

Reference Books

- 1. **சிற்பிபாலசுப்பிரமணியம் மற்றும் நீலபத்மநாபன் (ப.ஆசி.) –புதியதமிழ் இலக்கியவரலாறு, தொகுதி-1,2,3,** சாகித்திய அகாதெமி, புதுடெல்லி, 2013.
- 2. **பாக்கியமேரி, வகைமை நோக்கில் தமிழ் இலக்கிய வரலாறு (செம்மை மற்றும் விரிவுப் பதிப்பு),** பாரிநிலையம். சென்னை,
- 3. ஆ**னந்தன். சு. முனைவர்., தமிழ் இலக்கியவரலாறு,**கண்மணிபதீப்பகம், திருச்சி-2. இருபத்தி மூன்றாம் பதிப்பு— 2015.
- **4. பரந்தாமனார்,அ.கி.,நல்லதமிழ் எழுதவேண்டுமா,**பாரிநிலையம்,சென்னை, 1998.
- **5. சம்பத், இரா., (பதி) -தொல்காப்பியக் கவிதையியல் வடிவம்-பாடுபொருள்-உத்தி-வகைமை,**புதுச்சேரிமொழியியல் பண்பாட்டுஆராய்ச்சிநிறுவனம், புதுச்சேரி-605 001. (முதற்பதிப்பு—அக்டோபர் 2015.

Web References

- 1. http://www.tamilvu.org
- 2. http://www.tamilweb.com
- 3. http://www.tamilkodal.com
- 4. www.store.tamillexican.com
- 5. www.kala.tamilforu.blogspot.com
- 6. www.noolagam.com

COs/POs/PSOs Mapping

Cos		Prograi	m Outcome	es (POs)	Program Specific Outcomes (PSOs)				
Cos	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO 3	
1	3	3	3	3	3	3	3	3	
2	3	3	3	3	3	3	3	3	
3	3	2	3	3	2	3	3	3	
4	2	3	2	3	2	2	3	2	
5	3	2	3	2	3	3	3	3	

_		Contir	End Semester	Total				
Assessment	CAT 1	CAT 2	Model Exam	Assignment*	Attendance	Examination (ESE) Marks	Marks	
Marks	10		10 5 5 5		5	75	100	

^{*} Application oriented / Problem solving / Design / Analytical in content beyond the syllabus

^{*} TE - Theory Exam, LE - Lab Exam

Department	Fren			Progran							
Semester	SECO	ND		Course			: MIL	*En	d Semest		
Course Code	A23F	RT2020	:	}	ds/We	1		dit		ximumM	·
Course Name	FRF	NCH II		1 3	T 0	P 0	(3	25	ESE 75	TM 10 0
			P COM PCA P COM CS							,,,	
Prerequisite	Frenc		B.COM., BCA., B.COM CS.,	<u> </u>						<u> </u>	
Trerequisite	•		duce the basics of French la	anguage i	o the st	udents					
	•		ole the students to read, und				conto	2000			
	•		them to learn the fundamer			······	5 3611161	1003			
Course	•	······································	e the students to formulate			amma					
Objectives	•		duce them French and Fran	······································		es and t	heir cu	ltures			
			n of the course, the stude					itui 00		BT N	lapping
										(High	est Lev
_	CO1	Have a	general understanding of the	ne langua	ge						К3
Course	CO2	Analyz	e and interpret simple phras	es writter	in Frer	nch					К3
Outcome	CO3	Have t	ne basics of French gramma	ar							K2
	CO4	Commu	nicate and ask basic questic	ns in Fre	nch lan	guage					К3
	CO5	Appred	iate the diversity and multip	licity of Fr	ench ar	nd Fran	cophon	e wor	rld		К3
UNIT-I		<u> </u>					Perio		•••••	i	
UNIT-II Découvrir I Les verbes Si vous gags Le futur sim es superlatifs. UNIT-III Parasol ou Le climat en Quand il est	oronom nez, vo ple parapl France	ninaux ous ferez uie e.	ec l'open tour. quoi?				Period Period				cc
. L'emploi du	temps:	métro, b	oulot, restau.								
Parler du temps	qu'il fa	it.									
. Vous allez v	ivro à l	Paris?					Perio	as: 09)		
Les régions L'avenir du f La place des	de Fra rançais s adjec	nce s.									CC
UNIT-V							Perio	ds: 09)		
. J'ai fait mes 2. Retour des A 3. Raconter se 4. Au voleur! A 4.es journaux en	Antilles s vaca u voleu	nces. ur!									СО
Lecture Period			Tutorial Periods:-	Practica	l Perio	ds:-		T	otalPerio	ds:45	
Text Books											
1. Sylvie P Leçon-2 Reference Bool	4) (p.7		and Michèle Maheo, Festiv	al 1 Méth	ode de	França	ais, CLI	E edit	tions, 200	9 (Leçon-	-13 to

- 1. Régine Mérieux and Yves Loiseau, Latitudes 1, Didier editions, 2017
- 2. Annie Berthet and Emmanuelle Daili, *Alter Ego + A1*, Hachette editions, 2012

Bruno Giradeau, Réussir le Delf A1, Didier editions, 2019

Web References

- 1. https://www.tv5monde.com
- 2. https://www.rfi.fr
- 3. https://www.lemonde.fr
- 4. https://www.frenchpodcasts.com
- 5. https://www.coursera.org

* TE – Theory Exam, LE – Lab Exam

COs/POs/PSOs Mapping

60-		Progra	m Outcom	es (PO)		Program Specific Outcomes (PSOs)					
COs	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3			
1	3	3	3	3	3	1	2	3			
2	3	3	3 3		3	1	2	3			
3	3	3	3	3 3		1	2	3			
4	2	3	3	3	3	1	2	3			
5	1 2		1	1	1	1	2	3			

		Conti	nuous Assessi	M)	End		
Assessment	CAT 1	CAT 2	Model Exam	Assignment*	Attendance	Semester Examination (ESE) Marks	Total Marks
Marks	1	0	5	5	5	75	100

^{*} Application oriented / Problem solving / Design / Analytical in content beyond the syllabus

Department	ENG	ilish			Prog	ramme	: BCA					
Semester	Seco	ond			ENG		gory Coo	le: End Se	mester	Exam T	ype: TE	
Course Code	A23	GET201C				Periods T	/ Week	Credit	 	laximun	7	
Course Name	GEN	IERAL ENG	GUSH - II		L	0	P 0	C	25	ESE 75	100	
(Common to B.A,										,,,	100	
Prerequisite	y			and knowled	ge gained fro	m Gra	mmar an	d Compo	sition			
	Tot	rain stude	ents to iden	tify poetic fo	rms and issu	es relat	ed to cor	ntexts				
Course	To e	nable the	student in	the skill of re	eading for ide	as						
Objectives	Тое	nable the	students to	o enjoy the lit	terature thro	ugh th	e work of	great wr	iter			
	To introduce drama as a social product and a literary form											
	To h	ione com	position ski	lls in student	S							
	On co	ompletion	of the cou	rse, the stude	ents will be o	ble to					apping st Level	
	CO1			iscuss the va		of selec	ted poen	ns		ŀ	(3	
Course	CO2			ize the prose						ŀ	(3	
Outcomes	CO3	illustrat experie		eflections and	d instances ir	short	stories w	ith persoi	nal	ŀ	К3	
	CO4	develor prescribe		oreciation ba	sed on the u	ndersta	inding of	the		ŀ	(3	
	CO5	enhanc	e the writin	g skills for sp	ecific purpos	es				ŀ	(3	
UNIT-I	POI	ETRY						Period	s: 09			
I. Nissim Ezeki												
2. Sarojini Naid											CO1	
3. Walt Whitm 4. William Blak		-	iviy Captain									
5. Rabindranat		_	er Boat									
UNIT-II	PRO							Period	s: 09		.i	
I. Jawaharlal N	lehru -	- A Tryst I	With Destin	y							CO2	
2. Martin Luth	_	•										
3. Swami Vivek				Parliament oj	f Religion Chi	cago						
UNIT-III		ORT STO						Period	s: 09		T = -	
I. Arthur Cano	•			emia							CO3	
2. Stephen Cra UNIT-IV		ne Open AMA	Boat					Periods	·· 00			
								Perious	s. U3		CO4	
 Cedric Mour Fritz Karinth 			ever Never	Nest							CO4	
UNIT-V	GR/	AMMAR A	AND COMP	OSITION				Period	s: 09			
L. Cause and E	ffect A	nalysis									CO.	
2. Note Making	3										CO5	
3. Picture Com	•	nsion										
1. Sentence Pa		L:										
5. Sentence Pu	nctuat	tion										
Lecture Period	s: 45	•	Tutorial Per	iods: 0	Prac	tical Pe	riods: -	Tota	l Period	ls: 45		

- 1. Pegasus, Scandal in Bohemia & Other Stories, B Jain Publisher, 2016.
- 2. Stephen Crane, The Open Boat and Other Stories, Createspace Independent Publisher, 2017.
- 3. Wren & Martin, Primary School English Grammar and Composition, Generics Publication, 2023.

- 1. Anjli Sehrawat, Mother's Day: Bhagat Phoolsingh Women's University, Notion Press Publication, 2022.
- 2. Martin Luther, Heming Daoudi, Martin Luther King's I have a dream speech, Kindle Edition, 2020.
- 3. Stephen Crane, *The Open Boat Stephen Crane*, Createspace Independent Publication, 2013.
- 4. Rabindranath Tagore, William Radice, Selected Poems: Rabindranath Tagore, Penguin Publication, 2000.
- 5. Swami Tapasyananda, Swami Vivekananda his life and Legacy, Ramakrishna Math Publication, 2008.

Web References

- 1. https://allpoetry.com/Minority-Poem
- 2. http://www.sourcecodeonline.com/list?q=the_never_never_nest_author_cedric_mount
- 3. https://www.cam.ac.uk/files/a-tryst-with-destiny/index.html
- 4. https://poets.org/poem/tyger
- 5. https://www.poetryfoundation.org/poems/45474/o-captain-my-captain

COs/POs/PSOs Mapping

COs		Prograi	n Outcome	es (POs)	Program Specific Outcomes (PSOs)					
COS	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3		
1	3	2	3	2	3	3	3	3		
2	2	3	3	3	2	2	2	2		
3	3	2	2	3	1	3	2	3		
4	2	3	3	2	1	2	3	2		
5	3	3	3	3	3	2	2	3		

Correlation Level

High	Moderate	Low
3	2	1

_		Cor	ntinuous Ass	End Semester	Total		
Assessment	CAT 1	CAT 2	Model Exam	Assignment*	Attendance	Examination (ESE) Marks	Marks
Marks	1	.0	5	5	5	75	100

^{*} Application oriented / Problem solving / Design / Analytical in content beyond the syllabus

Department	t Computational Studies Programme: BCA											
Semester	SECOI	ND	Course Category Code: DSC *End Semester Exam Type: L									
Course Code	A23CP	T203C	Per	iods / V	Veek		Cred	lit	Maxi	imum N	1arks	
Course coue			L	Т	F)	С	C	AM	ESE	TM	
Course Name		AMENTALS OF RMATION TECHNOLOGY	4	0		0	4	1	25	75	100	
(Common to B.S	c (CS) & I	BCA)										
Prerequisite	Basic	knowledge about information	Techno	logy								
Course Objectives	ToToTo	o provide an in-depth understar o explain purpose and types of o be familiar with Telecommuni o understand the Electronic Co o understand the E-governance	Data Recations	esource and Co	Man mput	age	ment.		epts.			
	After th	e completion of this course, the st	tudents v	vill be ab	ble to	:				i	lapping	
Course	Demonstrate their conceptual understanding and component of Modern										est Level) K2	
Outcome	CO2	Appreciate the purpose and t	types of	Data R	esou	rce I	Manag	ement.			К3	
	соз	Develop skills and ability to v Networks	vork with	n Teleco	omm	unica	ations	and Co	mpute	r	К3	
	CO4	Demonstrate their ability in Systems.	conce	ots rela	ted t	o E	lectron	ic Cor	nmerce)	K4	
	CO5	Understand the importance of	of E-gov	ernance	9						K4	
UNIT-I		ERN COMPUTER SYSTEMS						ds: 12				
Optical Scanning	- Video s - Progra	ut, Output and Storage techi Output - Word Processing - amming Language. RESOURCE MANAGEMENT	-			-	Syste		-		201	
1	• • •	es of DBMS, Application of DB Centers. Storage Technologie		ncept o	of Dat	ta W	'arehoi	uses ar	nd Data	•	02	
UNIT-III	TELEC	OMMUNICATIONS AND COM	PUTER	NETWO	RKS		Perio	ds: 12				
		tages of Network Environme				of Ir			net and	d		
1	/3.0/4.0/5	5.0, Distributed/Cloud/Grid Con								1	03	
UNIT-IV	ELECT	RONIC COMMERCE SYSTEMS					Perio	ds: 12				
Introduction to e-0		ce and M-Commerce, Advant rnet Banking and Online Shopp	-			-	s. Coi	ncept o	of B2B	, (04	
UNIT-V	E-GO\	/ERNANCE					Perio	ds: 12				
Concept of e-gov	ernance,	Technologies for e-governar	nce, e-	govern	ance	as	an ef	fective	tool to)		
manage the coun governance persp	•	ens and resources, Advantaç India.	ges and	Disad	vanta	ige (of E-go	overna	nce, E	- 0	CO5	
Lecture Periods:	60	Tutorial Periods: -	Practi	cal Perio	ods:	-			Tot	al Perio	ds: 60	
Text Books												
1	•	oduction to Computers, Tata N			-\ D	.4 I 4.	J					
1		duction to Computers, John Wi 3 (2009), Understanding Comp	-		,			Thomp	son Dr	200		
Reference Books	aikei US	o (2009), Uniderstanding Comp	uleis –	i ouay a	aliu I	OHIC	лтоw,	тиотпр	5011 116			
	WS (2009	9); Management Information Sy	vstem: 7	ata Mo	Grav	/ Hill						
1	•	(2009), Management Informati						Hall				

3. O'Brein, JA (2009); Introduction to Information Systems; Tata McGraw Hill

- https://crk.umn.edu/academics/math-science-and-technology-department/information-technology-management/online
- 2. https://www.igi-global.com/journal/information-technology-management/1074
- 3. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5787626/

COs/POs/PSOs Mapping

COs			Program Specific Outcomes (PSOs)						
	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3
1	3	2	3	3	2	2	2	2	3
2	3	2	2	3	3	3	2	2	2
3	2	2	2	2	3	3	3	2	2
4	3	3	2	2	2	2	2	2	3
5	2	3	2	2	3	3	3	3	3

Correlation Level: 1 - Low, 2 - Medium, 3 - High

		Conti	End				
Assessment	CAT CAT Model Assignment* Attendan					Semester Examination (ESE) Marks	Total Marks
Marks	1	.0	5	5	5	75	100

^{*} Application oriented / Problem solving / Design / Analytical in content beyond the syllabus

^{*} TE – Theory Exam, LE – Lab Exam

	Comp	outational Studies	Progran	nme: E	ЗСА				
Semester	SECO	ND	Course Category Code: SEC *End Semester Exam T						ype: Ti
Course Code	V33C	PT204C	Perio	ds / We	eek	Credit	Ma	ximum M	arks
		112040	L	Т	Р	С	CAM	ESE	TM
Course Name	DATA	STRUCTURES AND ALGORITHMS	4	0	0	4	100	-	100
Prerequisite		nowledge in data structure							
	After	completion of the course, the student	ts will be al	ble to				BT Mapp (Highest L	_
Course	CO1	Analyze algorithms based on time a	nd space c	omplex	ity.			K2	
Outcome	tcome CO2 Implement and Apply linear data structures to solve simple problems.						K2		
0.0000	CO3 Represent and Apply Non-linear data structures to solve complex problems. K3								
	CO4	Use Graphs and Trees to solve vario	us probler	ns.				К3	
	CO5	Use Divide and Conquer Method an problems.	d Greedy t	echniqu	ies to so	olve real tim	e	К4	
UNIT-I	DATA	STRUCTURE AND ALGORITHM				Periods: 1	2		
elation – Asyn	nptotic N	Notation. Sorting – Searching				•	mplexity –		
UNIT-II		Notation. Sorting — Searching AND ADT				Periods: 1			CO1
UNIT-II Static and dyn	LIST A		List - Dou			Periods: 1	2	- Operatio	CO1
UNIT-II Static and dyn Ind Application	LIST A amic Re	AND ADT presentation – Types – Single Linked	l List - Dou			Periods: 1 - Circular Li	2 nked List –	- Operatio	CO1
UNIT-II Static and dyn Ind Application UNIT-III Static and	amic Rens. STAC Dynam Express	AND ADT presentation – Types – Single Linked KADT nic Representation – Operations – sion- Infix to Postfix conversion. Que	Application	bly Link	ed List -	Periods: 1 - Circular Li - Periods: 1 Parenthesis	2 nked List – 2 s – Evalua	ition of	cons co2
UNIT-II Static and dyn and Application UNIT-III Static and Arithmetic	amic Rens. STAC Dynam Express	AND ADT presentation – Types – Single Linked KADT nic Representation – Operations – sion- Infix to Postfix conversion. Que	Application	bly Link	ed List -	Periods: 1 - Circular Li - Periods: 1 Parenthesis	2 nked List – 2 s – Evalua sentation –	ition of	cons co2
UNIT-II Static and dyn and Application UNIT-III Static and Arithmetic queue – ci UNIT-IV Repres Application	LIST A amic Re ns. STAC Dynam Express rcular qu TREE sentation Graph	AND ADT presentation – Types – Single Linked KADT nic Representation – Operations – Sion- Infix to Postfix conversion. Queue. ADT 1 – Types – Binary Tree – Threade: Representation – Types – Graph T	Application eue ADT: S ed Binary ⁻ raversal –	bly Link ns- Bala Static ar	ed List - ancing nd dyna inary So	Periods: 1 Periods: 1 Parenthesis mic Repres Periods: 1 earch Tree	2 nked List - 2 - Evaluation - 2 - Operation	ition of Linear on and	cos
UNIT-II Static and dyn nd Application UNIT-III Static and Arithmetic queue – ci UNIT-IV Repres Application Application	LIST A amic Re ns. STAC Dynam Express rcular qu TREE sentation n. Graph	AND ADT presentation – Types – Single Linked KADT nic Representation – Operations – sion- Infix to Postfix conversion. Quelleue. ADT 1 – Types – Binary Tree – Threade	Application eue ADT: S ed Binary ⁻ raversal –	bly Link ns- Bala Static ar	ed List - ancing nd dyna inary So	Periods: 1 Periods: 1 Parenthesis mic Repres Periods: 1 earch Tree	nked List – 2 E - Evaluation – 2 Operation – Other Control O	ition of Linear on and	cos
UNIT-II Static and dyn and Application UNIT-III Static and Arithmetic queue – ci UNIT-IV Repres Application Application UNIT-V Divide and	amic Rens. STAC Dynam Express rcular qu TREE sentation Graph H Minir ALGO	AND ADT presentation – Types – Single Linked KADT nic Representation – Operations – sion- Infix to Postfix conversion. Queue. ADT 1 – Types – Binary Tree – Threade: Representation – Types – Graph Tonum cost spanning tree – Topological RITHM DESIGN TECHNIQUES er – General method – Finding Min	Application eue ADT: Seed Binary raversal – Il Sorting.	bly Link ns- Bala Static ar Tree -B Depth F	ed List - ancing nd dyna inary So irst Sea	Periods: 1 Periods: 1 Parenthesis mic Repres Periods: 1 earch Tree arch – Breac Periods: 1	2 nked List - 2	tion of Linear on and earch –	coa coa
UNIT-II Static and dyn and Application UNIT-III Static and Arithmetic queue – ci UNIT-IV Repres Application Application UNIT-V Divide and	amic Rens. STAC Dynam Express rcular qu TREE sentation Graph H Minim ALGO Conque	AND ADT presentation – Types – Single Linked KADT nic Representation – Operations – Sion- Infix to Postfix conversion. Queue. ADT 1 – Types – Binary Tree – Threade 1: Representation – Types – Graph Toum cost spanning tree – Topologica RITHM DESIGN TECHNIQUES	Application eue ADT: Seed Binary raversal – Il Sorting.	bly Link ns- Bala Static ar Tree -B Depth F	ed List - ancing and dyna inary So irst Sea	Periods: 1 Periods: 1 Parenthesis mic Repres Periods: 1 earch Tree arch – Breac Periods: 1 y Method: 0	2 nked List - 2	on and earch –	CO1

- Mark Allen Weiss, "Data Structures and Algorithm Analysis in C++", 4th Edition, Pearson Education, 2013.
 E. Horowitz, S. Sahni and S. Rajasekaran, "Computer Algorithms/C++", 2rd Edition, The Orient Blackswan,
- 3. A Puntambekar, "Data Structures", Third Revised Edition, Technical Publications Pune, 200

- 1. ReemaThareja, "Data Structures Using C",1st Edition, Oxford University Press, 2017.
- 2. Gilles Brassard, "Fundamentals of Algorithms", Pearson Education, 2015.
- 3. Alfred V. Aho, John E. Hopcroft, Jeffrey D. Ullman, "Data Structures and Algorithms", Pearson Education, Reprint, 2006.
- 4. Ellis Horowitz, Sartaj Sahni, Susan Anderson-Freed, "Fundamentals of Data Structures in C", 2rd Edition, University Press, 2008

Department	MATHEMATICS	Progran	nme: B (CA				
Semester	Second	Course	Catego	ry Code	: I DC *End	Semester	Exam Typ	e: TE
Course Code	A23MAD205C	Perio	ds / W	eek	Credit	Max	ximum Ma	rks
		L	Т	Р	С	CAM	ESE	TM
Course Name	DISCRETE MATHEMATICS	3	1	0	4	25	75	100
(Common to B.S	Sc. (CS) and BCA Branches)							
Prerequisite	Basic Mathematics Knowledge.							
	To understand the concepts of Logical opera	tions and Pre	epositio	ns.				
0	To familiarize the concept of set theory and t							
Course Objectives	To understand the basic concepts of function	S.						
Objectives	To familiarize the applications of algebraic str	ructures.						
	To understand the concepts and significance	of Graph the	ory.					
	On completion of the course, the stud	dents will b	e able	to			BT Ma	pping
							(Highes	<i>.</i>
	CO1 Acquire the knowledge about the	concepts ne	eded to	test the	logic of a p	rogram.	K	2
	CO2 Understand to identifying the sets	and relation	ıs.				K	3
Course Outcome	CO3 Understand to identifying the func	tions and al	gorithm	-			K	3
Outcome	CO4 Apply the concept of algebraic and	d groups.					K	3
	CO5 Understand the basic concepts of	graph theor	y and p	aths.			K	3
UNIT-I	PROPOSITIONAL CALCULUS				Periods: 1	2	L	
Propositional ca	alculus: Propositions and compound propo	sitions, con	nective	s, Logica	al operations	s - Propos	itions	
•	s, Tautologies and contradictions, Logical			-	•			CO1
Bi-conditional st	tatements.							
UNIT-II	SET THEORY				Periods: 1	2		
Set Theory: Set	ts Basic concepts, notation, inclusion and	l equality of	sets -	Power s	et, set oper	ations – F	Relations -	CO2
composition of r	elations, Equivalence relations, partial ord	der relation.						
UNIT-III	FUNCTIONS				Periods: 1	2		
- -unctions: one-	to-one, onto and invertible functions – Co	mposition o	f functi	on - Mat	hematical fu	ınctions,		
Exponential and	d Logarithmic functions.							CO3
UNIT-IV	ALGEBRAIC STRUCTURES				Periods: 1	2		
Semi groups - r	monoids - Groups – Subgroups – Normal	Subgroup -	cosets	– Lagra	ange's theor	em – Cyc	lic Group	- CO4
Group Homomo	orphism's.							
UNIT-V	GRAPH THEORY				Periods: 1	2		
Graphs and gra	ph models – Graph terminology and spe	cial types o	f graph	s – Mat	rix represen	tation of	graphs an	d CO5
	ism – Connectivity – Euler and Hamilton ہ							
Lecture Perio	ds: 45 Tutorial Periods: 15	Practic	al Perio	ods: -	Т	otal Peric	ds: 60	
Text Books								
\	on M.K. Sridharan N. and Chandrasakarar	- NI D:		4!	Tl NI-4:	- I D I- I: - I- :		

- Venkatraman M K, Sridharan N and Chandrasekaran N, Discrete Mathematics, The National Publishing Company, 2000.
- 2. Rosen, K.H., "Discrete Mathematics and its Applications", 7 Edition, Tata McGraw Hill Pub. Co. Ltd., New Delhi, Special Indian Edition,2011.
- 3. Tremblay, J.P. and Manohar. R, "Discrete Mathematical Structures with Applications to Computer Science", Tata McGraw Hill Pub. Co. Ltd, New Delhi, 30th Reprint, 2011.
- 4. Kenneth H. Rosen, "Discrete Mathematics and its Applications", 5th Edition, Tata McGraw Hill Publishing Company, Pvt. Ltd., New Delhi, 2003.

- 1. Grimaldi.R .P."Discrete and Combinatorial Mathematics: An Applied Introduction",4th Edition, Pearson Education Asia, Delhi, 2007.
- 2. Lipschutz. S and Mark Lipson, "Discrete Mathematics", Schaum'sOutlines, Tata McGraw Hill Pub.Co. Ltd., New Delhi, 3rd Edition, 2010.
- 3. Koshy. T, "Discrete Mathematics with Applications "Elsevier Publications, 2006.
- 4. C.L. Liu, "Elements of Discrete Mathematics", 3rd Edition, Tata McGraw Hill Education Pvt. Ltd., 2008.
- Kenneth H. Rosen," Discrete Mathematics and Its Applications, Published September 9th 2002 by McGraw-Hill Science/Engineering/Math (first published April 1st 2000).

- 1. https://nptel.ac.in/courses/111/107/111107058/
- 2. https://nptel.ac.in/courses/111/104/111104026/
- 3. https://nptel.ac.in/courses/106/106/106106183/
- 4. http://www.math-cs.gordon.edu/courses/mat230/notes/graphs.pdf
- 5. https://www.cs.utexas.edu/~isil/cs311h/lecture-graph1b-6up.pdf

COs/POs/PSOs Mapping

Cos		Progra	am Outcome		Program Specific Outcomes (PSOs)			
COS	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3
1	2	2	3	3	3	2	3	1
2	3	2	3	3	1	3	3	2
3	2	2	3	3	2	2	3	1
4	2	3	2	3	3	3	2	2
5	3	3	3	2	1	3	3	1

Correlation Level: 1 - Low, 2 - Medium, 3 - High

		Conti	nuous Asse	ssment Marks (CA	AM)	End Semester	Total
Assessment	CAT 1	CAT 2	Model Exam	Assignment*	Attendance	Examination (ESE) Marks	Marks
Marks	10		5	5	5	75	100

^{*} Application oriented / Problem solving / Design / Analytical in content beyond the syllabus

^{*} TE - Theory Exam, LE - Lab Exam

Department	Compu	itational Studies								
Semester	SECON	D	Course	Categor	y Code:	DSC	*End Semeste	r Exam $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	Гуре: Lf	
			Perio	ods / We	eek	Cre	dit Max	imum Marks		
Course Code	A23CP	L203C	L	Т	Р	С	IM	ESE	TM	
Course Name	Fundaı	mentals of IT Lab	0	0	4	2	2 50	50	100	
(common to E	3.Sc (CS)	& BCA)	•		··········				•	
Prerequisite	Basic	Knowledge in C programmi	ng							
 To provide an in-depth understanding of Information Technology Cond To explain purpose and types of Data Resource Management. To be familiar with Telecommunications and Computer Networks. To understand the Electronic Commerce Systems. To understand the E-governance. 						•				
	After	After completion of the course, the students will be able to (Highest Le								
Course Outcome	CO1								(3	
	CO2	Appreciate the purpose and types of Data Resource Management.							(3	
	CO3	Develop skills and ability to work with Telecommunications and Computer Networks							(3	
	CO4	Demonstrate their ability in concepts related to Electronic Commerce Systems.							(4	
	CO5	Understand the importance	e of E-governar	nce				ı	(4	

List of Experiment

- 1. Create a News-Paper Document with at least 300 words
 - Use Margins as top:1.5, Bottom:2, Left:2, Right:1 Inches.
 - Use heading "Republic day", Font Size: 16, Font Color: Red, Font Face: Times new roman
 - Use three columns from the second paragraph onwards till the half of the page.
- 2. Create a Marklist for the student.
 - Enter the following details in a workbook: Roll No, Name, Marks of 4 subjects
 - Calculate Total Mark, Average and Result(50% mark is needed to pass)
 - Also Find Grade and Rank. (Grade A+: >=90%, A: >=80%, B+: >=70%, B: >=60%, C+:>=55%, C: >=50%, F: <50%)
- 3. Create a power-point presentation with minimum 5 slides.
 - The first slide must contain the topic of the presentation and name of the presentation.
 - Must contain at least one table.
 - Must contain at least 5 bullets, 5 numbers.
 - The body must be, font size: 24, font-face: Comic Sans MS, font-color: green.
 - Last slide must contain "thank you".
- 4. Mail merge the Data Excel Data to Word format.
- 5. Installation of Operating Systems-Windows.
- 6. Installing and uninstalling of device drivers using control panel.
- 7. Procedure of disk partition and its operation (Shrinking, Extending, Delete, Format).
- 8. Installation of application software's Office Automation.
- 9. Installation of modem and network cards in Windows
- 10. Configure Internet connection, Email Account creation, reading, writing and sending emails with attachment.
- 11. Assembly and disassembly of printer, installing a printer, taking test page, and using printer under Windows.
- 12. User Account creation and its feature on Windows Operating System and Changing resolution, color, appearances, and Changing System Date and Time.

Lecture Periods: -	Tutorial Periods: -	Practical Periods: 30	Total Periods: 30

Text Books

- 1. Norton P (2010), Introduction to Computers, Tata McGraw-Hill
- 2. Potter T (2010), Introduction to Computers, John Wiley & Sons (Asia) Pvt Ltd
- 3. Morley D & Parker CS (2009), Understanding Computers Today and Tomorrow, Thompson Press.

Reference Books

- 1. Jawadekar, WS (2009); Management Information System; Tata McGraw Hill
- 2. Mclead R & Schell G (2009), Management Information Systems; Pearson Prentice Hall
- 3. O'Brein, JA (2009); Introduction to Information Systems; Tata McGraw Hill

Web References

- https://crk.umn.edu/academics/math-science-and-technology-department/information-technology-management/online
- 2. https://www.igi-global.com/journal/information-technology-management/1074
- 3. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5787626/

*LE - Lab Exam

COs/POs/PSOs Mapping

COs		Program Outcomes (POs)						
	PO1	PO1 PO2 PO3 PO4 PO5						
1	3	2	3	3	2	2	2	2
2	2	2	2	3	2	3	2	2
3	2	2	2	2	2	3	3	2
4	3	3	2	2	2	2	2	2
5	3	2	2	2	3	3	3	3

Correlation Level: 1 - Low, 2 - Medium, 3 - High

Assessment		Internal	Marks	End Semester Examination (ESE) Marks	Total Marks
	Model Exam	Record	Attendance	50	100
Marks	30	10	10	30	100

^{*} Application oriented / Problem solving / Design / Analytical in content beyond the syllabus

Department	Comp	outational Studies	onal Studies Programme: BCA							
Semester	SECO						Semest	er Exam T	ype: TE	
Course Code	4336	PL204C	Periods / Week Cred		Cred	it	Ma	ximum M	arks	
Course Code	AZ3C	PL204C	L	Т	Р	С		CAM	ESE	TM
Course Name	DATA	STRUCTURES LAB	0	0	4	2		100	-	100
Prerequisite	Basic k	nowledge in data structure	i	.	.4				<u>i</u>	
	After	After completion of the course, the students will be able to								ing evel)
Course	CO1	Analyze the algorithm's / program complexity.	's efficiency	in term	s of tim	e and spa	асе		К2	
Outcome	CO2	Solve the given problem by identi	fying the ap	propria	te Data S	Structure	·		K2	
	CO3	Solve problems in linear and non-linear Data Structures.						К3		
	CO4	Develop programs using various searching methods.						К3		
ı	CO5	Sole the problems using Linked Lis	it.						K4	

- 1. Write a C program to implement recursive and non-recursive i) Linear search ii) Binary Search.
- 2. Write a C program to implement i) Bubble sort ii) Selection sort iii) Insertion sort iv) Shell sort v) Heap sort.
- 3. Write a C program to implement the following using an array. a) Stack ADT b) Queue ADT
- 4. Write a C program to implement list ADT to perform following operations.
 - a) Insert an element into a list.
 - b) Delete an element from list
 - c) Search for a key element in list
 - d) Count number of nodes in list.
- 5. Write a C program to implement the following using a singly linked list. a) Stack ADT b) Queue ADT.
- 6. Write a C program to implement the dequeue (double ended queue) ADT using a doubly linked list and anarray.
- 7. Write a C program to perform the following operations:
 - a) Insert an element into a binary search tree.
 - b) Delete an element from a binary search tree.
 - c) Search for a key element in a binary search tree.
- 8. Write a C program that use recursive functions to traverse the given binary tree in
 - a) Preorder
 - b) Inorder and
 - c) Postorder.
- 9. Write a C program to perform the AVL tree operations.
- 10. Write a C program to implement Graph Traversal Techniques

Lecture Periods: 30	Tutorial Periods: -	Practical Periods: -	Total Periods: 30
Poforonco Pooks			

- 1. Ellis Horowitz, SartajSahni, "Fundamentals of Data Structures", Illustrated Edition, Computer Science Press, 2018
- 2. Rohit Khurana, "Data structures using C", 1st Edition, Vikas Publishing, 2014.
- 3. S.K.Srivastava, Deepali Srivastava, "Data Structures through C in Depth" BPB Publications in the year 2011

- 1. https://www.tutorialspoint.com/data_structures_algorithms/
- 2. https://www.w3schools.in/data-structures-tutorial/intro/
- 3. https://nptel.ac.in/courses/106103069/
- 4. https://swayam.gov.in/nd1_noc20_cs70/preview

Department	ENGLISH Programme: BCA								
Semester	Second Course Category Code: End Semester								
				ods / W	eek	Credit	Maxi	mum M	larks
Course Code	A23E	ENSA01C	L	T	Р	С	CAM	-	
Course Name	СОМ	MUNICATION SKILLS	0	0	4	2	100	0	100
Prerequisite	Know	edge gained from Communication	n and New pa	per rea	ding				
	To in	nprove the skill of rapid reading a	nd communic	ate effi	ciently				
Course	To d	ecode and impart speaking skills v	vith confidenc	ce					
Objectives	To tr	ain students in analyzing articles a	and Newspap	er					
	To e	nhance the sense of social respons	sibility and ac	counta	bility of	the stude	ents		
	To ex	rpound the significance in Manage	erial skills						
	On cor	npletion of the course, the students	will be able to						apping st Leve
	CO1	understand the pattern to commi	unicate effect	ively				(Highest Lev	
Course	CO2	impart Speaking skills with self-co	nfidence					ŀ	(3
Outcomes	CO3	enhance their strategies in analyz	ing articles ar	nd New	spaper			К3	
	CO4	the sense of social responsibility a	and accountal	bility of	the stu	idents		К3	
	CO5	expertise in Managerial skills						ŀ	(3
UNIT-I		MUNICATION SKILLS - SPE	AKING			Periods	s: 0 6		
. Aspects of s	oeakin	g							
2. Process of e	ffectiv	e Speech							CO1
3. Techniques		ectual Presentation							
UNIT-II	SEL	F-MANAGEMENT SKILLS				Periods	s: 06		.,
 Time Manag 									
2. Stress Mana	_								CO2
B. Emotional M									
UNIT-III	L	MUNICATION SKILLS - REA	DING			Period	s: 0 6		T
L. Article analy									CO3
2. Comprehens									COS
3. Skimming ar UNIT-IV		IAL SKILLS				Periods	0 <i>E</i>		
L. Leadership	300	IAL SKILLS				Perious	s. 00		
2. Teamwork									CO4
B. Decision ma	king								
UNIT-V		BLIC SPEAKING AND PRESEN	TATION			Periods	s: 06		<u> </u>
_	<u>!</u>	les for Public Speaking							
	-	oth, Public Speaking and Presenta	tion)						CO5
Lecture Periods		Tutorial Periods: -		cal Peri	ods: 30) Tota	l Period	s: 30	J
Гext Books			i						
						_nd			
		rsonality Development and Soft s English Communication for you, Cher						L6.	
	יכנוועם	English communication for you, Cher	man Emeldiu P	uniisiidi	, ı culi	.1011, ZUUZ.			
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COs/POs/PSOs Mapping

COs		Progra	m Outcome	es (POs)	Program Specific Outcomes (PSOs)			
	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3
1	3	3	3	2	3	1	3	3
2	3	3	3	2	3	1	3	2
3	3	3	3	2	2	1	3	2
4	3	3	3	3	3	1	3	2
5	3	3	2	2	2	1	2	2

		Cor	ntinuous Ass	End Semester	Total		
Assessment	CAT 1	CAT 2	Model Exam	Assignment*	Attendance	Examination (ESE) Marks	Marks
Marks	80		-	10	10	-	100

^{*} Application oriented / Problem solving / Design / Analytical in content beyond the syllabus

Semester		Computational Studies Programme: BCA Course Category Code: End Semester Exam Typ AEC								
Jennester	SECO	ND	Cours AEC	se Categ	ory Cod	e: End Se	mester	Exam Ty	pe: TE	
				Periods/		Credit			ımMarks	
Course Code		ETA02C	L	Т	Р	С	CAM	ESE	TM	
Course Name		RONMENTAL STUDIES	. 2	0	0	1	100	0	100	
		.,B.Com ., B.B.A and BCA Progra		diac						
Prerequisite	Basick	inowledge and awareness on En	vironmentai	studies						
	To gair	n knowledge on the importance	of natural res	ources a	nd ene	rgy.				
Course	To kno	w the structure and function of	an ecosystem	١.						
Objectives	i	ibe an aesthetic value with resp		ersity, un	derstar	nd the thr	eats and	d its cons	ervation	
		preciate the concept of interde								
	}	w the causes of types of pollution								
	To obs	erve and discover the surround	ng environme	ent throu	igh field	l work.				
								BT N	/lapping	
	On con	npletion of the course, the stud	ents will be a	ble to				(Highe	est Level	
	CO1	Inderstand about the various re	sources						K1	
Course	CO2	earn about the biodiversity							К1	
Outcomes		earn the different types of pollu	ition and to n	rovont t	ho nolli	ıtion			K2	
	L	Cnow about the pollution Act	ition and to p	revent ti	ne ponc	ILIOII				
	CO4								K2	
	CO5	Observe various environmental	issues in surro	oundings					К3	
UNIT-I	FNVII	RONMENTAL SCIENCES: NATUR	AL RESOURCE	Ξς		Periods	:06			
Environmental						i				
	Sciences	s - Relevance - Significance - P	ublic awarene	ess - For	est res	ources -	Water r	resource:	s -	
		s - Relevance - Significance - P pod resources - conflicts over								
Mineral resour	ces - Fo	ood resources - conflicts over	resource sh							
Mineral resour Environmental i	ces - Fo	ood resources - conflicts over fertilizer - Pesticide Problems - c	resource shacase studies	aring -		ition - La	and use			
Mineral resour Environmental i UNIT-II	ces - Foi impact - ECOS	ood resources - conflicts over fertilizer - Pesticide Problems - o YSTEM, BIODIVERSITY AND ITS	resource shotase studies CONSERVATION	aring -	Exploita	Periods	and use	pattern	CO1	
Mineral resour Environmental i UNIT-II Ecosystem - cor	rces - Fo impact - ECOS ncept - st	ood resources - conflicts over fertilizer - Pesticide Problems - o YSTEM, BIODIVERSITY AND ITS tructure and function - produce	resource shapes studies CONSERVATIONS, consumers	ON s and dec	Exploita	Periods ers - Food	ind use :: 06 d chain -	pattern	eb CO 2	
Mineral resour Environmental i UNIT-II Ecosystem - cor Ecological pyra	rces - Foo impact - ECOS ncept - st amids - E	ood resources - conflicts over fertilizer - Pesticide Problems - o YSTEM, BIODIVERSITY AND ITS tructure and function - produce Energy flow - Forest, Grassland,	resource shades studies CONSERVATIONS, consumers desert and and are studies.	ON and decorporations of the contract of the	Exploita compos cosyster	Periods ers - Food n. Biodive	ind use :: 06 d chain - ersity - [pattern Food w Definition	eb CO 2	
Mineral resour Environmental i UNIT-II Ecosystem - cor Ecological pyra genetic, species	ECOS ECOS Compact - Standard	ood resources - conflicts over fertilizer - Pesticide Problems - of YSTEM, BIODIVERSITY AND ITS tructure and function - produce Energy flow - Forest, Grassland, paystem diversity - Values and up	resource shades studies CONSERVATION rs, consumers desert and access of biodive	ON s and decopution exists and contraction of the c	Exploita compos cosyster odivers	Periods ers - Food m. Biodive	:06 d chain - ersity - I	pattern Food w Definition	eb CO 2	
Mineral resour Environmental i UNIT-II Ecosystem - cor Ecological pyra genetic, species	ECOS ECOS Compact - Standard	ood resources - conflicts over fertilizer - Pesticide Problems - o YSTEM, BIODIVERSITY AND ITS tructure and function - produce Energy flow - Forest, Grassland,	resource shades studies CONSERVATION rs, consumers desert and access of biodive	ON s and decopution exists and contraction of the c	Exploita compos cosyster odivers	Periods ers - Food m. Biodive	:06 d chain - ersity - I	pattern Food w Definition	eb CO 2	
Mineral resour Environmental i UNIT-II Ecosystem - cor Ecological pyragenetic, species and local levels	ECOS amids - Es and eco Hotspo	resources - conflicts over fertilizer - Pesticide Problems - constitution - produce fructure and function - produce finergy flow - Forest, Grassland, posystem diversity - Values and unotes, threats to biodiversity - const	resource shades studies CONSERVATIONS, consumers desert and access of biodive tervation of biodiventation of biodiventa	ON s and dec quatic ec rsity - bi odiversit	compos cosyster odivers ty –Insit	Periods ers - Food m. Biodive ity at glob tu&Exsitu Periods	:06 d chain - ersity - [oal, natio	pattern - Food w Definition onal (Ind	eb CO2	
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Mineral resour Environmental in UNIT-II Ecosystem - core Ecological pyragenetic, species and local levels UNIT-III Environmental Thermal, Nucle	ECOS amids - Es amids - Es and eco - Hotspo ENVII Pollution ar pollut	resources - conflicts over fertilizer - Pesticide Problems - conflicts over fertilizer - Pesticide Problems - conflicts over tructure and function - produce Energy flow - Forest, Grassland, psystem diversity - Values and upots, threats to biodiversity - conservations, threats to biodiversity - conservations over the conflict of the conflict over the co	resource shades studies CONSERVATIONS, consumers desert and access of biodive derivation of biodivervation of biodivervation measures - Floods, Ear	ON s and dec quatic ec rsity - bi odiversit of Air,	compos cosyster odivers ty –Insit	Periods ers - Food m. Biodive ity at glob tu&Exsitu Periods Marine,	:06 d chain - ersity - [bal, nation :06 soil, so	pattern Food w Definition Definition Definition Definition Definition Definition	eb CO2	
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COs		Prograi	m Outcome	es (POs)	Program Specific Outcomes (PSOs)			
COS	PO 1	PO 2	PO 3	PO 4	PO 5	PSO 1	PSO 2	PSO 3
1	1	2	2	1	2	3	3	3
2	3	2	3	3	3	3	3	3
3	3	2	2	3	2	3	3	3
4	2	3	2	2	2	2	3	2
5	3	3	3	3	3	3	3	3

		Continu	uous Assess	End Semester	Total		
Assessment	CAT 1	CAT 2	Model Exam	Report*	Attendance	Examination (ESE) Marks	Marks
Marks	70		-	20	10		100

^{*} Application oriented / Problem solving / Design / Analytical in content beyond the syllabus

	<u> </u>	putational Studies	-	amme:					
Semester	Seco	nd	Code:			End Se	·y	Exam T	
Course Code	Δ23	EAS201C		Periods / Week			 	kimum Marks	
			L	Т	P	С	CAM	ESE	TM
Course Name	NAT	IONAL SERVICE SCHEME	0	0	2	0	100	0	100
Prerequisite	Unde	rstand the administrative policies of the	ne governm	nent for	the wel	fare of pe	ople.	<u>i</u>	<u>I</u>
	To int	roduce about various activities carrie	d out by na	itional s	ervice s	scheme.			
Course Objectives	1	in life skills through community service							
Objectives		in awareness about various service attions.	activities pe	rformed	d in high	ner educat	tional		
	_	ve exposure about the use of technolounity.	ogy to uplif	t the livi	ng stan	dards of r	ural		
	To in	duce the feeling of oneness through h	narmony of	self and	d societ	y.			
	On c	ompletion of the course, the stude	nts will be	able to)			BT Ma	apping st Leve
	CO1	Recognize the importance of national	al service in	comm	unity de	velopmen	ıt.	K	(2
Course	CO2	Convert existing skills into socially re						k	(3
Outcomes	СОЗ	Differentiate various schemes provid development	led by the o	governn	nent for	the social		K	(3
	CO4	Identify the relevant technology to so	olve the pro	blems	of rural	communit	у.	K	(3
	CO5	Associate the importance harmony of	of nation wi	th long	term de	velopmen	t	K	(3
rogramme, Day	ys of N	s, NSS symbol, Regular activities lational and International Importance alysis NSS awards and recognition	e, Hierarch	y of NS	SS unit	in college	. Socia	l survey	CO1
orogramme, Day nethod and Da Health, Safety, C	ys of Nata Ana Gender	lational and International Importance alysis. NSS awards and recognition issues, Government schemes for so	e, Hierarch n. Importar cial develop	y of NS nce of oment a	SS unit Awaren and inclu	in college ess abou usion polic	e. Socia it Envir cy etc.	l survey	CO1
orogramme, Day method and Da Health, Safety, C	ys of Nata Ana Gender	lational and International Importance alysis. NSS awards and recognition issues, Government schemes for some SKILLS AND SERVICE LEARNING	e, Hierarch n. Importar cial develop GOF VOLU	y of NS nce of oment a	SS unit Awaren and inclu	in college ess abou usion polid	e. Socia it Envir by etc. s: 06	l survey onment,	CO1
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		Continu	ous Assess	End Semester	Total		
Assessment	CAT 1	CAT 2	Model Exam	Report*	Attendance	Examination (ESE) Marks	Marks
Marks	6	0	-	30	10		100

^{*} Application oriented / Problem solving / Design / Analytical in content beyond the syllabus