

Dr. N.G.P. ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore
Approved by Government of Tamilnadu and Accredited by NAAC with 'A++' Grade (3rdCycle)
Dr. N.G.P.- Kalapatti Road, Coimbatore-641048, Tamilnadu, India
Web: www.drngpasc.ac.in | Email: info@drngpasc.ac.in | Phone:+91-422-2369100

REGULATIONS 2024-25 for Under Graduate Programme

(Outcome Based Education model with Choice Based Credit System)

Bachelor of Computer Applications

(For the students admitted during the academic year 2024 - 25)

Programme: BCA

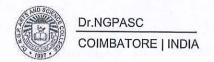
Eligibility

Candidates for admission to the first year of the Bachelor of Computer Applications Degree Programme shall be required to have passed in the Higher Secondary Examinations conducted by the Government of Tamilnadu in the relevant subjects or an Examination accepted as equivalent thereto by the Academic Council. Subject to such other conditions as may be prescribed there to are permitted to appear and qualify with any one of the following subjects: Mathematics / Computer Science / Computer Applications and wherever the students have not studied Mathematics, the necessary Mathematics knowledge be imparted through Tutorial / Bridge Course.

Programme Educational Objectives

The Curriculum is designed to attain the following learning goals which students shall accomplish by the time of their graduation:

- 1. Demonstrating a substantial understanding of concepts in key areas of information technology and its applications.
- 2. Analysis and synthesis involved in computer system, information system and computer applications.
- 3. To develop a software and in its design and implementation for professional competence
- 4. To equip and train the students to meet the requirement of the IT Industries and public sectors.
- 5. To stimulate an interest in computing as an academic discipline with a view to encouraging progression to research and higher studies.



PROGRAMME OUTCOMES

On the successful completion of the program, the following are the expected outcomes.

PO Number	PO Statement
PO1	Understand the concepts of key areas in Computer Applications.
PO2	Develop student's profession and ethical attitudes, effective communication, team work and logical proficiency.
PO3	Apply knowledge of mathematical, algorithmic and computing skills.
PO4	Make use of modern tools and techniques to develop software.
PO5	Develop practical skills to fulfill the needs of industry and society.

BCA 2024-25 SCHEME

Credit Distribution

Part	Subjects	No. of Papers	Credit	Semester No
I (12 Credits	Tamil / Hindi / French/Malayalam	4	4 x 3 = 12	I - IV
II (12 Credits) English	4	4 x 3 = 12	I - IV
	Core (Credits 3)	2	2 x 3 = 6	III - IV
	Core (Credits 4)	11	11x4 = 44	I - VI
	Core Practical (Credits 2)	5	5x2=10	I - VI
III (108	Core Practical (Credits 5)	2	2x5=10	III-IV
Credits)	Inter Departmental Course (IDC)	4	4x4=16	I - IV
	Discipline Specific Elective (DSE)	3	3x4=2	V - VI
	Skill Enhancement Course (SEC)	4	4x2=8	III - VI
	Industrial Training	1	1X2=2	V
	Environmental Studies(AECC)	1	1x2=2	I
IV	Basic Tamil/Advanced Tamil/Human Rights and Women's Rights (AECC)	1	1x2=2	П
(8 Credits)	Innovation & IPR/ Innovation, IPR & Entrepreneurship (AECC)	1	1x2=2	VI
	Generic Elective(GE)	1	1x2=2	V
V (2 Credits)	NSS/NCC/YRC/RRC/Yoga/Sports/ Clubs	-	2X1=2	I - II
	TOTAL CREDITS		142	

CURRICULUM

COMPUTER APPLICATIONS A.Y: 24-25

Course Code	Course Category	Course Nam	ie	L	Т	P	H	our		Exar (h)	n	M	[ax]	Marks	Credit
							W	eek	Total	-	C	[A]	ESE	Total	
First Seme	ester												7		
Part– I						- 5					Ti, Ye			-	and the second s
24TLU1TA	1	Tamil–I											-		
24TLU1HA	A	Hindi-I													
24TLU1M	A Language-I	Malayalam-I	- 4	4	1	-	5		60	3	2.	5 7	5	100	3
24TLU1FA		French -I	1												
Part– II															
24ELU1EA	Language-II	English -I	4	1	-	1	5		60	3	25	7	5	100	3
Part– III			-									η η,			3
24AIU1CA	Core -I	Problem Solving and Programming in C	4		1		5		60	3	25	7	5	100	4
24CAU1CP	Core Practical-I	C Programming	-	-		4	4		48	3	40	60	0 1	00	2
24ITU1CA	Core-II	Digital Computer Fundamentals	4				4		48	3	25	75	5 1	00	4
24MTU1IC	IDC-I	Numerical Methods and Statistics	4	1			5		60	3	25	75	1	00	4
art-IV				-							0.30	I D			1
24MBU1AA	AECC-I	Environmental Studies	2	-	T-		2	T	24	3	50	-	50)	2
art-V			-	_											
4CAU1XA	Activity	NSS/NCC/ YRC/RRC/ Yoga/Sports/			-				_	-	50	-	50		1
		Total 2	22	3	5	3	0	360		10 h				00 2	23

Course Code	Course Category	Course Name	I	, 7	Г	P		truction lours	Exam (h)		M	ax Ma		Cred
		Name					Week	Total		CI	A T	ZGE T		
Second Se	mester									CI	A	ESE To	otal	
Part-I	The state of the s	Policies of the contract of th		4				10 - 12 STATE						
24TLU2TA		Tamil–II				- 1				T				
24TLU2HA	1	Hindi-II												
24TLU2MA	Language-	Malayalam-II	4	1		-	5	60	3	25	7	5 10	0	3
24TLU2FA		French -II												
Part-II						1								T A
24ELU2EA	Language-I	I English -II	4	Ι.	1	T	5	60	3	25	7.	5 10	10	3
Part-III	W. S. C.					-				23		7 10		3
24CAU2CA	Core - III	Data Structures	4	1	-	I	5	60	3	25	75	10	0	4
24CSU2CA	Core - IV	Object Oriented Programming with C++	4	-	-		4	48	3	25	75	10		4
24CAU2CP	Core Practical - II	Data Structures			4		4	48	3	40	60	100	0	2
24MTU2IC	IDC - II	Discrete Mathematics	4	1			5	60	3	25	75	100		4
art-IV								7/16/10/10			11161	100		
4TLU2AA		Basic Tamil				Г	-							
4TLU2AB		Advanced Tamil								1,4				
4CRU2AA	AECC-II	Human Rights and Women's Rights	2	-			2	24	3	50		50		2
			Par	rt-V							H			
ICAU2XA	Extension Activity	NSS/NCC/YRC /RRC/Yoga /Sports/Clubs	-	-			_	_		50		50		1
		Total	22	3	5	3(360			_	700	23	1

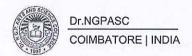
Course Code	Course	Course Name	L	T	P	Instru Ho	uction urs	Exam (h)		Max	Marks	Credit
Code	Category		T			Week	Total					
Third Sem	ostor								CIA	ES	E Tota	1
Part - I	ester		-								V III	
24TLU3TA		Tamil–III			T							
24TLU3HA		Hindi-III										
24TLU3MA		Malayalam-III	- 3	1	-	4	48	3	25	75	100	3
24TLU3FA	Language-I	French -III										
Part-II												
24ELU3EA	Language-II	English -III	3	1	T-	4	48	3	25	75	100	3
Part-III	1 11								120	75	100	3
24CAU3CA	Core-V	Database Management Systems	4	-	-	4	48	3	25	75	100	4
24CTU3CM	Core Practical-III	Java Programming	3	.000	4	7	84	3	40	60	100	5
24CSU3CA	Core-VI	Operating Systems	3	-	-	3	36	3	25	75	100	3
24CAU3SP	SEC Practical-I	SQL Programming	-	-	4	4	48	3	40	60	100	2
24PAU3IA	IDC-III	Business Accounting	4	-	-	4	48	3	25	75	100	4
		Total	20	2	8	30	360	-		_	700	24

Course	Course	Course Name	L	Т	P	Instru Hou	OVER STREET	Exam (h)	1	Max I	Marks	Credit
Code	Category	A STATE OF THE STA				Week	Total					
E (1.6				B					CIA	ESE	Total	
Fourth Sem	ester											
Part–I							1 1/2 20	11.		-1.5		
24TLU4TA		Tamil–IV					- 1					
24TLU4HA	Language-I	Hindi- IV										
24TLU4MA		Malayalam- IV	3	1	-	4	48	3	25	75	100	3
24TLU4FA		French – IV					9 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1					
Part -II							- 1					
24ELU4EA	Language-II	English -IV	3	1		4	48	3	25	75	100	3
Part -III								•		15		
24CTU4CA	Core-VII	Computer Networks	4			4	48	3	25	75	100	4
24CAU4CM	Core Practical - IV	Python Programming	3		4	7	84	3	40	60	100	5
24CAU4CA	Core-VIII	Cyber Security	3	-1	-	3	36	3	25	75	100	3
24CAU4SP	SEC Practical-II	Big Data Technologies	-	-	4	4	48	3	40	60	100	2
24MTU4IC	IDC-IV	Operations Research	4	-		4	48	3	25	75	100	4
Total			20	2	8	30	360		-	-	700	24

Course Code	Course Category	Course Name	e I	, ,	r	P	Instr Ho Week	uction urs Total	Exam (h)		lax M	arks	Cred
			Ţ.	+				Total		CIA	ESE	Tota	
Fifth Semest	ter	e la littera						- 17		4-			
Part -III		RUNTER			-						127		
24CAU5CA	Core- IX	Artificial Intelligence and Expert Systems	4			-	4	48	3	25	75	100	4
24CAU5CB	Core-X	MongoDB Programming	4			-	4	48	3	25	75	100	4
24CAU5CC	Core-XI	Software Engineering Concepts	4	-			4	48	3	25	75	100	4
24CAU5CP	Core Practical- V	Software Testing	-	-	4		4	48	3	40	60	100	2
24CAU5CQ	Core Practical-V	MongoDB Programming		-	4		4	48	3	40	60	100	2
24CAU5SP	SEC Practical - III	Web Design and Development	_	-	4		4	48	3	40	60	100	2
24CAU5DA		Computer Graphics										T	
24CAU5DB	DSE –I	Data Mining	4			4	4	48	3	25	75	100	4
24CAU5DC		Internet of Things and Applications											
24CAU5TA	IT	Industrial Training	-	-	_				3	40	60	100	2
Part -IV													
4CAU5GA		preadsheet pplications	2	-	-	2		24	3	50	-	50	2
		Total	18	-	12	30		360		_		850	26

Course	Course Category	Course Name	L	Т	P	Instru Hou		Exam (h)		Max I	Marks	Credits
Code	- magas,		2			Week	Total		CIA	ESE	Total	
Sixth Semeste) ·								-			
Part -III											-	
24CAU6CA	Core-XII	Open Source Technologies	4			4	48	3	25	75	100	4
24CAU6CP	Core Practical - VII	Open Source Technologies			4	4	48	3	40	60	100	2
24CAU6CV	Core-XIII	Project	-		8	8	96	3	40	60	100	4
24CAU6SP	SEC Practical- IV	Multimedia Technologies	-	i	4	4	48	3	40	60	100	2
24CAU6DA		Computer Vision										
24CAU6DB	DSE –II	Machine Learning	4	•		4	48	3	25	75	100	4
24CAU6DC		Cloud Technologies										
24CAU6DD		Augmented Reality and Virtual Reality										
24CAU6DE	DSE –III	Deep Learning	4		-	4	48	3	25	75	100	4
24CAU6DF		Fundamentals of Blockchain and Applications										
PART IV			M		7,000	Y						
24BCU6AA	AECC - III	Innovation, IPR and Entrepreneurship	2	1	M-20	2	24	3	50		50	2
		Total	14	-	16	30	360	-	-	-	650	22
		Grand	Tota	l							4300	142

^{*}Total Credit should not exceed 142 credits



DISCIPLINE SPECIFIC ELECTIVE

Students shall select the desired course of their choice in the listed elective course during Semesters V & VI.

Semester V (Elective I)

List of Elective Courses

S. No.	Course Code	Name of the Course
1	24CAU5DA	Computer Graphics
2	24CAU5DB	Data Mining
3	24CAU5DC	Internet of Things and Applications

Semester VI (Elective II)

List of Elective Courses

S. No.	Course Code	Name of the Course
1	24CAU6DA	Computer Vision
2	24CAU6DB	Machine Learning
3	24CAU6DC	Cloud Technologies

Semester VI (Elective III)

List of Elective Courses

S. No.	Course Code	Name of the Course
1	24CAU6DD	Augmented Reality and Virtual Reality
2	24CAU6DE	Deep Learning
3	24CAU6DF	Fundamentals of Blockchain and Applications

GENERIC ELECTIVE COURSES (GE)

The following are the courses offered under Generic Elective Course

Semester V (GE)

S. No.	Course Code	Name of the Course
1	24CAU5GA	Spreadsheet Applications

EXTRA CREDIT COURSES

The following are the courses offered under self study to earn extra credits:

Semester III

S. No.	Course Code	Name of the Course
1	24CAUSSA	Program logic and Computer Fundamentals
2	24CAUSSB	Internet Technologies

Bos Chairman/HoD
Department of Computer Applications
Dr. N. G. P. Arts and Science College
Coimbatore – 641 048

	Dr.N.G.P. Arts and Science College		
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Semester - I

TAMIL - I

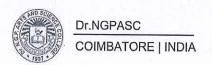
Semester	Course Code	Course Name	Category	L	T	P	Credits
I	24TLU1TA	TAMIL - I	LANGUAGE- I	48	12	-	3

Preamble	மொழிப்பாடங்களின் வாயிலாக தமிழரின் பண்பாடுநாகரீகம், பகுத்தறிவு
	ஆகியவற்றை அறியச் செய்தல்
	கலை மற்றும் மரபுகளை அறியச் செய்தல்
	மாணவர்களின் படைப்பாக்கத்திறன்களை ஊக்குவித்தல்
Prerequisite	தமிழ் மொழி எழுதி படிக்கும் திறன்

Course O	utcomes (Cos)	
CO.No.	Course Outcomes (COs) Statement	Bloom's Tax anomy Knowledge Level
CO1	வாழ்க்கைத்திறன்கள்(Life Skills)-மாணவர்களின் செயலாக்கத்திறனை ஊக்குவித்தல்	К2
CO2	மதிப்புக்கல்வி(Attitude and Value education)	К3
CO3	பாடஇணைச்செயல்பாடுகள் (Co-curricular activities)	K3
CO4	சூழலியல் ஆக்கம் (Ecology)	K4
CO5	மொழி அறிவு(Tamil knowledge)	K4

Mapping with Program Outcomes:			righard of Computer Applications		
Cos / POs	PO1	PO2	PO3		Ut. 209 R Arts and Coimbatore - 641 or
CO1		128 (21)	18.4.8		NO 1 NO 4 DIGISCINO
CO2		V			
CO3		/			
CO4		✓			
CO5		1			

Unit	Content	Hrs	Resources
1	மறுமலர்ச்சிக் கவிதைகள் 1. இலக்கிய வரலாறு -மறுமலர்ச்சிக் கவிஞர்களின்தமிழ்ப்பணிகள் 2. பாரததேசம்- பாரதியார் 3. படி - பாரதிதாசன் 4. தமிழரின் பெருமை- நாமக்கல்கவிஞர் 5. தமிழ்க் கொலை புரியாதீர்- புலவர் குழந்தை 6. திரைத்தமிழ் அ) 'விஞ்ஞானத்த வளர்க்கப் போறண்டி' எனத்தொடங்கும் பாடல் - உடுமலை நாராயண கவி ஆ) 'சும்மா கிடந்த நிலத்தை' எனத்தொடங்கும் பாடல் - பட்டுக்கோட்டை கல்யாண சுந்தரனார் இ) 'சமரசம் உலாவும் இடமே' எனத்தொடங்கும் பாடல் - மருதகாசி ஈ) 'உன்னை அறிந்தால்' எனத்தொடங்கும் பாடல்-கண்ணதாசன்	Hrs	தமிழ்மொழிப்பாடம் முதற்பருவம் 2024-2025 https://www.youtube. com/watch?v=Up55u hkk9zI
2	புதுக்கவிதைகள் 1. இலக்கிய வரலாறு- புதுக்கவிதையின் தோற்றமும் வளர்ச்சியும் 2. கடமையைச் செய்- மீரா 3. ஓடு ஓடு சங்கிலி - சிற்பி பாலசுப்பிரமணியம் 4. ஒப்பிலாத சமுதாயம் - அப்துல் ரகுமான் 5. மரங்கள் - மு.மேத்தா 6. கரிக்கிறது தாய்ப்பால்- ஆரூர் தமிழ்நாடன் 7. ஐந்தாம் வகுப்பு 'அ' பிரிவு - நா. முத்துக்குமார் 8. ஹைகூ கவிதைகள் - 10 கவிதைகள்	13	தமிழ்மொழிப்பாடம் முதற்பருவம் 2024-2025 https://www.youtube. com/watch?v=dX9Z aNJMaco
3	பெண்ணியம் 1. தொலைந்து போனேன் - தாமரை 2. நீரில் அலையும் முகம் - அ. வெண்ணிலா 3. தற்காத்தல் - பொன்மணி வைரமுத்து 4. ஏனிந்த வித்தியாசங்கள் ? - மல்லிகா 5. புதையுண்ட வாழ்க்கை - சுகந்தி சுப்ரமணியன்	10	தமிழ்மொழிப்பாடம் முதற்பருவம் 2024-2025 https://www.youtube. com/watch?v=DLab okqWEdg
	1.இலக்கிய வரலாறு-சிறுகதையின் தோற்றமும் வளர்ச்சியும் 2. கனகாம்பரம்- கு.ப.ராஜகோபாலன் 3. கடிதம்- புதுமைப்பித்தன் 4. பொம்மை - ஜெயகாந்தன் 5. காய்ச்சமரம் - கி. ராஜநாராயணன் 6. காட்டில் ஒருமான்- அம்பை 7.வேட்கை - சூர்யகாந்தன்	14	தமிழ்மொழிப்பாடம் முதற்பருவம் 2024-2025 https://www.youtube. com/watch?v=78u7i TN3OU8



5	பயிற்சிப் பகுதி		
	அ. இலக்கணம்		தமிழ்மொழிப்பாடம்
	1. வல்லின ஒற்று மிகும், மிகா இடங்கள் - ஒற்றுப்பிழை நீக்கிஎழுதுதல் 2. ர,ற-ல,ழ,ள - ண,ந,னவேறுபாடு - ஒலிப்பு நெறி, சொற்பொருள் வேறுபாடு அறிதல் ஆ. படைப்பாக்கம்	10	முதற்பருவம் 2024-2025 https://www.youtube. com/watch?v=B3wf M0QL6N8
	1. கவிதை- எழுதுதல் (15 வரிகள் முதல் 30 வரிகள் வரை) 2.சிறுகதை - எழுதுதல் (குறைந்தது 3 பக்கங்கள்)		https://www.youtube. com/watch?v=FchTl qAtwBU
			https://www.youtube. com/watch?v=gCP3g C-JQU4
			https://www.youtube. com/watch?v=p9QO HD12Yeo
	Total	60	Tumote-

Text book	1.	தமிழ் மொழிப்பாடம் – 2024-2025தொகுப்பு: தமிழ்த்துறை, டாக்டர்என்.ஜி.பி. கலைஅறிவியல்கல்லூரி, கோயம்புத்தூர் – 641048.
Reference Books	1.	பேராசிரியர் புலவர் சோம. இளவரசு, தமிழ் இலக்கிய வரலாறு, எட்டாம் பதிப்பு – 2024, மணிவாசகர் பதிப்பகம், சென்னை – 600 108.
Total Marie	2.	பேராசிரியர் முனைவர் பாக்கியமேரி, முதற் பதிப்பு – 2023, இலக்கணம், இலக்கியவரலாறு , மொழித்திறன் – பூவேந்தன் பதிப்பகம், சென்னை – 600 004.

Journal and Magazines	இலக்கியஇதழ்கள்
E-Resources and Website	https://www.tamilvu.org

Learning Method	Lecture/ Tutorial / Student Seminar/GD/Assignment	

Focus of the Course	Skill Development / Employability	
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Semester-I

HINDI - I

Semester	Course Code	Course Name	Category	L	T	P	Credits
I	24TLU1HA	HINDI – I	LANGUAGE- I	48	12		3

Preamble	The writing ability and develop reading skill
	The various concepts and techniques for criticizing literature
	The techniques for expansion of ideas and translation process
Prerequisite	To understand the language Hindi for communication

Course Outcomes (Cos)				
CO.No.	Course Outcomes (COs) Statement	Bloom's Tax anomy Knowledge Level		
CO1	Learn the fundamentals of novels and stories	K2		
CO2	Understand the principles of translation work	K3		
CO3	Expose the knowledge writing critical views on fiction	K3		
CO4	Build creative ability	K3		
CO5	Apply the power of creative reading	K4		

Cos / POs	PO1	PO2	PO3	PO4	PO5
			103	104	103
CO1		√			
CO2		√			
CO3		✓			
CO4		√			- -
CO5		✓			21-1

Unit	Content	Hrs	Resources
1	गद्य — नूतनगद्यसंग्रह (जयप्रकाश)पाठ1- रजियापाठ2- मक्रीलपाठ3- बहतापानीनिर्मला पाठ4- राष्ट्रपितामहात्मागाँधी	13	Text Book
2	कहानीकुंज- डाँवी.पी. 'अमिताभ'(पाठ 1-4)	13	Text Book
3	व्याकरण : शब्दविचार (संज्ञा, सर्वनाम,विशेषण)	12	Text Book
4	अनुच्छेदलेखन	12	Text Book
5	अनुवादअभ्यास-III (केवलअंग्रेजीसेहिन्दीमें) (पाठ1 to 10)	10	Text Book
	Total	60	2 OH 12 (1)

Text books	1.	प्रकाशक: सुमित्रप्रकाशन 204 लीलाअपार्ट्मेंट्स, 15 हेस्टिंग्सरोड'अशोकनगरइलाहाबाद- 211001
	2.	प्रकाशकः गोविन्दप्रकाशनसदरबाजार, मथुराउत्तरप्रदेश-281001
	3.	पुस्तकः व्याकरण प्रदिप — रामदेवप्रकाशकः हिन्दी भवन ३६ टेगोर नगर इलाहाबाद-२११०२४
12	4.	पुस्तक: व्याकरण प्रदिप — रामदेवप्रकाशक: हिन्दी भवन 36 इलाहाबाद-211024
	5.	प्रकाशक: दक्षिण भारत प्रचार सभा चेनैई -17
Reference Books		

Journal and Magazines	-
E-Resources and	
Website	

Learning Method	Lecture/ Tutorial / Student Seminar/GD/Assignment	

Focus of the Course	Skill Development / Employability	
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Semester - I

MALAYALAM- I

Semester	Course Code	Course Name	Category	L	T	P	Credits
I	24TLU1MA	MALAYALAM- I	LANGUAGE- I	48	12	-	3

Preamble	The writing ability and develop reading skill
	The various concepts and techniques for criticizing literature, to learn the techniques
	for expansion of ideas and translation process
	The competency in translating simple Malayalam sentences into English and vice
	versa
Prerequisite	To understand the language Malayalam for communication

Course Outcomes (Cos)					
CO.No.	Course Outcomes (COs) Statement	Bloom's Tax anomy Knowledge Level			
CO1	Learn the fundamentals of novels and stories	K2			
CO2	Understand the principles of translation work	K3			
CO3	Expose the knowledge writing critical views on fiction	K3			
CO4	Apply creative ability	K3			
CO5	Build the power of creative reading	K4			

Aapping with	Sapping with Program Outcomes:					
Cos / POs	PO1	PO2	PO3	PO4	PO5	
CO1		✓				
CO2		√				
CO3		1				
CO4		1				
CO5		✓				

Unit	Content	Hrs	Resources
1	Novel PathummayudeAdu	14	Text book
2	Novel PathummayudeAdu	10	Text book
3	Short Story Nalinakanthi	14	Text book
4	Short Story Nalinakanthi	10	Text book
5	Practical Application Expansion of ideas, General Essay and Translation	12	Text book
	Total	60	

Text books	1.	Vaikkam Muhammed Basheer, "PathummayudeAdu" (NOVEL), DC Books & Kottayam
	2.	T.Padmanabhan, "Nalinakanthi" (Short Story), DC Books & Kottayam.
Reference Books	1.	MalayalaNovelSahithyam.
	2.	MalayalaCherukathaInnale Innu.

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Journal and Magazines	
E-Resources and	
Website	

Licui IIII 1710tilot	Learning Method	Lecture/ Tutorial / Student Seminar/GD/Assignment
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Focus of the Course	Skill Development / Employability

Semester-I

FRENCH - I

Semester	Course Code	Course Name	Category	L	T	P	Credits
I	24TLU1FA	FRENCH - I	LANGUAGE- I	48	12		3

Preamble	The competence in general communication skills with oral, written and comprehension & expression
	The culture, life style and the civilization aspects of the French people as well as of
	France
	The students to acquire competency in translating simple French sentences into English and vice versa
Prerequisite	To understand the language French for communication

Course C	Outcomes (Cos)	
CO.No.	Course Outcomes (COs) Statement	Bloom's Tax anomy Knowledge Level
CO1	Learn the Basic verbs, numbers and accents	K2
CO2	Apply the adjectives and the classroom environment in France	K3
CO3	Select the Plural, Articles and the Hobbies	K3
CO4	Measure the Cultural Activity in France	К3
CO5	Evaluate the sentiments, life style of the French people and the usage of the conditional tense	K4

	Program Out	comes.			
Cos / POs	PO1	PO2	PO3	PO4	PO5
CO1		✓			
CO2		1			and the second
CO3		✓			- Page - 1
CO4		✓			
CO5		√			

Unit		Co	ontent	Hrs	Resources
1	Objectifs de Communic ation	Tâche	Activités de réception et de production orale	14	Text book Salut I
 Saluer Enter en contact avec quelqu'un. Se presenter. S'excuse 		En cours de cuisine, premiers contacts avec les members d'un groupe	sine, saluent. • Echanger pour entrer en contact, se members se présenter, saluer, s'excuser.		Page 10
2	 Demander de se presenter. Présenter quelqu'un 	Dans la classe de français, se presenter et remplir une fiche pour le professeur.	Comprendre les informations essentielles dans un échange en milieu professionnel. Ēchanger pour se presenteretprésenterquelqu'un	12	Text book Enchanté I Page 20
3	• Exprimer ses gouts.				Text book J'adore I Page 30
4	Demander à quelqu'un de faire quelque chose. Demander poliment. Parler d'actions passes. Tu veux bien?	programmed'activ ités pour accueilliruneperso nneimportante Demander oliment. Parler 'actions asses. Tu veux Programmed'activ ités pour accueilliruneperso nneimportante Un service à quelqu'un. Demanderàquelqu'un de faire quelque chose. Imaginer et raconter au passé à partir de situations dessinées.		10	Text book Autoévalu ation du module I Page 40 – Préparatio n au DELF A1 page 42 Tu veux bien page 46
5	Practical Appl Make in Own S			10	-
		T	otal	60	

Text book	1.	Regine Merieux, Yves Loiseau. 2012. LATITUDES – 1: Méthode de français (Page No: 9-55) Les Editions Dider, Paris, ImprimeenRoumanie par Canale en Janvier
Reference Book	1.	-
Journal and	d	

Learning Method	Lecture/ Tutorial / Student Seminar/GD/Assignment	
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Focus of th	ie Course	Skill Development / Employability

Semester-I

ENGLISH - I

Semester	Course Code	Course Name	Category	L	Т	P	Credits
I	24ELU1EA	ENGLISH - I	LANGUAGE- II	48	-	12	3

Preamble	erstand nem with proper sentence				
Prerequisite Basic comprehension of Language Skills					
Course Ou	tcomes (COs)				
CO Number	Course Outcomes (COs) Statement	Bloom'sTaxonomy Knowledge Level			
CO1	Identify the various aspects in poetry	K2			
CO2	Infer linguistic and non-linguistic features of the context for understanding and interpreting	K3			
CO3	Construct sentences and convey messages effectively in real life situations	К3			
CO4	Apply different reading strategies with varying speed	K3			
CO5	Prepare modules with their own ideas and present them coherently in a grammatically correct form	К3			

Mapping with Pa	rogram Outcon	nes:			
COs / POs	PO1	PO2	PO3	PO4	PO5
CO1		✓			
CO2		✓			
CO3		✓			
CO4		1			
CO5		√			

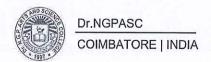
Unit	Content	Hours	E-Contents / Resources
	Genre Studies Mathew Arnold: Dover Beach- Author's Biography- title indications- outline- paraphrasing the poem- context of poem- form- poetic devices- enjambment- techniques— Annotations		
	NiyiOsundare: Our Earth Will Not Die- Author's Biography- title indications-outline- paraphrasing the poem- context of poem- form- poetic devices-enjambment- techniques— Annotations		
I	Charles Lamb: Christ's Hospital Five and Thirty Years Ago- Author's biography- Narrative structure- Exploration of the text- passage analysis- insight of ideas- cohesion and context- style- language techniques- Annotation	12	Text Book
	James Hanson: A Famed Life - Ten Minute Comedy for Two Women - Author's Biography- Plot Summary Detailed summary and Analysis- Themes- Importan Quotations- Characters- Description - analysis- Terms- Symbols- Critical analysis		
	Sheila Nayampalli Baruna: Alone - Author's Biography- narrative structure- passage analysis- insight of ideas- cohesion and context- style- language techniques		
	Listening Skills	Latina I	
п	Listening vs. hearing- Types of listening, Tips to enhance Listening Skills, Non-verbal and Verbal signs of active listening- Comprehensive Listening- Listening to pre-recorded audios on speeches, interviews and conversations- Listening Activities- Listening and responding to complaints (formal situation), Listening to problems and offering solutions (informal)	13	britishcouncil.org cambridgeenglish.or
	Speaking Skills		
ш	Formal occasions- Introducing oneself, Introducing others, Enquiries and Seeking permission, neural speaking -Making short presentations- Informal occasions- Requests, Offering help, Congratulating, Farewell party, graduation speech- Giving instructions to do a task and to use a device, Giving and asking directions	11	britishcouncil.org cambridgeenglish.or

IV	Reading Skills Study Skills: Skimming and Scanning- Reading different kinds of texts- Types of reading-Developing a good reading speed, reading aloud, Referencing skill- Word Power (Denotation and Connotation) - Reading comprehension, Data interpretation —Charts, Graphs, Advertisements - Cognitive Skills- Inference Making - Interpretation	12	britishcouncil.org cambridgeenglish.org
V	Writing Skills Sentence patterns, Note- making and note taking- Strategies - Paragraph writing: Structure and Principles - Academic Writing - Formal and Informal Letters, Report, Book / Movie Review - Infographics Writing	12	britishcouncil.org cambridgeenglish.org
	Total	60	

Text Books	1.	https://www.poetryfoundation.org/poems/43588/dover-beach.
	2.	https://portal.abuad.edu.ng/lecturer/documents/1586771577our_earth_will_not_die.doc
khaa	3.	http://l-adam-mekler.com/chucktwo.pdf.
	4.	https://offthewallplays.com/wp-content/uploads/2017/04/1_pdfsam_A-famed-life-full-with-title-page.pdf.
	5.	Nation, I. S. P and Jonathan Newton. 2009. Teaching ESL/EFL Listening and Speaking. Routledge, New York, United States of America.
14.	6.	Prabha, Dr. R. Vithya& S. Nithya Devi. 2019. Sparkle. (1st Edn.) McGraw - Hill Education, Chennai, India.
Reference Books	1.	Rudzka, Brygida -Ostyn, 2003. Word Power: Phrasal Verbs and Compounds: A Cognitive Approach, Mouton de Gruyter, New York, United States of America
	2.	Swales, John M. & Feak, Christine B. 2012. Academic Writing for Graduate Students: Essential Tasks and Skills, University of Michigan Press, Michigan, United States of America.
	3.	Sen, Leena. 2007. Communication Skills, Second Edition, Prentice Hall India Learning Private Limited, New Delhi, India.
	4.	O. Greene, John. 2021. Essentials of Communication Skill and Skill Enhancement: A Primer for Students and Professionals, Routledge publishers, United Kingdom.

Journal and	https://academic.oup.com/journals
Magazines	
E-Resources and	https://learnenglish.britishcouncil.org/
Website	https://www.cambridgeenglish.org/learning-english/activities-for-learners/

Learning Method	Chalk and Talk/Assignment/Seminar/ Interactive session	
Focus of the	Skill Development/Employability	



Semester - I

Problem Solving and Programming in C

Semester	Course Code	Course Name	Category	L	T	P	Credits
I	24AIU1CA	PROBLEM SOLVING AND PROGRAMMING IN C	CORE	48	12	-	4

Preamble	 This course has been designed for students to learn and und The fundamental aspects of programming and prob The C language fundamentals The representation and working of arrays, pointers, 	lem solving
Prerequis		
Course O	utcomes (COs)	
CO Number	Course Outcomes (COs) Statement	Bloom's Taxonomy Knowledge Level
CO1	Illustrate the basic principles of programming and problem solving	K2
CO2	Understand the fundamentals of CLanguage	K2
CO3	Implement decision making using branching and looping.	K3
CO4	Develop programs using arrays and functions	K3
CO5	Execute programs using pointers, structures and files	K3

COs / POs	PO1	PO2	PO3	PO4	PO5
CO1	✓	✓	√	✓	√
CO2	✓	✓		√	1
CO3	✓	✓		√	√
CO4	✓	✓		✓	√
CO5	√	√		/	1

Unit	Content	Hours	E-Contents / Resources
Ι	Introduction: Types of Programming Languages – High level Languages – Assembly Languages – Machine Level Languages – System Software – Operating Systems – Compiler – Linker and Interpreter. Problem Solving Strategies: Steps involved in problem solving - Algorithms - Flow Charts - Symbols used in Flow Charts - Pseudo Codes – Structured Programming - Sequence – Selection – Repetition – Modular Programming.	12	Text Book/ Reference Book/ NPTEL
п	C Language Fundamentals: Introduction to C - Basic Structure of C Program - Constants - Variables - Data Types - Operators - Expressions - Evaluation of Expressions - Operator Precedence and Associativity - Managing the Input and Output - Formatted I/O - Unformatted I/O - Storage classes- Simple programs for logic building.	12	Text Book/ Reference Book
ш	Branching: Simple if Statement – if-else statement – elseif Ladder – Switch statement – goto, break and continue statements. Looping: while loop – do-while loop -for loopnested for loop – Pre-processor Directives: Macro substitution – File inclusion – Compiler control directives. Arrays: Introduction – Types of arrays – Declaration and Initialization of Arrays – Dynamic Arrays.	12	Text Book/ Reference Book
IV	Strings: Declaring and Initializing the string variables – String handling functions. Functions – Need for functions – Elements of functions – Category of functions – Passing arrays to functions – Recursion.Pointers: Understanding Pointers – Declaration and Initialization of pointer variables – Accessing variables through pointers – Pointers and arrays.	12	Text Book/ Reference Book/ NPTEL
v	Structures: Defining a structure – Declaring structure variables – Accessing structure members – Array of structures - Structure within structures -Unions. Files: Defining and opening a File – Closing a file – I/O Operations on files - Dynamic memory allocation - Command Line Arguments.	12	Text Book/ Reference Book
	Total	60	

	1.	Ashok N. Kamthane, 2009, "Programming and Data Structures", 1st Edition, Pearson Education.
Text Books	2.	Byron Gottfried, 2018, "Schaum's Outline of Programming with C", 4th Edition, McGraw Hill Education.
10,4,44	1.	E. Balagurusamy, 2017, "Programming in ANSI C", 7thEdition, TMH.
Reference Books	2.	H. Schildt, 2000, "C: The Complete Reference", 4th Edition, TMH
DOOKS	3.	ReemaThareja, 2015, "Programming in C", 2nd Edition, Oxford University Press.
	4.	Anita Goel, Ajay Mittal, 2016,"Computer Fundamentals and Programming in C",1st Edition, Pearson

Journal and Magazines	
E-Resources and Website	https://nptel.ac.in

Learning Methods	Lecture, Demonstration, Online Compilers, Coding Platforms
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Focus of the Course	Skill Development/Employability	

Semester – I C PROGRAMMING

24CAU1CP CORE PRACTICAL: C PROGRAMMING SEMESTER I

Total Credits:

2

Total Instructions Hours:

48 h

S.No	Contents
1	Program using Operators
2	Program to illustrate I/O Statements
3	Program to perform Conditional Statements
4	Program to demonstrate Looping Statements
5	Program to implement Arrays
6	Program to demonstrate String Handling Functions
7	Program to demonstrate User Defined Functions
8	Program to implement Structure and Union
9	Program to demonstrate Pre-processor Directives
10	Program to demonstrate Pointers and Dynamic Memory Allocation
11	Program to implement Files
12	Program to illustrate Command Line Arguments

Semester - I

DIGITAL COMPUTER FUNDAMENTALS

Semester	Course Code	Course Name	Category	L	Т	P	Credits
I	24ITU1CA	DIGITAL COMPUTER FUNDAMENTALS	CORE	48	-	-	4

Preamble	This course has been designed for students to learn and understand
	 the concepts of number system and circuits
	the principles of logic gates and memory
	the design and architecture of microprocessors and microcontrollers
Prerequisite	Knowledge on basic digital system

Course Outcomes (COs) CO Bloom's Taxonomy **Course Outcomes (COs) Statement** Number **Knowledge Level** CO₁ Understand the types of number systems, Boolean Algebra K2 CO₂ Understand and analyze Logic gates K2 CO₃ Illustrate the concepts of combinational circuits K3 Understand the different types of sequential logic and CO₄ K2 memory organization

Understand the architecture of microprocessors

Mapping with P	rogram Outcom	es:	and Angel		
COs / POs	PO1	PO2	PO3	PO4	PO5
CO1	✓	ике изшичен (АС)	√	✓	
CO2	✓		The legitimization	✓	
CO3	✓	√ hm/h	✓	✓	✓
CO4	✓		✓	✓	
CO5	1		√	✓	

CO₅

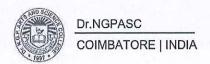
microcontrollers

and

K2

Unit	Content	Hours	E-Contents / Resources
I	Binary Numbers- Number base conversions- Octal and Hexadecimal conversions- Compliments- Binary codes - Decimal codes. Basic Definitions-Boolean functions- Canonical standard forms: Minterms and Maxterms - Sum of Minterms-Product of Minterms-conversion between canonical forms.	10	Text Book 1 / Reference Book1
п	Digital Logic Gates: AND, OR, Inverter, Buffer, NAND, NOT, Exclusive-OR, Exclusive-NOR. The Map Method-Two and three-variable Maps-Four variable Map - Five and Six-Variable Maps- Product of Sum simplification - Don't care conditions.	08	Text Book1 / Reference Book 3
III	Adders: Half-Adder, Full-Adder. Subtractors Half-Subtractor, Full-Subtractor. Multilevel NAND Circuits: Universal Gate. Multilevel NOR Circuits: Universal Gate. Binary Parallel Adder- Decimal Adder - BCD Adder. Decoders: Demultiplexers-Encoders - Multiplexer.	10	Text Book 1 / Reference Book1
IV	Introduction- Flip-flops-Clocked RS Flip-flop - D Flip-flop - JK Flip-flop - Design of Counters- Registers -Ripple Counters. The Memory Unit - Random Access Memories: Integrated-circuit Memory- Magnetic-core Memory.	10	Text Book – 1 &NPTEL
V	Introduction – Microprocessor- Microcomputer- Architecture of Microprocessors- History- Evolution- Microprocessor Applications- Evolution of Microcontrollers- Application of Microcontrollers. Architecture of 8085 Microprocessor- Pin diagram of 8085 Microprocessor.	10	Text Book2 / Reference Book 4 & You Tube Videos
	Total	48	

Text Books	1.	M.Morris Mano, 2019, "Digital Logic and Computer Design", Pearson India Education.
	2.	Soumitra Kumar Mandal, 2018, "Microprocessors and Microcontrollers – Architecture, Programming and Interfacing using 8085, 8086, 8051", 15 th Edition, Tata Mc Graw Hill Education.
Reference Books	1.	S. Salivahanan and S Arivazhagan, 2018, "Digital Circuits and Design", 5th Edition, Oxford University Press, Noida
	2.	Thomas Floyd L., 2015, "Digital Fundamentals", 11th Edition, Pearson Publication Ltd, New Delhi
	3.	M Morris Mano, 2016, "Digital Logic and Computer Design", 5th edition, Pearson
	4.	Aditya P Mathur, 2016, "Introduction to Microprocessor", 3rd Edition, McGraw Hill Education.



Journal and Magazines	International Journal of Computing and Digital System https://journal.uob.edu.bh/handle/123456789/12?id=about https://www.pcmag.com/
E-Resources and Website	https://nptel.ac.in https://www.coursera.org/learn/digital-systems/ https://www.nesoacademy.org/ec/05-digital-electronics

Learning	Lecture/Simulation/Demo/Mind Mapping	
Methods		

Focus of the	Skill Development/Employability	
Course		

Semester – I

NUMERICAL METHODS AND STATISTICS

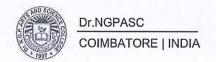
Semester	Course Code	Course Name	Category	L	Т	P	Credits
I	24MTU1IC	NUMERICAL METHODS AND STATISTICS	IDC	48	12	-	4

Preamble	This course has been designed for students to learn and understate the method of solving linear system of equations the relation between two attributes and measure their extra the method of checking the validity of parameters through the validity of parameters through the validity of parameters through t	efficiency
Prerequis	ite Knowledge on Basic Mathematics	
Course O	utcomes (COs)	
CO Number	Course Outcomes (COs) Statement	Bloom'sTaxonomy Knowledge Level
CO1	recognize the direct and indirect methods for solving algebraic equations	K1
CO2	discuss the method of solving differential and integral problems	K2
CO3	define the parameters of central tendencies and dispersion.	K1
CO4	demonstrate the applications of correlation and regression	K2
CO5	analyze the validity of the values of parameters through hypothesis testing.	К3

Mapping with	Program Outc	omes:	personal materials		ASOLE NO.
COs / POs	PO1	PO2	PO3	PO4	PO5
CO1	1	✓	1		
CO2	1		1	1	
CO3	1		✓	1	
CO4			✓	1	✓
CO5	1		1	✓	✓

Unit	Content	Hours	E-Contents / Resources
Ι	Solution of Algebraic, Transcendental and Linear systems of Equations: Introduction - Newton-Raphson method- direct methods -matrix inversion method - Gaussian elimination method - Gauss Jordan method - iterative methods - Gauss Seidel method - Gauss Jacobi method	13	Text Book
п	Interpolation, Numerical Differentiation and Integration: Introduction - Finite difference - Newton's formula for forward and backward interpolation - Interpolation with unevenly spaced points: Lagrange's interpolation - Numerical differentiation - maximum and minimum values of a tabulated Function - Numerical integration - Trapezoidal rule - Simpson's 1/3 Rule - Simpson's 3/8 Rule.	12	Text Book &Reference Book
Ш	Classification, Measures of Central tendency and Dispersion: Frequency distribution - Characteristics of a good measure of central tendency - Mean - Arithmetic Mean - pooled mean - Geometric Mean - Harmonic Mean - Median - Mode. Measures of Dispersion - purposes - properties -Range - Inter quartile range - Mean deviation - Variance - Standard Deviation - coefficient of variation.	13	Text Book
IV	Correlation and Regression: Scatter diagram - Least square method of fitting a regression line - properties - regression line of X on Y- Correlation methods - determination of correlation by graphical method -Correlation Coefficient - Correlation in grouped bivariate data - relationship between correlation coefficients and regression coefficient - Rank correlation.	11	Text Book &NPTEL
V	Test of Significance and Chi-square Test: Test of hypothesis for population variance -two types of error - level of significance - critical region - one and two tailed test - size and power of a test -randomized test - non-randomized test - degrees of freedom - student's t-test - test of equality of two population means - paired t- test Chi-square Test: test of hypothesis for population variance - test of goodness of fit - test in one way classification - Contingency table - Test of independence of factors - Yate's correction.	11	Text Book &You Tube Videos
	Total	60	

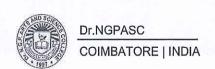
Text Book	1.	Sastry S.S., 2012, "Introductory methods of Numerical Analysis", Prentice-Hall of India, New Delhi (Unit I to II)
	2.	Agarwal B L, 2013, Basic Statistics, New age International (P) Limited publishers, New Delhi. (Unit III to V).
Reference Books	1.	Gupta C.B. and Vijay Gupta, 2007,"Introduction to Statistical Methods", S.Chand& Co, New Delhi



2.	Sanchetti D.C. Kapoor, V.K. 2010. Statistic, S.Chand& Co, New Delhi
3.	Venkataraman M K, 2004,"Numerical Methods in Science and Engineering", 4 th Edition, NPC.
4.	Veerarajan T, Ramachandran T, 2004, "Theory and Problems in Numerical Methods With Programs in C and C++", 10 th Edition, Tata Mc- Graw Hill Publishing Company Limited, New Delhi.

Journal and Magazines	https://www.worldscientific.com/worldscinet/bms
E-Resourcesand Website	https://nptel.ac.in

Learning Method	Chalk and Talk/Assignment/Seminar	
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Semester – I ENVIRONMENTAL STUDIES

Semester	CourseCode	CourseName	Category	L	T	р	Credits
I	24MBU1AA	ENVIRONMENTAL STUDIES	AECC	24		-	2

Preamble	This coursehas beendesignedforstudentsto learnand understand				
	 Multi-disciplinary aspects of Environmental studies 				
	 Importance toconserve the biodiversity 				
	Causes of Pollutionand its control				
Prerequisite	Aware the basics of environmental components				
Course Outco	mes (Cos)				
CO Number	Course Outcomes (Cos) Statement	Bloom's Taxonomy Knowledge Level			
CO1	CO1 To understandtheimportance of natural resources in order to conserve for the future				
CO2	To impart knowledge on Natural resources and its conservation	K2			
CO3	To impart knowledge on Biodiversity and its conservation	К3			
CO4	To create awareness on effects, causes and control of air, water, soil and noise pollution etc.,	K4			
CO5	To build awareness about sustainable development and Environmental protection	. K1			

Cos/POs	PO1	PO2	PO3	PO4	PO5
CO1		✓			
CO2		1			
CO3		✓			
CO4		✓			
CO5		1			

Unit	Content	Hours	E-Contents / Resources
Ι	Introduction to Environmental studies & Ecosystems: components of environment— atmosphere, hydrosphere, lithosphere and biosphere. Scope and importance - Energy flow in an ecosystem: food chain, food web and ecological succession.	5	Text book and Website
II	Natural Resources: Renewable and Non-renewable Resources: Land Resources and land use - Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations. Conflicts over water (international & inter-state). Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs.	5	Text book and Website
III	Biodiversity and Conservation: Global biodiversity hotspots. India as a mega-biodiversity nation; Endangered and endemic species of India. Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.	4	Text book and Website
IV	Environmental Pollution: types, causes, effects and controls; Air, water, soil, chemical and noise pollution. Nuclear hazard sand human health risks. Environment Laws: Environment Protection Act; Prevention & Control of Pollution Act—Air & Water. Wildlife Protection Act; Forest Conservation Act;	5	Text book and Website
V	Environmental ethics: Role of Indian and other religions and cultures in environmental conservation. Role of Information Technology in Environment and human health. Role of the Colleges, Teachers and Students in village adoption towards clean, green and make in villages in various aspects.		Text book and Website
8 bm 3 h	Total	U 990938 D 24 840	ur, N. G. R Arts at Coimbatore – 641

Text	1.	Carson, R.2002. SilentSpring. Houghton Mifflin Harcourt				
Book 2.		Gadgil, M., & Guha, R.~1993. This Fissured Land: An Ecological History of India. Univ. of				
		CaliforniaPress.				
Reference	1.	Gleeson, B. andLow, N. (eds.) 1999. Global Ethics and Environment, London,				
Books		Routledge.				
	2.	Gleick, P.H. 1993. Waterin Crisis. Pacific Institute for Studies in Dev., Environment &				
		Security. StockholmEnv.Institute,OxfordUniv. Press.				
	3.	Groom, Martha J. Gary K.Meffe, and CarlRonald carroll. 2006, Principles of				
		Conservation Biology. Sunderland: Sinauer Associates.				
	4.	Grumbine, R. Edward, and Pandit, M.K. 2013. Threats from India's Himalaya dams.				
		Science, 339: 36-37.				

Journal and Magazines	https://www.hzu.edu.in/bed/E%20V%20S.pdf
E-Resource and Websites	https://www.ugc.gov.in/oldpdf/modelcurriculum/env.pdf

Learning Methods	Chalk and Talk/ Seminar/ Assignment	

Focus of the Course	Skill Development/Employability/Social Awareness and Environment

BoS Chairman/HoD
Department of Computer Applications
Dr. N. G. P. Arts and Science College
Coimbatore – 641 048

