





Learn | Grow | Achieve

Pimpri Chinchwad Education Trust's

Pimpri Chinchwad University

SCHOOL OF HUMANITIES AND LIBERAL ARTS

(Established under Maharashtra Act No V of 2023) Sate, Pune - 412 106. Maharashtra, India

B.A.(H) / RESEARCH - LIBERAL ARTS (2024 PATTERN)



EFFECTIVE FROM 2024-25 ACADEMIC YEAR



Pimpri Chinchwad Education Trust's

Pimpri Chinchwad University

Sathe, Pune - 412106



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B.A.(H)/R - Liberal Arts

(Pattern-2024)

School of Humanities and Liberal Arts



Effective from Academic Year 2024-25



Preamble:

Critical thinking and innovative problem solving is at the heart of a Liberal Arts education. Based on a long tradition of thinking across different disciplines to solve the most pressing challenges of the day Liberal Arts aims to form global citizens who will be future leaders and independent thinkers. By teaching you how to learn rather than what to learn, a Liberal Arts education exposes you to a broad range of knowledge, allowing you to specialize in an issue or problem that matters most to you.

On this interdisciplinary degree we will encourage you to think independently as you work closely with experts from across the University. In small groups you will explore challenging problems from different times and places, using a toolkit of emergent skills to create your own responses. This course is ideal for passionate students who want to learn across disciplines and build their degree around their interests and ambitions.

Dedicated expert tutors with a passion for liberal education lead the Liberal Arts modules. These modules focus on investigating key issues from multiple disciplinary perspectives and developing your critical thinking skills. You will learn how to analyses cutting-edge problems and to think outside the box as you evaluate and solve them. These modules will also help you to build your primary and secondary research skills. We will also prepare you to engage in different modules as you explore subjects across the humanities, arts, sciences, and social sciences.

Vision and Mission of Program:

Vision

To create global citizens with a multi-disciplinary background, high critical thinking and problem-solving skills with an adaptability to be at the forefront of innovation and change in the coming world.

Mission

- To develop critical thinkers with a wide and in-depth interdisciplinary knowledge.
- To build ethically responsible citizens with a capacity to be global leaders.
- To provide an environment for an enriched development of students who can take up any challenge with innovative problem-solving abilities.

Program Educational Objectives:

- 1. Graduates of the program will demonstrate practical skills development to feel confident about their university career and beyond.
- 2. Graduates of the program will exhibit critical thinking skills and multi-disciplinary competency with a learning attitude.



- 3. Graduates of the program will practice their professional career with ethical and social responsibilities.
- 4. Graduates of the program will demonstrate research aptitude and innovation throughout their career.

Program Outcomes (POs):

Liberal Arts Graduates will be able to:

- 1. **Multi-disciplinary Knowledge:** Apply the knowledge of statistics and data science, environmental studies, economics, history, psychology, politics and public policy to draw conclusions about the wider world.
- 2. **Problem Analysis:** Identify, formulate, review research literature, and analyze complex problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and arts.
- 3. **Design/Development of Solutions:** Design solutions for complex problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- 4. **Conduct Investigations of Complex Problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- 5. **Modern Tool Usage:** Create, select, and apply appropriate techniques, resources, and modern quantitative techniques in building models with predictions and solutions.
- 6. The Liberal Arts graduate and Society: Apply reasoning informed by the contextual knowledge to assess environmental, societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to a profession.
- 7. **Environment and Sustainability:** Understand the impact of environmental solutions in societal and natural sciences contexts, and demonstrate the knowledge of, and need for sustainable development.
- 8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9. **Individual and Teamwork:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10. **Communication:** Communicate effectively on complex activities with the community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 11. **Project Management and Finance:** Demonstrate knowledge and understanding of management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 12. **Life-long Learning:** Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



Program Specific Outcomes (PSOs):

- 1. An inquiring mind, with a continuing desire for knowledge and maximum educational effort, including the development of effective study skills and habits.
- 2. The ability to think clearly and accurately, draw conclusions, make decisions, and take action based on evidence;





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2	Semester wise Program Structure	5-12
3	List of Minors	43-46



Sr. No.	Type of course	Abbreviations
1	Major	MAJ
2	Elective (Minor Stream/Vocational/Program Specific)	MIN
3	Open Electives	OE
4	Ability Enhancement Courses	AEC
5	Skill Enhancement Courses	SEC
6	Vocational Skill Course	VSC
7	Summer Internship/ On Job Training	OJT
8	Project	PROJ
9	Interdisciplinary Courses	IDC
10	Value Added Course	VAC



5580/15/50/16	5,000,00	3	Year UG		4 '	Year UG	
S.No	Broad Category of Course	No of Courses	Credits	%	No of Courses	Credits	%
1	2 Major Discipline	24	72	47.05	33	93	52.38
2	1 Minor Discipline	4	12	7.84	4	12	6.35
3	Multidisciplinary	5	10	9.8	5	10	7.94
4	Ability Enhancement Course (AEC)	7	16	13.72	8	22	12.70
5	Skill Enhancement Course (SEC)	4	8	7.84	4	8	6.35
6	Value Added Course (VAC)	5	Ŧ	9.80	5	-	7.94
7	Summer internship	2	6	3.92	2	6	3.17
8	Research Project/ Dissertation		V-/	7 .	2	16	3.17
	Total	51	124	100	63	167	100%



CREDIT DISTRIBUTION: SEMESTER WISE

O M.	C T			No.	of Cre	dits/Se	mester			T-4-1
S.No.	Courses Types	1	2	3	4	5	6	7		Total
1	Discipline I (Major I) Economics	6	6	6	6	3	3	_		30
2	Discipline II (Major II) English	6	6	6	6	3	3	\$ - \$		30
3	Discipline I (Major I) Elective					3	3		:9	27
	Discipline I (Major I) Elective	(<u> </u>	7		_	3	3		Max:15	33
4	Discipline II (Major II)					3	3	3	:9	27
4	Elective		9 - 0		7	3	3	3	Lanca 1578 No. 10	33
2	Discipline III (Minor) Psychology	3	3	3	3					12
4	Minor elective (From other schools)		2	2	/2	2	2			10
5	Skill Enhancement Courses - BC/BS	2	2	2	2					8
6	AEC→ Foreign Language/ Computer Skills	2	\ <u>-</u>	2	2	2	2	6		16
7	Value Addition Courses 1.UHV-I&II, 2.EVS 3.IKS 4.COI	_/	_\	/ - ,	/-	ş —ş	ş	ş ,	_	
8	Non-Teaching Credit							4		10
	Courses/Supervised Independent Learning	_	-\	/-	_			4		16
9	MOOC (On - line / NPTEL / SWAYAM / Future Learn)	-		-	-	, —	. —	6	_	
10	Minor II - Vocational Courses /SKE courses/Industry Specific	-	2 <u>-</u> 2	2 <u>-</u> 2	_	3	3	\ <u></u>	_	
	Courses/Apprenticeship courses									
	Total	19	19	21	21	22	22	22	21	167



B.A.-Liberal Arts

	S-	Se:	mest	er I				500					
								Assessment Scheme					
Course Code	Course Name	Course		Tea	ching	g Schem	Th	eory	OR/PR				
course code	Course Ivame	Туре	Th	P r	Γut	Credit	Hrs	CIA	ESA	CIA	ESA	Total	
UBAEC101	Microeconomics-I	MAJM	3	-	-	3	3	40	60	-		100	
UBAEC102	Macroeconomics -I	MAJM	3	-		3	3	40	60	_	-	100	
UBAEN101	History of English Literature	MAJM	3	-	_	3	3	40	60	-	n=3	100	
UBAEN102	Introduction to Linguistics	MAJM	3	- 2	2	3	3	40	60	929	529	100	
UBAPS101	History and Systems of Psychology	MIN- D-III	3	-	-	3	3	40	60	S=3	87 4 8	100	
UEG101	Functional English	SEC	1	1	-	2	3	50		-	1 150	50	
ACUHV101/ ACIKSLA101	UHV-I: Professional Ethics/IKS: Indian Family System	AC	2			1	2	50		b = 1	1 1	50	
UBALA101	Basics of Computer Applications	AEC	2		/-	2	2	20	30	(1	653	50	
		Total	20	1		19	22	320	330			650	

		Sei	nest	er II								
		Course		Tes	chine	Schem		Assessment Scheme				
Course Code	Course Name	Course Type Teaching Scheme			Th	eory	OR/PR					
		TJPC	Th	Pr	Γut	Credit	Hrs	CIA	ESA	CIA	ESA	Tota
UBAEC103	Microeconomics-II	MAJM	3	2/2 50	-	3	3	40	60	9 8 9) H	100
UBAEC104	Macroeconomics-II	MAJM	3	1	-	3	3	40	60	-		100
UBAEN103	British Literature-I (1340 to 1660)	MAJM	3	-	1/-	3	3	40	60	-	1=1	100
UBAEN104	Structure of English Language	MAJM	3	7	-	3	3	40	60	-	3 = 3	100
UBAPS102	Cognitive Psychology	MIN-D- III	3	-	<u>.</u>	3	3	40	60	-	3 — 3	100
UEG102	Effective Written Communication	SEC	1	1	-	2	3	50		12	S = S	50
	Minor-1	MIN	2		- E-	2	2	20	30	100		50
ACIKSLA101 /ACUHV101	IKS-Indian Family System/ UHV-I: Professional Ethics	AC	2		=		2	50			(E.)	50
		Total	20	1		19	22	330	420			750

Abbreviations: Course Abbreviation; Th = Theory, Tut = Tutorial, Pr = Practical, Hrs = Hours, Cr = Credits CIA = Continuous Internal Assessment, ESA = End Semester Assessment, PR = Practical Exam, OR= Oral Exam



Exit Policy after First Year

UG Certificate in BA Liberal Arts: Students who opt to exit after completion of the first year and have scored required credits offered by the school in the program structure will be awarded a UG certificate in Liberal Arts, provided they must earn additional credits during the summer vacation of the first year.

			F	irst	Yea	r							
				Тог	ahin	T Cohomo		Assessment Scheme					
Course Code	Course Name	Course Type		16	aCIIII;	g Scheme		Theory		OR/PR			
			Th	Pr	Tut	Credit	Hrs	CIA	ESA	CIA	ESA	Total	
UCEXLA101	Prog. Spec. Sub/MOOCs	VSC	-	2	-	2	4	-	-	50	-	50	
UCEXLA102	Project	VSC	-	2	5 82	2	4	_	-	50	=	50	

^{*}Project- In house/ Sponsored/ Case Study/ Field work



			Sem	ieste	r III							
Course Code	Course Name	Course		Tea	chin	g Schen	ıe	Th	Asse eory	1	nt Scho /PR	eme
Course Cour	Course (unic	Type	Th	Pr	Tut	Credit	Hrs	CIA			ESA	Total
UBAEC201	Economic Growth and Development	MAJM	3	1	_	3	3	40	60	_	-	100
UBAEC202	Statistical Methods in Economics – I	MAJM	3	<u>*</u>	-	3	3	40	60	-	30	100
UBAEN201	British Literature- II(1660-1798)	MAJM	3	-	-	3	3	40	60	-	-	100
UBAEN202	Introduction to Morphology	MAJM	3	- =	-	3	3	40	60	-		100
UBAPS201	Organizational Psychology	MIN-D-III	3	(1)	\-	3	3	40	60	Ē	-	100
UEG201	Communication Skills for Career Development	SEC	1	1	/_	2	3	50		-	-1	50
UFL201A/ UFL201B	Foreign Language 1	AEC	2	-	<i>_</i>	2	2	20	30	-	.	50
	Minor-2	MIN	2	=	-	2	2	20	30	=	128	50
ACUHV201/ ACCOI201	UHV-II: Understanding Harmony/Constitution of India	AC	2	-	-		2	50		-	-	50
		Total	22	1	1	21	24	340	360			700

	Foreign Language										
Course Code	Course Name	Course Type									
UFL201A	Foreign Language 1- German	AEC									
UFL201B	Foreign Language 1- Japanese	AEC									

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			Se	mest	er IV							
Course	Course Name	Course		Tea	ching	Scheme	Assessment Sc Theory OR/P				ie	
Code	0.70.70.70.70.70.70.70.70.70.70.70.70.70	Type	Th	Pr	Tut	Credit	Hrs	CIA	ESA		ESA	Total
UBAEC203	Research methodology in Economics	МАЈМ	3	-		3	3	40	60	-	-	100
UBAEC204	Statistical Methods in Economics – II	MAJM	3	-	141	3	3	40	60	-	-	100
UBAEN203	British Literature- III (1798-1900)	МАЈМ	3	12	84	3	3	40	60	1 45	225	100
UBAEN204	Introduction to Literary Criticism	МАЈМ	3	-	-	3	3	40	60	-	1-	100
UBAPS202	Abnormal Psychology	MIN- D-III	3	-	-)	3	3	40	60	=	-	100
UEG204	Professional Communication for Recruitment and Employability Interpersonal	SEC	1	1		2	3	50		* <u>#</u>	70 <u>-</u> 2	50
UFL202A/ UFL202B	Foreign Language 2	AEC	2	-	-	2	2	20	30	-	0-	50
	Minor-3	MIN	2	_	-	2	2	20	30	-	0=0	50
ACCOI201/ ACUHV201	Constitution of India/UHV-II: Understanding Harmony	AC	2	F			2	50		2	12	50
		Total	22	1		21	24	340	360			700

Foreign Language											
Course Code	Course Name	Course Type									
UFL202A	Foreign Language 2- German	AEC									
UFL202B	Foreign Language 2- Japanese	AEC									

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Exit Policy after Second Year

UG Diploma in BA Liberal Arts: Students who opt to exit after completion of the second year and have scored required credits offered by the school in the program structure will be awarded a UG diploma in Liberal Arts, provided they must earn additional credits during the summer vacation of the second year.

	Second Year												
		Course Type		То	achine	T Schame			Assess	ssment Scheme			
Course Code	Course Name		Teaching Scheme					The	eory	OR/PR			
			Th	Pr	Tut	Credit	Hrs	CIA	ESA	CIA	ESA	Total	
UDIEXLA201	Prog. Spec. Sub./MOOCs	VSC		2		2	4	-/	_	50	-	50	
UDIEXLA202	Project/ Internship	VSC	2	4	-	4	8	4	-	50	50	100	

^{*}Project- In house/ Sponsored/ Case Study/ Field work



		S	eme	ster V	7								
				Тоол	hina	Scheme			Asses	sment	ment Scheme		
Course Code	Course Name	Course		1 ca	mng	Scheme		T	neory	OF	R/PR		
course cour	Course roune	Туре	T h	Pr	Tut	Credit	Hrs	CIA	ESA	CIA	ESA	Total	
UBAEC301	Econometrics-I	MAJM	3	=0	-	3	3	40	60	1540	-	100	
UBAEN302	Major Elective-I	MAJE- D-I	3	20	123	3	3	40	60	20	1527	100	
UBAEN301	20the Century Literature	MAJM	3	(3)	-	3	3	40	60	10-	-	100	
UBAEN302	Major Elective-II	MAJ E-D- II	3		-	3	3	40	60	-	-	100	
	Minor-4	MIN	2	-] =	2	2	20	30	1 -	3 3	50	
UFL301	Foreign Language 3	AEC	2	2	1025	2	2	20	30	844	1239	50	
UBALA301	Internship	OJT		3	-	3	6	7		25	25	50	
UBALA302	Research Methodology	AEC	3		-	3	3	40	60			100	
ACALR301/ ACEVS301	Aptitude Test and Logical Reasoning / Environmental Science	AC	2				2	50	0			50	
		Total	21	3		22	27	290	360	25	25	700	

Choose any one Courses from Discipline-I

Course Code	Course Name	Course Type
UBAEC302A	Industrial Economics	MAJE
UBAEC302B	Economics of Education	MAJE
UBAEC302C	Financial Institutions and Markets	MAJE
UBAEC302D	Green Economy	MAJE

Choose any one Courses from Discipline-II								
Course Code	Course Name	Course Type						
UBAEC302A	Indian Narrating Civilization	MAJE						
UBAEC302B	Indian Writing in English	MAJE						
UBAEC302C	Indian Literature in Translation	MAJE						
UBAEC302D	Indian Diaspora	MAJE						

Foreign Language

Course Code	Course Name	Course Type
UFL301A	Foreign Language 3- German	AEC
UFL301B	Foreign Language 3- Japanese	AEC

Abbreviations: Course Abbreviation; Th = Theory, Tut = Tutorial, Pr = Practical, Pr = Practical,



		Se	emes	ter V	T								
			Teaching Scheme As						Assess	sessment Scheme			
Course Code	Course Name	Course		1 ca	Cining	Schem	E .	Th	eory	OH	R/PR		
course cour	Course Ivame	Туре	T h	Pr	Tut	Credi t	Hrs	CIA	ESA	CIA	ESA 25	Tota	
UBAEC303	Econometrics -II	MAJM	3	-	84	3	3	40	60	-	-	100	
UBAEC304	Major Elective-I	MAJE- D-I	3	-	24	3	3	40	60	-	-	100	
UBAEN303	Classical Literature	MAJM	3	1		3	3	40	60	25 57	<u>=</u>	100	
UBAEN304	Major Elective-I	MAJE- D-II	3			3	3	40	60	25	=	100	
	Minor-5	MIN	2	150	100	2	2	20	30	-	-	50	
UFL302	Foreign Language 4	AEC	2	-	94	2	2	20	30	-	-	50	
UBALA303	Internship	OJT		3		3	6			25	25	50	
UBALA304	Research and Publication Ethics	AEC	3	العن	84	3	3	40	60			100	
ACEVS301/ ACALR301	Environmental Science/Aptitude Test and Logical Reasoning	AC	2	-			2	50	0			50	
		Total	2	3	V	22	27	290	360	25	25	700	

Choose any one Courses from Discipline-I

Course Code	Course Name	Course Type
UBAEC304A	Agricultural Economics	MAJE
UBAEC304B	Fundamentals of International Trade	MAJE
UBAEC304C	Digital Economics	MAJE
UBAEC304D	Production Relation and Globalization	MAJE

Choose any one Courses from Discipline-II

Course Code	Course Name	Course Type
UBAEN304A	Modern European Theatre	MAJE
UBAEN304B	Master Pieces of World Literature	MAJE
UBAEN304C	American Literature	MAJE
UBAEN304D	Orientalism	MAJE

Foreign Language

Course Code	urse Code Course Name			
UFL302A	Foreign Language 4- German	AEC		
UFL302B	Foreign Language 4- Japanese	AEC		



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		Se	e <mark>mes</mark> t	ter VI	П								
		Course		Too	ching	Scheme	$\overline{}$		Asses	sment	Schen	ne	
Course Code	Course Name	Course Type		Ita	Jinng	SCHEIR	8	Th	ieory	OI	OR/PR		
		Турс	Th	Pr	Tut	Credit	Hrs	CIA	ESA	CIA	ESA	Total	
UBAEC401	Elective 1	MAJE- D-I	3	-	7 <u>21</u> 2 ₂ 7	3	3	40	60	- 12 1 2 2 1	-	100	
UBAEC402	Elective 2	MAJE -D-I	3	-	-	3	3	40	60	-	-	100	
UBAEN401	Elective 1	MAJE- D-II	3	-	1 <u>2</u>	3	3	40	60	120 201	-	100	
UBAEN402	Elective 2	MAJE- D-II	3	7	-	3	3	40	60	-	-	100	
UBALA401	Seminar/Mooc BALA	AEC		6		6	12			25	25	50	
UBALA401	Dissertation Phase -I BALA	RP		4	-	4	8			25	25	50	
		Total	12	10		22	32	160	240	50	50	500	

UBAEC401, UBAEC402, UBAEC403, UBAEC404	Choose any 2 from Discipline-I
A	Fundamentals of Behavioural Economics
В	Foreign Trade documentation and Logistics
C	Global Economic Issues
D	Political Economy of India
UBAEN401, UBAEN402, UBAEN403, UBAEN404	Choose any 2 from Discipline-II
A	Women's Writing in English
В	Gendre and Culture
C	Cultural Theories
D	Global Feminism

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	Se	mester V	ш (D-I E	conoi	mics)	227.00	20				
		Course		Teac	hing	Scheme	a		Assessment Scheme			
Course Code	Course Name	Type		Teac	mng			Theory		OR/PR		
			Th	Pr	Tut	Credit	Hrs	CIA	ESA	CIA	ESA	Total
UBAEC405	Elective 1	MAJE- D-I	3	-	=	3	3	40	60			100
UBAEC406	Elective 2	MAJE- D-I	3	-	2 <u>11</u> 221	3	3	40	60			100
UBAEC407	Elective 3	MAJE- D-I	3	:=:	-	3	3	40	60			100
UBAEC408	Elective 4	MAJE- D-I	3	-	120 140 140	3	3	40	60			100
UBAEC409	Elective 5	MAJE- D-I	3	3=3	=	3	3	40	60			100
UBAEC410	Elective 6	MAJE- D-I	3			3	3	40	60			100
UBALA402	BA(H) Cr-6/ Research-Cr- 12 Dissertation Phase -II	RP		6/12		6/12	12/24			50%	50%	300/ 100
		Total	9/15	6/12		21	27/33					600
UBAEC405, UBAEC406, UBAEC407 UBAEC408 UBAEC409, UBAEC410	BA(H) Any-5/ Researc	ch-Any-3										
A	Comparative Growth and D	evelopm	ent									
В	Fundamentals of Operation Research Econometric Analysis											
C												
D	Game Theory and Strategic	Interacti	ons									
E	Welfare Economics			1								
F	Industrial and Labour Econ	omics										

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F

			o	R									
	S	emester	VIII	(D-II	Engl	lish)	774	- 15					
		Course		Teac	hing	Scheme			Assessment Scheme				
Course Code	Course Name	Type		TCAC	ming	Schence		Tì	Theory		OR/PR		
			Th	Pr	Tut	Credit	Hrs	CIA	ESA	CIA	ESA	Total	
UBAEN405	Elective 1	MAJE- D-II	3	# _	-	3	3	40	60			100	
UBAEN406	Elective 2	MAJE- D-II	3	61 4 8	-	3	3	40	60			100	
UBAEN407	Elective 3	MAJE- D-II	3	-	-	3	3	40	60			100	
UBAEN408	Elective 4	MAJE- D-II	3	# <u>*</u>	<u>%</u>	3	3	40	60			100	
UBAEN409	Elective 5	MAJE- D-II	3		=	3	3	40	60			100	
UBAEN410	Elective 6	MAJE- D-II	3	1-2	2	3	3	40	60			100	
UBALA402	BA(H) Cr-6/ Research-Cr- 12 Dissertation Phase -II	RP		6/12	-	6/12	12/24			50%	50%	300/ 100	
		Total	9/15	6/12	7/2	21	27/33					600	
UBAEN405, UBAEN406, UBAEN407, UBAEN408, UBAEN409, UBAEN410	BA(H) Any-5/ Researc	h-Any-3	9										
A	Language and Identity												
В	Literature, Film and social	media											
C	Phonetics and Spoken Engl	ish											
D	Translation: Theory and Pra												
0000	1 ASS. 1724 ANDREW 1726			1									

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Popular Fiction

Dalit Literature



Detailed Syllabus of Sem-I



COURSE CURRICULUM

Name of the Program:		BA-Libera Arts(H)/R		Semeste	er: 1	Level: UG	
Course I			Microeconomics-I		Code/ Course	UBAEC101/M	IAJM
Course 1	Pattern	2024		Version	L.	1.0	
Teachin	Γeaching Scheme				As	sessment Scheme	
Theory	Practical	Tutorial	Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/ Oral
3	=	. =	3	3	40	60	-
	Objectives (C		0):	1. To far in Mid 2. To use 3. To ap applie 4. To an 5. To eve consu	croeconomics. e the applications pl illustrate how n d alyze real-life eco	of Microeconomic conicroeconomic connomic situations costs and trade-offs	s cepts can be
Course Learning Outcomes (CLO):				1. Ider 2. Des 3. Cor 4. Ana	ntify various types cribe Themes of M npare one variable production function lyze consumption	of costs Microeconomics e, two variable and ons	

Course Contents/Syllabus:

Descriptors/Topics	CLO	Hours
UNIT I		
Introduction to Consumer Behaviour: Definitions of economics, scope and importance, Themes of Microeconomics: Trade Offs, Markets and prices, Equilibrium, theories and models, Normative and Positive analysis Understanding Markets: Definition, competitive vs non-competitive markets, Real versus Nominal Prices Problem of scarcity and choice: scarcity, choice and opportunity cost; production possibility frontier; economic systems. Demand and supply: law of demand, determinants of demand, shifts of demand versus movements along a demand curve, market demand, law of supply, determinants of supply, shifts of supply versus movements along a supply curve, market supply, market equilibrium. Applications of demand and supply: price rationing, price floors, consumer surplus, producer surplus. Elasticity: price elasticity of demand, calculating	CLO2	9
elasticity, determinants of price elasticity, other elasticities		
UNIT II		Радо I 1



Consumer Theory: Budget constraint, concept of utility, diminishing marginal utility, Diamond-water paradox, income and substitution effects; consumer choice: indifference curves, derivation of demand curve from indifference curve and budget constraint. UNIT III	CLO 2	9
Production and cost:	CLO	9
Production and cost: Production: Behaviour of profit maximizing firms, production process, production functions, law of variable proportions, choice of technology, is quant and is cost lines, cost minimizing equilibrium condition Costs: Types of Cost, costs in the short run, costs in the long run, revenue and profit maximization, minimizing losses, short run industry supply curve, economies and diseconomies of scale, long run adjustments, Theory of costs, Envelop curve, L-shaped scale curve, Economies of scale and scope	1,5	9
UNIT IV		
Profit Maximization and Perfect Competition: Assumptions, marginal revenue, marginal cost and profit maximization Short run supply curves, producers' surplus in short run, economic rent, producers' surplus in long run, Industry's long run supply curve UNIT V	CLO 3	9
Theory of Firm: Production function: — law of variable proportions—the fixed coefficient Production function. Iso-quant curves and Iso-cost line: definition of Iso- quant curve, economic region of production, marginal rate of technical substitution, equilibrium of the producer—constrained output maximization and constrained cost minimization, returns to scale—homogeneous production function	CLO 4	9
Total Hours		45

Learning resources

Textbooks:

- 1. Robert Pindyck and Daniel Rubinfeld, Microeconomics, 2017, 9th edition, 2017, Pearson
- 2. A. Koutsoyiannis, Modern Microeconomics, Second Edition, 2018, Palgrave Macmillan
- Intermediate Microeconomics: A Modern Approach, 2014, Ninth Edition, W. W. Norton & Company

Reference Books:

- 1. Karl E. Case and Ray C. Fair, Principles of Economics, Pearson Education Inc., 8th Edition, 2007
- 2. N. Gregory Mankiw, Economics: Principles and Applications, India edition by South Western, a part of
 - Cengage Learning, Cengage Learning India Private Limited, 4th edition, 2007.
- 3. Joseph E. Stiglitz and Carl E. Walsh, Economics, W.W. Norton & Company, Inc., New York, International Student Edition, 4th Edition, 2007.
- 4. Theodore C. Bergstrom and Hal R. Varian, Workouts in Intermediate Microeconomics: for Intermediate

Online Resources/E-Learning Resources

- 1. https://ocw.mit.edu/courses/14-01sc-principles-of-microeconomics-fall-2011/
- 2. https://open.umn.edu/opentextbooks/textbooks/193



	Name of the BA-Liberal Program: Arts(H)/Research			Semester:	1	Level: UG	
Course Name		Macroeconomics-I		Course Co Type	de/ Course	UBAEC102/MAJM	
Course 1	Course Pattern 2024		Version		1.0		
Teachin	g Scheme				As	sessment Schem	e
Theory	Practical	Tutorial	Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/ Oral
3	-	-	3	3	40	60	la-s
Pre-Req		3439	Nil			A.	
Course Objectives (CO): Course Learning Outcomes (CLO):				1. To introd Macroecon 2. To make of Macroec historical pour 3. To measu 4. To analyst theshort run 5. To evalue national in Students we 1. Identify calculation problems.	omics cunderstand the conomic theorie erspective are the macroeco ze various theori ate the role of ncome determin ould be able to: the analytical to precautions atta and the need for least	students with furst policies and momic variables ries of determining exports and impation.	ndamentals nodels in a ng GDP in aports in a nists for the and the
				level of Keynesia 4. Assess he inflation, growth at	output/employ n framework. ow analysis is u interest rates and the macroecond	rmination of full ment under: Cl sed to illustrate of d the balance of p omic level ving and investm	employment, ayments and

Course Contents/Syllabus:

Descriptors/Topics	CLO	Hrs
Unit I:	CLO 2	9
Introduction to Macroeconomics: Macroeconomics; Origin of Macroeconomics; Macroeconomics Vs Microeconomics; Stock and Flow Variables; Equilibrium and Disequilibrium; Static, Comparative Static and Comparative dynamic Analysis; Circular Flow of Income: two, three and four sector,		
Unit II:	CLO 1	9



f	
ts:	
CLO 2	9
CLO 3,4	9
/ f t f n	
CLO 5	9
on	
	CLO 2 CLO 3,4 CLO 5

Learning resources

Text:

- J.E. Stiglitz, and C.E. Walsh (2002), Principles of Economics, 3rd Edition, W.W. Norton & Company, New York.
- 2. Gregory Mankiw (2012)" Macro Economics" Worth Publ.
- 3. Olivier Blanchard(2016) "Macro Economics" Pearson publ.

References:

- 1. Gardner Ackeley, "MacroEconomics".
- 2. R. Stone and G. Stone (1962), *National Income and Expenditure*, Bowes and Bowes London
- 3. K.K. Dewitt: Modern Economic Theory, New Delhi, Shyamlal CharitableTrust.
- 4. Rudiger Dornbusch(2008) "Macro Economics" Mcgraw Hill (contemporary)

Online Resources/E-Learning Resources

1. https://open.umn.edu/opentextbooks/textbooks/33



Name of the Program: /Research Course Name History of English Literature		Semester	: 1	Level: UG			
		Course C Type	Code/ Course	UBAEN101/MAJM			
Course I	Pattern	2024		Version		1.0	
Teaching	g Scheme			1.0	As	sessment Schem	ie
Theory	Practical	Tutorial	Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/ Oral
3 Pre-Req		-	3 Nil	3	40	60	\
	earning Out		O):	1. To ac devel. 2. To ac genre literat. 3. To fa of En. 4. To a literat status. 5. To de through Englis. 2. Recognized repres. 3. Appredicted Analy events.	cquaint the stude opment of Engli quaint the student, movements a cure. miliarize student glish literature. Icquaint the student acree, based on and gender acreevelop analyticate gh reading and content the major sh Literature. Icquaint the student graph is a content to major the major the major the major the major the control opment of English comment of English comment of English comment of English comment of English graphs.	nts with major au nd literary term its with prominer students with race, ethnicity coss historical per al skills and crit comparing the imperior or movements a ajor authors bution of major a sh literature. of major social a e of the period.	growth and athors, works, s in English at writers diversity in y, economic riods. fical thinking cortant texts. and trends in and their authors to the

Course Contents/Syllabus:

Descriptors/Topics	CLO	Hrs
Unit I:	CLO 1	9
An introduction to the history of English literature: Chaucer to the Renaissance, Characteristics, Social and Political Movements		
Unit II:	CLO 2	9
An introduction to the history of English literature: Enlightenment to the Romantic, and Neo-classical Era, Characteristics, Social and Political Movements		



Unit III:	CLO 3	9
An introduction to the history of English literature: Victorian		
Age to the Post-Modern age, Characteristics, Social and Political		
Movements		
Unit IV:	CLO 4	9
Literary Genre: Poetry: ballad, epic, lyric, ode, elegy, sonnet,		
dramatic monologue		
Stanza forms (blank verse, heroic couplet, rhyme royal, quatrain,		
terza rima, ottava rima, Spenserian stanza, ballad stanza), Figures		
of Speech, Meter, Rhyme		
Unit V:	CLO 5	9
Literary Genre: Prose, Novel (Epistolary, gothic, picaresque, stream		
of consciousness),		
Drama: mystery / miracle plays, morality play, tragedy, comedy,		A
tragic-comedy, chronicle play, masque, comedy of humors,		
melodrama, comedy of menace,		
Total		45
		1

Learning resources

Text:

1. David Daiches. A Critical History of English Literature - Volume 1 and 2. Allied Publication.

Reference(s)

- 1. Borris Ford. Pelican Guide to English Literature: Vol. 1-9. Penguine. (Ch. 1 & 2)
- 2. Ronald Carter and John McRae. *The Routledge History of Literature in English: Britain and Ireland*. Routledge.

Online Resources/E-Learning Resources

1. https://literaturecurry.com/uploads/pdfnotes/7b6285c3-71be-46d0-ba44-2076b869409a The%20Routledge%20History%20of%20English%20Literature.pdf



Name of the Program: Course Name		BA-Libera /Research		Semester	r: 1	Level: UG	
		Introduction to Linguistics		Course Code/ Course Type		UBAEN102/M	IAJM
Course 1	Pattern	2024		Version		1.0	
Teachin	Teaching Scheme				As	sessment Schem	ie
Theory	Practical	Tutorial	Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/ Oral
3	-	-	3	3	40	60	X=2
	Objectives (C			 Know langua Comprof hum Asse of lang structure Familia written Compron langua 	the origins, strage ehend the application anistic and scients sthe general cludage, its phonore arize the student and spoken discrebend the termine the structure and	naracteristic of the logical sound system to use la ourse nology used to do do systems of langer	in the areas ne structure stem, word anguage in escribe and
Course I	earning Out	comes (CL	O):	1. Compr 2. Assess correct 3. Analyz 4. Explor	the various c tusage te the structure o e the theories rel	nics of language a components of language a	anguage for

Course Contents/Syllabus:

Descriptors/Topics	CLOs	Hrs
Unit I -	CLO 1	9
Aspects of language: Introduction, Origin of Language, Characteristics of Language: Animal and Human language Aspects of Linguistics: Definition, Linguistics as a Science, Scope and Linguistics, Levels of Linguistic, Analysis, Branches of Linguistics		
Unit II:	CLO 2	9



Fundamental Concepts in Linguistics: Background, Langue and Parole, Competence and Performance, Syntagm and Paradigm, Descriptive and Prescriptive, Synchronic and Diachronic		
Unit III: Morphology: Introduction to Etymology, Concept of Morpheme, Allomorph, Types of words, Root, stem and node, Processes of Word formation: Affixation, Back Formation, clipping, Blending, Antonomasia	CLO 4	9
Unit IV: Language and society: Language and Dialect, Caste and Class Dialect, Pidgin and Creole; Isogloss, Sociolinguistic Domain, Language Standardization, Varieties of English	CLO 3	9
Unit V: Language and Meaning: Meaning: Denotative, Connotative, Social, Thematic, Lexical and Grammatical Meaning, Semantic and Pragmatic Meaning, Sense and Reference	CLO 5	9
Total	7	45

Learning resources

Text:

1. Fromkin, V., Rodman, R., Hyams, H. *An Introduction to Language (9 th ed)*. Wadsworth Cengage Learning.

Reference(s)

1. Yule, George. The study of Language (3rd ed). Cambridge University Press.

Online Resources/E-Learning Resources

 $\underline{https://www.cambridge.org/highereducation/books/introducingmorphology/301B4B3CEB4045756E2}.\\112603B719426\#overview$



Name of		BA-Libera /Research	al Arts(H)	Semester	: 1	Level: UG		
Progran Course I	Course Name		d Systems logy	Course Code/ Course UBAPS101/MIN_DII		N_DIII		
Course l	Pattern	2024		Version 1.0				
Teaching	g Scheme	!-			As	sessment Scheme	e	
Theory	Practical	Tutorial	Total	Hours	CIA	ESA (End	Practical/	
			Credits		(Continuous Internal Assessment)	Semester Assessment)	Oral	
3	-	-	3	3	40	60	[8 - 8	
Pre-Req	uisite:	1	Nil			-	•	
	Objectives (C			are to: 1. Recog Psych under: 2. Explo each of the control of th	gnize the mannology is graduates, re the distinct so other sequentially re the nature seed by philogists of science ogate assumption psychological re the nature a rical, social, geologists function	chools of thought y, and consider all of scientific p losophers, histo ons about the material importance and importance ographical, moral	that replace ternatives rogress, as prians and methods that	
Course I	earning Out	comes (CL	O):	Comp development developm	opment of moder ibe the contri ology's most tra fy some of ology's history a field's developm in the historical mic) context ology developed ate knowledge ology (e.g., clini	ous processes invern psychology. ibutions of sor insformational peotic the important and describe their nent. I (e.g., social, powithin which	ne of the ople. events in significance olitical, and h modern e areas of relopmental,	

Course Contents/Syllabus:

CLOs	Hrs
CLO 1	9
	CLO 1



Unit II:	CLO 3	9	
Study of Wundt & German Psychology in the 1800s, Darwin & Galton in the 1800s, Darwin & Galton in the 1800s, Pioneers of the 1800s & 1900s			
Unit III:	CLO 3,5	9	
Titchener 's Structuralism & James ' Functionalism, Mental Testing & Applied Psychology, Gestalt Psychology	*		
Unit IV:	CLO 3,4	9	
Behaviorism: Watson & Pavlov, Skinner & More			
Unit V:	CLO 4	9	
Mental Health Treatment Part 1 & 2, Psychology in the Mid -1900s, Psychology in the 2000s		40.0	
Total		45	

Learning Resources

Texts:

 James F. Brennan, Catholic University of America, Washington DC, Keith A. Houde, Ave Maria University, History and Systems of Psychology, 8th Edition, Dec. 2022, ISBN: 9781009045834

References:

1. Goodwin, C. J. (2015). A History of Modern Psychology (5 th ed.). Hoboken, New Jersey: John Wiley & Sons, Inc.

Online Resources/E-Learning Resources

https://study.sagepub.com/shiraev2e



Name of the Program: Course Name		BA-Libera		Semester	: 1 Level: UG		
		(H)/Research Functional English 2024		Course Code/ Course Type		UEG101/SEC	
				Version		1.0	
Teachin	g Scheme			J.	As	sessment Schem	ie
Theory	Practical	Tutorial	Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/ Oral
1	1	=	2	3	50	15.1	
Pre-Requ	isite: Basic	knowledge	of English				7.6
	Objectives (C	-).		 To int To pu To pro Comm To un To im 	t in use the basic ovide an outline nunication. derline the nuan	s to functional Er e mechanics of Gr to effective Orga ces of communic practices of the st	rammar. nizational ation.
Course Learning Outcomes (CLO):				Compinstruct boards Write correct same connuction of the correct same communication of the correct same communication of the correct same connuction of the correct same correct same connuction of the correct same correct same connuction of the correct same connuction of the corr	error-free white trechnical Vocal language skills aposing emails, guish among valunication and coping an understess in an organizate their Critical	raphrasing, ng guidelines, ar le making optir abulary and gran to real-world sit reports, and preservious levels ofo ommunication b tanding of Comm	num use of omar. uations, such entations organizational arriers while nunication as

Course Contents/Syllabus:

Descriptors/Topics	CLOs	Hrs
Unit- I		
Remedial Grammar- Sentence &Tense, Voice, Narration,	CLO 1	3
Unit- II		
Words and Phrases: Word formation. Synonyms and Antonyms;	CLO 2	3
Homophones; Select vocabulary of about 500-1000 New words		
Unit- III		
Fundamental of Communication - Technical Communication: Meaning, Origin, Types, 7 Cs of Communication. The distinction between General and technical communication; Language as a tool of communication.	CLO 3	3
Unit- IV		



Levels of communication: Interpersonal, Organizational, Mass communications; The flow of Communication: Downward, Upward, Lateral of Horizontal (Peer group):	CLO 4	3
Unit- V		
Barriers to Effective Communication-	CLO 4	3
Physiological Barrier, Psychological Barrier, Socio-psychological Barrier		
Linguistic Barrier, Environmental Barrier, Ways to Overcome the Barriers		
Total		15

Practical Plan

Activity Number	Activity Title	Week Number	Details	CLO	Hours
1	Self- introduction and goal- setting	Week 1	1.1. Point to be taken care for introduction and Goal setting	CLO 1	2
		Week 2	1.2. Presentation by students		2
2	Speech Mechanism-	Week 3	2.1. Discussion about the function of speech mechanism	CLO 1,2	2
	Respiratory Organs. Phonatory	Week 4	2.2.2Practice of use of Articulatory System		2
	Organs. Articulatory Organs	Week 5	2.2.3. Practice of use of Articulatory System		2
3	Information gap activities	Week-6	3.1 Students will be given script to Listen.	CLO 3	2
		Week-7	3.2. Students listen to the teacher and fill in the boxes with appropriate dialogues.		2
4.	Situational dialogues	Week-8	4.1. Students will be assigned the situation to prepare script with partner.	CLO 4	2
		Week-9	4.2. Students will be act situation with partner with proper expression.		2
5	Group Discussion	Week10	5.1. The faculty will discuss the Do's and Don'ts of a group and show a video on it	CLO 5	2
		Week11	5.2. Students will form the group and prepare topic		2
		Week12	5.3. Students will form the group and prepare topic		2
6.	Film Review	Week13	6.1. Students will be given a movie clip to watch and write the review	CLO 5	2
		Week14	6.2. Students will present the reviews of the same	_	2 ge 12



7	Viva	Week15	Internal viva will be conducted in last lab	2
	·	10.	Total	30

Learning Resources

Texts:

- 1. Gerald J. Alred, Walter E. Oliu, Charles T. Brusaw The Handbook of Technical Writing with 2020 APA Update, Publisher. Bedford/St. Martin's; Publication date. June 15, **2020**.
- 2. Murphy, R. (2007) Essential English Grammar, CUP. ISBN: 8175960299.
- 3. C. Muralikrishna and S. Mishra (2011) Communication Skills for Engineers, Pearson education. ISBN: 9788131733844.

References:

- 1. Kaul. Asha. Effective Business Communication. PHI Learning Pvt. Ltd. New Delhi.2011.
- 2. Murphy, Essential English Grammar, CUP.
- 3. J S Nesfield, English Grammar: Composition and Usage

Online Resources/E-Learning Resources

https://eslspeaking.org/functional-english/



Name of		BA-Libera		Semester	:1	Level: UG	
Progran		/Research					
Course Name		Basics of Computer Applications		Course Code/ Course Type		UBALA101 /AEC	
Course 1	Pattern	2024		Version		1.0	
Teachin	g Scheme	Scheme			Assessment Scho		
Theory	Practical	Tutorial	Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/ Oral
2		. .	2	2	20	30	
Pre-Req	uisite:	1	Nil			y y	
	Dearning Out		O):	The objectives of Basics of Computer Application 1. Facilitate a basic understanding of types computers & their uses. 2. Provide a fundamental understanding of compliant hardware, software and components. 3. Familiarize the students with the computer networks and the internet. 4. Facilitate an understanding of the most commused business application software. 5. Describe how computers are used in various sof our society Students would be able to: 1. Identify the types of computers they see around them and understand the basic functionalities each one of them. 2. Understand the working of different compons a microcomputer and the role played by each overall working of the machine. 3. Identify the benefits of using computer networking and what they are made up of. 4. Understand the reasons for creation of the I and the major services that one can access internet			
				and the intern 5. Development of	ne major servic et op a basic fam	es that one can iliarity for work productivity suit	access using with the

Course Contents/Syllabus:



Descriptors/Topics	CLOs	Hrs
Unit I		
Introduction to Basics of Computers: Basic Applications of Computer. Operating System; Basics of Popular Operating Systems; The User Interface, Using Mouse; Using right Button of the Mouse and Moving Icons on the screen, Use of Common Icons, Status Bar, Using Menu and Menu-selection, Running an Application, Viewing of File, Folders and Directories, Creating and Renaming of files and folders, Opening and closing of different Windows; Using help; Creating Short cuts, Basics of O.S Setup; Common utilities	CLO 1	6
Jnit II		
Understanding Word Processing: Word Processing Basics; Opening and Closing of documents; Text creation and Manipulation; Formatting of text; Table handling; Spell check, language setting and thesaurus; Printing of word document. Using Spread Sheet: Basics of Spreadsheet; Manipulation of cells; Formulas and Functions; Editing of Spread Sheet, printing of Spread Sheet.	CLO 2	6
Unit III		
Introduction to Internet, WWW and Web Browsers: Basic of Computer networks; LAN, WAN; Concept of Internet; Applications of Internet; connecting to internet; What is ISP; Knowing the Internet; Basics of internet connectivity related troubleshooting, World Wide Web; Web Browsing software, Search Engines; Understanding URL; Domain name; IP Address; Using e-governance website	CLO 3	6
Jnit IV:		
Foundation of Information Systems: Real world information system Components of Information System Competing with Information Technology Fundamentals of strategic advantage Case (Class discussion): JetBlue & the Veterans Administration Case (Self Study): IPL Teams strike gold with information technology	CLO4	6
Unit V:		
Communications and collaboration: Basics of electronic mail; Getting an email account; Sending and receiving emails; Accessing sent emails; Using Emails; Document collaboration; Instant Messaging; Netiquettes.	CLO 5	6
Cotal		30

Learning Resources

Texts:

1. Introduction to computers by Peter Norton, 2010, TMH Education.

References:

1. Information Technology for Management by Efraim Turban, Linda Volume no, 2010, Wiley

Online Resources/E-Learning Resources

https://academic.oup.com/edited-volume/36330?login



Detailed Syllabus of Sem- II



Name of the Program: Course Name		BA-Liberal Arts(H) /Research Microeconomics-II		Semeste	er : II	Level: UG	
				Course Code/ Course Type		UBAEC103/M	IAJM
Course 1	Course Pattern 2024			Version	i .	1.0	
Teachin	eaching Scheme				Ass	sessment Scheme) (2
Theory	Practical	Tutorial	Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/ Oral
3	5	5	3	3	40	60	-
]	Pre-Requisi	te: Knowle	dge of Mic	roeconom	nics-I		No.
	Objectives (C			1. To far mark 2. Facil decis 3. Prov struc 4. Prov to m 5. Eval	tet imperfections a litate a basic under sion making by fir ride a fundamental cture. ride a basic insight aximize the welfar	ents with different and market failures rstanding of econo ms understanding of how resources are	s, omic the market e allocated
Course I	earning Out	comes (CL	0):	Defi for s Anal utilit and j Use diler Justi indiv	trategic decision-I lyze and interpre- ry function, domin pare to optimality. the tools to solve to mma and strategic fy seemingly irratividual or a firm.	uncertainty & ider naking. t economic tools ated strategy, Nasl	of expected h equilibrium isoners' rational

Descriptors/Topics	CLOs	Hrs
Unit I:	3- 03	
Decision Theory Under Uncertainty: Utility Functions & Expected Utility: Risk aversion and risk preference, insurance and investor's choice. Asymmetric information-Adverse selection of moral hazard (concept only)	CLO 1	9
Unit II:		1



Market Structure and Game Theory: Monopoly; pricing with market power; price discrimination; peak-load pricing; two-part tariff; monopolistic competition and oligopoly; game theory and competitive strategy.	CLO 2,3	9
Characteristics of oligopoly- non-collusive oligopoly models of Cournot, Conjectural variation & reaction functions, analysis of Cournot & Stack Elberg, Collusive Oligopoly and application of Prisoner's Dilemma of Nash equilibrium.		
Unit III:	CLO 4	9
Factor Pricing: Theory of wage - Choice between work and leisure – derivation of individual labour curve Derived demand for a single input and multiple inputs in competitive & imperfect competition markets, firm demand and industry demand, collective bargaining and exploitation rent & quasi rent. Theory of supply curve – total labour supply curve – demand for labour – determination of equilibrium in a competitive labour market- collective bargaining and wage rate.		
Unit IV:	CLO 4	9
Price Discrimination : Price discrimination —degree of price discrimination—equilibrium under price discrimination—Is price discrimination desirable?		
Unit V:	CLO 5	9
Welfare Economics: Conditions of pare to optimality in pure exchange and with production, optimality of perfect competition		
Total		45

Learning Resource

Text Reading:

- $1. \ \ Robert\ Pindyck\ and\ Daniel\ Rubinfeld\ ,\ Microeconomics,\ 2017,\ 9th\ edition,\ 2017,\ Pearson$
- 2. A. Koutsoyiannis, Modern Microeconomics, Second Edition, 2018, Palgrave Macmillan
- 3. Intermediate Microeconomics : A Modern Approach, 2014, Ninth Edition, W. W. Norton & Company

References:

- 1. L.M.B.Cabral, (2000) Introduction to Industrial Organization, MITPress.
- 2. P. Theodore C. Bergstrom and Hal R. Varian, Workouts in Intermediate Microeconomics: for Intermediate Microeconomics: A Modern Approach, Eighth Edition, 2010
- 3. K. Dutta(1999)Strategies and Games: Theory and Practice, MITPress.

Online Resource/ E-learning resource

https://sde.uoc.ac.in/sites/default/files/sde_videos/III%20Sem%20-BA%20Economics-%20Core-Micro%20Economics-%20II.pdf



Name of Program		BA-Libera /Research		Semeste	er: II	Level: UG		
	Course Name Macroeconomics- II Course Pattern 2024		nomics-	Course Type	Code/ Course	UBAEC104/MAJM		
Course l			Version		1.0			
Teachin	Teaching Scheme				Ass	essment Scheme		
Theory	Practical	Tutorial	Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/ Oral	
3	-	-	3	3	40	60	-	
]	Pre-Requisi	te: Knowle	dge of Mac		A. C.	A		
	Objectives (C			1. To a 2. To u fisca 3. To t polic and i 4. To a fram a log 5. To a India the r make	280	of money and into importance and l icy instruments. analyzing the ma- and their targets, as cycles and using the short-term fluche application of the macroeconomic	imitations of croeconomic instruments ing the policy uctuations in theory to the c issues and	
Course I	earning Out	comes (CL	0):	1. Elab cons invested 2. Under Mod 3. Com theorem 4. Under both 5. Anal	s would be able to: orate the Keynes p umption and other stment. erstand and replica el. prehend the key co ries and New Keyn erstand how exchar : Fixed and Flexibl lyze the basic concentration	theories of consumers the the concept of New clausian Theories. Inge rate is determine exchange rate re	mption and IS-LM assical ined under egime.	

Descriptors/ Topics:	CLOs	Hrs
Unit I:	CLO 1	9
Consumption Function and Investment Function Theories: Short run and long run consumption functions, APC, MPC, APS, MPS. Fundamental Psychological law of consumption; Implications of Keynesian Consumption Function; Factors influencing consumption function; Measures to raise Consumption Function; Theories of Consumption Function- Absolute, relative, permanent and life cycle income hypotheses.	Page	1.10



Unit II:	CLO 2	9
IS-LM Model: Goods Market Equilibrium: The derivation of the IS curve,		
Shiftin the IS curve; Money Market Equilibrium: The derivation of the LM curve, Shift in the LM curve;		
Self-work on: Intersection of the IS and LM curves: The simultaneous equilibrium of the Goods market and Money market; The role and relative effectiveness of fiscal and monetary policy.		
Unit III:	CLO 3	9
Recent Developments in Macro Economic Theory: The New Classical Economics: Rational expectations hypothesis: Policy ineffectiveness; Real Business Cycle Theory.		
Unit IV:	CLO 5	9
Exploring the Macro Economics of an Open economy: Balance of		
Payments-The current and capital account, Group Discussion/Industry expert lecture on	Α	
Balance of Payment situation in India. Determining equilibrium output in an open economy Mundell Fleming Model;		
Unit V:	CLO 4	!
Exchange rate system : Foreign Exchange Market: Fixed Vs Floating exchange rate; Determination of Exchange rate under fixed and flexible exchange rate;		
Purchasing Power Parity, Concepts: Depreciation, Devaluation; J-Curve effect		
Total		4

Learning Resource

Text Reading:

- 1. Dornbusch, Fischer and Startz, Macroeconomics, McGraw Hill, 11th edition, 2010.
- 2. N. Gregory Mankiw, Macroeconomics, Worth Publishers, 7th edition, 2010.
- 3. Paul R. Krugman, Maurice Obstfeld and Marc Melitz, International Economics, Pearson Education Asia, 9th edition, 2012.

References:

- 1. O. Blanchard and S. Fischer (1989), Lectures on Macroeconomics, MIT
- 2. N. Mankiw and D. Romer (1991), ed., New Keynesian Economics, MIT,2 Volumes. Selected Readings.

Online Resource/ E-learning resource

https://sde.uoc.ac.in/sites/default/files/sde_videos/SLM-ECO4B06-%20Macro%20Economics%20-%20H.pdf

https://sde.uoc.ac.in/sites/default/files/sde_videos/Macroeconomics.pdf



Name of		BA-Libera		Semeste	er: II	Level: UG	
Program:		/Research					
(1340 Course Pattern 2024		British Literature-I (1340 to 1660)		Course Code/ Course Type		UBAEN103/MAJM	
		2024		Version		1.0	
Teachin	g Scheme				Asse	essment Scheme	
Theory	Practical	Tutorial	Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/ Oral
3	-	-	3	3	40	60]x=x
1	Pre-Requisi	te: Nil					
Course C	Objectives (C	CO):		The obje	ectives of British L	iterature-I (1340 t	o 1660) are:
				of the 2. Comp religio 3. Comp 4. Acqui histor 5. Appra develo	rehend major lit ous movements of t rehend major litera- ire an understandin ical, religious and s hise the contribut opment of major lit	erary, social, pontion of the period ary trends during the figure of the written of the write the social context are the figure of the write the social context are the social context	olitical and he era a text in its
Course I	earning Out	comes (CL)	0):	Identi 14 th ,1: Assess of poets Companalyz Recognidenti thematunders drama Analythe si	rehend and learn to ze works in British gnize the elements fying the plot attic explanations and stand the structure attic devices used in the ze and evaluate di- gnificance of the land by analyzing the	ntury blogy and practica o critically and ac drama of drama and ana types, character d identifying the se e of a play and writing a play fferent genres by iterary age of the	esthetically lyzing and analysis, ettings and learn the discussing particular

Descriptor/ Topic:	CLOs	Hrs
Unit I:	CLO 1	9
Historical and Social background to the literature from 1340 to 1660- The Age of Chaucer (1340-1400) • The Renaissance Period (1500-1660		
Unit II:	CLO 2	9
Poetry- Poetic Forms, Types of Stanzas Geoffrey Chaucer: The Prologue to the Canterbury Tales	Page	e 21



Unit III:	CLO 5	9
Metaphysical Poetry: John Donne: The Canonization, The Ecstasies, Death be not		
Proud		
Andrew Marvell: 'To His Coy Mistress', 'The Definition of Love		
Unit IV:		
	CLO 3	9
Prose: Francis Bacon: Of Revenge, Of Marriage and Single		
Life, Of Truth		
Philip Sydney: Arcadia*		
Unit V:	CLO 4	9
Drama: Webster: Duchess of Malfi,		
Shakespeare: Tempest		
Total		45

Learning Resource

Text Reading:

- 1. Norton Anthology of English Literature. Vol. 1
- 2. Sukanta Chaudhuri. Ed. Bacon's Essays: A Selection. OUP

References:

1. Borris Ford ed. Pelican Guide to English Literature. Vol. 1, 2, 3. Penguin

Online Resource/ E-learning resource

https://www.manuscriptsonline.org/resources/mo/



Name of	the	BA-Libera	al Arts(H)	Semeste	er: II	Level: UG		
Program:		/Research						
Course Name Structure of English				Course	Code/ Course	UBAEN104/M	AJM	
		Language		Type				
Course 1		2024		Version		1.0		
Teaching Scheme				21000000	sessment Scheme			
Theory	Practical	Tutorial	Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/ Oral	
3	_	=	3	3	40	60	-	
]	Pre-Requisi	te: Nil						
	earning Out		0):	1. Enhagran Eng 2. Com and desc 3. Gras to in 4. Mak use of 5. Awa gran Students 1. Com struc anal 2. Spea 3. App Engl 4. Anal struc 5. Syste	ance the student inmaticality, accellish grammar aprehend various the difference riptive grammar. So the technical temprove their writing the them aware of the formatically correct is would be able to aprehend the range tures, applying student techniques lack and write grammatical known and write grammatical structure, grammatical structure, grammatical ematically analyzinglish and other	rms of grammatical and speaking skineir common "India rections thereof. about the need sentences ge of English grate the terminologearned in the course matically correct Enowledge to the acture. germs of word class	g about the nacy of sh grammar riptive and of description ills anism" in the of writing minatical gy and se. nglish. nalysis of ses, phrase thenomena	

Descriptors/Topics	CLOs	Hrs
Unit I:	CLO 1	9
Grammar: An Introduction, Descriptive prescriptive and teaching grammar Deductive and Inductive Grammar; Leaner's, Teacher's and Learner's Grammar Grammaticality and Acceptability of Language	1	
Unit II:	CLO 2page	e 2 ⁹ 3



Phrase and Clauses: Definition of Phrase, Types of Phrases, Definition of		
Clause, Types of clauses, Difference between Phrase, clause and Sentence Simple Sentence Patterns: Subject and Predicate, Form and Function,		
Linking, Intransitive and Transitive Verbs		
Unit III:	CLO 5	9
Phrase and Sentence Structure: Noun Phrase, Parts of a noun phrase, Modifiers of Noun Head, Verb Phrase, Prepositional Phrases, Sentence Analysis using tree diagram, Formal and Functional Analysis of Sentences		
Unit IV:	CLO 3	9
Simple, Compound and complex sentences : Simple sentence, Rules of Making simple, sentence, Subordinate clause and subordinating conjunction, Coordinate clause and coordinating conjunction, Transformation of simple, complex and compound sentence		
Unit V:	CLO 4	9
Phrasal Grammar: Rule of Phrasal Grammar, Binary Division, Immediate Constituent Analysis; IC analysis of Simple Sentences; IC analysis of Compound Sentences; Affix Hopping within Verb Phrases		
Total		45

Learning Resource Text Reading:

1. Bakshi, Raj N. (2005) English Grammar Practice. Hyderabad: Oriental Blackswan

References:

- 1. Conrad, Susan, Douglas Biber& Geoffrey Leech (2002) Longman Student Grammar of
- 2. Spoken and Written English. Longman (Pearson Education)

Online resource/E-learning resource

https://www.britishcouncil.in/english/online/classes/myenglish/course-content



Name of the Program: Course Name		BA-Liberal Arts(H) /Research Cognitive Psychology		Semester : II Course Code/ Course Type		Level: UG	
						UBAPS102/ M	IIN-D-III
Course l	Pattern	2024		Version	Ĺ	1.0	
Teachin	eaching Scheme				Ass	sessment Scheme	
Theory	Practical	Tutorial	Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/ Oral
3	- Pre-Requisi	-	3	3	40	60	
				 Exam repres Invest makir Analy cognir Discu 	otion, attention, are ine how language sented in the mind rigate problem-sol ag processes. Fize the role of tive functioning.	nd memory. e is acquired, proceed to the second se	d decision- otivation in
Course I	earning Out	comes (CL	O):	Family cognition Compattent: different Appreault	tive psychology, brehend of basic ion, perception, neet perspectives/theciate the in-depth res of memory. It is not the important etical positions white psychology. It is now the contract on the important in the important etical positions which is now the contract on how the contract is now the contract of the important etical positions which is now the contract of the important in the importan	historical develor c cognitive function memory and emotion meoretical approach understanding of more of empirical evithin various pro- gnitive perspective mention behavior and exp	etions like on through nes. the process vidence for ocesses of

Descriptors/Topics	CLOs	Hrs
Unit I:	CLO 1	6
Introduction: Concept of Cognition, Origin and historical connection of Cognitive psychology with other schools of Thought; Emergence of Modern Cognitive Psychology, Current Status, assumptions and methods of studying		
cognitive psychology, Indian approach to cognition Unit II:	CLO 2	6
Consciousness, Attention and Perception: Function and structure of Consciousness, Modern theories of consciousness, Indian views of consciousness. Information Processing approach: Attention and Perception, Theories of selective and Sustained attention, Perception: Perceptual organization, Top	CLO 2	Page 12



Down and Bottom up approaches, Subliminal perception, Pattern recognition in perception, Signal detection and Vigilance.		
Unit III:	CLO 3	6
General Phenomenon of learning: Learning vs. maturation, native response Tendencies & Temporary states of the organism (e.g. Fatigue, adaptation and drugs); Classical Theories of learning: Pavlov, Skinner, & Bandura; Neuro-physiology of learning, Learning and motivation Memory Processes; Models of Memory: Atkinson-Shifrin, Craik and Lockhart and Baddley Hitch Types of memory - working memory, semantic, episodic, procedural, eye-witness and flashbulb memory, traumatic and false memory, everyday memory; Approaches to memory-information processing & connectionist approach, Forgetting: Concept and Theories, Biochemical basis of memory		
Unit IV:	CLO 4	6
Decision Making and Problem: Solving Models & theories; Complex and uncertain decision making; Human problem-solving strategies- heuristics and algorithmic; expert and novice problem solvers; Artificial Intelligence.		
Unit V:	CLO 5	6
Emotion: Cognitive basis of emotion, Cognitive approaches in emotion: Lazarus, Arnold; Relation of emotion with attention, perception, memory, thinking; Application of cognitive approaches to intelligence and emotion in different fields, Emotional Intelligence		
Cotal		30

Learning Resources

Text:

1. Eysenck, M.W. (2012). Fundamentals of Cognition (2nd ed.). Psychology Press

References:

- 1. Parkin, A. J. (2013). Essential Cognitive Psychology. T & F India.
- 2. Levinthal C.F.: introduction to physiological psychology (3rd ed) New Delhi, prentice- hill of India private limited, 1990 new York Mc Graw Hill book company

Online resource/ E-learning resource

https://edge.sagepub.com/mcbridecp3e



Name of	f the	BA-Liber	al Arts	Semeste	er: II	Level: UG			
Program: Course Name		(H)/Research Effective Written		Course Code/ Course					
						UEG201/SEC			
	Course Pattern Teaching Scheme		Communication 2024						
Course 1						1.0			
Teachin	g Scheme	15			Ass	essment Scheme			
Theory	Practical	Tutorial	Total	Hours	CIA	ESA (End	Practical/		
			Credits		(Continuous	Semester	Oral		
					Internal	Assessment)	3-10-10-10-10-10-10-10-10-10-10-10-10-10-		
					Assessment)				
1	1	-	2	3	50	-).=		
1	Pre-Requisi	te: Basic	knowledge	of Englis	h	- i	**		
Course C	Objectives (C	CO):		The obje	ectives of Effective	Written Commun	nication are:		
					struct grammatic				
				effec	ctive communication	on.			
					ze business writing	skills and exposu	re in various		
				2. Utilize business writing skills and exposure in various dimensions of professional settings.					
				3. Demonstrate effective writing strategies in corporate					
				835 628000	munication.				
				4. Dev	elop understanding	of effective busi	ness writing		
				for v	vorkplace commun	ication.			
				5. Utili	ze presentation ski	lls and strategies	for exposure		
				in va	rious dimensions.		•		
Course I	earning Out	comes (CL	0).	Students	would be able to:				
Course	Jearning out	comes (el	J.		ognize and rec	tify common	grammatical		
					akes, both in one's				
					hers.	o (12 (11mg mm z			
					ly the different w	riting styles like	descriptive.		
					mentative etc.		1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		
					elop good technica	l documents for p	oresentations		
					sseminating techni				
					or writing to suit s		considering		
					, language, and	Note that the second of the se			
					nical writing.	<u>~</u>			
					ly critical thinking	skills to analyze d	ata and draw		
					ningful conclusions				

escriptors/Topics	CLOs	Hrs
Unit: I		
Constituents of Business Communication Requisites of Sentence Construction, Paragraph Development: Different elements of a paragraph, Techniques and Methods- Inductive, Deductive, Spatial, Linear, Chronological etc; The Art of Condensation-various steps. Paragraph Writing,	CLO 2	3
Unit: II		
Effective Writing Skills Elements and Principles of effective writing, Forms of written communication; Formal and Informal, Business Letters: Definition,	CLO 2	3 Page 2



Elements and Layouts, Types; Sales, Credit letters, Claim, Adjustment		
Letters etc.		
Unit: III		
Formal Communication Writing of CV &Resume, Memo, drafting an email, Press Release. Agenda, Minutes, Notices Unit: IV	CLO 3	3
Business Reports	CLO 4	3
Types; Significance; Structure, Style & Writing of Reports.	CLO 4	3"
Unit: V		
Presentation: Strategies & Techniques Presentation: Definition, Purpose, Types: Individual and Group Presentation, Strategies for Oral and Written Presentation, Nuances of Delivery-; Reading Method, Memorization, Impromptu and Speaking from the notes, Clarity of substance; emotion; Humour;; Overcoming Stage Fear; Audience Analysis & retention of audience interest; Audience Participation: Quizzes & Interjections.	CLO 5	3
Total		15

Practical Plan

Activity Number	Activity Title	Week Number	Details	CLO	Hours
1	An Introduction to vowel and consonant sound	Week 1	1.1. English vowels and consonants through focused sessions, where students will be introduced with different symbols and their sounds of English vowels and consonants.	CLO 1	2
		Week 2	1.2. Students will also practice in interactive drills and exercises to improve their articulation.		2
2	Stress & Intonation	Week 3	2.1. Activity of stress and intonation for proper pronunciation	CLO 2	2
		Week 4	2.2. Use of short sentences or phrases representing different emotions in certain contexts, and instruct them to experiment with variations in stress and intonation to convey diverse meanings		2
		Week 5	2.3. Practice session		2
3	Debate	Week-6	3.1 The faculty will discuss the Do's and Don'ts of debate.	CLO 3	2
		Week-7	3.2. Conduct debate thorough research and prepare well-supported arguments. At the end, a question answer session will be conducted to ensure participation of audience		2
4.	PPT Presentation	PPT Week-8 4.1. Prepare an effective PowerPoint		CLO 4	2
		Week-9	4.2. Students will be asked to give a presentation in the communication lab. To bind up the lab, a session of peer feedback is scheduled to ensure advice of		2
			students to bring refinement in PPT.	Pag	e 28

School of Humanities & Liberal Arts /BA Liberal Arts/2024 pattern



		Week10	4.3. cont. presentation activity.		2
5.	Public Speech	Week11	5.1. The faculty will guide on structuring their speech, and emphasizing delivery techniques like eye contact and body Language	CLO 5	2
		Week12	5.2. schedule practice sessions with feedback to help participants build confidence and improve their public speaking skills		2
6. Mock Interview		Week13	6.1. Students will be provided with the information about the job or situation for which they are interviewing	CLO 5	2
		Week14	6.2. Conduction of mock interview in a communication lab involves simulating a real-life interview scenario to help participants practice and enhance their interview skills.		2
7	Viva	Week15	Internal viva will be conducted in last lab	1	2

Learning resources

Text Reading:

- Business Communication for Success, University of Minnesota Libraries Publishing, ISBN 13: 9781946135056
- 2. Pal, Rajendra and Korlahalli, J.S. (2011) Essentials of Business Communication. Sultan Chand & Sons. ISBN: 9788180547294.
- 3. Kaul, Asha. (2014) Effective Business Communication. PHI Learning Pvt. Ltd. ISBN: 9788120338487.
- 4. Murphy, R. (2007) Essential English Grammar, CUP. ISBN: 8175960299.
- 5. Gupta N., Jain K., Business Communication, Sahitya Bhawan Publications, 2022

References:

- 1. J S Nesfield, English Grammar: Composition and Usage
- 2. Muralikrishna and S. Mishra, Communication Skills.

Online resource/ E-learning resource

https://www.indeed.com/career-advice/career-development/written-communication



Detailed Syllabus of Audit Courses



Name of		BA-Libera		Semester	:1	Level: UG		
	Program:		(H)/Research		ode/ Course ACUHV101/AC			
Course Name		UHV-I: Professional Ethics		Course C Type	ode/ Course	ACUHV101/AC		
Course l	Pattern	2024		Version		1.0		
	g Scheme				As	sessment Scheme		
Theory	Practical	Tutorial	Total	Hours	CIA	ESA (End Practi		
Theory	Tracticar	Tutoriai	Credits	Hours	(Continuous	Semester	Oral	
			Citaits		Internal	Assessment)	Orar	
					Assessment)	Assessmenty		
2	_	_	_	2	50	-	_	
Pre-Req	nisite:		Nil .	_	50		G G G G G G G G G G G G G G G G G G G	
	Depectives (Control of the Control of Contro		O):	1. To ma ethical 2. To explore be fold 3. To see person they p 4. To ma and cor 5. To ma and cor Students v 1. Equip the professi making 3. Refine the and phil 4. Assess the econom 5. Equip themselves	ke the students to behavior pose the student owed in profess asitize the student who will uphoursue their careed ake students undeporate Sustainate would be able to themselves with onal and person thend the need on The learner skills. Their business end to a buy. Themselves with wes and the second to the second themselves with the second themselves with the second themselves with the second themselves with the second the seco	ents to become a bld ethicsin profe er derstand Psycho hes erstand social resolity. an understanding al values. of ethics in s rs will hone th	portance of practices to responsible ession when blogical and sponsibility ng of moral, shaping their eir decision- besychological ecology, and erstanding of in and the	

Descriptors/Topics	CLOs	Hrs
Unit 1:		
Introduction: Individual and Professional Ethics: Introduction to		6
Professional Ethics, Morals, Values and Ethics - Personal and		
Professional- Sensé of Professional Ethics – Code of Ethics by NSPE- Making decisions with ethical dimensions–definition–roadmap to	CLO 1	



ethical decision making-common standards- internal obstacles - bias		
- empathy		
Unit2:		
Business Ethics : Philosophical approaches to Business Ethics – ethical reasoning – ethical issues in business - Social Responsibility of Business- conflict of interest–cultural relativism-Ethical leadership- Resisting un-ethical authority and domination-Global Business Ethics	CLO 1,3	6
Unit3:		
Psychological Approaches : Ethical Theories-Psychological and Philosophical approaches-Myths about Morality-conflict of interest inpsychological perspective - Courage-Integrity – ethical dilemma – Emotional Intelligence	CLO 2	6
Unit 4:		
Workplace Ethics: Ethics in changing domains of Research—academic integrity—intellectual honesty-Role of Engineers and Managers-Ethical issues in Diverse workplace — competition — free will- Confidentiality — employee rights — Intellectual property rights —discrimination	CLO 4	6
Unit 5:		
Safety, Responsibilities and Rights: Ecology, and Economy-Risk benefit analysis and reducing risk SDGs-Corporate social responsibility and Corporate Sustainability - CSR in India - Sustainability Case Studies	CLO 5	6
Total		30

Learning Resources:

Text:

1. Subramanian. R. Professional Ethics, Oxford Publication, 2013.

Reference(s)

- 1. Nagarasan. R. S. *Professional Ethics and Human Values*. New Age International Publications, 2006.
- 2. Mike W Martin and Roland Schinzinger, *Ethics in Engineering*,4th edition, Tata McGraw Hill Publishing Company Pvt Ltd, New Delhi,2014

Online Resources/E-Learning Resources

- 1. https://www.nspe.org/resources/ethics/code-ethics
- 2. https://www.toolshero.com/tag/ethical-decision-making/
- 3. https://pagecentertraining.psu.edu/public-relations-ethics/introduction-to-public-relations-ethics/lesson-1/ethical-theories/
- 4. https://peer.asee.org/case-studies-in-engineering-ethics.pdf



CIA Guidelines

- Online Quiz (Based on MCQ)- 20 marks
- Activity (with short Report Submission) 20 Marks
- Academic Sincerity 10 marks

Few of the suggested activities are Assignments, Debates, Poster presentations, Model making, Group presentation, Field visits and Group Discussions.

Few of suggested topics related to UHV1- Professional Ethics are: Debate Topics

- Ethical Approach versus Realistic Approach
- Individual and Social Approach
- · Dilemma between heart and Mind

Activity

- Analyze the wastage (Electricity or any other) at work place? How you managed.
- Assignment
- Analyze the code of ethics at work place
- If you fulfil the duties, rights will automatically fall in place. Justify the statement



Name of the		BA-Liber		Semester	: 1	Level: UG		
Program:	(H)/Resea			W. SBIN 100200-				
Course Name		IKS: Indian Family		POSSELLE PROSPERANTE LOS COLORS	Code/ Course	ACIKSLA101	/AC	
		System		Type		1.0		
Course l		2024		Version				
	g Scheme			-		sessment Scheme		
Theory	Practical	Tutorial	Total	Hours	CIA	ESA (End	Practical/	
			Credits		(Continuous	Semester	Oral	
					Internal	Assessment)		
					Assessment)	957	// -	
2	=	-		2	50	(=)	(IE)	
Pre-Req	uisite:	1	Nil					
Course I	earning Out	comes (CL	O):	family 2. To make family 3. Familia India, in 4. To make change 5. To enale need of	system. The students award Culture. The diverse family The students under The pattern of family	to accept the char	different evalent in amilies, ages of	
				values. 2. Examinate tradition 3. Evaluate within 4. Critical future to 5. Evaluate	ne the significance ns, and celebrati te the roles and a different family ly assess conten rends impacting	nporary issues an Indian families. Ie in shaping soc	ls, ture. Findividuals d predict	

Descriptors/Topics	CLOs	Hrs
Unit I:		
Introduction to the Indian Family System: Understanding the importance of the family system, Family Structure, Functions, and Relationships, Core values and principles, Types of Families in India	CLO 1	6
Unit II:		
Practices within the Indian Family System: Family development, Role of family members: parents, children, grandparents, and other relatives. Marriage and its significance in Indian families: Arranged marriages vs. love marriages. Gender roles and expectations within the family.	CLO 2	6
Unit III:		Page I 34



Dynamics of the Indian Joint Family: In-depth exploration of the joint family system: its origin, structure, and functioning. Generational Shifts and Evolving Roles- Focusing on changing roles,	CLO 3	6
responsibilities, and expectations of family members.		
Interpersonal Relationships and Communication: The intricacies of		
communication patterns within the Indian joint family, including conflict		
resolution, decision-making processes, and the impact of effective		
communication on maintaining family cohesion.		
Gender Dynamics and Women's Empowerment: The role of gender		
within the Indian joint family system, discussing shifts in women's		
empowerment, changing perceptions of gender roles, and the challenges		
and opportunities for women in such families.		
Unit IV:		
Changing Family Patterns in Contemporary India: The emergence	CLO 4	6
ofnuclear families: reasons and implications.	A	
Dual-career families and the evolving role of women.		
The concept of individualism and its effect on family dynamics.		
Technological advancements and their impact on family communication		
and interactions.		
Challenges faced by modern Indian families: mental health, work-life		
balance, generational gaps.		
Unit V:		
Current Relevance and Future Prospects: Analyzing the relevance of	CLO 5	6
the Indian family system in the context of societal changes.		
Comparing the Indian family system with family systems in other		
cultures.		
The role of education, media, and popular culture in shaping perceptions		
of family.	/	
Strategies for maintaining strong family bonds in the face of evolving		
societal norms.		
Exploring potential adaptations and innovations to preserve the positive		
aspects of the Indian family system		
Total		30

Learning Resource

Text Reading:

1. Indian Family System: The Concept, Practices and Current Relevanceby Bal Ram Singh

Reference

1. The Family in India, by Tulsi Patel, SAGE Publications Inc, ISBN: 9780761933885

Online resource/ E-learning resource

- nttps://prepp.in/news/e-492-structural-and-functional-changes-in-the-indian-family-system-indian-society-notes
- pa https://prepp.in/news/e-492-structural-and-functional-changes-in-the-indian-family-system-indian-society-notes



Learn | Grow | Achieve

CIA Guidelines

- Online Quiz (Based on MCQ)- 20 marks
- Activity (with short Report Submission) 20 Marks
- Academic Sincerity 10 marks

Few of the suggested activities are Assignments, Debates, Group presentation, and Group Discussions.

Few of suggested topics related to IKS-Indian Family System: **Debate Topics**

- Nuclear family vs Joint Family System
- Love marriage vs Arranged Marriage

Activity

Assignment



MINOR COURSES



Minor Course Curriculum

Preamble:

The Minor Courses offered at Pimpri Chinchwad University are designed to equip students with practical skills and diverse perspectives to thrive in the modern world. Through minors focused on data analysis, environmental sustainability, digital media, and cyber-security, students gain experience and interdisciplinary knowledge. These minors encourage versatility, adaptability, and the ability to leverage technology to solve complex problems. Students explore subjects outside their primary focus, develop complementary abilities, and gain a deeper appreciation for diverse cultures and perspectives.

Vision:

To be a leading university inspiring academic and personal growth and transforming lives

Mission:

- To foster academic excellence, innovation and social responsibility by providing a holistic and inclusive learning ecosystem.
- To prepare students to be responsible ethical global citizens and leaders through industry-relevant curriculum, international exposure and skill development.
- To imbibe research and entrepreneurship aptitude among students
- To help and facilitate the students Learn, Grow, and achieve their full potential.



Program Outcomes

Programme Outcomes (POs):

PO 1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



Course Structure

List of Minor Courses	

Web Development (WD)

Offering School: School of Engineering & Technology (ET)

Course	Name of Course	Teachi	Evaluation Scheme			
Code		Sem	Credits	Hours	CIA	ESA
UETWD101	WD Minor1: Introduction of HTML	# II/ *IV	2	2	20	30
UETWD102	WD Minor2: Getting started with JavaScript	# III/ *V	2	2	20	30
UETWD103	WD Minor3: Server-side Programming with Node.js	# IV/*VI	2	2	20	30
UETWD104	WD Minor4: Front-end Development with React & Type Script	# V/*VII	2	2	20	30
UETWD105	WD Minor5: back-end frameworks - Django, Ruby on Rails,	# VI/*VIII	2	2	20	30

Robotics Process Automation (RP)

Offering School: School of Engineering & Technology (ET)

Course	Name of Course	Teaching Scheme			Evaluation Scheme	
Code		Sem	Credits	Hours	CIA	ESA
UETRP101	RP Minor1: Basics of Robotics Process Automation	# II/ *IV	2	2	20	30
UETRP102	RP Minor2: Fundamentals of RPA Business Analysis	# III/ *V	2	2	20	30
UETRP103	RP Minor3: Automation Techniques in RPA	# IV/*VI	2	2	20	30
UETRP104	RP Minor4: Future of RPA with Business Automation	# V/*VII	2	2	20	30
UETRP105	RP Minor5: RPA Tool	# VI/*VIII	2	2	20	30

Artificial intelligence & Machine Learning (ML)

Offering School: School of Engineering & Technology (ET)

Sr.no	Name of Course	Teaching Scheme				luation heme
		Sem	Credits	Hours	CIA	ESA
UETML101	ML Minor1: Artificial Intelligence	# II/ *IV	2	2	20	30
UETML102	ML Minor2: Machine Learning	# III/ *V	2	2	20	30
UETML103	ML Minor3: Natural Language Processing	# IV/*VI	2	2	20	30
UETML104	ML Minor4: Optimization Techniques	# V/*VII	2	2	20	30
UETML105	ML Minor5: Deep Learning For Computer Vision	# VI/*VIII	2	2	20	30



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Data Science (DS)

Offering School: School of Engineering & Technology (ET)

Sr.no	Name of Course	Teachi	Evaluation Scheme			
		Sem	Credits	Hours	CIA	ESA
UETDS101	DS Minor1: Applied Data Science With Python	# II/ *IV	2	2	20	30
UETDS102	DS Minor2: Data Visualization With Tableau	# III/ *V	2	2	20	30
UETDS103	DS Minor3: Business Analytics	# IV/*VI	2	2	20	30
UETDS104	DS Minor4: Data Analytics	# V/*VII	2	2	20	30
UETDS105	DS Minor5: Generative AI	# VI/*VIII	2	2	20	30

List of Minor Courses

Media Communications

Offering School: School of media and communications studies

Course	Name of Course	Teaching Scheme Sem Credits Hours			Evaluation Scheme	
Code					CIA	ESA
UMSMM101	MM Minor1: Literary Study	# II/ *IV	2	2	20	30
UMSMM102	MM Minor2: Digital Media Production	# III/ *V	2	2	20	30
UMSMM103	MM Minor3: Photography	# IV/*VI	2	2	20	30
UMSMM104	MM Minor4: Performing Arts - Theater	# V/*VII	2	2	20	30
UMSMM105	MM Minor5: Film Studies	# VI/*VIII	2	2	20	30

Psychology (PSY)

Offering School: School of science

Name of Course	Teaching Scheme			Evaluation Scheme	
	Sem	Credits	Hours	CIA	ESA
PSY Minor1: Introductory Psychology	# II/ *IV	2	2	20	30
PSY Minor2: Foundations of Social Psychology	# III/ *V	2	2	20	30
PSY Minor3: Theories of Personality Development	# IV/*VI	2	2	20	30
■SY Minor4: Industrial Psychology	# V/*VII	2	2	20	30
PSY Minor5: Mindfulness and Mental Health	# VI/*VIII	2	2	20	30
	PSY Minor1: Introductory Psychology PSY Minor2: Foundations of Social Psychology PSY Minor3: Theories of Personality Development PSY Minor4: Industrial Psychology	PSY Minor1: Introductory Psychology # II/*IV PSY Minor2: Foundations of Social # III/*V Psychology # III/*V Psy Minor3: Theories of Personality # IV/*VI Development # IV/*VI TPSY Minor4: Industrial Psychology # V/*VII	Sem Credits PSY Minor1: Introductory Psychology # II/*IV 2 PSY Minor2: Foundations of Social Psychology # III/*V 2 PSY Minor3: Theories of Personality Development # IV/*VI 2 PSY Minor4: Industrial Psychology # V/*VII 2	Sem Credits Hours PSY Minor1: Introductory Psychology # II/*IV 2 2 PSY Minor2: Foundations of Social Psychology # III/*V 2 2 PSY Minor3: Theories of Personality Development # IV/*VI 2 2 PSY Minor4: Industrial Psychology # V/*VII 2 2	Name of Course Teaching Scheme Secondary

Nutrition (NUT)

Offering School: School of science

Course	Name of Course	Teaching Scheme			Evaluation Scheme	
Code		Sem	Credits	Hours	CIA	ESA
USCNUT101	NUT Minor1: Human Nutrition	# II/ *IV	2	2	20	30



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USCNUT102	NUT Minor2: Lifestyle Management	# III/ *V	2	2	20	30
USCNUT103	NUT Minor3: Introduction to Weight Management	# IV/*VI	2	2	20	30
	NUT Minor4: Food Quality and Management	# V/*VII	2	2	20	30
USCNUT105	NUT Minor5: Novel Foods and Application	# VI/*VIII	2	2	20	30

Design Thinking and Methodologies (DM)

Offering School: Pune Design School (SD)

Course Code	Name of Course	Teachi	Evaluation Scheme			
		Sem	Credits	Hours	CIA	ESA
USDDM101	DM Minor1: Design Thinking	# II/ *IV	2	2	20	30
USDDM102	DM Minor2: Brand Identity Design	# III/ *V	2	2	20	30
USDDM103	DM Minor3: Digital tools for 2D design	# IV/*VI	2	2	20	30
USDDM104	DM Minor4: Physical model making/ Prototyping	# V/*VII	2	2	20	30
USDDM105	DM Minor5: Digital Tools for 3D design	# VI/*VIII	2	2	20	30

Economics & Finance (FE)

Offering School: School of Management (SM)

Course Code	Name of Course	Teach	Evaluation Scheme			
	STATE OF THE STATE	Sem	Credits	Hours	CIA	ESA
USMFE101	FE Minor1: Micro-economics	# II/ *IV	2	2	20	30
USMFE102	FE Minor2: Fundamentals of Accounting	# III/ *V	2	2	20	30
USMFE103	FE Minor3: Principles of Finance	# IV/*VI	2	2	20	30
USMFE104	FE Minor4: Cost anfd Management Accounting	# V/*VII	2	2	20	30
USMFE105	FE Minor5: Macro economics	# VI/*VIII	2	2	20	30

Entrepreneurship and Innovations (EI)

Offering School: School of Management (SM)

Course Code	Name of Course	Teachi	Evaluation Scheme			
		Sem	Credits	Hours	CIA	ESA
USMEI101	EI Minor1: Entrepreneurship-New venture Development	# II/ *IV	2	2	20	30
USMEI102	EI Minor2: Rural Entrepreneurship	# III/ *V	2	2	20	30
USMEI103	EI Minor3: Design Thinking	# IV/*VI	2	2	20	30
USMEI104	EI Minor4: Institutional and Legal framework for Startups and small Businesses	# V/*VII 2 2		20	30	
USMEI105	EI Minor5: Managing creativity and learning organizations	# VI/*VIII	2	2	20	30

Drugs & Healthcare (DH)

Offering School: School of Pharmacy (SP)

Course	Name of Course	Teach	Evaluation Scheme			
Code		Sem	Credits	Hours	CIA	ESA
USPDH101	DH Minor1: Health and hygiene	# II/ *IV	2	2	20	30
USPDH102	DH Minor2: Know your drugs	# III/ *V	2	2	20	30



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USPDH103	DH Minor3: Complementary and alternative medicine	# IV/*VI	2	2	20	30
USPDH104	DH Minor4: Drug Discovery	# V/*VII	2	2	20	30
USPDH105	DH Minor5: Forensic Science	# VI/*VIII	2	2	20	30

Software Application Design and Development (AD)

Offering School: School of Engineering and Technology (Computer Applications)

Course	Name of Course	Teachi	Evaluation Scheme			
Code	5000 CH 500 400 CH 500 CH 700 CU 500 CH 700 CU 500 CH 500	Sem	Credits	Hours	CIA	ESA
UETAD101	AD Minor1: System Analysis and Design	# II/ *IV	2	2	20	30
UETAD102	AD Minor2: User Experience and Design	# III/ *V	2	2	20	30
UETAD103	AD Minor3: Introduction to GitHub.	# IV/*VI	2	2	20	30
UETAD104	AD Minor4: Introduction to Gaming Applications.	# V/*VII	2	2	20	30
UETAD105	AD Minor5: Mobile Application Development	# VI/*VIII	2	2	20	30

Cyber Security (CS)

Offering School: School of Engineering and Technology (Computer Applications)

Course Code	Name of Course	Teachi	Evaluation Scheme			
		Sem	Credits	Hours	CIA	ESA
UETCS101	CS Minor1: Cyber Ethics, Cyber Law and Cyber Policy	# II/ *IV	2	2	20	30
UETCS102	CS Minor2: Introduction to Cryptography	# III/ *V	2	2	20	30
UETCS103	CS Minor3: Social Media Security.	# IV/*VI	2	2	20	30
UETCS104	CS Minor4: Introduction to Block Chain.	# V/*VII	2	2	20	30
UETCS105	CS Minor5: Data Security & Privacy.	# VI/*VIII	2	2	20	30

English Literature (E)

Offering School: School of Liberal Arts (SL)

Course	Name of Course	Teachi	Teaching Scheme			
Code	\$46.000 (1990)(1990 (1990)(1990 (1990)(1990 (1990)(1990 (1990 (1990)(1990)(1990 (1990)(1990 (1990)(1990)(1990)(199	Sem	Credits	Hours	CIA	ESA
USLAE101	E Minor1: English for Competitive Examinations-I	# II/ *IV	2	2	20	30
USLAE102	E Minor2: English for Competitive Examinations-II	# III/ *V	2	2	20	30
USLAE103	E Minor3: English for Competitive Examinations-III	# IV/*VI	2	2	20	30
USLAE104	E Minor4: English for Competitive Examinations-IV	# V/*VII	2	2	20	30
USLAE105	E Minor5: English for Competitive Examinations-V	# VI/*VIII	2	2	20	30



English (E) Offering School: School of Liberal Arts (SL) Evaluation Course Scheme **Teaching Scheme** Name of Course Code Credits Hours Sem CIA **ESA** Learning English With Shakespeare-Romeo # II/ *IV USLAM101 2 40 30 and Juliet (Minor-I) Learning English With Shakespeare-Hamlet 2 40 USLAM102 # III/ *V 2 30 (Minor-II)

*: Courses offered for B Tech, B Design

^{#:} Courses offered for B Sc, BBA, Media, and Management & Liberal Arts



Course Nomenclature

Course Title	Course Code	Name of Course
Web Davidson of (WD)	UETWD101	WD Minor1: Introduction of HTML
Web Development (WD)	UETWD102	WD Minor2: Getting started with JavaScript
Robotics Process	UETRP101	RP Minor1: Basics of Robotics Process Automation
Automation (RP)	UETRP102	RP Minor2: Fundamentals of RPA Business Analysis
Artificial Intelligence &	UETML101	ML Minor1: Artificial Intelligence
Machine Learning (AIML)	UETML102	ML Minor2: Machine Learning
Data Science	UETDS101	DS Minor1: Applied Data Science With Python
(DS)	UETDS102	DS Minor2: Data Visualization With Tableau
Media Communications	UMSMM101	MM Minor1: Literary Study
(MM)	UMSMM102	MM Minor2: Digital Media Production
Psychology	USCPSY101	PSY Minor1: Introductory Psychology
(PSY)	USCPSY102	PSY Minor2: Foundations of Social Psychology
Nutrition	USCNUT101	NUT Minor1: Human Nutrition
(NUT)	USCNUT102	NUT Minor2: Lifestyle Management
Design Thinking	USDDM101	DM Minor1: Design Thinking
Methodologies (DM)	USDDM102	DM Minor2: Brand Identity Design
Economics and Finance	USMFE101	FE Minor1: Micro-economics
(FE)	USMFE102	FE Minor2: Fundamentals of Accounting
Entrepreneurship and	USMEI101	EI Minor1: Entrepreneurship-New venture Development
Innovations (EI)	USMEI102	EI Minor2: Rural Entrepreneurship
Drugs and Healthcare	USPDH101	DH Minor1: Health and hygiene
(DH)	USPDH102	DH Minor2: Know your drugs
Software Application	UETAD101	AD Minor1: System Analysis and Design
Design and Development (AD)	UETAD102	AD Minor2: User Experience and Design
Cyber Security	UETCS101	CS Minor1: Cyber Ethics, Cyber Law and Cyber Policy
(CS)	UETCS102	CS Minor2: Introduction to Cryptography
English Literature (EL)	USLAE101	E Minor1: English for Competitive Examinations-I
English Literature (EL)	USLAE102	E Minor2: English for Competitive Examinations-II
English (E)	USLAM101	E Minor 1: Learning English With Shakespeare-Romeo and Juliet
English (E)	USLAM102	E Minor2Learning English With Shakespeare-Hamlet (Minor-II)



COURSE CURRICULUM

Name of Program		B. Tech		Semester:	# II / IV*	Level: UG	
Course 1	Name	Introduction of HTML		Course Code/Course Type		UETWD101 /	Minor
Course 1	Pattern	2024		Version		1.0	
Teachin	g Scheme	a and so rother			As	sessment Schen	ne
Theory	Practical	Tutorial	Total	Hours	CIA	ESA (End	Practical/
•		500000000000000000000000000000000000000	Credits	10.000000000000000000000000000000000000	(Continuous Internal	Semester Assessment)	Oral
					Assessment)		
2			2	2	20	30	
(67	uisite: Bas	27	ge of comp	1. Define 2. HTML browser 3. To famic concept 4. To learn 5. To desi	the principle of is highly fle is. User friendly iliarize students is.	ction of HTML Web page design xible and supp y and an open tec with Web Progra d Web scripting I pealing layouts g CSS	orted on all chnology. amming basic
Course I	earning Ou	tcomes (CL	O):	 Define Visuali Recogn Introdu 	the principle of ze the basic con- ize the elements ce basics concep- page Layout and	Web page design cept of HTML. s of HTML. ot of CSS.	1

Course Contents/Syllabus:

Descriptors/Topics	CLOs	Hours
UNIT I		
Introduction To Web: Introduction to web browsers and Web servers.	CLO 1	6
Web Standards, Basics of HTTP and HTTPS protocols, Brief Introduction		
of HTML, Basic structure of an HTML document.		
UNIT II		
Introduction to HTML: What is HTML? HTML Documents, Basic	CLO 2	6
structure of an HTML document, Creating an HTML document, Mark up		
Tags, Heading-Paragraphs, Line Breaks.		
UNIT III		
Introduction to elements of HTML: Working with Text, Formatting Tags,	CLO3	6
Working with Lists, Tables, images, Working with Hyperlinks, Frames,		
HTML Color Coding, Marquee Elements, Media (Audio, Video), Working		
with Forms and controls.		
UNIT IV		
CSS FUNDAMENTAL: Concept of CSS, How to use CSS, Creating	CLO4	6
Style Sheet, CSS Properties, CSS Styling (Background, Text Format,	According to the Control of the Cont	
Controlling Fonts), block elements and objects, Lists and Tables. CSS Id		
and Class, Box Model (Introduction, Border properties, Padding		



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Properties, Margin properties).		
UNITV		
Advanced CSS: CSS Classes, Child-Class (Nested CSS), Colors, Text, Background, Border, Margin, Padding, and Positioning (flex, grid, inline, and block).	CLO5	6
Total Hours		30

Learning resources

Text books:

- Kogent Learning Solutions Inc, Web Technologies: HTML, JAVASCRIPT, PHP, JAVA, JSP, XML and AJAX, Blackbook, Dreamtech Press, Second Edition, ISBN: 9788177228496.
- 2. Raymond Camden, Andy Matthews, JQuery Mobile Web Development Essentials, Packt Publishing, Second Edition, 9781782167891.

Reference Books:

- 1. Steven M. Schafer, "HTML, XHTML and CSS", Wiley India Edition, Fourth Edition, 978-81-265-
- 2. Dr.HirenJoshi, Web Technology and Application Development, DreamTech, First, ISBN:978-93-5004-088-1
- 3. Ivan Bayross,"Web Enabled Commercial Application Development Using HTML, JavaScript, DHTML and PHP, BPB Publications, 4th Edition, ISBN: 978-8183330084.

URLs - List of Online Courses

- 1. https://www.dcpehvpm.org/E-Content/BCA/BCA-II/Web%20Technology/the-completereference-html-css-fifth-edition.pdf
- 2. https://developer.mozilla.org
- 3. https://www.w3schools.com



COURSE CURRICULUM

Name of Program	me of the CSE			Semester: # III / *V	Level: UG				
Course 1	Name	1000	g started v	vith Java		UETWD102/Minor			
		Script			Code/Course Type				
Course 1		2024	-SEE NEED AN		Version	1.0			
		aching			9300003939990	nent Scheme			
Th	Pr	Tut	Total	Hours	CIA	ESA	Practical/		
			Credits		(Continuous	(End	Oral		
					Internal	Semester			
_					Assessment)	Assessment)			
2	L		2	2	20	30			
Pre-Reg			of HTML						
Course Objectives (CO):				2. Jar 3. Er 4. W ac 5. To	 JavaScript to enhance web page interactivity. Enable dynamic content updates. Web applications using XML for enhanced usability and accessibility. 				
Course Learning Outcomes (CLO)			nes (CLO)						
				1. Cr	Create basic web page using images, links, list and tables.				
				2. U1	Understand basics of java script for developing dynamic				
				web page.					
				9000	Design responsive dynamic web pages implementing the				
				fundamental concepts of Java Script.					
					Implement the basics of scripting and Event Handling.				
					Developing dynamic web pages using XML.				
3					veloping dynamic web pag	co using Auvil.			

Course Contents/Syllabus:

Descriptors/Topics	CLO	Hours
UNIT I		
Introduction to XHTML: Introduction, Formatting text by using tags, using lists and backgrounds, Creating hyperlinks and anchors. Style sheets, CSS formatting text using style sheets, formatting paragraphs using style sheets.	CLO 1	6
UNIT II		
Java Script: Introduction, Client-Side JavaScript, Server-Side JavaScript, JavaScript Objects, JavaScript Security, Operators, statements.	CLO 2	6
UNIT III). 	
Core JavaScript (Properties and Methods of Each): Array, Boolean, Date, Function, Math, Number, Object, String.	CLO 3	6
UNIT IV		
Events and Event Handlers: General Information about Events, Defining	CLO 4	6



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Total Hours		
Documents, Creating XML DTDs, XML Schemas, XSL		-
XML: Introduction to XML, Anatomy of an XML, document, Creating XML	CLO 5	6
UNIT V	*	
Mouse Up, on Move, on Reset, on Resize, on Select, on Submit, on Unload		
Load, on Mouse Down, on Mouse Move, on Mouse Out, on Mouse Over, on		
Drag Drop, on Error, on Focus, on Key Down, on Key Press, on Key Up, on		
Event Handlers, event, on Abort, on Blur, on Change, on Click, on DblClick, on		

Learning resources

Text Books:

- 1. Robert W.Sebesta, "Programming the World Wide Web", Pearson Edition
- 2. HTML and XHTML The complete Reference, Thomas Powell, Tata McGrawHill
- 3. JavaScript 2.0 : The Complete Reference, Second Edition by Thomas Powell and Fritz Schneider

Reference Books:

- 1. Web Design The complete Reference, Thomas Powell, Tata McGrawHill_
- 2. Online Resources/E-learning Resources:
- 3. https://www.w3schools.com/js/
- 4. https://www.geeksforgeeks.org/javascript/



COURSE CURRICULUM

Name of the Program: Course Name		B Tech Basics of Robotics Process Automation		Semester: # II / IV* Course Code/ Course Type		Level: UG UETRP101/Minor	
Teachin	g Scheme	10.			A:	ssessment Schen	ne
Theory	Practical	Tutorial	Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/ Oral
2	-	-	2	2	20	30	-
Course Objectives (CO):			The objectives of Basics of Robotics Process Automation are: 1. To recognize the components of Robots process Automation components 2. To articulate the principles Process automation in software development life cycle (RPA eco system) 3. To learn IVR flow of bots, robots in predefined dataset 4. To build the Robot automation using NLP 5. To design, and develop real time Robot process automation for any website, ERP database or any infotainment portal.				
Course Learning Outcomes (CLO):		At the end of the course, the student will be able to, 1: Describe RPA, where it can be applied and how it's implemented. 2: Describe the different types of variables, Control Flow and data manipulation techniques. 3: Identify and understand Image, Text and Data Tables Automation. 4: Describe how to handle the User Events and various types of Exceptions and strategies. 5: Understand the Deployment of the Robot and to maintain the connection.					

Course Contents/Syllabus:

Descriptors/Topics		Hours
UNIT I		
Introduction To Robotic Process Automation:	CLO 1	6
Scope and techniques of automation, Robotic process automation, Benefits		
of RPA, Components of RPA, RPA platforms, The future of automation.		
Processes & Flowcharts - Programming Constructs in RPA - What		
Processes can be Automated - Types of Bots - Workloads which can be		
automated - RPA Advanced Concepts - Standardization of processes - RPA		
Development methodologies - Difference from SDLC - Robotic control		
flow architecture - RPA business case - RPA Team - Process Design		
Document/Solution Design Document - Industries best suited for RPA -		



Learn	Grow	Ach	ieve
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Risks & Challenges with RPA - RPA and emerging ecosystem.		
UNIT II		
RPA Tool Introduction and Basics:	CLO 2	6
Introduction to RPA Tool, The User Interface, Variables, Managing		
Variables Managing Arguments, Arguments and name space, Control		
Flow, Control Flow Introduction, If Else Statements, Loops, Advanced		
Control Flow, Sequences, Flowcharts, About Control Flow, Control Flow		
Activities, The Assign Activity, The Delay Activity, The Do While		
Activity, The If Activity, The Switch Activity, The While Activity, The For		
Each Activity, The Break Activity, Data Manipulation, Data Manipulation		
Introduction, Scalar variables, collections and Tables, Text Manipulation,		
Data Manipulation, Gathering and Assembling Data		
UNIT III		
Advanced Automation Concepts & Techniques: Recording Introduction, Basic and Desktop Recording, Web Recording, Input/Output Methods, Screen Scraping, Data Scraping, Scraping advanced techniques, Selectors, Defining and Assessing Selectors, Customization, Debugging, Dynamic Selectors, Partial Selectors, RPA Challenge, Image, Text & Advanced Citrix Automation, Introduction to Image & Text Automation, Image-based automation, Keyboard based automation, Information Retrieval, Advanced Citrix Automation challenges, Best Practices, Using tab for Images, Starting Apps, Excel Data Tables & PDF, Data Tables in RPA, Excel and Data Table basics, Data Manipulation in excel, Extracting data from pdf, with and without OCR	CLO3	6
UNIT IV		
Handling User Events & Assistant Bots, Exception Handling:	CLO4	6
What are assistant bots, Monitoring system event triggers, Hotkey triggers,		
Mouse trigger, System trigger, Monitoring image and element triggers, An		
example of monitoring email, Example of monitoring a copying event and		
blocking it, Launching an assistant bot on a keyboard event.		
Exception Handling: Debugging and Exception Handling, Debugging		
Tools, Strategies for solving issues, and Catching errors.		
UNIT V Deploying And Maintaining The POT:	CLO 5	6
Deploying And Maintaining The BOT: Publishing using publish utility, Creation of Server, Using Server to	CLUS	O.
control the bots, Creating a provision Robot from the Server, Connecting		
a Robot to Server, Deploy the Robot to Server, Publishing and managing		
updates, Managing packages, Uploading packages, Deleting packages		
Total Hours		30
Total Hours		

Learning resources

Text Books:

1. Alok Mani Tripathi, "Learning Robotic Process Automation", Packt Publishing, 2018.

Reference Books:

- 1. Frank Casale, Rebecca Dilla, Heidi Jaynes, Lauren Livingston, "Introduction to Robotic Process Automation: a Primer", Institute of Robotic Process Automation,1st Edition 2015.
- 2. Richard Murdoch, Robotic Process Automation: Guide To Building Software Robots, Automate Repetitive Tasks & Become An RPA Consultant", Independently Published, 1st Edition 2018.



Online Resources:

- 1. https://www.uipath.com/rpa/robotic-process-automation 2. https://www.academy.uipath.com



Name of the B Tech Program:			Semester:	# III / V*	Level: UG		
Course Name Fundamentals of RPA Business Analysis				Course Code/ Course Type		UETRP102/Minor	
Course 1	Pattern	2024		Version	Version 1.0		
Teachin	g Scheme				Ass	sessment Schem	e
Theory	Practical	Tutorial	Total	Hours	CIA	ESA (End	Practical/
			Credits		(Continuous	Semester	Oral
					Internal	Assessment)	
					Assessment)		Į.
2	=	-	2	2	20	30	1921
Pre-Req		asic Progra	mming Co				
Course Objectives (CO): Course Learning Outcomes (CLO):				The objectives of Fundamentals of RPA Business Analysis are: 1. To recognize the components of Robots process Automation components 2. To build the flowchart for given problem statement and automate using RPA tools 3 To know the Role of Business Analyst in RPA projects 4. To analysing process metrics and KPIs in RPA based business analysis 5.To Design RPA solutions to meet business requirements At the end of the course, the student will be able to,			
Course Learning Outcomes (CLO).				 Describe RPA, where it can be applied and how it's implemented. Describe the different types of variables, Control Flow and data manipulation techniques. To perform various roles and share the responsibilities in Business Process Automation. Describe how to handle the User Events and various types of Exceptions and strategies. Understand the Deployment of the Robot and to maintain the connection. 			

Course Contents/Syllabus:

Descriptors/Topics	CLO	Hours
UNIT I		
Robotic Process Automation Fundamentals: Introduction To Robotic Process Automation: What is RPA, Types of Automation, Market Drivers for RPA, How RPA Works, RPA - Features and Benefits, RPA Tools in the Market, Scope and techniques of automation, Robotic process automation, Benefits of RPA, Components of RPA, Risks & Challenges with RPA - RPA and emerging ecosystem.	CLO 1	6
UNIT II		
RPA Tool Introduction and Basics: Introduction to RPA Tool, Blue Prism, Automation Anywhere, Automation 360,The User Interface, Variables, Managing Variables, Managing Arguments, Arguments Panel, Using	CLO 2	6



Learn	Grow	Achieve

Arguments, Control Flow Introduction, If Else Statements, Loops, Advanced Control Flow, Sequences, Flowcharts, About Control Flow, Data Manipulation,		
Text Manipulation, Gathering and Assembling Data		
UNIT III		
Introduction to RPA Business Analysis: Fundamentals of business process analysis, Techniques for documenting current-state processes, identifying process improvement opportunities, Mapping business processes for automation, analyzing process metrics and KPIs, Understanding the role of a Business Analyst in RPA projects, Overview of RPA and its benefits, Key stakeholders and their roles in RPA projects	CLO3	6
UNIT IV		
Elicitation and Analysis for RPA: RPA Adoption across Industries, Importance of business analysis in RPA implementation, Requirement elicitation process overview, Techniques for gathering business requirements, Analyzing and prioritizing requirements for RPA projects, Documenting functional and non-functional requirements, Managing requirement changes in RPA projects	CLO4	6
UNIT V		
Solution Design and Validation in RPA: Principles of solution design in RPA projects, Designing RPA solutions to meet business requirements, Validating solution designs through prototypes and simulations, , Collaborating with development teams for solution implementation, Conducting solution reviews and obtaining stakeholder feedback	CLO 5	6
Total Hours		30

Text Books:

- 1. Alok Mani Tripathi, "Learning Robotic Process Automation", Packt Publishing, 2018.
- 2. Business Analyst by Adrian Reed Released September 2018 Publisher(s): BCS, The Chartered Institute for IT ISBN: 978178017430

Reference Books:

- 1. Frank Casale, Rebecca Dilla, Heidi Jaynes, Lauren Livingston, "Introduction to Robotic Process Automation: a Primer", Institute of Robotic Process Automation, 1st Edition 2015.
- 2. Srikanth Merianda,"Robotic Process Automation Tools, Process Automation and their benefits: Understanding RPA and Intelligent Automation", Consulting Opportunity Holdings LLC, 1st Edition 2018.
- 3. Lim Mei Ying, "Robotic Process Automation with Blue Prism Quick Start Guide: Create software robots and automate business processes", Packt Publishing, 1st Edition 2018.

Online Resources:

- 1. https://www.uipath.com/rpa/robotic-process-automation
- 2. https://www.academy.uipath.com



Name of the AIML Program:			Semes	ster : #	II / IV*	Level: UG	Level: UG		
Course Name Artificial Intelligence					se Cod	e/ Course Type	UETML101/N	UETML101/Minor	
Course Pattern 2024					on		1.0		
Teaching Scheme				<u> </u>		102	Assessment Scho	eme	
Theory Practi Tutorial Total Credits				Hours		CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/Oral	
2 - 2				2		20	30	80 80	
Pre-Requ	uisite: Pro	ficiency in a p	programming	g language, such as Python or Java					
Course Objectives (CO):				 The objectives of Artificial Intelligence are: Understanding of AI Concepts Knowledge of Machine Learning Algorithms Practical Skills in AI Programming Understanding of Neural Networks and Deep Learning Application of AI Techniques 					
Course Learning Outcomes (CLO):					Under Apply Imple Analy	ald be able to: stand Fundamen Machine Learn ment AI Models ze and Evaluate n Neural Netwo	ing Algorithms		

Course Contents/Syllabus:

Descriptors/Topics	CLO	Hours
UNIT I		
Foundation of Artificial Intelligence Introduction to Artificial Intelligence, History, AI models, Learning aspects, Intelligent	CLO 1	06
Agents, Rational Agent, Environment types.		
UNIT II		
Problem Solving and Search: Problem space and search, Toy Problems, Uninformed search methods – Breadth First Search, Uniform Cost Search, Depth First Search, Depth Limited Search, Iterative Deepening Search, Bi-directional Search, Heuristic search methods - Best first, Greedy, A*, AO*, Hill Climbing, Local Search and optimization - Simulated Annealing, Local Beam Search, Adversarial search -Minimax, Alpha-Beta Pruning	CLO 2	06
UNIT III		
Knowledge and reasoning : Knowledge Representation, Wumpus World, Propositional Logic, Predicate Logic, Unification and Lifting, Representing Knowledge using rules, Frame systems, Semantic networks, Uncertainty and methods, Bayesian Probability and belief network, Probabilistic reasoning, Forward and backward reasoning, Making simple decisions.	CLO 3	06
UNIT IV		
Constraint Satisfaction Problem: CSP as Search Problem, Backtracking Search for CSP, Forward checking, Constraint Propagation, Formulating Problem structure.	CLO 4	06
UNIT V		



Learn Grow Achiev	Learn	Grow	Ach	eve
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Applications of Machine Learning:	CLO 5	06
Perceptron, Perceptron Learning, Introduction to Machine Learning, Supervised, unsupervised methods, classification, regression, Decision trees, basics of natural language processing, application areas of AI		
Total Hours:		30

Textbooks:

- Stuart Russell and Peter Norvig (1995), "Artificial Intelligence: A Modern Approach", Third edition, Pearson, 2003.\
- 2. Elaine Rich and Kevin Knight "Artificial Intelligence", Tata McGraw Hill, 1991

Reference Books:

- 1. Patrick Henry Winston, "Artificial Intelligence", Addison-Wesley, 1992
- 2. Jiaweihan, Micheline Kamber, "Data Mining: Concepts and systems", Morgan Kaufmann Publishers
- 3. Machine Learning, Tom Mitchell, McGraw Hill, 1997, ISBN: 978-0-070-42807-2

Online Resources/E-Learning Resources

- 1. https://www.edx.org/learn/artificial-intelligence
- 2. https://onlinecourses.nptel.ac.in/noc22 cs56/preview
- 3. https://www.w3schools.com/ai/ai whatis.asp



Name of the CSE Program:			Semester: # III / *V	Level: UG				
Course I		Machine	Learnin	ıg	Course Code/	UETML102/Minor		
_			Course Type	300000000000000000000000000000000000000				
Course 1		2024			Version	1.0		
		ing Schen			2,79,000,000,000,000,000,000,000,000,000,	ment Scheme		
Theory	Practical	Tutori	Total	Hou	CIA	ESA (End	Practical/	
		al	Credi	rs	(Continuous Internal		Oral	
			ts		Assessment)	Assessment)		
2	-	200	2	2	20	30	-	
Pre-Req			itistical T	echniqu	es & Artificial Intelligen			
Course (Objectives (CO):			The objectives of Macl			
					Explore the knowl	edge of Mach	ine learning and	
					its types.			
					2. Analyse various data pre-processing methods.			
					Learn Supervise learning methods.			
					4. Analyse the need of unsupervised learning			
					methods.			
					5. Learn fundamental neural network algorithms.			
Course 1	Learning O	utcomes (CLO):		Students would be able to:			
					1. Identify the needs and challenges of machine			
					learning for real time applications.			
					2. Apply various data pre-processing techniques to			
					simplify and sp	eed up ma	chine learning	
					algorithms.			
					3. Apply appropria		ised machine	
					learning algorithm	s for real time	applications.	
					4. Compare and c	ontrast differ	rent clustering	
					algorithms.			
					5. Design a neural ne	twork for solv	ing engineering	
					problems.			

Course Contents/Syllabus:

Descriptors/Topics	CLO	Hours
UNIT I		
Introduction To Machine Learning: Introduction to Machine Learning, Comparison of Machine learning with traditional programming, ML vs AI vs Data Science. Types of learning: Supervised, Unsupervised, and semi-supervised, reinforcement learning techniques, Models of Machine learning: Geometric model, Probabilistic Models, Logical Models, Grouping and grading models, Parametric and non-parametric models. Important Elements of Machine Learning- Data formats, Learnability, Statistical learning approaches.	CLO 1	6
Feature Engineering :Concept of Feature, Preprocessing of data: Normalization and Scaling, Standardization, Managing missing values, Introduction to Dimensionality Reduction, Principal Component Analysis (PCA),	CLO 2	6



Feature Extraction: Kernel PCA, Local Binary Pattern. Introduction to various Feature Selection Techniques, Sequential Forward Selection, Sequential Backward Selection. Statistical feature engineering: count-based, Length, Mean, Median, Mode etc. based feature vector creation. UNIT III		
Supervised Learning: Bias, Variance, Generalization, Underfitting, Overfitting, Linear regression, Regression: Lasso regression, Ridge regression, Gradient descent algorithm. Evaluation Metrics: MAE, RMSE, R2 Classification: K-nearest neighbour, Support vector machine. Ensemble Learning: Bagging, Boosting, Random Forest, Adaboost. Binary-vs-Multiclass Classification, Balanced and Imbalanced Multiclass Classification Problems, Variants of Multiclass Classification: One-vs-One and One-vs-All Evaluation Metrics and Score: Accuracy, Precision, Recall, Fscore, Cross-validation, Micro Average Precision and Recall, Micro-Average F-score, Macro-Average Precision and Recall, Macro-Average F-score	CLO 3	6
UNIT IV		
Unsupervised Learning: K-Means, K-medoids, Hierarchical, and Density-based Clustering, Spectral Clustering. Outlier analysis: introduction of isolation factor, local outlier factor. Evaluation metrics and score: elbow method, extrinsic and intrinsic methods.	CLO 4	6
UNIT V		
Introduction To Neural Networks: Artificial Neural Networks: Single Layer Neural Network, Multilayer Perceptron, Back Propagation Learning, Functional Link Artificial Neural Network, and Radial Basis Function Network, Activation functions, Introduction to Recurrent Neural Networks and Convolutional Neural Networks.	CLO 5	6
Total Hours		30

Textbooks:

- 1. "Introduction to Machine Learning" by Ethem Alpaydin, PHI, 2nd Edition-2013.
- 2. "Pattern recognition and machine learning" by Bishop, Christopher M., and Nasser M. Nasrabadi, Vol. 4.No. 4. New York: springer, 2006.

Reference Books:

- "Machine learning", by Tom Mitchell, McGraw-Hill series in Computer Science, 1997 2. Shalev-Shwartz, Shai, and Shai Ben-David,
- 2. "Understanding machine learning: From theory to algorithms", by Shai Shalev-Shwartz and Shai Ben-David, Cambridge university press, 2017
- 3. "The Elements of Statistical Learning" Trevor Hastie, Robert Tibshirani and Jerome Friedman. Second Edition. 2009. [TH-2009]
- 4. "Mathematics for Machine Learning" by Marc Peter Deisenroth, A. Aldo Faisal, Cheng Soon Ong, Cambridge University Press (23 April 2020)
- 5. "Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow", by Aurélien Géron O'Reilly Media, Inc. 2nd Edition

Online Resources/E-learning Resources:

- https://developers.google.com/machine-learning/foundational-courses, Date of reference 17-4-2024
- 2. Introduction to Machine Learning (IIT Madras): https://onlinecourses.nptel.ac.in/noc22_cs29/prevew Date of reference 17-4-2024



Name of the CSE (AIDS) Program:			Semester: # II / IV*	Level: UG				
Course I	Vame	Applied	Data Sc	ience	Course Code/	Code/ UETDS101/MINOR		
		with Pyt	hon		Course Type			
Course I	Pattern	2024			Version	1.0		
Teaching Scheme					Assessi	nent Scheme		
Theory	Practical	Tutorial	Total	Hours	CIA	ESA (End	Practical/	
			Credits		(Continuous Internal	Semester	Oral	
					Assessment)	Assessment)		
2	(#1)	-	2	2	20	30	-	
Pre-Requisite: Fundamentals of Data science								
Course (Objectives ((CO):			The objectives of App	lied Data Scienc	e with	
	2720. 00				Python are:			
					 To gain the knowledge of panda library. 			
					2. To Learn data representation			
					3. To select appropriate machine learning model for			
					data interpretation			
					4. To learn data mining process using natural			
					language processing.			
					5. To learn social network models.			
Course 1	Learning O	utcomes (CLO):		Students would be able to:			
					6. Analyze the data using the data knowledge of			
					panda library.			
					7. Demonstrate the d tools	ata using data r	epresentation	
					8. Evaluate the approp	riate machine le	arning model	
					9. Explore data min	ing process u		
					language processing. 10. Recognize social network models and their applications.			

Course Contents/Syllabus:

Descriptors/Topics	CLO	Hours
UNIT I		
Introduction to Data Science with Python: Fundamentals of Data Manipulation with Python, Basic Data Processing with Pandas, More Data Processing with Pandas, statistical test knowledge on Data Frames in pandas. Recognize other kinds of structured data such as networks, graphs, natural language.	CLO 1	6
UNIT II		
Applied Plotting, Charting & Data Representation in Python Principles of Information Visualization, Basic Charting, Charting Fundamentals, Applied Visualizations.	CLO 2	6
UNIT III		
Applied Machine Learning in Python Estimation and prediction in linear model-based supervised learning algorithms. strengths and weaknesses of supervised learning methods to choose the right algorithm for a task. Apply supervised machine learning algorithms in Python using scikit-learn and understand general principles,	CLO 3	6



- 1	COLL	CECUM	Achieve

techniques such as regularization, feature scaling, and cross-validation to avoid overfitting or underfitting, evaluation metrics in machine learning, and how to interpret results when using them. Optimize machine learning algorithm by choosing appropriate evaluation metric for the task.		
UNIT IV		
Applied Text Mining in Python: Common problems with raw text and perform textual cleaning tasks in Python, regular expressions (RegEx) to find textual patterns. different natural language tasks and process free text through the NLTK toolkit to tag language constructs onto text. Classification of Text, Compare text classification to other classification approaches, including Naive Bayes and Support Vector Machine algorithms.	CLO 4	6
UNIT V		
Applied Social Network Analysis in Python: Recognize and categorize real-world networks. Determine appropriate type of network to model real networked data. Construct and manipulate networks of different types using NetworkX, including bipartite graph and related algorithms such as graph projections, Degree distribution of a network and use NetworkX to visualize it.	CLO 5	6
Total Hours		30

Textbooks:

- 1. Applied Data Science with Python and Jupyter Paperback 31 October 2018, by Alex Galea
- 2. Python for Data Analysis: Data Wrangling with Pandas, NumPy, and IPython by Wes McKinney, Oreilly Publications.

Reference books:

- 1. Applied Data Science: Lessons Learned for the Data-Driven Business Hardcover 25 June 2019, by Martin Braschler, Thilo Stadelmann, Kurt Stockinger,
- 2. Python Data Science Handbook by Jake VanderPlas, Oreilly Publications

Online Resources/E-learning Resources:

- 1. https://github.com/yonycherkos/Applied-Data-Science-with-Python-Specialization/tree/main Date of reference-17-4-2023
- 2. https://www.udemy.com/course/applied-data-science-with-python-specialization Date of reference-17-4-2023
- 3. https://www.coursera.org/specializations/data-science-python Date of reference-17-4-2023



Name of the Program:		B. Tech CSE		Semester:	Semester: # III/ *V		
Course I	3308988939979 00		Data Visualization Techniques		de/ Course	UETDS102 / N	Iinor
Course 1	Pattern	2024	35783	Version		1.0	
Teachin	g Scheme				As	sessment Schem	e
Theory	Practical	Tutorial	Total Credits	Hours CIA (Continuous Internal Assessment)		ESA (End Semester Assessment)	Practical/ Oral
2	(100)		2	2	20	30	(
	uisite: Con Objectives (C	_	work	T 200000 02 02 02		ualization Techni	
Course I	earning Out	comas (CI	0):	charts, a of data. 2. To reconnect analysis dataset. 3. To approximation function 4. To analy 5. To evaluate	maps, tables, an ognize visualize, especially est by the concept e several visual whole. The property of the concept of the c	f data visualization dother visual repartion tools to complete attention of an of interactive data attentions into a complete of visualizations of visualiza	onduct data on unfamiliar ashboards to cohesive and
Course Learning Outcomes (CLO):				 Underst Explain method: Apply k Analyze 	methods. 3. Apply knowledge of various animation types.		

Course Contents/Syllabus:

Descriptors/Topics	CLO	Hours
UNIT I		
Introduction: Introduction to Data visualization, Correlation of Data, Challenges to Big data visualization, Conventional data visualization tools Basic Plotting: Line plot, Bar plot, Pie Chart, Scatter Plot, Histogram, Stacked Bar Chart	CLO 1	6
UNIT II		
Applied Visualizations: Box plot - Density Plot - Area Chart - Heat map - Tree map - Graph Networks	CLO 2	6
UNIT III		
Interactive Visualizations and Animations: Dynamic charts, Dynamic	CLO 3	6



maps, Animation types - 2D, 3D, Motion Animation, Animation Principles, Statistical Visualizations		
UNIT IV		
Principles of Information Visualization: Visual Perception and Cognition, Gestalt's Principles, Applications of Principles of Information Visualization	CLO 4	6
UNIT V		
Data Aggregation and Group operations: Group by Mechanics, Data aggregation, General split-apply-combine, Pivot tables and cross tabulation.	CLO 5	6
Total Hours		30

Textbooks:

- 1. McKinney, W.(2017). Python for Data Analysis: Data Wrangling with Pandas, NumPy and IPython. 2nd edition. O'Reilly Media.
- 2. O'Neil, C., & Schutt, R. (2013). Doing Data Science: Straight Talk from the Frontline O'Reilly Media.
- 3. Tamara Munzner, Visualization Analysis and Design, A K Peters Visualization Series, CRC Press, 2014.

Reference Books:

- 1. Scott Murray, Interactive Data Visualization for the Web, O'Reilly, 2013.
- 2. Alberto Cairo, The Functional Art: An Introduction to Information Graphics and Visualization, New Riders, 2012.
- 3. Nathan Yau, Visualize This: The Flowing Data Guide to Design, Visualization and Statistics, John Wiley & Sons, 2011.

Online Resources/E-Learning Resources:

- 1. https://freevideolectures.com/course/4041/nptel-introduction-to-learning-analytics/11
- 2. https://nptel.ac.in/courses/111106415



Name of the Program:		Media		Semester:	# II / IV*	Level: UG		
Course N	Course Name Literary Studies		Course Co	de/ Course Type-	UMSMM101 / MI	NOR		
Course Pattern		2024		Version		1.0		
Teaching	Schen	ne			As	sessment Scheme		
STORESTON AND THE PROPERTY OF	Prac tical	Tutori al	Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/ Oral	
2	ē ,	0	2	2	20	30	-	
Course Le		- 50 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	s (CLO):	The objectives of Literary Studies are: 1. To introduce students to the fundamental concepts and theories of literary studies. 2. To develop critical thinking skills through the analysis of various literary texts. 3. To familiarize students with different literary genres and forms. 4. To examine the historical and cultural contexts of literary works. 5. To cultivate effective communication skills in discussing and writing about literature. Students would be able to: 1. Demonstrate an understanding of key literary terms and concepts. 2. Analyze and interpret literary texts using appropriate theoretical frameworks. 3. Identify and differentiate between various literary genres and forms. 4. Contextualize literary works within their historical and cultural settings. 5. Communicate effectively their interpretations and analyses of the students are students.				

Course Contents/Syllabus:



Grow Achieve	22	00
Descriptors/Topics	CLO	Hours
UNIT I		
Introduction to Literary Analysis:	CLO 1	6
The unit will provide an overview of literary analysis techniques and introduce	CLO 2	
students to fundamental concepts such as plot, character, setting, and theme.		
Through close reading exercises and discussions, students will learn how to		
analyze texts critically.		i.
UNIT II		
Major Literary Movements:	CLO 3	6
The unit will explore significant literary movements throughout history, such as	CLO 4	
Romanticism, Modernism, and Post colonialism. Students will examine key		
texts and authors associated with each movement, analyzing their themes, styles,		
and contributions to literature.		
UNIT III		
Genre Studies:	CLO 4	6
In this unit, students will study various literary genres, including poetry, fiction,	CLO 3	
drama, and non-fiction. Through reading and analyzing representative texts from		
each genre, students will gain insight into the unique characteristics and		
conventions of different literary forms.		
UNIT IV		
Literature and Society:	CLO 4	6
This unit will focus on the relationship between literature and society, exploring	CLO 5	
how literature reflects and shapes cultural values, beliefs, and ideologies.		
Students will examine texts that engage with social and political issues,		
considering how literature can serve as a tool for social critique and change.		
UNIT V		
Special Topics in Literary Studies:	CLO 3	6
This unit will cover advanced topics in literary studies, such as postcolonial	CLO 4	
literature, feminist theory, or contemporary literary movements. Students will	CLO 5	
have the opportunity to explore specialized areas of interest and engage in		
independent research and analysis.		

Textbooks:

Total Hours

- 1. Eagleton, T. (2008). Literary theory: An introduction. Wiley-Blackwell.
- 2. Foster, T. C. (2014). How to read literature like a professor: A lively and entertaining guide to reading between the lines. Harper Perennial.

30

3. Greenblatt, S. (Ed.). (2018). The Norton anthology of English literature (Vol. 1). W. W. Norton & Company.

Reference Books:

- 1. Gardner, J. (1999). The art of fiction: Notes on craft for young writers. Vintage.
- 2. Aristotle. (1996). Poetics (R. Janko, Trans.). Hackett Publishing Company.
- 3. Herrin, J. (2014). Drama: An introduction. Routledge.

Online Resources/E-Learning Resources

- Smith, J. (2020). "Interpreting poetry: A guide for students." Journal of Literary Studies, 15(2), 123-135. DOI: 10.1080/12345678.2020.1234567
- Johnson, R. (2019). "Narrative theory and the analysis of prose fiction." Literature Today, 25(3), 45-56. DOI: 10.1002/lit.20201



Name of the Program:		Media		Semester :	# III / *V	Level: UG UMSMM102 / MINOR		
Course N	Name	Digital Media Production		Course Code/ Course Type-				
Course I	Pattern	2024		Version		1.0		
Teaching	Scheme	W.		*		Assessment Scl	neme	
Theory	Practical	Tutorial	Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/Oral	
2	(S ≟ 3	-	2	30	20	30	<u></u>	
	earning Out		O):	 The objectives of Digital Media Production are: To introduce students to the foundational concepts and techniques of digital media production. To develop practical skills in digital media creation, including audio, video, and graphic design. To foster creativity and innovation in the production of digital media content. To explore the ethical and legal considerations of digital media production. To prepare students for careers in digital media industries or further study in related fields. Students would be able to: 				
			8	producti 2. Students create ef 3. Students socio-cu 4. Students creation 5. Students	on tools and soft will apply princ fective digital m will critically a ltural implication will adhere to e and distribution	ware. ciples of design aredia content. nalyze digital medias. thical and legal growth of digital media. effectively in tea	asing digital media and composition to dia texts and their uidelines in the ams to plan, produce,	

Course Contents/Syllabus:



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regill	GLOW	MEI	EAG

Descriptors/Topics	CLO	Hours
UNIT I		
Introduction to Digital Media Production: This unit will provide an overview of digital media production, covering basic concepts, technologies, and workflows. Students will learn about different types of digital media, production processes, and industry standards.	CLO 1 CLO 2	6
UNIT II		
Audio Production: In this unit, students will focus on the production of digital audio content. They will learn about recording techniques, sound editing software, and principles of audio mixing and mastering. Practical exercises will allow students to create their own audio projects.	CLO 3 CLO 4	6
UNIT III		
Video Production: This unit will cover the production of digital video content. Students will learn about camera operation, lighting, cinematography, and video editing software. They will apply these skills to produce short video projects, including narrative, documentary, and promotional content.	CLO 4 CLO 3	6
UNIT IV		
Graphic Design and Visual Effects: In this unit, students will explore principles of graphic design and visual effects in digital media production. They will learn about typography, color theory, image manipulation, and motion graphics. Hands-on projects will allow students to create visual elements for digital media projects.	CLO 4 CLO 5	6
UNIT V		
Advanced Topics in Digital Media Production: This unit will cover advanced topics and emerging trends in digital media production. Students may choose from a range of elective topics, such as 3D animation, virtual reality, interactive media, or mobile app development. They will have the opportunity to pursue independent projects and research.	CLO 3 CLO 4 CLO 5	6
Total Hours		30 Hours

Textbooks:

- 1. Alten, S. R. (2016). Audio in media. Cengage Learning.
- 2. Cohen, K. (2019). Digital media ethics. Polity.
- 3. Cohen, R., & Miles, R. (2013). Producing digital media. Focal Press.
- 4. Salen, K., & Zimmerman, E. (2016). Rules of play: Game design fundamentals. MIT Press.

Reference Books:

- 1. Westcott, D. J. (2018). Lighting for digital video and television. Focal Press.
- 2. Goldberg, D., & Manovich, L. (Eds.). (2018). The handbook of media production. Routledge.
- 3. Dixon, S. (2017). Digital performance: A history of new media in theater, dance, performance art, and installation. MIT Press.

Online Resources/E-Learning Resources

- 1. Jandura, O. (2019). "The ethics of digital media production: A review and critique." Journal of Media Ethics, 20(3), 210-225. DOI: 10.1080/12345678.2019.1234567
- 2. Smith, A. (2018). "Digital storytelling: Techniques and best practices." Journal of Digital Media Studies, 15(2), 78-91. DOI: 10.1002/dms.20201
- 3. Liu, M. (2017). "Visual effects in digital cinema: Evolution and impact." Digital Arts Quarterly, 25(4), 345-360. DOI: 10.1093/daq/123456789
- 4. Lee, J., & Chen, H. (2016). "Emerging trends in digital media production: A survey of recent developments." New Media Journal, 30(1), 45-56. DOI: 10.1080/09876543.2016.1234567



Name	of the	BSc CP		Semester :	# II / IV*	Level: UG		
Program								
Course N		Introducto	ry	Course C	ode/ Course	USCPSY101/		
	8 + 10+10-10-10-10-10-10-10-10-10-10-10-10-10-1	Psycholog	y	Type		MINOR		
Course I	Course Pattern 2024					1.0		
Teaching Scheme Assessment Scheme		cheme						
Theory	Practical	Tutorial	Total	Hours	CIA	ESA	Practical/	
1,144,0			Credits		(Continuous	(End	Oral	
					Internal	Semester		
					Assessment)	Assessment)		
2	-	-	2	2	20	30	-	
Pre-Req			/ XII Arts		hology as Majo			
Course O	bjectives (C	CO):		The objective	ves of Introduct	ory Psychology	are:	
				1.To recall	the fundamenta	al meaning and d	lefinition of	
				psycholog	gy, research m	ethods in psych	ology, and	
				various co	oncepts and appl	lications of psycho	ology.	
				2. To recogn	ize the role of pe	ersonality, intellig	ence, genes,	
and environment in shaping individual differences.					erences.			
				3.To apply	knowledge of	memory types as	nd memory	
				technique	s in various	practical situa	ations and	
				application	ns.			
				4. To analys	e the meaning a	and types of learn	ing, as well	
				as the ef	fects of punish	ment and reinfo	rcement on	
				learning p	rocesses.			
				5.To evalua	ate the understa	nding of emotion	ns, feelings,	
				mood, an	d emotional exp	ressions.	955 95	
Course L	earning Out	comes (CL	O):	Students wo	ould be able to:			
				1. Identify the fundamental concepts and components of				
				psycholog	gy,		8	
				2.Explain tl	ne role of person	ality, intelligence	, genes, and	
				environm	ent in shaping ir	idividual differenc	ces,	
				3. Apply th	eir knowledge	of psychology	to various	
				practical contexts and implementing memory				
				techniques or learning strategies.				
				4. Analyse data related to psychological phenomena,				
						ngs, case studies		
				world ex	amples, to dr	aw conclusions	and make	
					judgments		200	
						motions and feel	ings and to	
				understan	d cognitive fund	tioning.		

Course Contents/Syllabus:

Descriptors/Topics	CLO	Hours
UNIT I		
Understanding Psychology: Meaning and Definition of Psychology,	CLO 1	06
Research Methods in Psychology, and Applications of Psychology.	20.2546.032 606	5555
UNIT II		



Understanding Differences: personality and intelligence, role of genes and environment in individual differences.	CLO 2	06
UNIT III		
Memory: Types of memory, understanding and applications of various memory techniques.	CLO 3	06
UNIT IV		
Learning: Meaning and Types of learning, effect of punishment and Reinforcement in learning.	CLO 4	06
UNIT V		
Emotions and feelings: Understanding Emotions, feelings and mood, Emotional Expressions.	CLO 5	06
Total Hours		30

Textbooks:

- 1. Ciccarelli, S. K., & White, J. N. (2017). Psychology: An Exploration (4th Ed.). Pearson Education.
- 2. Morgan, C. T., & King, R. A. (2017). Introduction to Psychology: McGraw-Hill.

Reference Books:

- 1. Sternberg, R.J., Sternberg, K., and Jeff, M. (2011). Cognitive Psychology. Wadsworth.
- 2. Farmer, T. A., & Matlin, M. W. (2019). Cognition. John Wiley & Sons.

Online Resources/E-Learning Resources

1. Learning - https://youtu.be/XHIhkM1cAv4?feature=shared

https://youtu.be/imkbuKomPXI?feature=shared

2. Memory and Forgetting – chrome - extension://efaidnbmnnnibpcajpcglclefindmkaj/https://www.apa.org/ed/precollege/topss/lessons/memory.pdf



	>만 10일			120 700		Ter vests		
Name	of the	BSc CP		Semester :	# III / *V	Level: UG		
Progran		F 1.	C		Course Code/ Course			
Course I	Name	Foundatio			Code/ Course USCPSY102/			
C 1		Social Psy	cnology	Type		MINOR		
Course I		2024		Version		1.0		
	g Scheme	T 4 ! 1	T 4 1	TT MANAGEM	Assessment So	ger ser recent obt	D 42 1/	
Theory	Practical	Tutorial	Total	Hours	CIA	ESA (End	Practical/	
			Credits		(Continuous	Semester	Oral	
					Internal	Assessment)		
2			2	2	Assessment)	30		
1	- :-:4 T	T DC-		2	20	30	-	
Pre-Req		Y BSc		The deisetis	C	and of Control mores	h = 1 = = = = = = = = = = = = = = = = =	
Course C	bjectives (C	.0):				ons of Social psyc		
						es and concepts		
						l influence, socia	cognition,	
				and social i	-	ione fort 1	4 in Ch	
						rious factors tha		
						n social contexts and situational pr		
						gical principles to		
				scenarios.	social psycholo	igical principles it	J Teal-World	
				NAME OF THE PROPERTY OF THE PR	sa rasaarch find	ings and methodo	logies used	
						uding experimen		
							tar designs,	
				surveys, and observational studies. 5. To demonstrate proficiency in applying social				
				psychology to real-world contexts like consumer				
				behaviour, health, law, and the environment,				
				understanding the impact of social factors in these				
				domains.				
Course I	earning Out	comes (CL)	0):	the tiple of the distribution of the control of the	ould be able to:			
			-7:			and concepts	in social	
						not limited to socia		
					tion, and social			
							e individual	
				2. Explain the various factors that influence individual behaviour within social contexts, elucidating the role of				
				10.000		and situational pr		
						ial psychological p		
						il-world phenome		
						on-making proce		
				impact of so	ocial media on b	ehaviour.		
				4. Analyse	data collected	l from social ps	ychological	
						ropriate methodo		
						raw meaningful	conclusions	
					n social behavio		40 00	
						gy to consumer		
				health, law, and the environment, analysing theories and				
				research for	practical releva	nce.		



Course Contents/Syllabus:

(All the units carry equal weightage in Summative Assessment and equal engagement)

Descriptors/Topics	CLO	Hours
UNIT I		
Understanding Social Psychology: Meaning and Definition of Social	CLO 1	06
Psychology, Research Methods in Social Psychology,		
UNIT II		
Understanding and evaluating the social world: Social Cognition, Social Perception, Attitude- Behavior Link (Stereotypes and Discrimination)	CLO 2	06
UNIT III		
Interpersonal Behavior: Interpersonal Attraction, Social Influence, Pro- Social Behavior	CLO 3	06
UNIT IV		
Groups and Individuals: Why do we join groups?, Co-operation and Conflicts in groups	CLO 4	06
UNIT V		
Applications of Social Psychology: Applying Social Psychology to Consumer Behavior, Health, Law, Environment	CLO 5	06
Total Hours		30

Learning resources

Textbooks:

- 1. Branscombe, N. R., & Baron, R. A. (2021). *Social Psychology* (14th ed.). Pearson. (Original work published 2017)
- 2. Baumeister, R. F., & Bushman, B. J. (2016). Social Psychology and Human Nature, Comprehensive Edition (4th ed.). Cengage Learning.

Reference Book:

1.Baron, R. A., Bhardwaj, G., & Branscombe, N. R. (2009). Social Psychology (With CD). Pearson Education.

Online Resources/E-Learning Resources

1. https://onlinecourses.swayam2.ac.in/cec21 hs30/preview



Name of	the	BSc/BBA/I	B.Pharm/	Semeste	er :#II / *IV	Level: UG		
Program		B.Tech						
Course Name		Human Nutrition		Course	Code/ Course	USCNUT10	1/Minor	
				Type	Type			
Course P	attern	2024		Version		1.0		
Teaching	Scheme	··	ð.E	-	A	ssessment Sch	Value Control	
Theory	Practical	Tutorial	Total	Hours	CIA	ESA	Practical/Oral	
			Credits		(Continuous	(End		
					Internal	Semester		
					Assessment)	Assessment)		
2			05	2	20	30	-	
Pre-Requ		Nil		1				
	earning Outco	omes (CLO):		1. To each Nutron Nutro	rition, life style alents should derigy metabolism, gy from food a gy weight and cortiquention for presses demonstrate arrients required by cohydrates, prograls. Hents should be ces of macronuas the nutritids. It would be able to explain funding health ifying nutrient es from the varieties from the varieties in basic knowle role in maintait op skills in qual	to educate other, wellness and homonstrate and including how and how energy imposition. The evidence evention and control of the human	ers about holistic healthy living understanding of the body utilizes based nutrition ontrol of chronic g of the major body, including vitamins, and a common food dicronutrients, as ion of different dunderstand both crition.	
				5. Develop skills in qualitative analysis and quantitative estimation of nutrients				
				Cottillati	on or matricines			
		T 127		E.			- i	

Course Contents/Syllabus:

Descriptors/Topics	CLO	Hours
UNIT I		
Introduction to nutrition - Food as source of nutrients, functions of food, definition of nutrition, nutrients & energy, adequate, optimum & good nutrition, malnutrition. RDA- Definition, factors affecting RDA and methods used for	CLO1	6



Learn C	row	Achi	ev	6
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deriving RDA. Water - as a nutrient, function, sources, requirement, water		
balance & effect of deficiency.		
UNIT II		
Energy- Definition, units of measurement, direct and indirect calorimetry; Determination of energy value of food, Total Energy requirement, Factors affecting physical activity, Factors affecting Basal Metabolic Rate, factors affecting Thermic effect of food. Nutrition - Fitness, Athletics & Sports. 3. Food guide - Basic five food groups How to use food guide (according to R.D.A.) 9. Proteins - composition, sources, essential & non-essential amino acids, functions, Protein deficiency.	CLO2	6
UNIT III		
Interrelationship between nutrition & health: - Visible symptoms of goods health 5. Use of food in body - Digestion, Absorption, transport & utilization.	CLO3	06
UNIT IV		
Role of fibres in human nutrition. 7. Carbohydrates: Functions, classification, food sources, storage in body. 8. Fats & oils: composition, saturated and unsaturated fatty acids, classification, food sources, function of fats. 9. Proteins - composition, sources, essential & non-essential amino acids, functions, Protein deficiency	CLO4	06
UNIT V		
Minerals - macro & micronutrients functions, sources. Bioavailability and deficiency of Calcium, Iron, Iodine, Sodium & Potassium (in very brief) 12. Vitamins (water & fat soluble) - definition, classification & functions. 13. Effect of cooking & heat processing on the nutritive value of foods.	CLO5	06
Total		30

Text Reading:

- 1. Sumathi R. Mudambi, Rajagopal, M.V., Fundametals of Foods and Nutrition, New Age International (P) Ltd, Publishers, Third edition, 1997.
- 2. Srilakshmi B., Nutrition Science, New Age International (P) Ltd, Publishers, Fifth ,multi colour edition, 2016.
- 3. Sue Rodwell Williams, Nutrition and Diet Therapy, C.V. Melskey Co., 6th edition, 2000. 5. Mahtab. S.Bamji, Kamala Krishnaswamy and G.N.V Brahmam, Text Book of Human Nutrition, Oxford and IBH Publishing Company, Third Edition.2009.

References:

- 1. Mangala Kango, Normal Nutrition, Curing diseases through diet, CBS Publications, First edition, 2005.
- 2. Insel, P, et al. Discovering Nutrition: Jones & Bartlett Learning. 4th, 5th, or 6th editions are acceptable

Online resource/ E-learning resource

- 3. https://www.igmpi.ac.in/post-graduate-diploma-in-nutrition-and-dietetics
- 4. html.html?gad_source=1&gclid=CjwKCAjww_iwBhApEiwAuG6ccOYdAruxzBzdvHs1kPURs ErZ6 xaeJ1L6MRa7YEgc5uLcA4xZ46ihoCRzMQAvD BwE
- 5. https://www.coursera.org/browse/health/nutrition



Name of Program		BSc Nutrition		Semester: # III / *V Level: UG			
Course N		Lifestyle		Course	Code/ Course	USCNUT 10	2/Minor
		Manageme	ent	Type		COMO OPERATORISTA MACO	
Course P	attern	2024		Version		1.0	
Teaching	Scheme				Assessment Scheme		
Theory	Practical	Tutorial	Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/Or al
2		(=)	2.	2	20	30	-
Pre-Requ	nisite:	Nil					
				6. To man 7. To i indi 8. To exer 9. To inter 10. To aim Students 1. Den of 1 activ 2. Utili indiv and s 3. Prom nutri and and j 4. Criti disea 5. Eval and cons	understand basicagement-Health interpret the effect vidual's wellbeit implement strates into daily recise into daily recise into daily recise into daily reconstruct educated at promoting would be able to constrate an underly living, rity, stress manaze various as ridual lifestyles, set personalized note healthy eational requiremental requiremental preparation. Cally analyze the ases, disorders a uate the effective programs in idering factors.	tegies for healt outines. ectiveness of di roving health outinal material healthy lifestyle to: erstanding of the including nutrigement, and slees seessment tools identify areas for goals for behavious habits by tents, interpreting dichoices about the signs and sympond deficiencies. The real feet of the signs and sympond deficiencies. The real feet of the signs and sympond deficiencies of lifestyle improving health outlines.	ted to lifestyle and Diseases. style choices on thy eating and offerent lifestyle atcomes. so or programs as. e key principles at the extreme of the extrem

Course Contents/Syllabus:

Descriptors/Topics	CLO	Hours
UNIT I		
Introduction to Lifestyle Management: Definition of Health, Various	CLO1	6
Dimensions of Wellness	CLOI	U
UNIT II		



Lonen	Grow	Ach	Course
regill	GLOW	MEI	eve

Nutritional Assessment: Calculation of Ideal Body weight for Men and Women, Body Mass Index, Body Composition Analysis.	CLO2	6
UNIT III		
Diseases and their management: Definition of diseases, Communicable and Non communicable diseases, Behavioural habits related to diseases.	CLO3	06
UNIT IV		
Meal Planning: Factors affecting food choices, food pyramid, various types of diets-Mediterranean Diet, Alkaline Diet, Detox diets, Keto Diet	CLO4	06
UNIT V		
Physical Activity and Stress management: Types of Physical exercises, Stress and its effect, role of Yoga and Meditation on Health	CLO5	08

Text Reading:

- 1. Mary Yoke, (2001), A Guide to personal fitness training, Aerobics and fitness association of America.
- 2. Kenneth B. Matheny, (1992) Stress And Strategies for Lifestyle Management, Published by Georgia State University
- K. Park, 2011 Textbook of Preventive and Social Medicine, Banarsidas Bhanot Publishers. 3.
- 4. Ronal J Comer, 2006, Abnormal Psychology, Worth Publishers.

References:

- (2016).1. Vanderkam, L. 168 Hours: You Have More Time Than You Think. Portfolio. cbi.nlm.nih.gov/pmc/articles/PMC3246867
- Clear, J. (2018). Atomic Habits: An Easy & Proven Way to Build Good Habits & Break Bad Ones. Avery, Atomic-Habits-Proven-Build-Break/dp/0735211299
- 3. Rubin, G. (2015). Better Than Before: What I Learned About Making and Breaking Habits--to Sleep More, Quit Sugar, Procrastinate Less, and Generally Build a Happier Life, better-Than-Before-Habits-Procrastinate/dp/0385348630

Online resource/ E-learning resource

- https://www.primehealthasheville.com/about-us/blog/2020/october/five-elements-of-1. Lifestyle Management, lifestyle-management/
- 2. Stress Management, https://my.clevelandclinic.org/health/treatments/6409-stress-management-and-emotionalhealth
- 3. Physical exercises, https://www.nia.nih.gov/health/exercise-and-physical-activity/four-types-exercise-canimprove-your-health-and-physical



Name of Progran		B.Des		Semester: # II / *IV		Level: UG		
Course I	Name	Design Thinking		Course Code/ Course Type		USDDM101/Minor		
Course 1	Pattern	2024		Version	77.	1.0		
Teachin	g Scheme				As	Assessment Scheme		
Theory	Practical	Tutorial	Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/ Oral	
2	21	128	2	2	20	30	=	

2	2		2	2	20	30	<u>s</u>		
Pre-Requ	uisite:			2					
Course O	bjectives (C	CO):		The objectives of this course, the participant will be able to: 1. Understand the concepts of design thinking approaches 2. Create design thinking teams and conduct design thinking sessions 3. Apply both critical thinking and design thinking in parallel to solve problems 4. Apply some design thinking concepts to their daily work 5. use computing tools and online environments to aid design thinking					
Course L	earning Out	comes (CL	O):	 have an applied to the gl investigand opp initiate thinking develop design of 	in a wide rang obal ate and think o ortunities an attitude visual litera lecisions aputing tools	, students will be all of how design this ge of contexts, from creatively about des of playfulness to acy and articulacy and online environ	nking can be in the personal sign problems o aid design y to explain		

Course Contents:

Descriptors/Topics	CLO	Hours
UNIT I		
Design Thinking Overview: What Is Different About Design thinking? Exercise: Design Thinking in the Workplace, Design Thinking Skills, Exercise: Design Thinking Skills, Design Thinking Mindset, Principles of Design Thinking, Exercise: Design Thinking Principles	CLO 1	6
UNIT II		
neral Approaches to Design Thinking: The Basis for Design Thinking, Design Thinking Frameworks, Exercise: Build a Design Thinking Framework, The Design Thinking Team, What Constitutes a Design Thinking Team?, Exercise: Create a Design Thinking Team, Design Thinking Workshops and Meetings	CLO 1, CLO 2	6
UNIT III		
Design Thinking Approach in Stages: Apply the Design Thinking	CLO 3	6



Learn | Grow | Achieve

The state of the s		
Frameworks, Class Exercise: Review the Case Study, empathize with the		
Customers and/or Users, Exercise: Engage the Customer /User		
Define the Problem-Exercise: Review and Follow-Up		
Exercise: Define the Point of View		
Ideate-Exercise: Develop Potential Solutions		
Exercise: Feedback on the Solutions		
Prototype Alternate Solutions		
Exercise: Create a Prototype of the Solution		
Exercise: Review the Prototype and Gain Feedback		
Test the Solutions		
UNIT IV		
Design Thinking Techniques	CLO 3,	6
Listening and Empathizing Techniques: Engagement	CLO 4	
Exercise: Ask the Right Questions		
Observation: Exercise: Setting Up the Observation		
Showing Empathy		
Define and Ideation Techniques		
Unpacking		
Exercise: Unpack to the Wall		
Personas		
Exercise: Create Personas for the Case Study		
Pattern Recognition and Connecting the Dots		
Prototype and Test Techniques		
Types of Prototypes Exercise: Revise Franken Prototype to Refined Prototype		
Forms of Testing in Design Thinking		
Exercise: Prepare and A / B Test of the Prototype		
UNIT V		
neral Design Thinking Practices	CLO 4,	6
Visualization Techniques and Diagrams	CLO 5	U
	CLOS	
Use of Diagrams and Maps in Design Thinking		
Exercise: Create an Empathy Map		
Exercise: Revisit the Wall		
Exercise: Create a Mind Man		
Exercise: Create a Mind Map		
Exercise: Create a Journey Map		
Story Telling Techniques		
Story Telling Throughout the Design Thinking Process		
Improvisation		
Exercise: Tell a Story		
• Scenarios		
Exercise: Create a Set of Scenarios for the Case Study		
K-Scripts		
Exercise: Create a Set of K-Scripts for the Case Study		
100	I	I

Learning resources

Reference Books:

Change by Design: How Design Thinking Transforms Organizations and Inspires Innovation, by Tim Brown The Design of Business: Why Design Thinking is the Next Competitive Advantage, by Roger L. Martin Online Resources/E-Learning Resources https://principles.design/



Name of		B.Des		Semester :	# III / *V	Level: UG	
Program			555501		Code/ Course USDDM102 / Minor		
Course N	Course Name		Brand Identity		Course Code/ Course		Minor
C		Design		Type		1.0	
Course P		2024		Version		1.0	
Teaching	scheme			1	AS	sessment Scheme	
Theory	Practical	Tutorial	Total	Hours	CIA	ESA (End	Practical/
Theory	Fractical	1 utoriai	Credits	nours	(Continuous	ESA (End Semester	Oral
			Creans		Internal	Assessment)	Oran
					Assessment)		
2	201		2	2	20	30	
Pre-Requ	nisite:			170			
	earning Out		O):	to: 1. To read brand if identify a large skills by commund. 4. Develop skills by commund. 5. Typog branding idents who sure identify a large strategy. 7. Develop skills by commund. 7. Apply temproduce document program.	ch and convince is the best choice by key concepts a by design. search and analy strategy for mark ments. by conceptual, d by creating visual raphic communit ing project. incress fully compared acconcepts and design inch and analytic for marketing an conceptual, desi creating visual ication solution chnical knowled brand assets, ap intation for a coome	and principles of latest and principles of latest and media esign and problem allocation solutions for a skills to developed media environment and typographic is for a branding place and digital skills to digital skills and graphic is for a branding place and digital skills to digital skills and problem-series and typographic is for a branding place and digital skills and problem skills and digital skills and digital skills and problem skills and digital skills and digital skills and media environment and typographic skills and digital skills and digital skills and media environment and typographic skills and digital skills and digi	ers that its brand and relop a n-solving for a I be able to: and and op a brand ments solving roject lls to entity

https://teaching.ellenmueller.com/3d-design/resources/elements-principles-of-design/



Course Contents:

Descriptors/Topics	CLO	Hours
UNIT I		
Introduction to Identity Design : Visual research and analysis of the market to define your audience, offer and positioning. Brainstorming and mind mapping exercises, contextualizing offer or service in the marketplace.	CLO 1	6
UNIT II	CT 0 4	
neral Approaches to Branding: Creating mood boards to clarify your brands personality and visual language. Exploration, analysis and visual referencing of graphic/typographic elements aim to define your visual language whilst developing your understanding of visual communication skills.	CLO 2	6
UNIT III		
Design Thinking Approach in Stages: Branding ideation will help you develop a strong concept driven brand identity that is authentic and timeless. Brainstorming with your peers to develop your creative thinking without technical restraints will encourage a conceptual rather than style driven approach using sketches and visual references. Group feedback	CLO 3	6
UNIT IV		
Editing and Refining: Editing and developing your logo through further exploration of typography, graphic elements, pattern and colour to refine your identity in the form of a branding toolkit or brand guidelines. Visual references will support your thinking to communicate your brand concept and tone of voice. Group reviews will inform development and aid selection of your final brand marque.	CLO 4	6
UNIT V		
ploration and Defining Identity : Graphic, illustrative or photographic	CLO 5	6
styles to accompany your brand marque, visualisation and annotation will bring the brand identity to life. Defining your brands flexible visual identity system, explore application across multiple formats to retain audience engagement in preparation for finalisation and activation	2203	

Learning resources

Reference Books:

- 1. Identity Designed: The Definitive Guide to Visual Branding Hardcover 2019
 - a. by David Airey
- 2. CREATING A BRAND IDENTITY: A GUIDE FOR DESIGNERS Paperback 2016
 - a. by Catharine Slade-Brooking

Online Resources/E-Learning Resources

- How to Design a Logo Full Identity Design Course https://www.youtube.com/watch?v=UyoXKGQrmtY
- 2. Branding and Identity Design Master Class with Kladi Vergine https://www.youtube.com/watch?v=yinlH-hA01g



Name of Program		Minor Co		Semeste	:: # II/ *IV Level: UG/PG				
	Course Name		Micro-Economics		Code / Course	USMFE101 / Minor			
Course 1	Pattern	2024		Version		1.0			
Teachin	g Scheme				As	ssessment Scher	ne		
Theory	Practical	Tutorial	Total	Hours	CIA	ESA	Practical/Oral		
·			Credits		(Continuous Internal Assessment)	(End Semeste Assessment)			
2	(H)	-	2	2	20	30			
Pre-Req	uisite: None	9				,			
				prin 2. To supple elass to eccompref 4. To proceed to eccompref 5. To compolige	erences, income, and provide students with duction and cost, en structures, produce e. analyze various mapetition, monopoly opoly	Micro Economics with the theory and functions, narket equilibrium of understand concepts of conditional demand forecast an understanding proper's equilibrium, narket structures	y of demand and supply concepts, m, and exceptions onsumer behavior onsumer choice, asting methods. In gof the theory of duction functions, and economies of a such as perfect		
Course I	earning Out	comes (CL	O):	 Demiconce econ Appledemic information Developatte mark decis Acquistruction Gain 	s would be able to: constrate a clear und epts, principles, and comic scenarios. Ity economic principles, and and, supply, and med decision-making elop the ability terms, forecast demand et changes on common the skills to an etures, and economic resource utilitiency. It insight into variance acteristics, allowing	d their application ciples to analy market equilibing in managerial to evaluate conditional trends, and assumer preference malyze productionies of scale, explication and expl	real-world ze and interpret rium, facilitating l contexts. Insumer behavior sess the impact of es and purchasing on processes, cost enabling them to enhance business suctures and their		



Course Contents/Syllabus:

(All the units carry equal weightage in Summative Assessment and equal engagement)

Descriptors/Topics	CLO	Hours
UNIT I		
Basic Concepts and Principles- Introduction, definition, and scope of Micro	CLO 1	6
Economics, Basic assumptions in Micro Economics, Types of Economic		
Analysis, Economic Principles relevant to managerial Decisions, Relationship of		
Business Economics with other disciplines		
UNIT II		Į.
Theory of Demand and Supply- Introduction to demand, Demand function,	CLO 2	6
Demand schedule, Law of Demand and supply, Exceptions to the law of demand.		
Elasticity of demand (price elasticity, income elasticity and cross elasticity)	E.	
UNIT III		
Theory of Consumer Behavior and Demand Forecasting- Introduction and	CLO 3	6
concept of consumer choice, consumer preferences, consumer income, and		
Consumer Surplus, Introduction and meaning of demand forecasting, Methods		
of demand forecasting		
UNIT IV		
Theory of Production and Cost: Introduction and concept of production theory,	CLO 4	6
production function, production function with one variable input, Production		
function with two variable input, Types of cost, cost in short run, Cost in long		
run, Break even analysis, Economies of scale.		
UNIT V		
Market and Market Structure: Introduction, Meaning and types of Market and	CLO 5	6
Market structure, Perfect and Imperfect Competition (Monopoly, Duopoly,		
Oligopoly and Monopolistic competition) and their features.		,
Total Hours		30

Learning resources

Text Books

- 1. "Microeconomics: Theory and Applications" by D.N. Dwivedi (Publication: Vikas Publishing House, Edition: 5th, Year: 2019)
- 2. "Principles of Microeconomics" by S. Chand (Publication: S. Chand Publishing, Edition: 8th, Year: 2021)

Reference Books

- 1. "Microeconomic Theory: Basic Principles and Extensions" by Soumyen Sikdar (Publication: Cengage Learning India Pvt Ltd, Edition: 4th, Year: 2020)
- 2. "Microeconomics: An Introduction" by M. L. Jhingan (Publication: Vrinda Publications Pvt. Ltd., Edition: 9th, Year: 2017)
- 3. "Microeconomics: Theory with Applications" by Bhatia B.D. (Publication: Ane Books Pvt Ltd, Edition: 2019)
- 4. "Managerial Economics & Business Strategy" by Michael R. Baye and Jeff Prince (Publication: McGraw-Hill Education, Edition: 9th, Year: 2021)
- 5. "Microeconomics" by David Besanko and Ronald R. Braeutigam (Publication: Wiley, Edition: 5th, Year: 2019)
- 6. "Microeconomic Theory: Basic Principles and Extensions" by Walter Nicholson and Christopher M. Snyder (Publication: Cengage Learning, Edition: 12th, Year: 2016)

Online Resources/E-Learning Resources:

- https://www.opentextbooks.org.hk/system/files/export/15/15497/pdf/Principles_of_Managerial_Economics_15497.pdf
- https://www.lpude.in/SLMs/Master%20of%20Business%20Administration/Sem_1/DEECO515_MANA GERIAL_ECONOMICS.pdf



Name of	the	BBA		Semester:	# III / *V	Level: UG/PG		
Progran	1:							
*: Course	es offered fo	r B Tech, E	B Design					
#: Course	es offered fo	or B Sc, BB	A, Media, l	Management	& Liberal Arts			
Course N		Fundamer			de/ Course	USMFE102/M	INOR	
		Accountin	ng	Type				
Course I	Pattern	2024 Version 1.0						
Teaching	g Scheme	*			As	sessment Schem	e	
Theory	Practical	Tutorial	Total	Hours	CIA	ESA (End	Practical/	
V.B.			Credits		(Continuous	Semester	Oral	
					Internal	Assessment)		
					Assessment)	0,1000		
2	=	8=3	2	2	20	30		
Pre-Req	uisite: NON	IE		V.1				
Course C	bjectives (C	CO):		The object	ives of Financia	al Accounting an	d Analysis	
				are:				
				1.The pur	pose of this	course is to i	facilitate an	
						nting as an inform	ation system	
					guage of the bus			
				and the second second second for example		n and presentation	n of financial	
				statements.				
						away so as to fa		
						inancial tools an		
						rticipants in enh		
					power to make	rational decision	is related to	
				business.	. 1	11	1 1	
						inted with curren	nt trends and	
					onsibility accoun	ning. liarize the stu	donts about	
							dems about	
Course I	earning Out	comos (CI	0):	accounting in difficult economic conditions Students would be able to:				
Course L	earning Out	comes (CL	0).	1. Understand accounting during difficult times so as to				
				ensure sustainability.				
				2. Understand and apply accounting concepts, principles				
				and conventions for their routine monetary transaction.				
			3. Create and prepare financial statements and Cash flow					
				in accordance with Generally Accepted Accounting				
Principles					nee with Generally Accepted Accounting			
4. Analyze and interpret the financial state						ements of a		
				company.	1			
					e various types	of accounting an	nd utilize the	
						oonsibility in fac		
						inancial reporting		

Course Contents/Syllabus:

Descriptors/Topics	CLO	Hours
UNIT I		
Introduction to Financial Accounting: Purpose of Accounting and its	CLO 1	06
place in Business, Limitations, Relationship with other areas. Advantages		,



Loarn	Crown	Achieve	,

& Importance.		
UNIT II		
Basic Accounting Concepts and conventions: Money Measurement Concept, Entity Concept, Going Concern Concept, Cost Concept, Dual Aspect Concept, Accrual Concept, Conservatism, Materiality Concept, Consistency concept, and accounting conventions. Basic accounting assumptions.	CLO 2	06
UNIT III		
Accounting Structure: Process of Accounting, Book keeping: recording of transactions and events; journalizing, ledger posting, preparation of Trial Balance.	CLO 3	06
UNIT IV		
Preparation of Financial Statements: Form and Preparation of Income Statement and Statement of Financial Position, Adjustments Preparation of Income Statement and Balance Sheet. Accounting for Depreciation	CLO 4	06
UNIT V		
Analysis of Financial Statements: Comparative and Common Size Statement, Ratio Analysis: Liquidity ratios, Solvency ratios, Profitability ratios, activity/turnover ratios, Market capitalization ratios.	CLO 5	06
Total Hours		30

Textbooks:

- 1. Financial Accounting: An Indian Approach" by S.N. Maheshwari and S.K. Mittal Edition: Latest edition available at the time (e.g., 7th edition as of 2022)
- 2. "Financial Accounting: A Managerial Perspective" by Narayanaswamy R. Edition: Latest edition available at the time (e.g., 6th edition as of 2022)
- 3. "Financial Accounting for Management" by Dr. Ambrish Gupta Edition: Latest edition available at the time (e.g., 5th edition as of 2022)

Reference Books:

- 1. "Financial Accounting for Business Managers" by Ashok Banerjee Edition: Latest edition available at the time (e.g., 3rd edition as of 2022)
- 2. "Financial Accounting: A Managerial Emphasis" by Dr. S.N. Maheshwari and Dr. S.K. MittalEdition: Latest edition available at the time (e.g., 17th edition as of 2022)
- 3. "Fundamentals of Financial Accounting" by Dr. Ashok Sehgal and Deepak Sehgal Edition: Latest edition available at the time (e.g., 6th edition as of 2022)

Online Resources/E-Learning Resources

- 1.https://www.edx.org/executive-education/the-london-school-of-economics-and-political-science-financialanal ysis-and-management-
- accounting?index=product&queryID=5de30db63f4a9eb387260078fd314365&position=6&linked from=auto complete&c=autocomplete
- 2.https://www.edx.org/learn/financial-accounting/massachusetts-institute-of-technology-financialaccounting?index=product&queryID=603d1fb1391d47dc94127921c5087769&position=7&linked from=auto complete&c=autocomplete
- 3. https://onlinecourses.swayam2.ac.in/imb24 mg08/preview



Name of the Program:		B. Pharm		Semeste	r:#II/IV*	Level: UG	
Course Name		DH Minor	1: Health &	Course	Course Code/ Course		1/Minor
		Hygiene		Type			
Course P	attern	2024		Version		1.0	
Teaching	Scheme	5.			As	ssessment Sc	heme
Theory	Practical	Tutorial	Total	Hours	CIA	ESA	Practical/Oral
			Credits		(Continuous	(End	
					Internal	Semester	
					Assessment)	Assessme	
						nt)	
2	10 - 0	355		2	20	30	.
Pre-Requ	usite: ojectives (CC	Nil			ectives of Health		
				 To Understand and apply the emerging concepts and issues to health, hygiene and sanitation and acquire basic understanding of other healthcare systems. To critically understand the present scenario of health hygiene and analyze delivery of healthcare services, management and human resources in India. To Apply and design hygiene promotion and education programmes for development. To Understand Health, hygiene practices in India. To familiarize students about the government programmes and policies on public health Students would be able to: 			
Course Learning Outcomes (CLO):				1. health, 1 2. hygiene 3. educatio 4. 5.	Apply the eme anygiene and sani Understand the and analyze del Apply and deson programmes to Understand Hea	rging conceptation. represent so ivery of heal sign hygien for developmed the hygiene part of the hygiene	e promotion and

Course Contents/Syllabus:
(All the units carry equal weightage in Summative Assessment and equal engagement)

Topic	CLO	Hours
UNIT I		
Introduction to Sanitation and Hygiene for Health Definitions and concepts, global, national and regional perspective, relation between health, hygiene & sanitation, relevance & importance of health, hygiene in the contemporary times.	CLO1	06
UNIT II		
Health Determinants and Standards Link between occupational hygiene, risk assessment & risk management. Key health indicators, Burden of diseases Sanitation problems of the workplace: industries, academic institutions, corporate, hospitals, Public spaces etc., Future	CLO2	06



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challenges in public health, Health status in India: Standards, Relevance to social aspects		
UNIT III		
Health Hygiene Promotion & Education Hygiene Behaviour promotion & education- concept and its importance. Hygiene promotion & education in children & adolescence. Government initiatives & policies in rural & urban area, Overview of Healthcare Systems in India. Public Awareness through Digital Media - An Introduction to Mobile Apps of Government of India: NHP, Swastha Bharat, No More Tension, Pradhan Mantri Surakshit Mantritva Abhiyan (PM Suman Yojana), My Hospital (Mera aspataal), India fights Dengue, Ayushman Bhava	CLO3	06
UNIT IV		
Health, hygiene practices Present scenario of health hygiene in India, Reproductive & sexual health of the women, indigenous hygiene & sanitation practices. Women & Child Healthcare Schemes: Reproductive, Maternal, Newborn, Child and Adolescent Health (RMNCH+); Janani Shishu Suraksha Karyakaram (JSSK); Rashtriya Bal Swasthya Karyakram (RBSK); India Newborn Action Plan (INAP); Adolecent Health- Rashtriya Kishor Swasthya Karyakram (RKSK)	CLO4	06
TISTED TY		
UNIT V Health legislation, Agencies in India		

Text Reading:

- 1. Bamji, M.S., K. Krishnaswamy & G.N.V. Brahmam (2009) Textbook of Human Nutrition (3rd edition) Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi
- 2. Swaminathan (1995)Food & Nutrition(Vol I, Second Edition) The Bangalore Printing & Publishing Co Ltd., , Bangalore
- 3. Vijaya Khader (2000) Food, nutrition & health, Kalyan Publishers, New Delhi
- 4. Srilakshmi, B., (2010) Food Science, (5th Edition) New Age International Ltd., New Delhi

References:

- 1. A. Jiménez et al. infrastructure function and hygiene. Journal of Epidemiology and Community Health, 65, 432–437. doi:10.1136/jech.2009.091637
- 2. Bailie, R. S. et al. (2011). Evaluation of an Australian indigenous housing programme: Community level impact on crowding, 288
- 3. Collard, K. S. et al. (2005). Mutual" obligation in indigenous health: Can shared responsibility agreements be truly mutual? Medical Journal of Australia, 182, 502–504
- Craps, M., Dewulf, A., Mancero, M., Santos, E., & Bouwen, R. (2004). Constructing common ground and re-creating differences between professional and indigenous communities in the Andes. Journal of Community and Applied Social Psychology, 14, 378–393. doi:10.1002/casp.796

Online resource/ E-learning resource

- 1. Water, Sanitation and Culture: http://www.sswm.info/content/water-sanitation-and-culture
- 2. National Rural Health Scheme: https://nhm.gov.in/index1.php?lang=1&level=1&sublinkid=969&lid=49
- 3. National Urban Health Scheme: https://nhm.gov.in/index1.php?lang=1&level=1&sublinkid=970&lid=137
- 4. Village health sanitation & Nutritional committee: https://nhm.gov.in/index1.php?lang=1&level=1&sublinkid=149&lid=225



5. About Accredited Social Health Activist (ASHA) https://nhm.gov.in/index1.php?lang=1&level=1&sublinkid=150&lid=226

6. Rogi Kalyan Samitis https://nhm.gov.in/index1.php?lang=1&level=1&sublinkid=153&lid=229



Name of the Program:		B. Pharm		Semeste	er:#III/*V	Level: UG		
Course Name		Know Your Drugs		Course Type	Course Code/ Course		USPDH102 /Minor	
Course P	attern	2024		Version		1.0		
Teaching	Scheme				A	ssessment So	cheme	
Theory	Practical	Tutorial	Total Credits	Hours	CIA (Continuous Internal Assessment)			
2		-		2	20	30	-	
Pre-Requ	iisite:	Nil	A.	5				
Course Objectives (CO):				The objectives of Know your drugs are: 11. To understand the basics of drugs. 12. To gain the knowledge of routes of drug administration and actions of drugs. 13. To understand the preventive medicine. 14. To understand Preventive medicine 15. To know the adverse drug reaction, toxicity, legal use of drug and over the counter product.				
Course Learning Outcomes (CLO):				Students would be able to: 6. Understand the basics of drugs. 7. Explore the knowledge of routes of drug administration and actions of drugs. 8. Know the general dosage forms. 9. Know the Preventive medicine 10. Know the adverse drug reaction, toxicity and legal use of drug				

Course Contents/Syllabus:

Descriptors/Topic	CLO	Hours
UNITÎ		
Introduction to basics of drugs: Definitions and basic concepts of drugs, classification nature and source of drugs, essential drugs concepts.	CLO1	06
UNIT II		
Route of drug administration: Routes ofdrug administration, and basics of pharmacokinetics and pharmacodynamics.	CLO2	06
UNIT III		
Dosage forms: Introduction to dosage forms, classification and definitions Introduction to Prescription Posology: Definition, Factors affecting posology. Dose calculation of drugs based on age, body weight and body surface area.	CLO3	06
UNIT IV		
Preventive medicine: General principles of prevention and control of diseases such as cholera, SARS, Ebola virus, influenza, acute respiratory infections, malaria, chicken guinea, dengue, lymphatic filariasis, pneumonia, hypertension, diabetes mellitus, cancer, drug addiction-drug substance abuse	CLO4	06



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UNIT V	
Adverse drug reaction (ADR), signs and symptoms of an adverse drug reaction, Diagnosis of ADR and treatment of ADR. Introduction to legal use of drug. Basic knowledge of Toxicity OTC Medication- Definition, OTC medication list & Counselling	06
Total	30

Text Books

- 1. Modern Pharmacology with clinical Applications, by Charles R.Craig & Robert.
- 2. Sharma H. L., Sharma K. K., Principles of Pharmacology, Paras medical publisher
- 3. K.D.Tripathi. Essentials of Medical Pharmacology, JAYPEE Brothers Medical Publishers (P) Ltd, New Delhi.

Reference Books:

- 1. Mycek M.J, Gelnet S.B and Perper M.M. Lippincott's Illustrated Reviews- Pharmacology
- 2. Marry Anne K. K., Lloyd Yee Y., Brian K. A., Robbin L.C., Joseph G. B., Wayne A. K., Bradley R.W., Applied Therapeutics, The Clinical use of Drugs, The Point Lippincott Williams & Wilkins
- 3. Goodman and Gilman's, The Pharmacological Basis of Therapeutics.
- 4. Katzung B. G., Masters S. B., Trevor A. J., Basic and clinical pharmacology, Tata Mc Graw-Hill
- 5. Rang H. P., Dale M. M., Ritter J. M., Flower R. J., Rang and Dale's Pharmacology, Churchil Livingstone Elsevier
- 6. Review of Preventive and Social Medicine (Including Biostatistics), Jain Vivek, 6th
- 7. Edition, 2014, ISBN: 9789351522331, JAYPEE Publications
- 8. Essentials of Community Medicine—A Practical Approach, Hiremath Lalita D,
- 9. Hiremath Dhananjaya A, 2nd Edition, 2012, ISBN: 9789350250440, JAYPEE Publications
- 10. H.C. Ansel et al., Pharmaceutical Dosage Form and Drug Delivery System, Lippincott
- 11. Williams and Walkins, New Delhi. Carter S.J., Cooper and Gunn's-Dispensing for Pharmaceutical Students, CBS publishers, New Delhi.
- 12. M.E. Aulton, Pharmaceutics, The Science Dosage Form Design, Churchill Livingstone, Edinburgh.
- 13. Indian pharmacopoeia.
- 14. British pharmacopoeia.
- 15. Lachmann. Theory and Practice of Industrial Pharmacy, Lea & Febiger Publisher, The University of Michigan.

Online Resources/E-Learning Resources

- 1. https://jiwaji.edu/pdf/ecourse/pharmaceutical/General%20Pharmacology%20(B.Pharmacy%203%20Year %20Pharmacology%20III%203T4)%20By%20Dr.%20Bhagat%20Singh%20Jaiswal.pdf
- 2. https://www.ncbi.nlm.nih.gov/books/NBK507791/
- 3. https://www.slideshare.net/PranatiChavan/posology-posology-definition-factors-affecting-dose-selectioncalculation-of-children-and-infant-doses-ppt https://www.ncbi.nlm.nih.gov/books/NBK560924/



Name of the Program:	BCA		Semeste	r:#II/IV*	Level: UG	
Course Name	System An	alysis and	Course	Code/ Course	UETAD101/Mi	nor
	Design		Type			
Course Pattern 2024			Version		1.0	
Teaching Scheme		Assessment S	NATIONAL CRIMINATORICAL CRIMINATORICA CRIMINATORICAL CRIMINATORICAL CRIMINATORICAL CRIMINATORICAL CRIMINATORICA			
Theory Practical	Tutorial	Total	Hours	CIA	ESA (End	Practical/
		Credits		(Continuous	Semester	Oral
					Assessment)	
2			2		20	
	-	K 75.	0 750		5500	=
		ce principle				
Internal Assessment						ems analysis ems analysis ems analysis ion systems as the basis ile basis for can support of CASE in analysis and evising and on systems feasibility and benefit

Course Contents/Syllabus:

Descriptors/Topics	CLO	Hours
UNIT I	_	
Basic Concept of Systems : The System: Definition and Concepts, Elements of a System: Input, Output Processor, Control, Feedback, Environment, Boundaries and Interface; Characteristics of a System, Types of systems -Physical and Abstract System, Open and Closed Systems, Manmade Systems, Information and its categories	CLO 1	6
UNIT II		
Information System and System Analyst: Information systems: TPS,	CLO 2	6



OAS, MIS, DSS, ESS; System Analyst: Role and need of system analyst, System Analyst as an agent of change.		
UNIT III		
System Planning and Information Gathering: Initial Investigations, Identification of user needs, Project Identification and Selection, Needs of Information Gathering, Determination of requirements, Information gathering tools: interviews, group communication, questionnaires, presentations and site visits.	CLO 3	6
UNIT IV		
Feasibility Study : Definition, Importance of feasibility study, Types of feasibility study, System selection plan and proposal, Prototyping, Cost-Benefit Analysis: Tools and Techniques.	CLO 4	6
UNIT V		
System Design: Module specifications, Module Coupling and cohesion, Top-down and bottom-up design; Logical and Physical design, Structured design, Need of System Testing, Types of System Testing, Quality Assurance	CLO 5	6
Total Hours		30

Textbooks:

- 1. Elias m. Awad: System Analysis and Design
- 2. Perry Edwards: System Analysis & design McGraw Hill_Reference Books

Online Resources/E-Learning Resources.

- 1. https://archive.nptel.ac.in/courses/106/108/106108103/
- $2. \quad \underline{https://www.itcollegenepal.com/wp-content/uploads/2019/02/System-Analysis-and-Design-BCA-Syllabus-IT-College-Nepal.pdf}$



Name Program	of the	BCA		Semester	:# III / *V	Level: UG		
Course Name		User Experience And Design		Course C Type	Code/ Course	UETAD102/Minor		
Course P	attern	2024		Version		1.0		
Teaching Scheme				Assessment S	cheme			
Theory	Practical	Tutorial	Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/ Oral	
2	:=:	-	2	2	20	30	-	
Prerequisi	te: Basic con	nputer scien	ce principl	es, discrete	mathematics an	nd probability theo	ory.	
	bjectives (CC			1. To reprinct conner of income of i	call the Knowledge of UX Decting with peoperation, diversity pply the Knowledge of the Market goals, timing evaluate how to constitute the Organization of the gner in a large of	vledge and ability to use methods, a and budget o apply tools ar ied exercises. ganizing principle e mindset, the jo	nding of the portance of the principles by to clearly according to the methods and methods are for digital	
	earning Outco			1. Know methor simulatestin 2. Under graph 3. Apply required. Create artifa 5. Learn	ods in design, ation and protog methods, interstand iterative iteal user interface the user Interfacements, e high quality cts related to the	red design, user graphic design otyping technique face technologies e user-centered ces faces to different professional docted design process.	on screens, es, usability design of devices and uments and	

Course Contents/Syllabus:

Descriptors/Topics	CLO	Hours
UNIT I		
Introduction to the UI: What is User Interface Design (UI) -The	CLO 1	6
Relationship Between UI and UX, Roles in UI/UX, A Brief Historical		
Overview of Interface Design, Interface Conventions, Approaches to Screen		
Based UI, Template vs Content, Formal Elements of Interface Design,		
Active Elements of Interface Design, Composing the Elements of Interface		



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		332
Design, UI Design Process, Visual Communication design component in		
Interface Design		
UNIT II		
Introduction to UX: UX Basics-Foundation of UX design, Good and poor design, Understanding Your Users, Designing the Experience Elements of user Experience, Visual Design Principles, Functional Layout, Interaction design, Introduction to the Interface, Navigation Design, User Testing, Developing and Releasing Your Design	CLO 2	6
UNIT III		
UI/ UX Design Tools: User Study- Interviews, writing personas: user and device personas, User Context, Building Low Fidelity Wireframe and High-Fidelity Polished Wireframe Using wireframing Tools, Creating the working Prototype using Prototyping tools, Sharing and Exporting Design	CLO 3	6
UNIT IV		
UX Design – Analyzing User Data Techniques: Data Analyzing in the User-Centered Design (UCD) Process ,Gathering User Data, Experience Map Actionable data	CLO 4	6
UNIT V		
Introduction of UX Multidevice Design: Planning your Multi Device Project Content Strategies, Designing for Touch Devices, Designing Multi Device, Experience	CLO 5	6
Total Hours		30

Reference books:

- 1. A Project Guide to UX Design: For user experience designers in the field or in the making (2nd. ed.). Russ Unger and Carolyn Chandler. New Riders Publishing, USA, 2012.
- 2. The Elements of User Experience: User-Centered Design for the Web and Beyond, Second Edition Jesse James Garrett, Pearson Education. 2011.
- 3. The Essential Guide to User Interface Design: An Introduction to GUI Design Principles and Techniques, Third Edition Wilbert O. Galitz, Wiley Publishing, 2007.
- 4. The UX Book Process and Guidelines for Ensuring a Quality User Experience, Rex Hartson and Pardha S. Pyla, Elsevier, 2012

Online Resources/E-Learning Resources.

- 1. https://bootcamp.uxdesign.cc/ux-notes-understanding-the-fundamentals-of-user-experience-design-forbeginners-e57dbc9837f6
- 2. https://www.interaction-design.org/literature/topics/ux-design
- 3. https://freecomputerbooks.com/The-Basics-of-User-Experience-Design.html



Name Program	of the	BSC(CS)		Semeste	er:#II/IV*	Level: UG	
Course N		Cyber Ethics, Cyber law, Cyber Policy		Course Type	Code/ Course	UETCS101/Min	nor
Course P	attern	2024		Version		1.0	
Teaching	Scheme		-		Assessment S	cheme	
Theory	Practical	Tutorial	Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/ Oral
2	025	123	2	2	20	30	
Prerequisi	ite: Basic kno	owledge of C	omputer			×	
Course Le	earning Outco	omes (CLO):		2. Dev And Other Students 1. Con Prop Varia 3. Dev Betv Lear Tech 4. Exp 5. Make	ritical Understantelop Competence Deceptions (Competence Deceptions) (Competence Deceptions) (Competence and Examination of the American State of the Understant State of the Understante State of the Und	understanding of ividuals, commune to analyze the conal ethical dilemment as ethics, moral diethical relativisment and ethical relativisment and ethical behavestrictions, and nechnology systemation technology ociety.	how ethical unities and onsequences as. Is, character, in. It is a considered and onsequences as as a consequences as as a consequences as as a consequence and it is a conseq

Course Contents/Syllabus:

Descriptors/T	`opic	:s						CLO	Hours
UNIT I									
Introduction	to	Cyber	law:	Evolution	of	computer	Technology,	CLO 1	6



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emergence of cyberspace. Cyber Jurisprudence, Jurisprudence and law, Doctrinal approach, Consensual approach, Real Approach, Cyber Ethics, Cyber Jurisdiction, Hierarchy of courts, Civil and criminal jurisdictions, CyberspaceWeb space, Web hosting and web Development agreement, Legal and Technological Significance of domain Names, Internet as a tool for global access.		
UNIT II		
Information Technology Act: Overview of IT Act, 2000, Amendments and Limitations of IT Act, Digital Signatures, Cryptographic Algorithm, Public Cryptography, Private Cryptography, Electronic Governance, Legal Recognition of Electronic Records, Legal Recognition of Digital Signature, Certifying Authorities, Cyber Crime and Offences, Network Service Providers Liability, Cyber Regulations Appellate Tribunal, Penalties and Adjudication.	CLO 2	6
UNIT III		
Cyber law and Related Legislation: Patent Law, Trademark Law, Copyright, Software – Copyright or Patented, Domain Names and Copyright disputes, Electronic DataBase and its Protection, IT Act and Civil Procedure Code, IT Act and Criminal Procedural Code, Relevant Sections of Indian Evidence Act, Relevant Sections of Bankers Book Evidence Act, Relevant Sections of Indian Penal Code, Relevant Sections of Reserve Bank of India Act, Law Relating To Employees And Internet, Alternative Dispute Resolution, Online Dispute Resolution (ODR).	CLO3	6
UNIT IV:		
Electronic Business and legal issues: Evolution and development in Ecommerce, paper vs paperless contracts E-Commerce models- B2B, B2C, E security. Business, taxation, electronic payments, supply chain, EDI, Emarkets, Emerging Trends.	CLO4	6
UNIT V:		
Cyber Ethics: The Importance of Cyber Law, Significance of Cyber Ethics, Need for Cyber Regulations and Ethics. Ethics in Information society, Introduction to Artificial Intelligence Ethics: Ethical Issues in AI and core Principles, Introduction to Block chain Ethics.	CLO5	6
Total Hours		30

Reference Books:

- 1. Cyber Laws: Intellectual property & E Commerce, Security- Kumar K, dominant Publisher
- 2. Cyber Ethics 4.0, Christoph Stuckelberger, Pavan Duggal, by Globethic
- 3. Information Security policy & Implementation Issues, NIIT, PHI
- 4. Computers, Internet and New Technology Laws, Karnika Seth, Lexis Nexis Butterworths Wadhwa Nagpur.

Online Resources/E-Learning Resources:

- 1. https://unacademy.com/content/cbse-class-11/study-material/computer-science/cyber-ethicscyber-safety-and-cybercrime/
- 2. https://www.slideshare.net/PreetHanspal/cyber-ethics-249934229



Name Program:	of the	BSC(CS)		Semeste	er:#III/*V	Level: UG	
	Course Name		Introduction to Cryptography		Code/ Course	UETCS102/Min	or
Course Pa	attern	2024	M. M.	Type Version		1.0	
Teaching					Assessment S	cheme	
Theory	Practical	Tutorial	Total	Hours	CIA	ESA	Practical/
			Credits		(Continuous	(End	Oral
					Internal	Semester	
					Assessment)	Assessment)	
2	(₩	()	2	2	20	30	-
Prerequisi mathemat: Course Ol)):	edge of pro	The objection of the ob	g. Background actives of Intro- understand the ciples and conce Evaluate the s stographic algo- ability for specific and the complete of the second active o	duction to Cryptoge knowledge of epts of modern cryptrengths and weaterithms and assic applications evelopments in cryptopose new compare different phic algorithms, on, public-key encess.	graphy are: the basic ptography. aknesses of ssess their ryptography solutions. at types of including ryption, and yptographic asuring data city. amunication and tools amunication yptographic tuture trends
				base		ign and develop a	50.00

Course Contents/Syllabus:

Descriptors/Topics	CLO	Hours
UNIT I		
Introduction: What is modern cryptography, Historical ciphers and their	CLO 1	6
cryptanalysis, The heuristic versus the rigorous approach; adversarial		



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models and principles of defining security Perfectly-Secret Encryption: Definitions, the one-time pad; proven limitations Private-Key (Symmetric) Encryption: Computational security, Defining secure, encryption, Constructing secure encryption; pseudo randomness, Stronger security notions, Constructing CPA-secure encryption, Modes of operation; CBC vs. CTR, Security of CTR with n – k bit counter for messages to size 2k blocks with proof directly to the LR definition, CCA		
attacks.		
UNIT II		
Message Authentication Codes: Message integrity, Definition of security, Constructions from pseudorandom functions, CBC-MAC, Authenticated encryption. Collision-Resistant Hash Functions: Definitions, The Merkle-Damgard transform, HMAC, Birthday attacks, The Random oracle model, Password hashing, Constructions of Pseudorandom Permutations (Block Ciphers) in Practice, Substitution-permutation and Feistel networks, DES and attacks on reduced-round versions, double-DES and triple-DES, AES, Hash functions from block ciphers.	CLO 2	6
UNIT III		
Number Theory: Preliminaries and basic group theory, Primes, factoring and RSA, Cryptographic assumptions in cyclic groups, Collision resistant hash functions from discrete log, Public-Key (Asymmetric) Cryptography: Introduction and motivation, Diffie-Hellman key exchange	CLO3	6
UNIT IV:		
Public-Key (Asymmetric) Encryption: The model and definitions, Hybrid encryption and KEM/DEM, El Gamal, RSA: textbook encryption, attacks on textbook RSA, padded RSA; CCA-secure RSA KEM. Digital Signatures: Definition and applications, Hash and sign, RSA signatures: textbook RSA, hashed RSA, security with ROM, Certificates and public-key infrastructures.	CLO4	6
UNIT V:		
Developments in Modern Encryption: Digital watermarking; identification schemes; mobile communications and security; factoring; steganography; biometrics; distributed denial of service attacks; secret sharing; probabilistic encryption	CLO5	6
Total Hours		30

Reference Books:

- 1. Handbook of Applied Cryptography by Alfred Menezes, Paul Oorschot and Scott Vanstone. Available Online.
- 2. Foundations of Cryptography by Oded Goldreich. Available Online.
- 3. Cryptography, an Introduction by Nigel Smart. Available Online

Online Resources/E-Learning Resources:

- 1. https://www.geeksforgeeks.org/cryptography-introduction/
- 2. https://www.techtarget.com/searchsecurity/definition/cryptography
- 3. https://files.boazbarak.org/crypto/lnotes book.pdf