

Sardar Patel University Vallabh Vidyanagar

1.1.1 Curricula developed and implemented have relevance to the local, regional, national, and global developmental needs, which is reflected in the Programme Outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes (COs) of the programmes offered by the University

Program	MSc (Biochemistry)					
POs	At the end of the program, the students will be able to:					
	PO1 Have a deep understanding of both the theoretical and practical concepts in the					
	respective subject.					
	PO2 Understand laboratory processes an	d use scien	tific equipme	ent and worl	ς.	
	independently.					
	PO3 Develop research temperament as a	consequen	ce of their th	eory and pr	actical	
	learning. PO4 Communicate scientific information	n in oral and	d writton for	n		
	PO5 Understand the issues related to nat				think	
	rationally for sustainable developme		nonnentai e	oniexts and	tiiiik	
	PO6 The students are able to handle une		utions by cri	tically analy	vsing the	
	problem.	npootoa site		tiouily unui	joing the	
PSOs	PO1 Biochemistry masters students	will be	able to co	mprehend	fundamental	
	Biochemistry principles underlying			.		
	PO2 They will develop proficiency in Biochemistry Laboratory experiments as well as					
	theory.					
	PO3 They will be able to translate their l	knowledge ^v	with a skilful	job at vario	ous industries	
	and research labs.					
	PO4 The students will become employable in the fields of Quality Assurance,					
	Production, Research and Teachin				iticals, Dairy,	
Commence Comme	Agriculture, Environment, Clinical					
	se Outcomes (COs) are available in indi he respective Course Name	vidual sylla	adus mes wi	lich can de	accessed	
by chenning on t		Curricu	la relevant	to loca	l, regional,	
~ ~ .	~		and global			
Course Code	Course Name	Local	Regional	Nationa l	Global	
PS01CBIC21	Cell Biology and Genetics		✓	✓	\checkmark	
PS01CBIC22	Bioinstrumentation		✓	✓	✓	
PS01CBIC23	Cellular Metabolism					
PS01CBIC24	Practicals				\checkmark	
PS01CBIC25	Practicals				✓	
	Biochemistry of Horticultural		✓	✓	~	
PS01EBIC21	commodities		•	•		
PS01EBIC22	Biomolecules and Bioenergetics				✓	
	Phyto resources utilization and	✓	✓	✓	\checkmark	
PS01EBIC23	conservation					
PS02CBIC21 PS02CBIC22	Molecular Biology Toxicology			✓	✓	
					\checkmark	

		xpected situ s in Biotech h analytical mology in in ical and pra- g sophistic to be emplo cal responsiti vidual sylla Curricul	nology cours and critical ndustry, med actical skills. ated laborat byed in indu bility.	se, the stude thinking to licine and A ory equipm stry as well hich can be o local, reg	ent will be identify and griculture. ent and their as academic e accessed by ional,			
Courses: Cour	 PO6 The students are able to handle une problem. On successful completion of the Masters able to: PSO1 Demonstrate an ability for in dept solve problems related to Biotech PSO2 Comprehend and integrate theoret PSO3 Demonstrate mastery in handlin appropriate applications. PSO4 Become a professional suitable t institutions. PSO5 Understand professional and ethic rse Outcomes (COs) are available in indi 	xpected situ s in Biotech h analytical mology in in ical and pra- g sophistic to be emplo cal responsiti vidual sylla Curricul	nology cours and critical ndustry, med actical skills. ated laborat oyed in indu pility. abus files wa	se, the stude thinking to licine and A ory equipm stry as well hich can be o local, reg	ent will be identify and griculture. ent and their as academic e accessed by ional,			
Courses: Cour	 PO6 The students are able to handle une problem. On successful completion of the Masters able to: PSO1 Demonstrate an ability for in dept solve problems related to Biotech PSO2 Comprehend and integrate theoret PSO3 Demonstrate mastery in handlin appropriate applications. PSO4 Become a professional suitable t institutions. PSO5 Understand professional and ethic rse Outcomes (COs) are available in indi 	xpected situ s in Biotech h analytical mology in in ical and pra g sophistic to be emplo	nology cours and critical ndustry, med actical skills. ated laborat byed in indu bility.	se, the stude thinking to licine and A ory equipm stry as well	ent will be identify and griculture. ent and their l as academic			
	 PO6 The students are able to handle une problem. On successful completion of the Masters able to: PSO1 Demonstrate an ability for in dept solve problems related to Biotech PSO2 Comprehend and integrate theoret PSO3 Demonstrate mastery in handlin appropriate applications. PSO4 Become a professional suitable to institutions. PSO5 Understand professional and ethic 	xpected situ s in Biotech h analytical mology in in ical and pra g sophistic to be emplo	nology cours and critical ndustry, med actical skills. ated laborat byed in indu bility.	se, the stude thinking to licine and A ory equipm stry as well	ent will be identify and griculture. ent and their l as academic			
PSOs	 PO6 The students are able to handle une problem. On successful completion of the Masters able to: PSO1 Demonstrate an ability for in dept solve problems related to Biotech PSO2 Comprehend and integrate theoret PSO3 Demonstrate mastery in handlin appropriate applications. PSO4 Become a professional suitable t institutions. 	xpected situ s in Biotech h analytical mology in in ical and pra ig sophistic	nology cours and critical ndustry, med actical skills. ated laborat oyed in indu	se, the stude thinking to licine and A ory equipm	ent will be identify and griculture.			
PSOs	 PO6 The students are able to handle une problem. On successful completion of the Masters able to: PSO1 Demonstrate an ability for in dept solve problems related to Biotech PSO2 Comprehend and integrate theoret PSO3 Demonstrate mastery in handlin appropriate applications. PSO4 Become a professional suitable to 	xpected situ s in Biotech h analytical nology in in ical and pra g sophistic	nology cours and critical ndustry, med ctical skills. ated laborat	se, the stude thinking to licine and A ory equipm	ent will be identify and griculture.			
PSOs	 PO6 The students are able to handle une problem. On successful completion of the Masters able to: PSO1 Demonstrate an ability for in dept solve problems related to Biotech PSO2 Comprehend and integrate theoret PSO3 Demonstrate mastery in handlin appropriate applications. 	xpected situ s in Biotech h analytical nology in in ical and pra g sophistic	nology cours and critical ndustry, med ctical skills. ated laborat	se, the stude thinking to licine and A ory equipm	ent will be identify and griculture.			
PSOs	 PO6 The students are able to handle une problem. On successful completion of the Masters able to: PSO1 Demonstrate an ability for in dept solve problems related to Biotech PSO2 Comprehend and integrate theoret PSO3 Demonstrate mastery in handling 	xpected situ s in Biotech h analytical mology in in ical and pra	nology cours and critical ndustry, med actical skills.	se, the stude thinking to licine and A	ent will be identify and griculture.			
PSOs	 PO6 The students are able to handle une problem. On successful completion of the Masters able to: PSO1 Demonstrate an ability for in dept solve problems related to Biotech PSO2 Comprehend and integrate theoret 	xpected situ s in Biotech h analytical mology in in ical and pra	nology cours and critical ndustry, med actical skills.	se, the stude thinking to licine and A	ent will be identify and griculture.			
PSOs	 PO6 The students are able to handle une problem. On successful completion of the Masters able to: PSO1 Demonstrate an ability for in dept solve problems related to Biotech 	xpected situ s in Biotech h analytical mology in in	nology cours and critical ndustry, med	se, the stude thinking to licine and A	ent will be identify and			
PSOs	 PO6 The students are able to handle une problem. On successful completion of the Masters able to: PSO1 Demonstrate an ability for in dept 	xpected situ s in Biotech h analytical	nology cours	se, the stude	ent will be identify and			
PSOs	PO6 The students are able to handle une problem.On successful completion of the Masters able to:	xpected situ	nology cours	se, the stude	ent will be			
PSOs	PO6 The students are able to handle une problem.	xpected situ	•	•	• •			
	PO6 The students are able to handle une		ations by cr	itically anal	ysing the			
			ations by cr	itically anal	ysing the			
	rationally for sustainable developme	PO6 The students are able to handle unexpected situations by critically analysing the						
	rationally for sustainable development.							
	PO5 Understand the issues related to nature and environmental contexts and think							
	PO4 Communicate scientific information	n in oral and	d written for	m.				
	PO3 Develop research temperament as a consequence of their theory and practical learning.							
	A 7	consequer	ce of their th	eory and pr	actical			
	independently.		une equipin	one und won	IX.			
	PO2 Understand laboratory processes an	d use scient	tific equipme	ent and wor	k			
	respective subject.		cai and pide	ica concep				
1 (1)	PO1 Have a deep understanding of both			tical concer	ts in the			
Program POs	MSc (Biotechnology)At the end of the program, the students v	vill be able	to:					
PS04EBIC27	Endocrinology MSa (Riotashnalogy)				v			
PS04EBIC26	Pharmacognosy Endocrinology				✓ ✓			
PS04EBIC25	IPR and Biosafety	-		✓	\checkmark			
PS04EBIC24	Plant Biotechnology	-		✓ ✓	\checkmark			
PS04EBIC22	Dissertation	✓	✓	\checkmark				
PS04EBIC22	Practical II		✓	✓	\checkmark			
PS04CBIC23	Practical I				✓ ✓			
PS04CBIC22	Nutritional and Clinical Biochemistry		-					
PS04CBIC21	Animal Biotechnology				✓ ✓			
				v	✓ ✓			
PS03EBIC23 PS03EBIC24	Omics and Computational Biology Plant Biochemistry			✓	✓ ✓			
PS03EBIC22					✓ ✓			
PS03EBIC21	Advanced Immunology Bioinformatics				✓ ✓			
PS03CBIC25	Practical-2				\checkmark			
PS03CBIC24	Practical-1				√			
PS03CBIC23	Enzymology				√			
PS03CBIC22	Genetic Engineering				 ✓ 			
PS03CBIC21	Human Physiology				√			
PS02EBIC23	Micro techniques				 ✓ 			
	Medical Biochemistry				✓			
PS02EBIC22	Biostatistics				✓			
PS02EBIC21 PS02EBIC22	Practical				✓			
	Practical				✓			
PS02EBIC21								

PSOs	On successful completion of the Masters in I						
	PO6 The students are able to handle unexpected situations by critically analysing the problem.						
	-	cted situations by cri	tically analy	sing the			
	rationally for sustainable development.						
	PO5 Understand the issues related to nature a	and environmental c	ontexts and	think			
	PO4 Communicate scientific information in						
	learning.						
	PO3 Develop research temperament as a consequence of their theory and practical						
	PO2 Understand laboratory processes and use scientific equipment and work independently.						
	respective subject.						
	PO1 Have a deep understanding of both the theoretical and practical concepts in the						
POs	At the end of the program, the students will b		ical concert	a in tha			
Program	MSc (Biotechnology)	1-1					
PS04EBIT27	Endocrinology			✓			
PS04EBIT26	Pharmacognosy						
PS04EBIT25	IPR and Biosafety		v	✓ ✓			
PS04EBIT24	Food and Dairy Microbiology	√	✓ ✓	✓ ✓			
PS04EBIT23	Microbial Physiology	√	\checkmark	✓ ✓			
PS04EBIT22	Dissertation Missel Physical Action			$\overline{\checkmark}$			
PS04EBIT21	Practical – II			√			
PS04CBIT23	Practical – I			<u>√</u>			
PS04CBIT22	Environmental Biotechnology		 ✓ 	<u>√</u>			
PS04CBIT21	Animal and Plant Biotechnology			✓			
PS03EBIT24	Plant Biochemistry			<u> </u>			
PS03EBIT23	Omics and Computational Biology		✓	✓			
PS03EBIT22	Bioinformatics			<u>√</u>			
PS03EBIT21	Advanced Immunology			<u>√</u>			
PS03CBIT25	Practical – II			√			
PS03CBIT24	Practical – I			<u>√</u>			
PS03CBIT23	Enzymology			✓			
PS03CBIT22	Genetic Engineering		\checkmark	✓			
PS03CBIT21	Microbial Biotechnology			<u>√</u>			
PS02EBIT24	Medical Biochemistry			✓			
PS02EBIT23	Microtechniques			<u>√</u>			
PS02EBIT22	Medical Microbiology			✓			
PS02EBIT21	Biostatistics						
PS02CBIT25	Practical Discretizion			✓ ✓			
PS02CBIT24	Practical Practical			✓ ✓			
PS02CBIT23	Fundamentals of Immunology			 ✓			
PS02CBIT22	Microbial Genetics			$\frac{\checkmark}{\checkmark}$			
PS02CBIT21	Engineering Microbiol Constinue			/			
	Bioprocess and Biochemical		✓	\checkmark			
PS01EBIT24	Human Physiology			<u> </u>			
PS01EBIT23	Conservation						
	Phytoresource Utilization and	\checkmark	✓	\checkmark			
PS01EBIT22	Biomolecules and Bioenergetics			<u> </u>			
PS01EBIT21	Biochemistry			✓			
PS01CBIT25	Practical			✓			
PS01CBIT24	Practical			✓			
PS01CBIT23	Cell Biology			\checkmark			
I SUICDI122	Bioinstrumentation			\checkmark			
PS01CBIT22			1 T				

	able to:						
	PSO1 Demonstrate an ability for in depth analytical and critical thinking to identify and						
	solve problems related to Biotechnology in industry, medicine and Agriculture.						
	PSO2 Comprehend and integrate theoretical and practical skills.						
	PSO3 Demonstrate mastery in handli			v equipme	ent and their		
	appropriate applications.	0 1					
	PSO4 Become a professional suitable	to be employ	ed in industr	v as well	as academic		
	institutions.	to be employ	eu in maasti	y us well	us ucuacinic		
	PSO5 Understand professional and ethi	ical responsibi	lity				
PS01CIBT21	Molecular Biology	icul responsion	nty.		✓		
PS01CIBT22	Genetic Engineering				· · · · · · · · · · · · · · · · · · ·		
	Cellular Metabolism				 ✓		
PS01CIBT23	Practicals				 ✓		
PS01CIBT24					 ✓		
PS01CIBT25	Practicals						
PS01EIBT21	Biostatistics				✓		
PS02CIBT21	Bioprocess Technology			,	✓		
PS02CIBT22	Animal and Plant Biotechnology			\checkmark	~		
PS02CIBT23	Environmental Biotechnology				✓		
PS02CIBT24	Practicals				\checkmark		
PS02CIBT25	Practicals				\checkmark		
PS02EIBT21	Bioinformatics				\checkmark		
PS02EIBT22	IPR and Biosafety				✓		
PS03CIBT21	Immunotechnology				\checkmark		
PS03CIBT22	Downstream Processing			✓	✓		
	Enzyme Technology and Enzyme				✓		
PS03CIBT23	Engineering						
PS03CIBT24	Practical – I				\checkmark		
PS03CIBT25	Practical – II				✓		
<u>1505CID125</u>	Biomanufacturing Principles and				· · ·		
PS03EIBT21	Practices				·		
PS03EIBT22	Metabolic Engineering				✓		
	Dissertation			\checkmark			
PS04CIBT21				v	•		
Program DO	MSc (Botany)						
POs	At the end of the program, the students			1 .	• .1		
	PO1 Have a deep understanding of both	n the theoretic	al and practic	al concept	s in the		
	respective subject.		c· ·				
	PO2 Understand laboratory processes a	ind use scienti	fic equipment	t and work			
	independently.						
	PO3 Develop research temperament as a consequence of their theory and practical						
	learning.						
		PO4 Communicate scientific information in oral and written form. PO5 Understand the issues related to nature and environmental contexts and think					
			ronmental con	ntexts and	think		
	rationally for sustainable development.						
	PO6 The students are able to handle unexpected situations by critically analysing the						
	problem.						
PSOs	PSO1 Students completing M.Sc. Bot						
	knowledge and develop relevant	-			-		
	the fundamental and traditional	-					
	oriented aspects such as plant			-			
	human livelihood, ecological	services and	human infl	uenced er	nvironmenta		
	issues.						
	PSO2 Students will be equipped with the	he in-depth kn	owledge and	analytical	skills related		
	to the evolution processes						

	anvironmental conditions plant i	ntoractions	with mior	bac and inc	acta constic		
	environmental conditions, plant interactions with microbes and insects, makeup and inheritance of various levels of plants, cell and molecular bio						
	plants, horticultural crops, physiology, biochemistry, biotechnology, recombinant						
	DNA technology, proteomics and transgenic technology. PSO2 Students will develop skills of plant explorations and identifications, herbarium						
	preparation and preservation techn						
	techniques, principles and methods						
	microtomy, reproduction, genetics,						
		•	·	•	•••		
	molecular biology, identification of various pests and diseases of crop plants and their controlling mechanisms, various analytical techniques.						
	PSO3 Acquaintance with the use of bioin				polication of		
	statistics to biological data, biotech						
	vitro propagation, genetic transform						
	PSO4 Training in experimental design ar						
	techniques of research, quantitative						
	of data. By presenting seminars in			•	.		
	communication and presentation ski				1		
Courses: Cours	e Outcomes (COs) are available in indiv	idual syllat	ous files w	hich can be	accessed by		
	respective Course Name	·			· ·		
PS01CBOT21	Cell and Molecular Biology				✓		
PS01CBOT22	Bioinstrumentation				\checkmark		
PS01CBOT23	Genetics, Plant Breeding and Evolution				\checkmark		
PS01CBOT24	Practical				\checkmark		
PS01CBOT25	Practical				\checkmark		
PS01EBOT21	Biostatistics				\checkmark		
PS01EBOT22	Biomolecules and Bioenergetics				\checkmark		
PS02CBOT21	Biology and Diversity of Lower Plants		✓	 ✓ 	✓		
PS02CBOT22	Taxonomy and Diversity of Seed Plants		✓	 ✓ 	✓		
PS02CBOT23	Mycology and Plant Pathology				\checkmark		
PS02CBOT24	Practical				\checkmark		
PS02CBOT25	Practical				\checkmark		
PS02EBOT21	Microtechniques				\checkmark		
PS02EBOT22	Bioinformatics				✓		
PS03CBOT21	Plant Development and Reproduction			 ✓ 	✓		
PS03CBOT22	Plant Physiology				✓		
PS03CBOT23	Environment and Ecological Principles			 ✓ 	√		
PS03CBOT24	Practical – I				\checkmark		
PS03CBOT25	Practical – II				\checkmark		
PS03EBOT21	Systematic Botany				\checkmark		
PS03EBOT22	Omics and Computational Biology				\checkmark		
PS04CBOT21	Plant Biotechnology				\checkmark		
PS04CBOT22	Biochemistry and Medical Botany				\checkmark		
PS04CBOT23	Practical – I				\checkmark		
PS04EBOT21	Practical-II				\checkmark		
PS04EBOT22	Dissertation		\checkmark	 ✓ 	\checkmark		
PS04EBOT23	Phytoresource Utilization and		/	1	/		
	conservation		\checkmark	~	\checkmark		
PS04EBOT24	Horticulture		\checkmark	 ✓ 	\checkmark		
PS04EBOT25	IPR and Biosafety			 ✓ 	\checkmark		
Program	MSc (Microbiology)	· · · · · · · · · · · · · · · · · · ·					
POs	At the end of the program, the students w	ill be able to):				
	PO1 Have a deep understanding of both t			tical concept	s in the		
	respective subject.		•	1			

	 PO2 Understand laboratory processes and use scientific equipment and work independently. PO3 Develop research temperament as a consequence of their theory and practical learning. PO4 Communicate scientific information in oral and written form. PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development. PO6 The students are able to handle unexpected situations by critically analysing the 						
	problem.						
PSOs	PSO1 Students completing the MSc de	oree program	me in Mic	robiology wł	hich is a two		
1505	year fulltime program will be able						
	to microbiology subjects like mole						
	immunology.	8.	,,				
	PSO2 Students will be well versed wi	ith the conce	epts of ase	otic handling	g techniques,		
	maintenance and preservation of		•		<i>v</i> 1		
	microbial cultures and correlate						
	ecology. The student will also be	enlightened	about appl	ication in dif	fferent fields		
	related to Microbial Technology.	1 . 1					
	PSO3 Students will be able to design a						
	be able to design the experiment						
	biological assays using whole ce microorganisms using biochemica						
	PSO4 Students will be able to execut						
	techniques of basic and advance		U	•	÷		
		bioprocess engineering. The student will be skilled enough to be employed as microbiologist in fermentation industry, clinical laboratory, research and					
	development organization, food						
	studies in any field of Biological s	•					
	se Outcomes (COs) are available in indi	ividual sylla	bus files w	hich can be	accessed by		
	respective Course Name						
PS01CMIC21	Molecular Biology				✓		
PS01CMIC22	Bioinstrumentation				✓ ✓		
PS01CMIC23	Cell Biology				V		
DC01CMIC24	Practicals based on				\checkmark		
PS01CMIC24	PS01CMIC21 and PS01CMIC22 Practicals based on						
PS01CMIC25	PS01CMIC23 and PS01EMIC2X				,		
PS01EMIC21					\checkmark		
I DOILMIC21	Biochemistry						
PS01EMIC22	Biochemistry Biomolecules and Bioenergetics				✓ ✓ ✓		
PS01EMIC22	Biomolecules and Bioenergetics				✓ ✓		
PS01EMIC22 PS01EMIC23		✓	√	✓	✓		
	Biomolecules and Bioenergetics Phytoresource Utilization and Conservation Human Physiology	✓ ✓	✓	✓ ✓	✓ ✓		
PS01EMIC23	Biomolecules and BioenergeticsPhytoresource Utilization and ConservationHuman PhysiologyBioprocess and Biochemical	✓ ✓	✓	✓ ✓	✓ ✓ ✓ ✓		
PS01EMIC23 PS01EMIC24 PS02CMIC21	Biomolecules and BioenergeticsPhytoresource Utilization and ConservationHuman PhysiologyBioprocess and Biochemical Engineering	✓ ✓	✓	✓ ✓	✓ ✓ ✓ ✓ ✓		
PS01EMIC23 PS01EMIC24 PS02CMIC21 PS02CMIC22	Biomolecules and BioenergeticsPhytoresource Utilization and ConservationHuman PhysiologyBioprocess and Biochemical EngineeringMicrobial Genetics	✓ ✓	✓	✓ ✓	✓ ✓ ✓ ✓ ✓ ✓		
PS01EMIC23 PS01EMIC24 PS02CMIC21	Biomolecules and BioenergeticsPhytoresource Utilization and ConservationHuman PhysiologyBioprocess and Biochemical EngineeringMicrobial GeneticsFundamentals of Immunology	✓ ✓	✓	✓ ✓	✓ ✓ ✓ ✓ ✓		
PS01EMIC23 PS01EMIC24 PS02CMIC21 PS02CMIC22 PS02CMIC23	Biomolecules and BioenergeticsPhytoresource Utilization and ConservationHuman PhysiologyBioprocess and Biochemical EngineeringMicrobial GeneticsFundamentals of ImmunologyPracticals based on	✓ ✓ ✓	✓	✓ ✓	✓ ✓ ✓ ✓ ✓ ✓		
PS01EMIC23 PS01EMIC24 PS02CMIC21 PS02CMIC22	Biomolecules and BioenergeticsPhytoresource Utilization and ConservationHuman PhysiologyBioprocess and Biochemical EngineeringMicrobial GeneticsFundamentals of ImmunologyPracticals based on PS02CMIC21 and PS02CMIC22		✓ 	✓ ✓			
PS01EMIC23 PS01EMIC24 PS02CMIC21 PS02CMIC22 PS02CMIC23 PS02CMIC24	Biomolecules and BioenergeticsPhytoresource Utilization and ConservationHuman PhysiologyBioprocess and Biochemical EngineeringMicrobial GeneticsFundamentals of ImmunologyPracticals based on PS02CMIC21 and PS02CMIC22Practicals based on	✓ ✓	✓ 	✓ ✓			
PS01EMIC23 PS01EMIC24 PS02CMIC21 PS02CMIC22 PS02CMIC23 PS02CMIC24 PS02CMIC25	Biomolecules and BioenergeticsPhytoresource Utilization and ConservationHuman PhysiologyBioprocess and Biochemical EngineeringMicrobial GeneticsFundamentals of ImmunologyPracticals based on PS02CMIC21 and PS02CMIC22Practicals based on PS02CMIC23 and PS02EMIC2X		✓	✓ ✓	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		
PS01EMIC23 PS01EMIC24 PS02CMIC21 PS02CMIC22 PS02CMIC23 PS02CMIC24 PS02CMIC25 PS02EMIC21	Biomolecules and BioenergeticsPhytoresource Utilization and ConservationHuman PhysiologyBioprocess and Biochemical EngineeringMicrobial GeneticsFundamentals of ImmunologyPracticals based on PS02CMIC21 and PS02CMIC22Practicals based on PS02CMIC23 and PS02EMIC2XBiostatistics		✓ 				
PS01EMIC23 PS01EMIC24 PS02CMIC21 PS02CMIC22 PS02CMIC23 PS02CMIC24 PS02CMIC25 PS02EMIC21 PS02EMIC22	Biomolecules and BioenergeticsPhytoresource Utilization and ConservationHuman PhysiologyBioprocess and Biochemical EngineeringMicrobial GeneticsFundamentals of ImmunologyPracticals based on PS02CMIC21 and PS02CMIC22Practicals based on PS02CMIC23 and PS02EMIC2XBiostatisticsMedical Microbiology		✓ 				
PS01EMIC23 PS01EMIC24 PS02CMIC21 PS02CMIC22 PS02CMIC23 PS02CMIC24 PS02CMIC25 PS02EMIC21	Biomolecules and BioenergeticsPhytoresource Utilization and ConservationHuman PhysiologyBioprocess and Biochemical EngineeringMicrobial GeneticsFundamentals of ImmunologyPracticals based on PS02CMIC21 and PS02CMIC22Practicals based on PS02CMIC23 and PS02EMIC2XBiostatistics		✓ 				

PS03CMIC21	Microbial Biotechnology				\checkmark	
PS03CMIC22	Environmental Microbiology				\checkmark	
PS03CMIC23	Enzymology				\checkmark	
PS03CMIC24	Practical – I				✓	
PS03CMIC25	Practical – II				✓	
PS03EMIC21	Advanced Immunology				\checkmark	
PS03EMIC22	Bioinformatics				✓	
PS03EMIC23	Omics and Computational Biology				✓	
PS03EMIC24	Plant Biochemistry				✓	
PS04CMIC21	R-DNA Technology				✓	
PS04CMIC22	Environmental Biotechnology				✓	
PS04CMIC23	Practical – I				✓	
PS04EMIC21	Practical – II				✓	
PS04EMIC22	Dissertation		✓	√	✓	
PS04EMIC23	Microbial Physiology				✓	
PS04EMIC24	Food and Dairy Microbiology			√	✓	
PS04EMIC25	IPR and Biosafety			√	✓	
PS04EMIC26	Plant Biotechnology				✓	
Program	MSc (Zoology)					
POs PSOs	 MSc (Zoology) At the end of the program, the students will be able to: PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject. PO2 Understand laboratory processes and use scientific equipment and work independently. PO3 Develop research temperament as a consequence of their theory and practical learning. PO4 Communicate scientific information in oral and written form. PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development. PO6 The students are able to handle unexpected situations by critically analysing the problem. Upon successful completion of Masters of Science in Zoology students will be able to: PO1 Develop an understanding to associate theoretical concepts and practical skills of Zoological Sciences in day-to-day life PO2 Gain the expertise in operating laboratory instruments with their basic mechanisms and applications 					
Courses: Cours clicking on the I	 of Animal Sciences in teaching and research PO4 Correlate the impact of dynamics of ecology with evolution, embryology and development of specific behavior patterns in animals and humans PO5 Accomplish different specialized tasks devotedly suiting to the needs to wildlife conservation, industry, research laboratories and academic institutions rse Outcomes (COs) are available in individual syllabus files which can be accessed be 					
PS01CZOO21	Evolutionary Biology and Biodiversity	✓	 ✓ 	✓	✓	
PS01CZOO22	Bioinstrumentation				✓	
PS01CZOO23	Cell Biology			1	 ✓ 	
	Practicals based on			1	,	
PS01CZOO24	PS01CZOO21 and PS01CZOO22				~	
	Practicals based on					
PS01CZOO25	PS01CZOO23 and PS01EZOO2X				\checkmark	
<u>PS01EZOO21</u>	Biostatistics				✓	
		L	L		-	
PS02CZOO21	Developmental Biology			\checkmark	\checkmark	

					<u> </u>		
PS02CZOO22	Toxicology				✓		
PS02CZOO23	Fundamentals of Immunology				\checkmark		
	Practicals based on				✓		
PS02CZOO24	PS02CZOO21 and PS02CZOO22				, , , , , , , , , , , , , , , , , , ,		
	Practicals based on				✓		
PS02CZOO25	PS02CZOO23 and PS02EZOO2X				, , , , , , , , , , , , , , , , , , ,		
PS02EZOO21	Biological Chemistry				\checkmark		
PS03CZOO21	Human Physiology				\checkmark		
PS03CZOO22	Biology of Animal Behaviour				\checkmark		
PS03CZOO23	Aquaculture Technologies		\checkmark	\checkmark	\checkmark		
PS03CZOO24	Practical – I				\checkmark		
PS03CZOO25	Practical – II				\checkmark		
PS03EZOO21	Molecular Biology				\checkmark		
PS03EZOO22	Omics and Computational Biology			\checkmark	\checkmark		
PS04CZOO21	Animal Biotechnology				\checkmark		
PS04CZOO22	Molecular and Applied Endocrinology				\checkmark		
PS04CZOO23	Practical – I				\checkmark		
PS04EZOO21	Practical – II				\checkmark		
PS04EZOO22	Dissertation				\checkmark		
PS04EZOO23	Nutritional and Clinical Biochemistry				\checkmark		
PS04EZOO24	Microtechniques				\checkmark		
Program	MSc (Chemistry)						
POs	At the end of the program, the students w	ill be able	to:				
	PO1 Have a deep understanding of both	the theoretic	cal and pract	ical concep	ts in the		
	respective subject.						
	PO2 Understand laboratory processes and	d use scient	ific equipme	ent and worl	k		
	independently.						
	PO3 Develop research temperament as a	consequen	ce of their th	eory and pr	actical		
	learning.						
	PO4 Communicate scientific information						
	PO5 Understand the issues related to nati		ironmental c	ontexts and	l think		
	rationally for sustainable developme						
	PO6 The students are able to handle unex	spected situ	ations by cri	tically anal	ysing the		
DGO	problem.	. 11	1 1 6 1	1			
PSOs	PSO1 Demonstrate and apply the fundam	iental know	ledge of the	basic princ	iples in		
	various fields of Chemistry.						
		PSO2 Apply knowledge to build up small scale industry for developing endogenous					
	product.						
	Collaborate effectively on team-oriented projects in the field of chemistry or other related fields.						
	PSO3 Communicate scientific information in a clear and concise manner both orally and in						
	writing.						
	PSO4 Inculcate logical thinking to address a problem and become result oriented with a						
	positive attitude.						
Courses: Cours	e Outcomes (COs) are available in indiv	vidual svlle	abus files wi	hich can be	e accessed hv		
	respective Course Name	5jilt					
Strong on the	Electron spectroscopy and Magneto				,		
PS01CCHE21	chemistry				\checkmark		
PS01CCHE22	Organic Chemistry-I		+		✓		
PS01CCHE23	Topics in Physical Chemistry-I	-	1	+	✓ ·		
PS01CCHE24	Practicals		1	1	✓		
		+	+	<u> </u>	1		
PS01CCHE25	Practicals				\checkmark		

PS01ECHE21	Biophysical Chemistry-I		✓
PS01ECHE22	Polymer Chemistry-I		✓
PS02CCHE21	Quantum Chemistry		✓
PS02CCHE22	Organic Chemistry-II		\checkmark
PS02CCHE23	Topics in Physical Chemistry-II		\checkmark
PS02CCHE24	Practicals		\checkmark
PS02CCHE25	Practicals		✓
PS02ECHE21	Analytical Chemistry		✓
PS02ECHE22	Introduction to Biochemistry		✓
PS03CANC21	Spectroscopy - I		\checkmark
PS03CANC22	Elements of Analytical Chemistry		\checkmark
	Classical and Thermal of Methods of		
PS03CANC23	Analysis		\checkmark
PS03CANC24	Practicals		✓
PS03CANC25	Project Work		✓
PS03CANC26	Practicals		\checkmark
PS03CANC27	Project Work		 ✓
PS03EANC21	Separation Methods		· ·
<u>FSUSEAINC21</u>	Analytical techniques in Materials		•
DEO2E A NICOO	characterization		\checkmark
PS03EANC22			✓
PS03CINC21	Spectroscopy - I		•
DGOOGDIGOO	Nuclear Chemistry and Reaction		✓
PS03CINC22	Mechanism		✓
PS03CINC23	Organometallic Compounds		
PS03CINC24	Practicals		 ✓
PS03CINC25	Project Work		 ✓
PS03CINC26	Practicals		 ✓
PS03CINC27	Project Work		✓
	Applications of Inorganic Chemistry in		\checkmark
PS03EINC21	Industry		
	Selected Topics in Advanced Inorganic		\checkmark
PS03EINC22	Chemistry-I		
PS03CIPC21	Spectroscopy of Polymers		✓
	Manufacture Properties and		\checkmark
PS03CIPC22	Applications of Thermosets		·
PS03CIPC23	Polymer Structure & Properties		\checkmark
PS03CIPC24	Practicals		\checkmark
PS03CIPC25	Project Work		\checkmark
PS03CIPC26	Practicals		✓
PS03CIPC27	Project Work		✓
PS03EIPC21	Selected Topics in Polymers-I		✓
	Mechanical and Electrical Properties of		
PS03EIPC22	Polymers		~
PS03CORC21	Organic Spectroscopy		✓
PS03CORC22	Disconnection Approach		✓
PS03CORC23	Heterocyclic Chemistry		✓
PS03CORC24	Practicals		✓ ✓
PS03CORC25	Project Work		 ✓
PS03CORC26	Practicals		✓ ✓
PS03CORC27	Project Work		✓ ✓
		<u>├ </u>	◆ ✓
PS03EORC21	Selected Topics in Organic Chemistry		✓ ✓
PS03EORC22	Occupational Practices		✓ ✓
PS03CPHC21	Molecular Spectroscopic Methods for		v

	Structure Determination	
PS03CPHC22	Nuclear and Radiation Chemistry	✓
<u>F303CFRC22</u>	Selected Topics in Physical Chemistry	v
DS02CDUC22	– I	\checkmark
PS03CPHC23 PS03CPHC24	Practicals	✓
		<u> </u>
PS03CPHC25	Project Work Practicals	 ✓
PS03CPHC26		 ✓
PS03CPHC27	Project Work	 ✓
PS03EPHC21	Surface Chemistry and Catalysis	 ✓
PS03EPHC22	Advanced Characterization Techniques	
PS04CANC21	Spectroscopy - II	<u>√</u>
PS04CANC22	Electro-Analytical Methods	<u>√</u>
PS04CANC23	Analysis of Industrial Products	✓
PS04CANC24	Practicals	✓
PS04CANC25	Project Work	√
PS04CANC26	Practicals	<u>√</u>
PS04CANC27	Project Work	<u>√</u>
PS04EANC21	Environmental Chemistry and Analysis	✓
PS04EANC22	Analysis of Pharmaceutical drugs	✓
PS04CINC21	Spectroscopy II	\checkmark
	Solid State Chemistry and Supra	\checkmark
PS04CINC22	Molecular Chemistry	
PS04CINC23	Bioinorganic Chemistry	 ✓
PS04CINC24	Practical	 ✓
PS04CINC25	Project	 \checkmark
PS04CINC26	Practical	 ✓
PS04CINC27	Project	 ✓
	Selected Topics in Advanced Inorganic	\checkmark
PS04EINC21	Chemistry-II	 -
	Inorganic Polymers and Inorganic	\checkmark
PS04EINC22	Materials	
PS04CIPC21	Spectroscopy of Polymers-II	 \checkmark
	Manufacture Properties & Applications	\checkmark
PS04CIPC22	Of Thermoplastics	
PS04CIPC23	Processing of Polymers	 ✓
PS04CIPC24	Practical	 ✓
PS04CIPC25	Project Work	 ✓
PS04CIPC26	Practical	 ✓
PS04CIPC27	Project Work	 ✓
PS04EIPC21	Selected Topics in Polymers-II	\checkmark
	Preparation, Production and Testing of	\checkmark
PS04EIPC22	Polymers	-
PS04CORC21	Natural Products	✓
PS04CORC22	Medicinal Chemistry	✓
PS04CORC23	Stereochemistry of Organic Compounds	✓
PS04CORC24	Practical	✓
PS04CORC25	Project Work	✓
PS04CORC26	Practical	✓
PS04CORC27	Project Work	✓
PS04EORC21	Topics in Organic Chemistry	\checkmark
PS04EORC22	Applied Organic Chemistry	\checkmark
	Atomic Spectroscopy and Microscopic	✓
PS04CPHC21	Techniques	•

PS04CPHC22	Chemistry of Solid Materials				\checkmark		
PS04CPHC23	Electro-analytical Methods				\checkmark		
	Practicals: Polymer Synthesis by				\checkmark		
PS04CPHC24	Various Techniques				•		
PS04CPHC25	Project work				\checkmark		
PS04CPHC26	Practicals: Polymer Characterization				\checkmark		
PS04CPHC27	Project work				\checkmark		
PS04EPHC21	Photochemistry and Energy Systems				~		
	Advanced Characterization Techniques-				✓		
PS04EPHC22	II				•		
Program	MCA						
POs	At the end of the program, the students will						
	PO1 Have a deep understanding of both the	theoretic	al and pract	ical concep	ts in the		
	respective subject.						
	PO2 Understand laboratory processes and u	se scienti	fic equipme	nt and worl	ς.		
	independently.						
	PO3 Develop research temperament as a con	nsequenc	e of their the	eory and pr	actical		
	learning.						
	PO4 Communicate scientific information in						
	PO5 Understand the issues related to nature	and envi	ronmental c	ontexts and	think		
	rationally for sustainable development.						
	PO6 The students are able to handle unexpected situations by critically analysing the						
Dao	problem.	· .					
PSOs	PSO1 To prepare post-graduates for software industry, corporate sector, government						
	organizations and academics by providing skill-based education in the core and						
	emerging areas of computer applications.						
	PSO2 The programme emphasizes on giving the students a sound background in						
	theoretical and skill-oriented courses relevant to the latest trends in software development.						
Courses: Cours	se Outcomes (COs) are available in individu	ual cylla	hug filog wi	high gan he	accessed by		
	respective Course Name	uai sylla	ous mes wi		accessed by		
cheking on the	Fundamentals of Mathematics and			\checkmark			
PS01FMCA21	Accounting			-			
1 5011 1101 121					\checkmark		
	Computer Programming and Problem				✓		
PS01CMCA21	Computer Programming and Problem				✓ ✓		
PS01CMCA21 PS01CMCA22	Computer Programming and Problem Solving			✓	×		
PS01CMCA22	Computer Programming and ProblemSolvingLogical Organization of Computers			✓ ✓	✓ ✓		
PS01CMCA22 PS01CMCA23	Computer Programming and Problem SolvingLogical Organization of ComputersDatabase Management Systems- I			\checkmark	✓ ✓ ✓		
PS01CMCA22 PS01CMCA23 PS01CMCA24	Computer Programming and Problem SolvingLogical Organization of ComputersDatabase Management Systems- I Systems Analysis and Design				✓ ✓ ✓ ✓		
PS01CMCA22 PS01CMCA23 PS01CMCA24 PS01CMCA25	Computer Programming and Problem SolvingLogical Organization of ComputersDatabase Management Systems- I Systems Analysis and DesignPracticals			\checkmark	✓ ✓ ✓ ✓ ✓		
PS01CMCA22 PS01CMCA23 PS01CMCA24 PS01CMCA25 PS02FMCA21	Computer Programming and Problem SolvingLogical Organization of ComputersDatabase Management Systems- ISystems Analysis and DesignPracticalsStatistical and Optimization Techniques			✓ ✓	✓ ✓ ✓ ✓		
PS01CMCA22 PS01CMCA23 PS01CMCA24 PS01CMCA25	Computer Programming and Problem SolvingLogical Organization of ComputersDatabase Management Systems- ISystems Analysis and DesignPracticalsStatistical and Optimization TechniquesComputer Networks – I			✓ ✓	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		
PS01CMCA22 PS01CMCA23 PS01CMCA24 PS01CMCA25 PS02FMCA21 PS02CMCA21	Computer Programming and Problem SolvingLogical Organization of ComputersDatabase Management Systems- ISystems Analysis and DesignPracticalsStatistical and Optimization TechniquesComputer Networks – IData Structures and Advanced			✓ ✓	V V V V V V V V V V V		
PS01CMCA22 PS01CMCA23 PS01CMCA24 PS01CMCA25 PS02FMCA21 PS02CMCA22	Computer Programming and Problem SolvingLogical Organization of ComputersDatabase Management Systems- ISystems Analysis and DesignPracticalsStatistical and Optimization TechniquesComputer Networks – IData Structures and AdvancedProgramming Concepts			✓ ✓	V V V V V V V V V V V V V V V V V V		
PS01CMCA22 PS01CMCA23 PS01CMCA24 PS01CMCA25 PS02FMCA21 PS02CMCA21 PS02CMCA22 PS02CMCA23	Computer Programming and Problem SolvingLogical Organization of ComputersDatabase Management Systems- ISystems Analysis and DesignPracticalsStatistical and Optimization TechniquesComputer Networks – IData Structures and AdvancedProgramming ConceptsDatabase Management Systems – II			✓ ✓			
PS01CMCA22 PS01CMCA23 PS01CMCA24 PS01CMCA25 PS02FMCA21 PS02CMCA21 PS02CMCA22 PS02CMCA23 PS02CMCA24	Computer Programming and Problem SolvingLogical Organization of ComputersDatabase Management Systems- ISystems Analysis and DesignPracticalsStatistical and Optimization TechniquesComputer Networks – IData Structures and AdvancedProgramming ConceptsDatabase Management Systems – IIOperating System Principles			✓ ✓			
PS01CMCA22 PS01CMCA23 PS01CMCA24 PS01CMCA25 PS02FMCA21 PS02CMCA21 PS02CMCA22 PS02CMCA23	Computer Programming and Problem SolvingLogical Organization of ComputersDatabase Management Systems- ISystems Analysis and DesignPracticalsStatistical and Optimization TechniquesComputer Networks – IData Structures and AdvancedProgramming ConceptsDatabase Management Systems – IIOperating System PrinciplesPracticals			✓ ✓			
PS01CMCA22 PS01CMCA23 PS01CMCA24 PS01CMCA25 PS02FMCA21 PS02CMCA21 PS02CMCA22 PS02CMCA23 PS02CMCA23 PS02CMCA24 PS02CMCA25	Computer Programming and Problem SolvingLogical Organization of ComputersDatabase Management Systems- ISystems Analysis and DesignPracticalsStatistical and Optimization TechniquesComputer Networks – IData Structures and AdvancedProgramming ConceptsDatabase Management Systems – IIOperating System PrinciplesPracticals			✓ ✓			
PS01CMCA22 PS01CMCA23 PS01CMCA24 PS01CMCA25 PS02FMCA21 PS02CMCA21 PS02CMCA22 PS02CMCA23 PS02CMCA24 PS02CMCA25 PS02CMCA24 PS02CMCA25 PS02CMCA24 PS02CMCA24 PS02CMCA25	Computer Programming and Problem SolvingLogical Organization of ComputersDatabase Management Systems- ISystems Analysis and DesignPracticalsStatistical and Optimization TechniquesComputer Networks – IData Structures and AdvancedProgramming ConceptsDatabase Management Systems – IIOperating System PrinciplesPracticalsObject Oriented Programming Using Java			✓ ✓	V V		
PS01CMCA22 PS01CMCA23 PS01CMCA24 PS01CMCA25 PS02FMCA21 PS02CMCA21 PS02CMCA22 PS02CMCA23 PS02CMCA24 PS02CMCA25 PS02CMCA24 PS02CMCA25 PS02CMCA25 PS03CMCA21 PS03CMCA22	Computer Programming and Problem SolvingLogical Organization of ComputersDatabase Management Systems- ISystems Analysis and DesignPracticalsStatistical and Optimization TechniquesComputer Networks – IData Structures and AdvancedProgramming ConceptsDatabase Management Systems – IIOperating System PrinciplesPracticalsObject Oriented Programming Using JavaThe .NET Technology			✓ ✓	V V		
PS01CMCA22 PS01CMCA23 PS01CMCA24 PS01CMCA25 PS02FMCA21 PS02CMCA21 PS02CMCA22 PS02CMCA23 PS02CMCA24 PS02CMCA25 PS02CMCA24 PS02CMCA24 PS02CMCA25 PS03CMCA21 PS03CMCA22 PS03CMCA23 PS03CMCA23	Computer Programming and Problem SolvingLogical Organization of ComputersDatabase Management Systems- ISystems Analysis and DesignPracticalsStatistical and Optimization TechniquesComputer Networks – IData Structures and AdvancedProgramming ConceptsDatabase Management Systems – IIOperating System PrinciplesPracticalsObject Oriented Programming Using JavaJavaThe .NET TechnologyAnalysis and Design of Algorithms			✓ ✓	$ \begin{array}{c} $		
PS01CMCA22 PS01CMCA23 PS01CMCA24 PS01CMCA25 PS02FMCA21 PS02CMCA21 PS02CMCA22 PS02CMCA23 PS02CMCA23 PS02CMCA24 PS03CMCA21 PS03CMCA23 PS03CMCA23 PS03CMCA24	Computer Programming and Problem SolvingLogical Organization of ComputersDatabase Management Systems- ISystems Analysis and DesignPracticalsStatistical and Optimization TechniquesComputer Networks – IData Structures and AdvancedProgramming ConceptsDatabase Management Systems – IIOperating System PrinciplesPracticalsObject Oriented Programming Using JavaThe .NET TechnologyAnalysis and Design of AlgorithmsSystem Software			✓ ✓	$\begin{array}{c} \checkmark \\ \checkmark $		
PS01CMCA22 PS01CMCA23 PS01CMCA24 PS01CMCA25 PS02FMCA21 PS02CMCA21 PS02CMCA22 PS02CMCA23 PS02CMCA23 PS02CMCA24 PS02CMCA25 PS03CMCA21 PS03CMCA22 PS03CMCA23	Computer Programming and Problem SolvingLogical Organization of ComputersDatabase Management Systems- ISystems Analysis and DesignPracticalsStatistical and Optimization TechniquesComputer Networks – IData Structures and AdvancedProgramming ConceptsDatabase Management Systems – IIOperating System PrinciplesPracticalsObject Oriented Programming Using JavaJavaThe .NET TechnologyAnalysis and Design of Algorithms			✓ ✓			

PS04CMCA21	The Linux Operating System				✓		
PS04CMCA22	Compiler Design				✓		
PS04CMCA23	Software Engineering				✓		
	Web Application Development				\checkmark		
PS04CMCA24	Technology						
PS04CMCA25	Practicals				 ✓ 		
PS04EMCA21	Advanced Java Programming				✓		
	Application Development for the				\checkmark		
PS04EMCA22	Android Platform						
	Trends in Information and				✓		
PS05EMCA21	Communication Technology						
	Introduction to Data Science and Big				\checkmark		
PS05EMCA22	Data	-					
PS05EMCA23	Web Application Frameworks				\checkmark		
PS05CMCA21	Artificial Intelligence	-			v		
	Distributed Systems, Parallel				✓		
PS05CMCA22	Computing and Simulation				✓		
PS05CMCA23	Business Information Systems				▼ ✓		
PS05CMCA24	Computer Graphics				▼ ✓		
PS05CMCA25	Inhouse Project Work Project Work				✓ ✓		
PS06CMCA21					v		
Program POs	MSc (Information Technology) At the end of the program, the students v	vill be able	to				
108				notical or	property in the		
	PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject.						
	PO2 Understand laboratory processes	and u	se scientific	equipmen	ts and work		
	independently.						
	PO3 Develop research temperament a	s a conseq	uence of th	eir theory	and practical		
	learning.	-		•	•		
	PO4 Communicate scientific information	n in oral and	l written fori	n.			
	PO5 Understand the issues related to	nature and	a environme	ental contex	kts and think		
	rationally for sustainable developme						
	PO6 The students are able to handle une	xpected situ	ations by cri	itically anal	yzing the		
	problem.						
PSOs	PSO1 Post-graduates equipped with k	•	Ų	•			
	industry, corporate sector, govern						
	skill-based education in the core a						
	PSO2 The programme emphasizes or						
	theoretical and skill-oriented courses relevant to the latest trends in software						
Courses Course	development	يتنابيها ويباله	haa filaa aa	hich com h	a accord has		
	e Outcomes (COs) are available in indi	vidual sylla	abus mes wi	nich can de	e accessed by		
cheking on the	respective Course Name Introduction to Theoretical Computer						
PS01CINT21	Science				\checkmark		
r SUICINIZI	Advanced Programming Concepts &						
PS01CINT22	Data Structures				\checkmark		
PS01CINT22 PS01CINT23	RDBMS & Client Server Computing				\checkmark		
PS01CIN123 PS01CINT24					▼ ✓		
PS01CINT24 PS01CINT25	Operating System Concepts System Analysis and Design				✓ ✓		
PS01CIN125 PS01CINT26	Practicals				▼ ✓		
PS02EINT21	E-COMMERCE & M-COMMERCE			✓	✓ ✓		
<u>1 302EIN121</u>	Trends in Information &			*	· · ·		
PS02EINT22	Communication Technology (ICT)				\checkmark		
		1	1	1	1		

		1		1	· · · · · · · · · · · · · · · · · · ·	
PS02CINT21	Modern MIS Techniques				\checkmark	
PS02CINT22	Software Engineering				✓	
PS02CINT23	Visual Programming				✓	
PS02CINT24	Web Programming				✓	
PS02CINT25	Practicals				✓	
PS03EINT21	Artificial Intelligence				✓	
PS03EINT22	Data Mining & Data Warehousing				✓	
PS03EINT23	Multimedia and Computer Graphics				\checkmark	
	Mobile Application Development using				\checkmark	
PS03EINT24	Android and WinDev					
PS03CINT21	Java Programming				✓	
PS03CINT22	Data Communication and Networking				✓	
PS03CINT23	Information Security				✓	
	Distributed Application Development				✓	
PS03CINT24	Technology					
PS03CINT25	Practicals				✓	
PS04CINT21	Project Work				✓	
Program	PG Diploma in Computer Applications					
POs	At the end of the program, the students w					
	PO1 Have a deep understanding of both	n the theore	etical and pr	actical co	oncepts in the	
	respective subject.					
	PO2 Understand laboratory processe	s and us	e scientific	equipmen	t and work	
	independently.					
	PO3 Develop research temperament as	s a conseq	uence of th	eir theory	and practical	
	learning.					
	PO4 Communicate scientific information				. 1.1.1	
	PO5 Understand the issues related to		1 environme	ental contex	its and think	
	rationally for sustainable developmer		ations has an		unin a tha	
	PO6 The students are able to handle unex problem.	spected situ	auons by ch	lucarry anal	ysing the	
PSOs	The objective of the PGDCA programme	is to prop	ro students	for a caroor	in IT support	
1505	as well as software development by tra					
	computer applications to satisfy the need					
	and government.		ciety, mausi	iry, academ	ie institutions	
PS01CDCA21	PC Software				✓	
PS01CDCA22	C and Data Structure				\checkmark	
PS01CDCA23	Logical Organization of Computer				\checkmark	
PS01CDCA24	Network Fundamentals				\checkmark	
PS01CDCA25	System Analysis and Design				\checkmark	
	Practicals based on PS01CDCA21 to					
PS01CDCA26	PS01CDCA25				\checkmark	
PS02CDCA21	Operating Systems				✓	
PS02CDCA22	Database Management Systems				✓	
PS02CDCA23	Object Technology				✓	
PS02CDCA24	Visual Programming				✓	
PS02CDCA25	Internet and Web Designing				✓	
	Practicals based on PS02CDCA21 to					
PS02CDCA26	PS02CDCA25				\checkmark	
Program	MSc (Electronics)		I			
POs	At the end of the program, the students w	vill be able	to			
	PO1 Have a deep understanding of both			ractical co	oncepts in the	
			· r-		.	
	respective subject.					
	respective subject. PO2 Understand laboratory processe	s and us	e scientific	equipmen	t and work	

	independently.					
	PO3 Develop research temperament as	PO3 Develop research temperament as a consequence of their theory and practical				
	learning.					
	PO4 Communicate scientific information					
	PO5 Understand the issues related to		ental contexts and think			
	rationally for sustainable development					
	PO6 The students are able to handle un problem.	nexpected situations by	r critically analyzing the			
PSOs	PO1 The course begins with the foundation	on concepts of core elec	ctronics allied fields			
	PO2 The curriculum is designed to trai	n the students in basic	c and advanced areas of			
	Electronics by Keeping in mind the l					
	PO3 The purpose of this course is to in					
	cater to the requirements of the R &					
	PO4 This M.Sc. Program enables student					
	are encouraged to deliver seminars o	n a wide range of topic	s covering the different			
	areas of Electronics.					
	se Outcomes (COs) are available in indiv	idual syllabus files wl	hich can be accessed by			
	respective Course Name Semiconductor Science and Devices		✓			
PS01CELE21			v			
PS01CELE22	Applications of ICs And Fuzzy Electronics		\checkmark			
I SOICELEZZ	Microprocessor & Microcontroller					
PS01CELE23	Systems		\checkmark			
PS01EELE21	Analytical and Bio Medical Instruments		✓			
PS01EELE22	Network Analysis		· · · · · · · · · · · · · · · · · · ·			
PS01CELE22	Practical		↓ ↓ ↓			
PS01CELE24 PS01CELE25			✓ ✓			
	Project Work		✓ ✓			
PS02CELE21	Electromagnetism and Antenna Theory		✓ ✓ ✓			
PS02CELE22	Microprocessor and Real Time Systems		✓ ✓ ✓			
PS02CELE23	Programming in C / C++		✓ ✓ ✓			
PS02EELE21	Industrial Electronics		v			
DROOFEL EOO	Advanced Electronic Science & Devices		✓			
PS02EELE22			✓ ✓			
PS02CELE24	Practical Project Work		✓ ✓			
PS02CELE25	Project Work Principles of Control Systems		↓ ↓ ↓			
PS03CELE21	Digital & Microwave Communication		•			
PS03CELE22	Systems		\checkmark			
PS03CELE22 PS03CELE23	Computer Hardware and Networking		\checkmark			
PS03EELE21	Thin Film Technology		· · · · · · · · · · · · · · · · · · ·			
PS03EELE22	Digital Signal Processing		· · · · · · · · · · · · · · · · · · ·			
FSUJELE22	ARM Programming & Embedded		•			
PSO3ELE23	Communication Protocols		✓			
PS03CELE24	Practical		✓ ✓			
PS03CELE24 PS03CELE25	Project Work		✓ ✓			
PS04CELE23	IC Fabrication Technology		✓ ✓			
PS04CELE22	Fibre Optics & its Application		✓ ✓			
PS04CELE22 PS04CELE23	Sensor Technology		✓ ✓ ✓			
PS04EELE25 PS04EELE21	Design Of VLSI Systems		✓ ✓ ✓			
	Computer Based Industrial Control		✓ ✓ ✓			
PS04EELE22			✓ ✓ ✓			
PS04EELE23	Principles Of Nanoelectronics		• • • • • • • • • • • • • • • • • • •			
DCOAELEL 24	Advanced Digital Systems Design With HDL		✓			
PS04ELEL24						

DC04ELEL 25	CMOS Technology & VI SI Decign				✓
PS04ELEL25	CMOS Technology & VLSI Design Practical				
PS04CELE24					\checkmark
PS04CELE25	Project Work				v
Program PO	MSc (Materials Science)	·11.1 1.1			
POs	At the end of the program, the students w			· 1	
	PO1 Have a deep understanding of both	the theore	etical and pr	actical co	oncepts in the
	respective subject.	1		•	(
	PO2 Understand laboratory processes	and us	se scientific	equipmen	its and work
	independently.	0.000000	uance of th	air thaorr	and practical
	PO3 Develop research temperament as learning.	a conseq	uence of the	en meory	and practical
	PO4 Communicate scientific information	in oral and	l written forr	n	
	PO5 Understand the issues related to				xts and think
	rationally for sustainable development				xts and think
	PO6 The students are able to handle unex		ations by cri	tically anal	vzing the
	problem.	peeted site		tiouity unu	j zing the
PSOs	PSO1 Strengthening knowledge on the fu	Indamental	aspects of m	naterials sci	ence
	PSO2 Acquire knowledge on the properti				
	PSO3 Get acquainted with different ex				used for the
	characterization of materials				
	PSO4 the area of applications where diffe	erent tailor	made materi	als can be i	ised.
Courses: Cours	e Outcomes (COs) are available in indiv	idual sylla	bus files wh	nich can be	e accessed by
	respective Course Name	v			·
PS01CMTS21	Basic Concepts in Materials Science			✓	✓
PS01CMTS22	Interfacial Aspects of Materials Science			✓	✓
PS01CMTS23	Thin Film Materials			✓	✓
PS01CMTS24	Polymer Science			✓	✓
PS01CMTS25	Practicals I			✓	✓
PS01CMTS26	Practicals II			✓	✓
	Semiconducting and Superconducting			~	✓
PS02CMTS21	Materials			×	v
PS02CMTS22	Spectroscopy			✓	✓
	Microstructure Control and Metallic			✓	
PS02CMTS23	Processing			×	v
PS02CMTS24	Practicals I			✓	✓
PS02CMTS25	Practicals II			✓	✓
	Defect Structures and properties of			~	~
PS02EMTS21	Materials			v	v
PS02EMTS22	Solar Energy			\checkmark	✓
PS03CMTS21	Glass, Ceramic and Carbon Materials			\checkmark	✓
PS03CMTS22	Fibers, Plastics and Elastomers			\checkmark	\checkmark
PS03CMTS23	Modern Characterization Techniques			\checkmark	\checkmark
PS03EMTS21	Composite Materials			\checkmark	✓
PS03EMTS22	Testing Methods for films and rubbers			\checkmark	✓
PS03CMTS24	Practicals I			\checkmark	\checkmark
PS03CMTS25	Practicals II			\checkmark	✓
PS04CMTS21	Engineering Polymers			✓	✓
	Selected Topics in Nanoscience and			~	✓
PS04CMTS22	Nanotechnology			v	v
	Optical, Magnetic and Dielectric			✓	✓
PS04CMTS23	Properties of Materials			v	v v
PS04EMTS21	Materials and Environment			✓	✓
PS04EMTS22	Ceramic Technology			✓	\checkmark

	PROJECT WORK			✓	✓	
PS04CMTS24	PROJECT WORK			v	v	
Program	MSc (Nano Science & Nano Technolog					
POs	At the end of the program, the students w					
	PO1 Have a deep understanding of both	the theore	etical and pr	ractical co	oncepts in the	
	respective subject.					
	PO2 Understand laboratory processes	and us	se scientific	equipmen	ts and work	
	independently.					
	PO3 Develop research temperament as a consequence of their theory and					
	learning.					
	PO4 Communicate scientific information					
	PO5 Understand the issues related to		environme	ntal contex	ts and think	
	rationally for sustainable developmen			(¹ 11 1		
	PO6 The students are able to handle unex	pected situ	ations by cri	tically anal	ysing the	
DCO	problem.	1			1	
PSOs	PSO1 Strengthen knowledge on the funda nanoscience	amental asp	bects of mate	srials scienc	e and	
		as of differ	ont types of	nonomotori	a 1a	
	PSO2 Acquire knowledge on the properti PSO3 Get acquainted with different exp					
	characterization of nanomaterials	permentai	and technic	ai methous	useu foi tile	
	PSO4 Acquaintance with the areas	of applies	tions wher	e different	tailor-made	
	nanomaterials can be used.	or applied	utons when	e unicient	tanoi-made	
Courses Cours	e Outcomes (COs) are available in indiv	idual svlla	hus files wi	nich can be	accessed by	
	respective Course Name	iuuai syna	ibus mes wi		accessed by	
PS01CNST21	Fundamental Materials Science			✓	✓	
PS01CNST22	Interfaces and Adhesion in Materials			✓	✓	
	Basic aspects of Vacuum Technology					
PS01CNST23	and Thin films			\checkmark	\checkmark	
PS01CNST24	Basic Concepts in Polymer Science			✓	✓	
PS01CNST25	Practicals I			✓	✓	
PS01CNST26	Practicals II			✓	✓	
PS02CNST21	Electrical Properties of Nano materials			✓	✓	
PS02CNST22	Spectroscopy			✓	✓	
PS02CNST23	Nanostructures and Metallic Materials			✓	✓	
PS02CNST24	Practicals I			✓	✓	
PS02CNST25	Practicals II			✓	✓	
PS02ENST21	Selected topics in Nano-Materials			✓	✓	
	Engineering Polymers and				,	
PS02ENST22	Nanocomposites			✓	\checkmark	
	GLASS CERAMICS AND				1	
PS03CNST21	NANOSTRUCTURED MATERIALS			~	\checkmark	
PS03CNST22	Special Purpose Polymers			✓	✓	
PS03CNST23	Modern Characterisation Techniques			✓	✓	
PS03ENST21	Nanomaterials and Environment			✓	✓	
PS03ENST22	Composite Materials			✓	✓	
PS03CNST24	Practicals I			✓	✓	
PS03CNST25	Practicals II			✓	✓	
PS04CNST21	PROJECT WORK			✓	✓	
Program	MSc (Mathematics)					
POs	PO1 Have a deep understanding of both t	he theoretic	cal and pract	ical concep	ts in the	
	respective subject.					
	PO2 Understand laboratory processes	s and use	e scientific	equipmen	t and work	
	independently.					
PO3 Develop research temperament as a consequence of their theory and practical					actical	

	learning.				
	PO4 Communicate scientific informatio				
	PO5 Understand the issues related to		nental contexts and think		
	rationally for sustainable developme				
	PO6 The students are able to handle une	xpected situations by c	ritically analysing the		
	problem.				
PSOs	PSO1 Understand the basic concepts				
	optimization, differential equations		as an abstract phenomenon		
	and also some real- world problem				
	PSO2 Analyse and solve the well-defin				
	enquiry, thinking analytically, c	learly and critically,	while solving variety of		
	problems.				
	PSO3 Compete the world through their				
	developed and built through semin				
	PSO4 Handle the advanced technique				
	optimization, differential equation	is to analyse and desi	gn algorithms for solving		
	variety of problems	locuithma calest and a	naly oppropriate methods		
	PSO5 Learn and prepare mathematical a				
	resources and computing tools suc				
	PSO6 Communicate effectively about their peers and society at large.	nen maulematicai adili	ues on me activities, with		
	PSO7 Select, interpret and critically ev	aluate information fro	m a range of sources that		
			in a range of sources that		
	include books, scientific reports, journals, etc. PSO8 Apply the knowledge of Mathematics in all the fields of learning including higher				
	research and extensions. Recogniz				
	continuous education, and research				
Courses: Course	e Outcomes (COs) are available in indi				
	respective Course Name	vidual synabus mes v	inen eun se decessed sy		
PS01CMTH21	Complex Analysis I		✓		
PS01CMTH22	Topology I		✓		
PS01CMTH23	Functions of Several Real Variables		✓		
PS01CMTH24	Linear Algebra		✓		
PS01CMTH25	Methods of Differential Equations		✓		
PS01EMTH21	Graph Theory I		✓		
PS01EMTH22	Mathematical Classical Mechanics		✓		
PS01EMTH23	Number Theory		✓		
	C Programming and Mathematical				
PS01EMTH24	Algorithms I		✓		
PS02CMTH21	Real Analysis I		✓		
PS02CMTH22	Algebra I		✓ ✓		
PS02CMTH22 PS02CMTH23					
	Algebra I		√		
PS02CMTH23	Algebra I Differential Geometry				
PS02CMTH23 PS02CMTH24	Algebra I Differential Geometry Functional Analysis I		✓ ✓ ✓		
PS02CMTH23 PS02CMTH24 PS02CMTH25	Algebra I Differential Geometry Functional Analysis I Methods of Partial Differential Equations				
PS02CMTH23 PS02CMTH24 PS02CMTH25 PS02EMTH21	Algebra I Differential Geometry Functional Analysis I Methods of Partial Differential				
PS02CMTH23 PS02CMTH24 PS02CMTH25	Algebra I Differential Geometry Functional Analysis I Methods of Partial Differential Equations Graph Theory I				
PS02CMTH23 PS02CMTH24 PS02CMTH25 PS02EMTH21 PS02EMTH22	Algebra I Differential Geometry Functional Analysis I Methods of Partial Differential Equations Graph Theory I Mathematical Classical Mechanics Number Theory				
PS02CMTH23 PS02CMTH24 PS02CMTH25 PS02EMTH21 PS02EMTH22	Algebra I Differential Geometry Functional Analysis I Methods of Partial Differential Equations Graph Theory I Mathematical Classical Mechanics				
PS02CMTH23PS02CMTH24PS02CMTH25PS02EMTH21PS02EMTH22PS02EMTH23PS02EMTH24	Algebra I Differential Geometry Functional Analysis I Methods of Partial Differential Equations Graph Theory I Mathematical Classical Mechanics Number Theory C Programming and Mathematical Algorithms I				
PS02CMTH23PS02CMTH24PS02CMTH25PS02EMTH21PS02EMTH22PS02EMTH23PS02EMTH24PS03CMTH21	Algebra I Differential Geometry Functional Analysis I Methods of Partial Differential Equations Graph Theory I Mathematical Classical Mechanics Number Theory C Programming and Mathematical				
PS02CMTH23PS02CMTH24PS02CMTH25PS02EMTH21PS02EMTH22PS02EMTH23PS02EMTH24PS03CMTH21PS03CMTH22	Algebra I Differential Geometry Functional Analysis I Methods of Partial Differential Equations Graph Theory I Mathematical Classical Mechanics Number Theory C Programming and Mathematical Algorithms I Real Analysis II Mathematical Methods I				
PS02CMTH23PS02CMTH24PS02CMTH25PS02EMTH21PS02EMTH22PS02EMTH23PS02EMTH24PS03CMTH21	Algebra I Differential Geometry Functional Analysis I Methods of Partial Differential Equations Graph Theory I Mathematical Classical Mechanics Number Theory C Programming and Mathematical Algorithms I Real Analysis II				

		· · · · · ·		0	
PS03EMTH23	Financial Mathematics I				✓
PS03EMTH24	Graph Theory I				✓
PS03EMTH25	Graph Theory II				✓
PS03EMTH26	Group Theory				✓
PS03EMTH27	Mathematical Probability Theory				✓
PS03EMTH28	Number Theory and Cryptography				✓
PS03EMTH29	Operations Research				✓
DS02EMTU20	Problems and Exercises in Mathematics				~
PS03EMTH30 PS03EMTH31	I Relativity I				✓
PS03EMTH31	Topology II				✓ ✓
PS04CMTH21	Complex Analysis II	-			✓ ✓
	Mathematical Methods II				✓ ✓
PS04CMTH22					✓ ✓
PS04EMTH21	Banach Algebras				✓ ✓
PS04EMTH22	Computer Programming and Software Financial Mathematics I				✓ ✓
PS04EMTH23					✓ ✓
PS04EMTH24	Financial Mathematics II				
PS04EMTH25	Graph Theory I				✓ ✓
PS04EMTH26	Graph Theory II				√
PS04EMTH27	Group Theory				 ✓
PS04EMTH28	Mathematical Probability Theory				✓
PS04EMTH29	Number Theory and Cryptography				 ✓
PS04EMTH30	Operations Research				 ✓
PS04EMTH31	Operator Theory				✓
	Problems & Exercises in Mathematics				\checkmark
PS04EMTH32	II				
PS04EMTH33	Relativity I				✓
PS04EMTH34	Relativity II				✓
PS04EMTH35	Topology II				✓
Program	MSc (Physics)				
POs	 At the end of the program, the students will be able to PO1 Have a deep understanding of both the theoretical and practical concepts in the respective subject. PO2 Understand laboratory processes and use scientific equipment and work independently. PO3 Develop research temperament as a consequence of their theory and practical 				
	learning.				
	PO4 Communicate scientific information				1-1-1 أسعدهم
	PO5 Understand the issues related to rationally for sustainable developme.		environine	mar comes	AIS ANU UNINK
	PO6 The students are able to handle unex		otions by cri	tically anal	wing the
	problem.	specieu situa	utons by ch	ically alla	yzing the
PSOs	PO1 An in-depth Understanding of the fu	indamental (concents and	1 principles	of Physics
1005	that enable them to apply in R & D I		concepts and	a principies	01 1 1195105
	PO2 Analytical and logical skills towards	0	ning.		
	PO3 Practical knowledge in Experimenta			of data colle	ection.
	PO4 Ability to analyze and interpret both				
				u	
	PO5 Confidence to take up scientific challenges.				
		ethical and o	scientific pro	oblems rela	ted to own
	PO6 Capability for reflecting on central,	ethical and s	scientific pro	oblems rela	ted to own
	PO6 Capability for reflecting on central, work.		_	oblems rela	ted to own
Courses: Cours	PO6 Capability for reflecting on central, work.PO7 A scientific curiosity and respect for	scientific v	values		
	PO6 Capability for reflecting on central, work.	scientific v	values		

PS01CPHY21	Mathematical Physics	\checkmark
	Atomic & Molecular spectroscopy and	\checkmark
PS01CPHY22	Statistical Mechanics	,
PS01CPHY23	Analog and Digital Electronics	✓
PS01CPHY24	Practical-I	 ✓
PS01CPHY25	Practical-II	 \checkmark
	Elements of Solid State Physics and	\checkmark
<u>PS01EPHY21</u>	Error Analysis	•
	Non-Linear Dynamics, Relativity &	\checkmark
PS01EPHY22	Cosmology	•
PS02CPHY21	Classical And Quantum Mechanics	\checkmark
PS02CPHY22	Theoretical Condensed Matter Physics	\checkmark
PS02CPHY23	Electrodynamics	✓
PS02CPHY24	Practical-I	✓
PS02CPHY25	Practical-II	\checkmark
PS02EPHY21	Elements of Experimental Physics	\checkmark
	Solid State Electronics Devices & Solar	/
PS02EPHY22	Cells	\checkmark
PS03CPHY21	Advanced Quantum Mechanics	✓
PS03CPHY22	Nanoscience and Thin-Film Physics	✓
PS03EPHY21	Crystallography and Materials Science	✓
<u>1000L111121</u>	Magnetic and Optical Properties of	
PS03EPHY22	Condensed Matter	\checkmark
10050111122	Microwave Communication:	
PS03EPHY23	Electronics and Technology	\checkmark
<u>1005L111125</u>	Microprocessors: Programming,	
PS03EPHY24	Interfacing and Applications	\checkmark
PS03EPHY25	Theoretical Physics – I	✓
PS03EPHY26	Computational Physics – I	 ✓
PS03EPHY27	Solar Energy & Geothermal Energy	<u> </u>
PS03EPHY28	Wind Energy & Ocean Energy	<u> </u>
PS03EPHY29	Practical – I	 ✓
	Practical – I	 ✓
PS03EPHY30		 • •
PS03EPHY31	Practical – I	 ✓
PS03EPHY32	Practical – II	 -
PS03EPHY33	Practical – I	 <u> </u>
PS03EPHY34	Practical – II	 <u> </u>
PS03EPHY35	Practical – I	<u>√</u>
PS03EPHY36	Practical – II	 ✓
PS04CPHY21	Nuclear & Particle Physics	\checkmark
	Advanced Experimental &	\checkmark
PS04CPHY22	Characterization Techniques	
	Applied Crystallography and Bio –	\checkmark
PS04EPHY21	Physics	-
	Crystal Growth and Imperfections in	\checkmark
PS04EPHY22	Solids	-
	Signal Processing and Satellite	\checkmark
<u>PS04EPHY23</u>	Communication	•
	Advanced Solid State Electronic	✓
<u>PS04EPHY24</u>	Devices	·
PS04EPHY25	Theoretical Physics – II	\checkmark
PS04EPHY26	Computational Physics – II	\checkmark
PS04EPHY27	Bio – Mass & Other System, Energy	✓

	Storage					
PS04EPHY28	Nuclear Energy & Energy Strategies				✓	
PS04EPHY29	Practical – I				✓	
PS04EPHY30	Practical – II				✓	
PS04EPHY31	Practical – I				✓	
PS04EPHY32	Practical – II				\checkmark	
PS04EPHY33	Practical – I				\checkmark	
PS04EPHY34	Practical – II				✓ ✓	
PS04EPHY35	Practical – I				✓ √	
PS04EPHY36	Practical – II				· · ·	
Program	MSc (Statistics)				-	
POs	At the end of the program, the students	vill be able	to			
	PO1 Have a deep understanding of both respective subject.PO2 Understand laboratory processes ar independently.	the theoretic	cal and pract	ent and wor	k	
	 PO3 Develop research temperament as a consequence of their theory and practical learning. PO4 Communicate scientific information in oral and written form. PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development. PO6 The students are able to handle unexpected situations by critically analyzing the 					
DCO ₂	problem.					
PSOs	e Outcomes (COs) are available in indi	يتنابيها وبياله	h	hich com h	a a a a a a a a d h ar	
	respective Course Name	vidual sylla	ibus mes wi	inch can be	e accesseu by	
PS01CSTA21	Probability Theory				✓	
PS01CSTA22	Matrix Algebra				✓ ✓	
PS01CSTA23	Distribution Theory				· · · · · · · · · · · · · · · · · · ·	
PS01CSTA24	Statistical Inference I				· · · · · · · · · · · · · · · · · · ·	
PS01CSTA25	Practicals				· · · · · · · · · · · · · · · · · · ·	
PS01ESTA25					✓ ✓	
	Statistical Computing through C++				✓ ✓	
PS01ESTA22	Statistical Computing through R				✓ ✓	
PS02CSTA21	Stochastic Processes				v	
	Linear Models and Regression				\checkmark	
PS02CSTA22	Analysis.					
PS02CSTA23	Statistical Inference II				 ✓ 	
PS02CSTA24	Theory of Sample Surveys				✓	
PS02CSTA25	Practicals				 ✓ 	
D0000004.01			1		\checkmark	
PS02ESTA21	Official Statistics					
PS02ESTA22	Operations Research				✓	
PS02ESTA22 PS03CSTA21	Operations Research Deign of Experiments				✓ ✓	
PS02ESTA22 PS03CSTA21 PS03CSTA22	Operations Research Deign of Experiments Multivariate Analysis				✓ ✓ ✓	
PS02ESTA22 PS03CSTA21	Operations Research Deign of Experiments Multivariate Analysis Practicals				✓ ✓ ✓ ✓	
PS02ESTA22 PS03CSTA21 PS03CSTA22	Operations Research Deign of Experiments Multivariate Analysis Practicals Practicals.				✓ ✓ ✓ ✓ ✓	
PS02ESTA22 PS03CSTA21 PS03CSTA22 PS03CSTA23	Operations Research Deign of Experiments Multivariate Analysis Practicals Practicals. Reliability and Life Testing				✓ ✓ ✓ ✓	
PS02ESTA22PS03CSTA21PS03CSTA22PS03CSTA23PS03CSTA24	Operations Research Deign of Experiments Multivariate Analysis Practicals Practicals.					
PS02ESTA22 PS03CSTA21 PS03CSTA22 PS03CSTA23 PS03CSTA24 PS03ESTA21	Operations Research Deign of Experiments Multivariate Analysis Practicals Practicals. Reliability and Life Testing				✓ ✓ ✓ ✓ ✓ ✓	
PS02ESTA22 PS03CSTA21 PS03CSTA22 PS03CSTA23 PS03CSTA24 PS03ESTA21 PS03ESTA22	Operations Research Deign of Experiments Multivariate Analysis Practicals Practicals. Reliability and Life Testing Generalized Linear Models				✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	
PS02ESTA22 PS03CSTA21 PS03CSTA22 PS03CSTA23 PS03CSTA24 PS03ESTA21 PS03ESTA22 PS03ESTA22 PS03ESTA22	Operations Research Deign of Experiments Multivariate Analysis Practicals Practicals. Reliability and Life Testing Generalized Linear Models Computer Oriented Statistical Methods					
PS02ESTA22 PS03CSTA21 PS03CSTA22 PS03CSTA23 PS03CSTA24 PS03ESTA21 PS03ESTA22 PS04CSTA21 PS04CSTA22 PS04CSTA23	Operations Research Deign of Experiments Multivariate Analysis Practicals Practicals. Reliability and Life Testing Generalized Linear Models Computer Oriented Statistical Methods Statistical Quality Control Techniques Practicals					
PS02ESTA22 PS03CSTA21 PS03CSTA22 PS03CSTA23 PS03CSTA24 PS03ESTA21 PS03ESTA22 PS03ESTA21 PS03ESTA22 PS04CSTA21 PS04CSTA22	Operations Research Deign of Experiments Multivariate Analysis Practicals Practicals. Reliability and Life Testing Generalized Linear Models Computer Oriented Statistical Methods Statistical Quality Control Techniques				✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	

PS04ESTA23	Bioassays	<u> </u>			<u> </u>
	Bioassays Clinical Trials	+			• •
PS04ESTA24					•
Program POs	MSc (Applied Statistics) At the end of the program, the students w	vill be able +	0		
POs	PO1 Have a deep understanding of both			ical conce	nts in the
	respective subject.	ine meorenc	ai and pract	Ical conce	pts in the
	PO2 Understand laboratory processes and	d use scienti	fic equipme	ent and worl	c.
	independently.	a use scienti	ne equipine		x
	PO3 Develop research temperament as a	consequenc	e of their th	eory and pr	actical
	learning.	1			
	PO4 Communicate scientific information	in oral and	written form	n.	
	PO5 Understand the issues related to national				think
	rationally for sustainable developm	ient.			
	PO6 The students are able to handle unex	cpected situa	ations by cri	tically anal	yzing the
	problem.				
PSOs					
	e Outcomes (COs) are available in indiv	vidual sylla	bus files wl	hich can be	e accessed by
clicking on the	respective Course Name			1	1
	Statistical Distributions and their				\checkmark
PS01CAST21	applications	╡────┤			
PS01CAST22	Marketing Research.				✓
PS01CAST23	Operations Research-I	<u> </u>			√
PS01CAST24	Data Base Management Systems	<u> </u>			√
PS01CAST25	Practical -I				✓
PS01EAST21	Statistical Computing through C++				✓ ✓
PS01EAST22	Statistical Computing through R				✓
DCOOCA CTO1	Parametric Inference and				\checkmark
PS02CAST21	Nonparametric Inference				
PS02CAST22	Linear Models and Regression Analysis.				\checkmark
<u>F 502CA5122</u>	Statistical Quality Control and	+			
PS02CAST23	Reliability				\checkmark
PS02CAST24	Statistical Methods through SPSS				✓
PS02CAST25	Practicals (Based on Minitab)				· ·
PS02EAST21	Lean Six Sigma Methodology				✓ ×
PS02EAST22	Official Statistics	1 1			\checkmark
PS03CAST21	Knowledge Discovery and Data Mining				\checkmark
PS03CAST22	Operations Research II				✓
PS03CAST23	Practicals	1		1	✓
PS03CAST24	Practicals	1		1	✓
	Planning and Analysis of Industrial				1
PS03EAST21	Experiments				\checkmark
PS03EAST22	Generalized Linear Models				\checkmark
PS03EAST23	Survival Analysis				✓
PS04CAST21	Computer Oriented Statistical Methods				\checkmark
PS04CAST22	Practicals				\checkmark
PS04CAST23	Project				✓
PS04EAST21	Clinical Trials				\checkmark
PS04EAST22	Econometrics				✓
Program	MSc (Quality and Productivity Manag				
POs	PO1 Have a deep understanding of both	the theoretic	al and pract	ical concep	ts in the
	respective subject.				
	PO2 Understand laboratory processes and	d use scienti	fic equipme	ent and worl	ĸ

independently. PO3 Develop research temperament as a consequence of their theory and practical learning. PO4 Develop research temperament as a consequence of their theory and practical learning. PO4 Communicate scientific information in oral and written form. PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development. PO6 The students are able to handle unexpected situations by critically analyzing the problem. PSOs Ecurses: Course Outcomes (COs) are available in individual sylabus files which can be accessed by clicking on the respective Course Name PSOICOPM21 Systems ✓ PSOICOPM22 Data Base Management Systems ✓ PSOICOPM23 Marketing Research ✓ PSOICOPM24 Marketing Research ✓ PSOICOPM25 Operations Research -1 ✓ PSOICOPM26 Operations Research -1 ✓ PSOICOPM20 Particial based on QP 101 to 105 ✓ PSO2COPM21 Reliability ✓ PSO2COPM22 Lean Six Signa Methodology ✓ PSO2COPM23 Quality Management Systems ✓ PS03COPM24 Practical Based on QP 303 ✓ PS03COPM24 Design							
learning. PO4 Communicate scientific information in oral and written form. PO5 Understand the issues related to nature and environmental contexts and think rationally for sustainable development. PO6 The students are able to handle unexpected situations by critically analyzing the problem. PSOs Eourses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name PSOI COPM21 Systems Image: Course (COs) are available in individual syllabus files which can be accessed by clicking on the respective Course Name PSOI COPM22 Data Base Management Systems Image: Course (COs) are available in individual syllabus files which can be accessed by clicking Outcomes (COs) are available in individual syllabus files which can be accessed by clicking Outcomes (COS) are available in individual syllabus files which can be accessed by clicking Outcomes (COS) are available in individual syllabus files which can be accessed by clicking Research in the course of the clicking Research in the systems PSOI COPM23 Marketing Research in the clicking Research in the clicking Research in the systems PSO2COPM22 Lean Six Sigma Methodology Image: Course Systems PSO3COPM22 Lean Six Sigma Methodology Image: Course Systems PS03COPM24 Menda Methods through SPSS Image: Course Systems PS03COPM24 Practical Based on Minitab Image: Course Systems PS03COPM24 Foratical Based		independently.					
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laboratories that deal with diagnosis, prevention and control of infectious and communication diseases, food testing laboratories, appear for CSIR-UGC NET (JRF&	r5U5			-		•	
communication diseases, food testing laboratories, appear for CSIR-UGC NET (JRF&		-		-		•	
		laboratories that deal with diagnosis,	preventio	n and cor	ntrol of in	fectious and	
Lectureship) and industries based on pharmaceutical and biotechnology.		communication diseases, food testing lab	boratories,	appear for	CSIR-UGC	NET (JRF&	
		Lectureship) and industries based on phar	maceutical	and biotech	nology.		
Courses: Course Outcomes (COs) are available in individual syllabus files which can be accessed by	Courses: Cours					accessed hv	

-14-1-4	N.				
	respective Course Name				
PT01CBMC21	Cell and Molecular biology		✓		
PT01CBMC22	Instrumentation		✓		
PT01CBMC23	Enzymologist		✓		
	Practical based on PT01CBMC21 and		✓		
PT01CBMC24	PT01CBMC22				
	Practical based on PT01CBMC23 and		✓		
PT01CBMC25	PT01EBMC21				
PT01EBMC21	Human Physiology		✓		
PT01EBMC22	Biomolecules and Bioenergetics		✓		
PT01EBMC23	Biostatistics and Bioinformatics		✓		
PT02CBMC21	Medical Microbiology		✓		
PT02CBMC22	Biomaterial and Tissue Engineering		✓		
PT02CBMC23	Immunology		✓		
	Practical based on PT02CBMC21 and				
PT02CBMC24	PT02CBMC22		✓		
	Practical based on PT02CBMC23 and				
PT02CBMC25	PT02EBMC21		✓		
PT02EBMC21	Molecular Medicine		✓		
PT02EBMC22	Clinical and applied Physiology		✓		
	Biosafety and Biomedical waste				
PT02EBMC23	Management		✓		
PT03CBMC21	Genetic Engineering		✓		
PT03CBMC22	Clinical Biochemistry		✓		
<u>110300011022</u>	Nanotechnology and its Applications in				
PT03CBMC23	Biomedical Science		✓		
<u>1105CDIIIC25</u>	Practical based on PT03CBMC21 and				
PT03CBMC24	PT03CBMC22		✓		
<u>1105CDMC2+</u>	Practical based on PT03CBMC23 and				
PT03CBMC25	PT03EBMC21		✓		
PT03EBMC21	Clinical Pharmacology & Toxicology		✓		
PT03EBMC22	Biosafety and IPR		· · · · · · · · · · · · · · · · · · ·		
PT03EBMC22	Methods in biology		· · · · · · · · · · · · · · · · · · ·		
	Methods in biology Molecular Diagnostic Techniques		✓ ✓		
PT04CBMC21					
PT04CBMC22	Medical Imaging Techniques				
PT04CBMC23	Animal Cell Culture and Gene Therapy				
PT04CBMC24	Project Work		v		
	Practical based on PT04CBMC21 and		✓		
PT04CBMC26	PT04CBMC22				
PT04EBMC21	Developmental Biology		✓		
PT04EBMC22	Omics and Computational Biology		✓		
PT04EBMC23	Biodynamics		✓		
Program	MSc (Defense Science)				
POs	At the end of the program, the students w				
	PO1 Have a deep understanding of both	he theoretical and pract	ical concepts in the		
	respective subject.				
	PO2 Understand laboratory processes and use scientific equipment and work				
	independently.	_			
	PO3 Develop research temperament as a	consequence of their th	eory and practical		
	learning.	-	- •		
	PO4 Communicate scientific information	in oral and written form	n.		
	PO5 Understand the issues related to nati				
	rationally for sustainable developm				
		iciit.			

	PO6 The students are able to handle us	nexpected situations h	ov critically	analyzing the
	problem.		. j endeany	
PSOs	PSO1 The Master's programme on Defe	ence Science offered i	n this depart	ment aims to
	produce competent PG students v			
	enable them to become successful			
	PSO2 The programme will ensure that			to critically
	evaluate, choose and use various te		1 5	5
	PSO3 Extensive practical training im		n the studer	nts acquiring
	transferable skill set and make the			
	opportunities.	1 5		
	PSO4 Research career in national labora	atories under defence	research and	development
	organization, industries based on a			
	explosives and materials of defence			
Courses: Cours	e Outcomes (COs) are available in indiv		which can be	e accessed by
	respective Course Name			
PT01CDSC01	Elements of Physical Sciences			✓
PT01CDSC02	Elements of Chemical Sciences			✓
PT01CDSC03	Elements of Biological Sciences			\checkmark
TOTEDSCOS	Mathematical and Statistical Tools for		-	
PT01CDSC04	Applied Science I			✓
TUTEDDC04	Practicals in Physical, Chemical and			
PT01CDSC05	Biological Sciences			✓
<u>1101CD5C05</u>	Thermodynamics, Phase Equilibria and			
PT01EDSC01	Properties of Matter			✓
TITLDSCOT	Quantitation of Biological Molecules &			
PT01EDSC02	Introduction to Laboratory Medicine			·
PT01EDSC02	Planet Earth and its Subsystems		-	✓
				✓ ✓
PT02CDSC01	Synthesis and Properties of Materials			✓ ✓
PT02CDSC02	Instrumentation			▼ ✓
PT02CDSC03	Characterization Techniques			
PT02CDSC04	Experimental Methods-I			 ✓
PT02CDSC05	Experimental Methods-II			✓
	Computer Aided Design (CAD) and			\checkmark
PT02EDSC01	Computer Aided Manufacturing (CAM)			
	Environmental Science, Health &			✓
PT02EDSC02	Safety			
PT02EDSC03	System Physiology			✓
PT03CDSC01	Chemical Science			✓
PT03CDSC02	Physical Science			✓
PT03CDSC03	Polymer Science			✓
PT03CDSC04	Experimental Methods- III			✓
PT03CDSC05	Experimental Methods- IV			\checkmark
PT03EDSC01	Nano Science and Materials			\checkmark
	Physical Characterization of Advanced			✓
PT03EDSC02	Materials			v
PT04CDSC01	Sensors and Devices			✓
PT04CDSC02	Antenna Systems and Radars		✓	✓
	Composite Materials and Its			
PT04CDSC03	Applications to Defence needs		\checkmark	✓
PT04CDSC04	Project Work		-	✓
PT04CDSC06	Experimental Methods-V		-	\checkmark
PT04EDSC01	Robotics and Manufacturing Systems		-	\checkmark
PT04EDSC02	Automation and Control			· · · · · · · · · · · · · · · · · · ·

Program	MSc (Earth Science)						
POs	At the end of the program, the students w	ill be able to					
	PO1 Have a deep understanding of both t		nd practical conce	epts in the			
	respective subject.						
	PO2 Understand laboratory processes and use scientific equipment and work						
	independently.						
	PO3 Develop research temperament as a	consequence of	their theory and pr	ractical			
	learning.		_				
	PO4 Communicate scientific information						
	PO5 Understand the issues related to natu		mental contexts and	d think			
	rationally for sustainable developm PO6 The students are able to handle unex		as by oritically anal	wing the			
	problem.	pected situation	is by critically anal	lysing the			
PSOs	PSO1 Competent Post-Graduate students	s with knowled	ge skills and exper	rience so as to			
1505	enable them to become successful			fience so as to			
	PSO2 Students develop the ability to			l use various			
	techniques and tools. Extensive						
	students acquiring transferable sk						
	and further research opportunities.						
	PSO3 Career as research scientist in aca						
	array of fields including enviro						
	consulting, air quality monitoring						
	resources management, wild life	-	conservation and	environment			
Courses Correct	protection, water resource managen		filog which care t	o occord be-			
	se Outcomes (COs) are available in indiv respective Course Name	iduai sylladus	mes which can be	e accessed by			
PT01CESC01	Elements of Physical Sciences			✓			
PT01CESC02	Elements of Chemical Sciences			✓ ×			
PT01CESC03	Elements of Biological Sciences			✓ √			
	Mathematical and Statistical Tools for						
PT01CESC04	Applied Science I			\checkmark			
	Practical in Physical, Chemical and			1			
PT01CESC05	Biological Sciences			✓			
PT01EESC01	Planet Earth and its Subsystems			✓			
	Quantitation of Biological Molecules &			✓			
PT01EESC02	Introduction to Laboratory Medicine						
	Thermodynamics, Phase Equilibria and			\checkmark			
PT01EESC03	Properties of Matter						
PT02CESC01	Synthesis and Properties of Materials			√			
PT02CESC02	Instrumentation			\checkmark			
PT02CESC03	Characterization Techniques	<u> </u>		\checkmark			
PT02CESC04 PT02CESC05	Experimental Methods-I			✓ ✓			
<u>r 102CESCUS</u>	Experimental Methods-II Earth Materials, Surface Features and	<u> </u>		•			
PT02EESC01	Interior Processes			✓			
<u>1 102000001</u>	Environmental Science, Health &						
PT02EESC02	Safety			\checkmark			
PT02EESC03	System Physiology			✓			
	Computer Aided Design (CAD) and			,			
				\checkmark			
PT02EESC04	Computer Aided Manufacturing (CAM)						
PT02EESC04 PT03CESC01	Computer Aided Manufacturing (CAM) Geophysics			✓			
	Geophysics			✓ ✓			
PT03CESC01							

DTOOTOOOA			r	1					
PT03CESC04	Experimental Methods- III				✓				
PT03CESC05	Experimental Methods- IV				✓				
	Remote Sensing, GPS, Earth Resources			\checkmark	×				
PT03EESC01	and Future Energy Options			•	•				
	Geo-Informatics, GPS, Natural and			~	✓				
PT03EESC02	manmade Hazards and Global warming			v	·				
PT04CESC01	Meteorology			✓	~				
PT04CESC02	Oceanography			✓	~				
PT04CESC03	Physical Geography			✓	✓				
PT04CESC04	Project Work				✓				
PT04CESC05	Experimental Methods- V				✓				
PT04EESC01	Advanced Geophysics				✓				
PT04EESC02	Advanced Geochemistry				✓				
Program	MSc (Bioinformatics)		•						
POs	PO1 Have a deep understanding of bo	th the theo	retical and	practical co	oncepts in the				
	respective subject.			L	•				
	PO2 Understand laboratory processe	s and us	e scientific	equipmen	and work				
	independently.			• •					
	PO3 Develop research temperament as	s a conseq	uence of th	eir theory	and practical				
	learning.	-			-				
	PO4 Communicate scientific information								
	PO5 Understand the issues related to	nature and	a environme	ental contex	xts and think				
	rationally for sustainable developm								
	PO6 The students are able to handle unex	PO6 The students are able to handle unexpected situations by critically analyzing the							
	problem.								
PSOs	After completion of the program, students can apply their expertise in molecular design,								
	drug discovery, genome sequencing, docking studies, database design and maintenance,								
	proteomics, pharmacology, pharmacog	enomics, o	clinical pha	rmacologist	, informatics				
	proteomics, pharmacology, pharmacog developer and computational chemist.	enomics, o It will en	clinical phar hance empl	rmacologist	, informatics				
	proteomics, pharmacology, pharmacog developer and computational chemist. industries and research centres in the hea	enomics, o It will en Ith care sec	clinical phan hance empl- tor.	rmacologist oyability in	, informatics n institutions,				
	proteomics, pharmacology, pharmacog developer and computational chemist. industries and research centres in the hea se Outcomes (COs) are available in indiv	enomics, o It will en Ith care sec	clinical phan hance empl- tor.	rmacologist oyability in	, informatics n institutions,				
clicking on the	proteomics, pharmacology, pharmacog developer and computational chemist. industries and research centres in the hea se Outcomes (COs) are available in indiv respective Course Name	enomics, o It will en Ith care sec	clinical phan hance empl- tor.	rmacologist oyability in	e accessed by				
	proteomics, pharmacology, pharmacog developer and computational chemist. industries and research centres in the hea se Outcomes (COs) are available in indiv respective Course Name Fundamentals of Biology	enomics, o It will en Ith care sec	clinical phan hance empl- tor.	rmacologist oyability in	, informatics n institutions,				
clicking on the <u>PT01CBIC01</u>	proteomics, pharmacology, pharmacogdeveloper and computational chemist.industries and research centres in the hease Outcomes (COs) are available in indivrespective Course NameFundamentals of BiologyMolecular Biology & Recombinant	enomics, o It will en Ith care sec	clinical phan hance empl- tor.	rmacologist oyability in	e accessed by				
clicking on thePT01CBIC01PT01CBIC02	proteomics, pharmacology, pharmacog developer and computational chemist. industries and research centres in the hea se Outcomes (COs) are available in indiv respective Course NameFundamentals of Biology Molecular Biology & Recombinant rDNA Technology	enomics, o It will en Ith care sec	clinical phan hance empl- tor.	rmacologist oyability in	 informatics institutions, accessed by ✓ ✓ 				
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clicking on thePT01CBIC01PT01CBIC02PT01CBIC03PT01CBIC04	proteomics, pharmacology, pharmacog developer and computational chemist. industries and research centres in the hease Outcomes (COs) are available in indiv respective Course NameFundamentals of BiologyMolecular Biology & Recombinant rDNA TechnologyIT FundamentalsExperimental Methods-IIBiocomputing Fundamentals	enomics, o It will en Ith care sec	clinical phan hance empl- tor.	rmacologist oyability in	 informatics institutions, accessed by ✓ ✓ ✓ ✓ ✓ ✓ ✓ 				
clicking on thePT01CBIC01PT01CBIC02PT01CBIC03PT01CBIC04PT01CBIC05PT01EBIC01	proteomics, pharmacology, pharmacog developer and computational chemist. industries and research centres in the hease Outcomes (COs) are available in indiv respective Course NameFundamentals of BiologyMolecular Biology & Recombinant rDNA TechnologyIT FundamentalsExperimental Methods-IExperimental Methods-IIBiocomputing FundamentalsFoundation of Biochemistry and	enomics, o It will en Ith care sec	clinical phan hance empl- tor.	rmacologist oyability in	accessed by				
clicking on the PT01CBIC01 PT01CBIC02 PT01CBIC03 PT01CBIC04 PT01CBIC05 PT01EBIC01	proteomics, pharmacology, pharmacog developer and computational chemist. industries and research centres in the hease Outcomes (COs) are available in indiv respective Course NameFundamentals of BiologyMolecular Biology & Recombinant rDNA TechnologyIT FundamentalsExperimental Methods-IExperimental Methods-IIBiocomputing FundamentalsFoundation of Biochemistry and Molecular Biology	enomics, o It will en Ith care sec	clinical phan hance empl- tor.	rmacologist oyability in	 informatics institutions, accessed by ✓ ✓<!--</td-->				
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PT03CBIC04	Experimental Methods-V				✓
PT03CBIC05	Experimental Methods-VI				· · · · · · · · · · · · · · · · · · ·
PT03EBIC01	Graphics & Animation				✓ ✓
PT03EBIC02	Introduction of System Biology				✓ ✓
PT04CBIC02	Project				✓ ✓
	· · · · ·	l	l		v
Program POs	MSc (Applied Physics)PO1 Have a deep understanding of bot	h tha thaa	matical and	manation1 on	maanta in tha
rus	respective subject.	ii the theo	letical and	practical co	incepts in the
	PO2 Understand laboratory processes	and us	a scientific	aquinman	t and work
	independently.	s and us	scientifie	equipmen	and work
	PO3 Develop research temperament as	a conseq	uence of th	eir theory	and practical
	learning.	a conseq	defice of th	ien meory	and practical
	PO4 Communicate scientific information	in oral and	l written for	m	
	PO5 Understand the issues related to				sts and think
	rationally for sustainable developm			••••••	
	PO6 The students are able to handle un		situations by	v critically	analyzing the
	problem.	I		j	<i>.</i>
PSOs	PSO1 Understand various aspects of ap	plied phys	ics in additi	on to class	ical, quantum
	physics, mathematical physics, ele				
	nuclear physics.	-			
	PSO2 Experiential learning through activ	ities such a	s lab practic	al's, resear	ch project and
	workshops				
	PSO3 Apply their learned knowledge in				
	Government sectors, in the field of				
	and Electronics, Laser and Optics	s, Renewał	ole energy,	Defence, N	anomaterials,
	etc.				
	se Outcomes (COs) are available in indiv	idual sylla	bus files w	hich can be	e accessed by
	respective Course Name Basic Mathematical Tools				√
PT01CAPC01					v
PT01CAPC02	Physics of Atomic - Molecular				\checkmark
PT01CAPC02 PT01CAPC03	Spectroscopy and Statistical Mechanics Applied Electronics				✓
PT01CAPC03 PT01CAPC04	Experimental Methods -I				✓ ✓
	Experimental Methods -I				✓ ✓
PT01CAPC05 PT01EAPC01	·				✓ ✓
FIULAFCUL	Nanoscience & Applied Materials Numerical and Statistical Methods for				v
$\mathbf{DT} \cap \mathbf{IE} \wedge \mathbf{DC} \cap 2$					\checkmark
PT01EAPC02	Applied Physics Classical Mechanics and Quantum				
PT02CAPC01	Mechanics				\checkmark
PT02CAPC01 PT02CAPC02	Electrodynamics				✓
PT02CAPC02 PT02CAPC03	Elements of Applied Physics				✓ ✓
PT02CAPC03 PT02CAPC04	Experimental Methods -III				✓ ✓
PT02CAPC04 PT02CAPC05	Experimental Methods -IV				✓ ✓
PT02EAPC03	Fundamentals of Materials Science				✓ ✓
PT02EAPC01 PT02EAPC02	Electronics Devices & Photovoltaics				✓ ✓
PT03CAPC01	Quantum Effects in Solids				· · · · · · · · · · · · · · · · · · ·
<u>1103CALCU1</u>	Optical and Magnetic Properties of				•
PT03CAPC02	Solids				✓
PT03CAPC02 PT03CAPC03	Non-Destructive Testing Techniques				✓
PT03CAPC03 PT03CAPC04	Experimental Methods -V				✓ ✓
I IUJUATUU4					▼ ▼
PTO3CA DCO5					
PT03CAPC05	Experimental Methods -VI				•
PT03CAPC05 PT03EAPC01	Surface Science and Thin Film Technology				✓ ✓

PT03EAPC02	Solar Energy & Geothermal Energy				~		
	Elements of Nuclear and Particle				\checkmark		
PT04CAPC01	Physics						
	Sophisticated Experimental &				✓		
PT04CAPC02	Characterization Techniques				-		
PT04CAPC03	Advanced Devices and Sensors				\checkmark		
PT04CAPC04	Experimental Methods –VII				✓		
PT04CAPC05	Experimental Methods -VIII				✓		
PT04CAPC07	Project Work				✓		
	Crystallography and Crystal Growth				✓		
PT04EAPC01	Methods				v		
PT04EAPC02	Advanced Electronic Devices				✓		
Program	MSc (Applied Chemistry)						
POs	At the end of the program, the students w	will be able	to				
	PO1 Have a deep understanding of both	the theoreti	cal and prac	tical conce	pts in the		
	respective subject.						
	PO2 Understand laboratory processes an	d use scient	tific equipme	ent and wor	k		
	independently.						
	PO3 Develop research temperament as a	consequen	ce of their th	eory and pr	actical		
	learning.						
	PO4 Communicate scientific information						
	PO5 Understand the issues related to nat	ure and env	ironmental o	contexts and	l think		
	rationally for sustainable developr	nent.					
	PO6 The students are able to handle u	inexpected	situations by	y critically	analyzing the		
	problem.						
PSOs	PSO1 Applied Chemistry is specialize						
	bridge the gap between Chemistr	bridge the gap between Chemistry, Engineering and Technology. The course will					
	cover all the essential features of	regular prog	ram with the	e special en	nphasis on the		
	laboratory and research training th	rough proje	ct work.				
	PSO2 This program includes basic c						
	analytical, polymer and industria	1. Addition	ally, this pr	ogram cont	ains study of		
	advanced and realistic chemistry	y that will	be enrich	their know	ledge for the		
	research and industry.						
	PSO3 Motivate acute thinking and pro	olem resolv	ing skill. Th	ne program	train students		
	for both professional job market	and exciting	g basic and	interdiscipli	inary research		
	career in chemical science and ope	ens many jo	b scopes afte	er successfu	l completion.		
	PSO4 Hands-on training on numerous of	of instrumer	t such as H	PLC, LC-M	IS, GC, TGA,		
	DST, DSC, UV-Vis spectrophotor						
	se Outcomes (COs) are available in indi	vidual sylla	abus files w	hich can b	e accessed by		
	respective Course Name		T	1	1		
PT01CACH21	Inorganic Chemistry – I				✓		
PT01CACH22	Organic Chemistry – I				✓		
PT01CACH23	Physical Chemistry – I				✓		
PT01CACH24	Practicals				 ✓ 		
PT01CACH25	Practicals				✓ ✓		
PT01EACH21	Analytical Chemistry				✓ ✓		
PT01EACH22	Environmental Chemistry				✓ ✓		
PT02CACH21	Inorganic Chemistry – II				✓		
PT02CACH22	Organic Chemistry – II				 ✓ 		
PT02CACH23	Physical Chemistry – II				✓		
DIDAGLOCIES	Practicals				\checkmark		
PT02CACH24							
PT02CACH25	Practicals				✓		

PT03CACH21 Applied Inorganic Material ✓ PT03CACH22 Applied Organic Chemistry - I ✓ PT03CACH23 Applied Physical Chemistry ✓ PT03CACH24 Practicals ✓ PT03CACH24 Practicals ✓ PT03CACH21 Fundicals ✓ PT03CACH21 Fundicals ✓ PT03CACH22 Practicals ✓ PT03CACH21 Fundicals ✓ PT03CACH21 Fundicals ✓ PT03CACH22 Precicals ✓ PT03CACH23 Chemistry ✓ PT04CACH23 Applied Creatistry - II ✓ PT04CACH23 Project Work ✓ PT04CACH23 Project Work ✓ PT04CACH23 Selected Topics in Applied Chemistry ✓ PT04CACH23 Selected Topics in Applied Chemistry ✓ PT04CACH24 Project Work ✓ PT04CACH23 Selected Topics in Applied Chemistry ✓ PT04CACH23 Organic Semiconductors ✓ PT04CACH23 Organic Semiconductors ✓ P						
PT03CACH23 Applied Physical Chemistry ✓ PT03CACH24 Practicals ✓ PT03CACH25 Practicals ✓ PT03CACH26 Practicals ✓ PT03CACH27 Practicals ✓ PT03EACH21 Pundementals of Polymer Chemistry ✓ PT03EACH22 Drug Design and Applications ✓ Advanced Computational Methods in ✓ PT04CACH23 Applied Organic Chemistry - II ✓ PT04CACH24 Process and Analysis in Industry ✓ PT04CACH25 Process and Analysis in Industry ✓ PT04CACH24 Project Work ✓ PT04EACH21 Advances in Polymer Chemistry ✓ PT04EACH22 Selected Topics in Applied Chemistry ✓ PT04EACH23 Organic Semiconductors ✓ PT04EACH23 Organic Semiconductors ✓ PT04EACH23 Organic Semiconductors ✓ PT04EACH24 Project Work ✓ PT04EACH23 Organic Semiconductors ✓ PT04EACH23 Organic Semiconductors ✓ PT04EACH23 Se		Applied Inorganic Material				\checkmark
PT03CACH24 Practicals / PT03EACH25 Practicals / PT03EACH22 Drug Design and Applications / PT03EACH22 Drug Design and Applications / PT03EACH22 Drug Design and Applications / PT03EACH23 Chemistry / PT04CACH21 Applied Organic Chemistry - II / PT04CACH22 Process and Analysis in Industry / PT04CACH23 Industrial Management and Hygiene / PT04CACH24 Project Work / PT04EACH21 Advances in Polymer Chemistry / PT04EACH22 Selected Topics in Applied Chemistry / PT04EACH23 Organic Semiconductors / PT04EACH23 Selected Topics in Applied Chemistry / PT04EACH24 Advances and a degree of expertise in laboratory practices, analytical techniques an specialization area of pharmacy. PO2 PO3 Independently carry out research/investigation and development work to solv problem. PO4 Write and present a substantial scientific document and technical report. PO5 PSO1 Understand the Quality Assurance, Total Quality Management, and Qualit Management concepts, Hazard Management system and technol	PT03CACH22					-
PT03CACH25 Practicals ✓ PT03EACH21 Fundamentals of Polymer Chemistry ✓ PT03EACH22 Drug Design and Applications ✓ Advanced Computational Methods in ✓ ✓ PT03EACH23 Chemistry ✓ PT04EACH21 Applied Organic Chemistry - II ✓ PT04EACH22 Process and Analysis in Industry ✓ PT04EACH22 Process and Analysis in Industry ✓ PT04EACH22 Proceed Vork ✓ PT04EACH24 Project Work ✓ PT04EACH22 Selected Topics in Applied Chemistry ✓ PT04EACH22 Selected Topics in Applied Chemistry ✓ PT04EACH23 Organic Semiconductors ✓ PT04EACH23 Selected Topics in Applied Chemistry ✓ PT04EACH23 Gradins Komoledge and comprehension of the advancements in the core an specialization area of pharmacy. ✓ PO2 Demonstrate a degree of expertise in laboratory practices, analytical techniques an scientific tools. PO3 Independently carry out research/investigation and development work to solv problem. PO4 Write and present a substantial scientific document and technical report. PO5 Apply reasoning by contextual knowledge to assess	PT03CACH23					✓
PT03EACH21 Fundamentals of Polymer Chemistry / PT03EACH22 Drug Design and Applications / Advanced Computational Methods in / / PT03EACH23 Chemistry / PT04CACH21 Applied Organic Chemistry - II / PT04CACH22 Industrial Management and Hygiene / PT04CACH23 Industrial Management and Hygiene / PT04CACH24 Project Work / PT04EACH22 Selected Topics in Applied Chemistry / PT04EACH23 Organic Semiconductors / PT04EACH23 Organic Semiconductors / PT04EACH23 Organic MPharm (Pharmaceutical Quality Assurance) / POs PO1 Acquire knowledge and comprehension of the advancements in the core an specialization area of pharmacy. PO2 Demonstrate a degree of expertise in laboratory practices, analytical techniques an scientific tools. PO3 Independently carry out research/investigation and development work to solv problem. PO4 Write and present a substantial scientific document and technical report. PO5 Apply reasoning by contextual knowledge to assess societal impact, environment impact, health, safety and legal issues and the consequent responsibilities relevant i the pharmacy profession. PSO3 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
PT03EACH22 Drug Design and Applications Advanced Computational Methods in / PT03EACH23 Chemistry PT04CACH21 Applied Organic Chemistry - II / PT04CACH22 Process and Analysis in Industry / PT04CACH23 Industrial Management and Hygiene / PT04CACH24 Project Work / PT04EACH25 Selected Topics in Applied Chemistry / PT04EACH23 Organic Semiconductors / POS PO1 Acquire knowledge and comprehension of the advancements in the core an specialization area of pharmacy. PO2 Demonstrate a degree of expertise in laboratory practices, analytical techniques an scientific tools. PO3 Independently carry out research/investigation and development work to solv problem. PO4 Write and present a substantial scientific document and technical report. PO5 Apply reasoning by contextual knowledge to assess societal impact, environment, impact, health, safety and legal issues and the consequent responsibilities relevant 1 the pharmacy profession.						
Displant Displant Displant Advanced Computational Methods in PT03EACH23 Chemistry ////////////////////////////////////	PT03EACH21	Fundamentals of Polymer Chemistry				
PT03EACH23 Chemistry PT04CACH21 Applied Organic Chemistry - II PT04CACH22 Progenic ACH22 PT04CACH23 Industrial Management and Hygiene PT04CACH24 Project Work PT04CACH25 Project Work PT04EACH21 Advances in Polymer Chemistry PT04EACH23 Selected Topics in Applied Chemistry PT04EACH23 Selected Topics in Applied Chemistry PT04EACH23 Organic Semiconductors Program MPharm (Pharmaceutical Quality Assurance) PO3 PO1 Acquire knowledge and comprehension of the advancements in the core an specialization area of pharmacy. PO2 Demonstrate a degree of expertise in laboratory practices, analytical techniques an scientific tools. PO3 Independently carry out research/investigation and development work to solv problem. PO4 Write and present a substantial scientific document and technical report. PO5 Apply reasoning by contextual knowledge to assess societal impact, environment impact, health, safety and legal issues and the consequent responsibilities relevant the pharmacy profession. PSO1 Understand the Quality Assurance, Total Quality Management, and Qualit Management concepts, Hazard Management system and technology transfe system. PSO2 Adopt GMP, Schedule M, ISO 9000 and 14000 standards, NABL accreditation ICH, USFDA, WHO	PT03EACH22	Drug Design and Applications				\checkmark
PT03EACH23 Chemistry PT04CACH21 Applied Organic Chemistry - II ✓ PT04CACH22 Process and Analysis in Industry ✓ PT04CACH23 Industrial Management and Hygiene ✓ PT04CACH24 Project Work ✓ PT04CACH25 Selected Topics in Applied Chemistry ✓ PT04EACH23 Selected Topics in Applied Chemistry ✓ PT04EACH23 Selected Topics in Applied Chemistry ✓ PT04EACH23 Organia MPharm (Pharmaceutical Quality Assurance) POs PO1 Acquire knowledge and comprehension of the advancements in the core an specialization area of pharmacy. PO2 Demonstrate a degree of expertise in laboratory practices, analytical techniques an scientific tools. PO4 Write and present a substantial scientific document and technical report. PO4 Write and present a substantial scientific document and technical report. PO5 Apply reasoning by contextual knowledge to assess socital impact, environment inimpact, health, safety and legal issues and the consequent responsibilities relevant the pharmacey profession. PSOs PSO1 Understand the Quality Assurance, Total Quality Management, and Qualit Management concepts, Hazard Management system and technology transfe system. PSO2 Adopt GMP, Schedule M, ISO 9000 and 14000 standards, NABL accreditation ICH, USFDA, WHO and other regulatory guidelims and common r		Advanced Computational Methods in				1
PT04CACH22 Process and Analysis in Industry ✓ PT04CACH23 Industrial Management and Hygiene ✓ PT04CACH24 Project Work ✓ PT04CACH25 Project Work ✓ PT04EACH21 Advances in Polymer Chemistry ✓ PT04EACH22 Selected Topics in Applied Chemistry ✓ PT04EACH22 Selected Topics in Applied Chemistry ✓ PT04EACH22 Organic Semiconductors ✓ PT04EACH20 Demonstrate a degree of expertise in laboratory practices, analytical techniques an specialization area of pharmacy. PO2 PO3 Independently carry out research/investigation and development work to solv problem. PO4 Write and present a substantial scientific document and technical report. PO5 Apply reasoning by contextual knowledge to assess societal impact, environment impact, health, safety and legal issues and the consequent responsibilities relevant 1 the pharmacy profession. PSO1 PSOs PSO1 Understand the Quality Assurance, Total Quality Management, and Qualit Management concepts, Hazard Management system and technology transfe system. PSO2 Adopt GMP, Schedule M, ISO 9000 and 14000 standards, NABL accreditation ICH, USFDA, WHO and other regulatory guidelines and common requirement for product registration and product development. PSO3 <td< td=""><td></td><td>Chemistry</td><td></td><td></td><td></td><td>v</td></td<>		Chemistry				v
PTO4CACH23 Industrial Management and Hygiene ✓ PTO4CACH24 Project Work ✓ PTO4CACH25 Project Work ✓ PTO4EACH21 Advances in Polymer Chemistry ✓ PTO4EACH22 Selected Topics in Applied Chemistry ✓ PTO4EACH23 Organic Semiconductors ✓ Program MPharm (Pharmaceutical Quality Assurance) ✓ POs PO1 Acquire knowledge and comprehension of the advancements in the core an specialization area of pharmacy. PO2 Demonstrate a degree of expertise in laboratory practices, analytical techniques an scientific tools. PO3 Independently carry out research/investigation and development work to solv problem. PO4 Write and present a substantial scientific document and technical report. PO5 PSO1 Independently carry out research/investigation and technical report. PO5 Apply reasoning by contextual knowledge to assess societal impact, environmentr impact, health, safety and legal issues and the consequent responsibilities relevant the pharmacy profession. PSO8 PSO1 Understand the Quality Assurance, Total Quality Management, and Qualit Management concepts, Hazard Management system and technology transfe system. PSO2 Adopt GMP, Schedule M, ISO 9000 and 14000 standards, NABL accreditation ICH, USFDA, WHO and other regulatory guidelines and common requirement fpro	PT04CACH21	Applied Organic Chemistry - II				\checkmark
PT04CACH24 Project Work ✓ PT04CACH25 Project Work ✓ PT04EACH21 Advances in Polymer Chemistry ✓ PT04EACH22 Selected Topics in Applied Chemistry ✓ PT04EACH23 Organic Semiconductors ✓ PT04EACH23 Organic Semiconductors ✓ PT04EACH23 Organic Semiconductors ✓ POs PO1 Acquire knowledge and comprehension of the advancements in the core an specialization area of pharmacy. PO2 Demonstrate a degree of expertise in laboratory practices, analytical techniques an scientific tools. PO3 Independently carry out research/investigation and development work to solv problem. PO4 Write and present a substantial scientific document and technical report. PO5 Apply reasoning by contextual knowledge to assess societal impact, environment impact, health, safety and legal issues and the consequent responsibilities relevant it the pharmacy profession. PSOs PSO1 Understand the Quality Assurance, Total Quality Management, and Qualit Management concepts, Hazard Management system and technology transfers system. PSO2 Adopt GMP, Schedule M, ISO 9000 and 14000 standards, NABL accreditation ICH, USFDA, WHO and other regulatory guidelines and common requirement for product registration and product development. PSO3 Dealing with different quality concept and use modern pharmaceutical tool software and equipment to analyze & solve problems with the help o	PT04CACH22	Process and Analysis in Industry				\checkmark
PT04CACH25 Project Work ✓ PT04EACH21 Advances in Polymer Chemistry ✓ PT04EACH22 Selected Topics in Applied Chemistry ✓ PT04EACH23 Organic Semiconductors ✓ PT04EACH23 Organic Semiconductors ✓ PT04EACH23 Organic Semiconductors ✓ POs PO1 Acquire knowledge and comprehension of the advancements in the core an specialization area of pharmacy. PO2 Demonstrate a degree of expertise in laboratory practices, analytical techniques an scientific tools. PO3 Independently carry out research/investigation and development work to solv problem. PO4 Write and present a substantial scientific document and technical report. PO5 Apply reasoning by contextual knowledge to assess societal impact, environment. POS PSO1 Understand the Quality Assurance, Total Quality Management, and Qualit Management concepts. Hazard Management system and technology transfer system. PSO2 Adopt GMP, Schedule M, ISO 9000 and 14000 standards, NABL accreditation ICH, USFDA, WHO and other regulatory guidelines and common requirement for product registration and product development. PSO3 Dealing with different quality concept and use modern pharmaceutical tool software and equipment to analyze & solve problems with the help of GLP, GCI QbD, PAT and their documentation. PSO4 Doing various pharmaceutical product development.	PT04CACH23	Industrial Management and Hygiene				✓
PT04EACH21 Advances in Polymer Chemistry ✓ PT04EACH21 Advances in Polymer Chemistry ✓ PT04EACH22 Selected Topics in Applied Chemistry ✓ PT04EACH23 Organic Semiconductors ✓ Program MPharm (Pharmaceutical Quality Assurance) ✓ POs PO1 Acquire knowledge and comprehension of the advancements in the core an specialization area of pharmacy. PO2 Demonstrate a degree of expertise in laboratory practices, analytical techniques an scientific tools. PO3 Independently carry out research/investigation and development work to solv problem. PO4 Write and present a substantial scientific document and technical report. PO5 Apply reasoning by contextual knowledge to assess societal impact, environmentr impact, health, safety and legal issues and the consequent responsibilities relevant the pharmacy profession. PSOs PSOI Understand the Quality Assurance, Total Quality Management, and Qualit Management concepts, Hazard Management system and technology transfe system. PSO2 Adopt GMP, Schedule M, ISO 9000 and 14000 standards, NABL accreditation ICH, USFDA, WHO and other regulatory guidelines and common requirement fo product registration and product development. PSO3 Dealing with different quality concept and use modern pharmaceutical tool software and equipment to analyze & solve problems with the help of GLP, GCI QbD, PAT and their documentation. PSO4 Doing various pharmaceutical product development interaction such as calibrati	PT04CACH24	Ducie at Woods				
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MQA101T Techniques					\checkmark	✓
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MQA102T Quality Management System						√
MQA103T Quality Control and Quality Assurance	<u>MQA103T</u>				ļ	✓
Product Development and Technology		1 01				✓
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Pharmaceutical Quality Assurance					✓	
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<u>MQA203T</u>	Audits and Regulatory Compliance				•				
	Pharmaceutical Manufacturing				\checkmark				
<u>MQA204T</u>	Technology								
	Pharmaceutical Quality Assurance			✓					
MQA205P	Practical II			✓	✓				
MRM301T	Research Methodology and Biostatistics		✓	•	v				
MQA302J	Journal Club		~						
MQA303D	Dissertation-Project			✓ ✓					
MQA304R	Research work-Project		✓	•					
MQA401J	Journal Club		~						
MQA402D	Dissertation-Project			 ✓ 					
MQA403R	Research work and Colloquium			✓					
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	Medical Nutrition Therapy, Food				nity Nutrition				
	and Food Quality Assurance throug								
	PSO2 Familiarization with government p	rogramme	s and scheme	es related to	public health				
	nutrition.			c · · · 1					
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	Nutrition services/industries and nutriepreneurs.								
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Clicking on the PH01CFDN21 PH01CFDN22	 PSO3 Training to take up jobs in nutritice and welfare programmes. PSO4 Skills to undertake systematic and Nutrition. e Outcomes (COs) are available in indiv respective Course Name Principles and Applications of Instruments and Techniques Practical based on PH01C FDN21 (Principles and Applications of Instruments and Techniques) Basic Biochemistry Practical based on PH01CFDN23 (Basic Biochemistry) Physiology and Clinical Biochemistry 	on related s	atate, national lent research abus files with v	h in the area	a of Foods & e accessed by ✓ ✓				
clicking on thePH01CFDN21PH01CFDN22PH01CFDN23PH01CFDN24PH01CFDN25	 PSO3 Training to take up jobs in nutritic and welfare programmes. PSO4 Skills to undertake systematic and Nutrition. e Outcomes (COs) are available in indiv respective Course Name Principles and Applications of Instruments and Techniques Practical based on PH01C FDN21 (Principles and Applications of Instruments and Techniques) Basic Biochemistry Practical based on PH01CFDN23 (Basic Biochemistry) Physiology and Clinical Biochemistry Practical based on PH01CFDN25 	on related s	tate, national lent research abus files with \checkmark \checkmark \checkmark	h in the area hich can be	a of Foods & a accessed by ✓ ✓ ✓				
clicking on the PH01CFDN21 PH01CFDN22 PH01CFDN23 PH01CFDN24 PH01CFDN25 PH01CFDN26	 PSO3 Training to take up jobs in nutritic and welfare programmes. PSO4 Skills to undertake systematic and Nutrition. e Outcomes (COs) are available in indiv respective Course Name Principles and Applications of Instruments and Techniques Practical based on PH01C FDN21 (Principles and Applications of Instruments and Techniques) Basic Biochemistry Practical based on PH01CFDN23 (Basic Biochemistry) Physiology and Clinical Biochemistry Practical based on PH01CFDN25 (Physiology and Clinical Biochemistry) 	n related s d independ idual sylla	abus files with the search of	h in the area	a of Foods & a accessed by ✓ ✓ ✓ ✓ ✓ ✓				
clicking on thePH01CFDN21PH01CFDN22PH01CFDN23PH01CFDN24	 PSO3 Training to take up jobs in nutritic and welfare programmes. PSO4 Skills to undertake systematic and Nutrition. e Outcomes (COs) are available in indiv respective Course Name Principles and Applications of Instruments and Techniques Practical based on PH01C FDN21 (Principles and Applications of Instruments and Techniques) Basic Biochemistry Practical based on PH01CFDN23 (Basic Biochemistry) Physiology and Clinical Biochemistry Practical based on PH01CFDN25 (Physiology and Clinical Biochemistry) Food Microbiology 	on related s	tate, national lent research abus files with \checkmark \checkmark \checkmark \checkmark	h in the area	a of Foods & a accessed by ✓ ✓ ✓ ✓ ✓				
clicking on the PH01CFDN21 PH01CFDN22 PH01CFDN23 PH01CFDN24 PH01CFDN25 PH01CFDN26 PH01EFDN21	 PSO3 Training to take up jobs in nutritic and welfare programmes. PSO4 Skills to undertake systematic and Nutrition. Poutcomes (COs) are available in indiverse (COs) are available in indiverse (Principles and Applications of Instruments and Techniques) Practical based on PH01C FDN21 (Principles and Applications of Instruments and Techniques) Basic Biochemistry Practical based on PH01CFDN23 (Basic Biochemistry) Physiology and Clinical Biochemistry Practical based on PH01CFDN25 (Physiology and Clinical Biochemistry) Food Microbiology Practical based on PH01EFDN21 	n related s d independ idual sylla	abus files with the search of	h in the area	a of Foods & a accessed by ✓ ✓ ✓ ✓ ✓ ✓				
clicking on the PH01CFDN21 PH01CFDN22 PH01CFDN23 PH01CFDN24 PH01CFDN25 PH01CFDN26 PH01EFDN22	 PSO3 Training to take up jobs in nutritic and welfare programmes. PSO4 Skills to undertake systematic and Nutrition. e Outcomes (COs) are available in indiv respective Course Name Principles and Applications of Instruments and Techniques Practical based on PH01C FDN21 (Principles and Applications of Instruments and Techniques) Basic Biochemistry Practical based on PH01CFDN23 (Basic Biochemistry) Physiology and Clinical Biochemistry Practical based on PH01CFDN25 (Physiology and Clinical Biochemistry) Food Microbiology Practical based on PH01EFDN21 (Food Microbiology) 	n related s d independ idual sylla	itate, national lent research abus files with v v v v v v v	h in the area hich can be	a of Foods &				
clicking on thePH01CFDN21PH01CFDN22PH01CFDN23PH01CFDN24PH01CFDN25PH01CFDN26PH01EFDN21	 PSO3 Training to take up jobs in nutritic and welfare programmes. PSO4 Skills to undertake systematic and Nutrition. e Outcomes (COs) are available in indiv respective Course Name Principles and Applications of Instruments and Techniques Practical based on PH01C FDN21 (Principles and Applications of Instruments and Techniques) Basic Biochemistry Practical based on PH01CFDN23 (Basic Biochemistry) Physiology and Clinical Biochemistry Practical based on PH01CFDN25 (Physiology and Clinical Biochemistry) Food Microbiology Practical based on PH01EFDN21 (Food Microbiology) Cell and Molecular Biology 	n related s d independ idual sylla	tate, national lent research abus files with v	h in the area	a of Foods &				
clicking on the PH01CFDN21 PH01CFDN22 PH01CFDN23 PH01CFDN24 PH01CFDN25 PH01CFDN26 PH01EFDN21 PH01EFDN23	 PSO3 Training to take up jobs in nutritic and welfare programmes. PSO4 Skills to undertake systematic and Nutrition. Poutcomes (COs) are available in indiverse pective Course Name Principles and Applications of Instruments and Techniques Practical based on PH01C FDN21 (Principles and Applications of Instruments and Techniques) Basic Biochemistry Practical based on PH01CFDN23 (Basic Biochemistry) Physiology and Clinical Biochemistry Practical based on PH01CFDN25 (Physiology and Clinical Biochemistry) Food Microbiology Practical based on PH01EFDN21 (Food Microbiology) Cell and Molecular Biology Practical based on PH01EFDN23 (Cell 	n related s d independ idual sylla	itate, national lent research abus files with v v v v v v v	h in the area hich can be	a of Foods &				
clicking on the PH01CFDN21 PH01CFDN22 PH01CFDN23 PH01CFDN24 PH01CFDN25 PH01CFDN26 PH01EFDN21 PH01EFDN23 PH01EFDN24	 PSO3 Training to take up jobs in nutritice and welfare programmes. PSO4 Skills to undertake systematic and Nutrition. e Outcomes (COs) are available in indiv respective Course Name Principles and Applications of Instruments and Techniques Practical based on PH01C FDN21 (Principles and Applications of Instruments and Techniques) Basic Biochemistry Practical based on PH01CFDN23 (Basic Biochemistry) Physiology and Clinical Biochemistry Practical based on PH01CFDN25 (Physiology and Clinical Biochemistry) Food Microbiology Practical based on PH01EFDN21 (Food Microbiology) Cell and Molecular Biology Practical based on PH01EFDN23 (Cell and Molecular Biology) 	n related s	tate, national lent research abus files w \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark	h in the area hich can be	a of Foods &				
clicking on the PH01CFDN21 PH01CFDN22 PH01CFDN23 PH01CFDN24 PH01CFDN25 PH01CFDN26 PH01EFDN21 PH01EFDN23 PH01EFDN23	 PSO3 Training to take up jobs in nutritice and welfare programmes. PSO4 Skills to undertake systematic and Nutrition. e Outcomes (COs) are available in indiv respective Course Name Principles and Applications of Instruments and Techniques Practical based on PH01C FDN21 (Principles and Applications of Instruments and Techniques) Basic Biochemistry Practical based on PH01CFDN23 (Basic Biochemistry) Physiology and Clinical Biochemistry Practical based on PH01CFDN25 (Physiology and Clinical Biochemistry) Food Microbiology Practical based on PH01EFDN21 (Food Microbiology) Cell and Molecular Biology Practical based on PH01EFDN23 (Cell and Molecular Biology) Statistics 	n related s d independ idual sylla	tate, national lent research abus files with v v v v v v v v v v v	h in the area hich can be	a of Foods &				
clicking on the PH01CFDN21 PH01CFDN22 PH01CFDN23 PH01CFDN24 PH01CFDN25 PH01CFDN26 PH01EFDN21 PH01EFDN23 PH01EFDN24	 PSO3 Training to take up jobs in nutritice and welfare programmes. PSO4 Skills to undertake systematic and Nutrition. e Outcomes (COs) are available in indiv respective Course Name Principles and Applications of Instruments and Techniques Practical based on PH01C FDN21 (Principles and Applications of Instruments and Techniques) Basic Biochemistry Practical based on PH01CFDN23 (Basic Biochemistry) Physiology and Clinical Biochemistry) Food Microbiology Practical based on PH01EFDN21 (Food Microbiology) Cell and Molecular Biology Practical based on PH01EFDN23 (Cell and Molecular Biology) Statistics Nutritional Biochemistry 	n related s	tate, national lent research abus files w \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark	h in the area hich can be \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark	a of Foods &				
clicking on the PH01CFDN21 PH01CFDN22 PH01CFDN23 PH01CFDN24 PH01CFDN25 PH01CFDN26 PH01EFDN21 PH01EFDN22 PH01EFDN23 PH01EFDN24 PH01EFDN22 PH01EFDN23	 PSO3 Training to take up jobs in nutritice and welfare programmes. PSO4 Skills to undertake systematic and Nutrition. Poutcomes (COs) are available in indiverse pective Course Name Principles and Applications of Instruments and Techniques Practical based on PH01C FDN21 (Principles and Applications of Instruments and Techniques) Basic Biochemistry Practical based on PH01CFDN23 (Basic Biochemistry) Physiology and Clinical Biochemistry Practical based on PH01CFDN25 (Physiology and Clinical Biochemistry) Food Microbiology Practical based on PH01EFDN21 (Food Microbiology) Cell and Molecular Biology Practical based on PH01EFDN23 (Cell and Molecular Biology) Statistics Nutritional Biochemistry Practical based on PH02CFDN22 	n related s	tate, national lent research abus files with v v v v v v v v v v v	h in the area hich can be \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark	a of Foods &				
clicking on the PH01CFDN21 PH01CFDN22 PH01CFDN23 PH01CFDN24 PH01CFDN25 PH01CFDN26 PH01EFDN21 PH01EFDN23 PH01EFDN24 PH01EFDN22 PH01EFDN23 PH01EFDN24 PH01EFDN23	 PSO3 Training to take up jobs in nutritice and welfare programmes. PSO4 Skills to undertake systematic and Nutrition. Poly Course (COs) are available in indiverse (COs) are available in indiverse (Principles and Applications of Instruments and Techniques) Basic Biochemistry Practical based on PH01CFDN23 (Basic Biochemistry) Physiology and Clinical Biochemistry Practical based on PH01CFDN25 (Physiology and Clinical Biochemistry) Food Microbiology Practical based on PH01EFDN21 (Food Microbiology) Cell and Molecular Biology Practical based on PH01EFDN23 (Cell and Molecular Biology) Statistics Nutritional Biochemistry Practical based on PH02CFDN22 (Nutritional Biochemistry) 	n related s d independ idual sylla	tate, national lent research abus files w \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark	h in the area hich can be \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark	a of Foods &				
clicking on the PH01CFDN21 PH01CFDN22 PH01CFDN23 PH01CFDN24 PH01CFDN25 PH01CFDN26 PH01EFDN21 PH01EFDN23 PH01EFDN24 PH01EFDN22 PH01EFDN23	 PSO3 Training to take up jobs in nutritice and welfare programmes. PSO4 Skills to undertake systematic and Nutrition. e Outcomes (COs) are available in indiv respective Course Name Principles and Applications of Instruments and Techniques Practical based on PH01C FDN21 (Principles and Applications of Instruments and Techniques) Basic Biochemistry Practical based on PH01CFDN23 (Basic Biochemistry) Physiology and Clinical Biochemistry (Practical based on PH01CFDN25 (Physiology and Clinical Biochemistry) Food Microbiology Practical based on PH01EFDN21 (Food Microbiology) Cell and Molecular Biology Practical based on PH01EFDN23 (Cell and Molecular Biology) Statistics Nutritional Biochemistry Practical based on PH02CFDN22 (Nutritional Biochemistry) Food and Nutraceutical Chemistry 	n related s	itate, national lent research abus files with v v v v v v v v v v v v v	h in the area hich can be \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark	a of Foods &				
clicking on the PH01CFDN21 PH01CFDN22 PH01CFDN23 PH01CFDN24 PH01CFDN25 PH01CFDN26 PH01EFDN21 PH01EFDN23 PH01EFDN24 PH01EFDN22 PH01EFDN23 PH01EFDN24 PH01EFDN23	 PSO3 Training to take up jobs in nutritice and welfare programmes. PSO4 Skills to undertake systematic and Nutrition. Poly Course (COs) are available in indiverse (COs) are available in indiverse (Principles and Applications of Instruments and Techniques) Basic Biochemistry Practical based on PH01CFDN23 (Basic Biochemistry) Physiology and Clinical Biochemistry Practical based on PH01CFDN25 (Physiology and Clinical Biochemistry) Food Microbiology Practical based on PH01EFDN21 (Food Microbiology) Cell and Molecular Biology Practical based on PH01EFDN23 (Cell and Molecular Biology) Statistics Nutritional Biochemistry Practical based on PH02CFDN22 (Nutritional Biochemistry) 	n related s d independ idual sylla	tate, national lent research abus files w \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark	h in the area hich can be \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark	a of Foods &				

					,			
PH02CFDN26	Extension Activity	✓	✓	✓	✓			
PH02CFDN27	Practical based on Food Analysis	\checkmark	\checkmark	\checkmark	\checkmark			
PH02EFDN21	Food Processing Technology	\checkmark	\checkmark	\checkmark	\checkmark			
	Practical based on PH02EFDN21	✓	~	√	✓			
PH02EFDN22	(Food Processing Technology)	•	·	•	V			
PH02EFDN23	Human Genetics		~	✓	\checkmark			
	Practical based on PH02EFDN23		✓	✓	\checkmark			
PH02EFDN24	(Human Genetics)		v	v	v			
	Research Methodology and Scientific		✓	✓	\checkmark			
PH03CFDN21	Writing		v	v	v			
PH03CFDN22	Practical –Scientific Writing		✓	✓	✓			
PH03CFDN23	Molecular Nutrition - I	✓	✓	✓				
	Practical based on PH03CFDN23	✓	✓	~				
PH03CFDN24	(Molecular Nutrition - I)	v	v	v				
PH03CFDN25	Medical Nutrition Therapy - I		✓	√	✓			
	Practical based on PH03CFDN25		✓	✓	✓			
PH03CFDN26	(Medical Nutrition Therapy - I)		v	v	¥			
PH03CFDN27	Dissertation	✓	✓	✓				
PH03EFDN21	Community Nutrition	✓	✓	✓				
	Practical based on PH03EFDN21	✓	✓	✓				
PH03EFDN22	(Community Nutrition)	v	v	v				
	Food Product Development and							
	Quality	\checkmark	\checkmark	\checkmark	✓			
PH03EFDN23	Assurance							
	Practical based on PH03EFDN23							
	(Food Product Development and	\checkmark	\checkmark	\checkmark	\checkmark			
PH03EFDN24	Quality Assurance)							
	Nutrigenomics and Personalized	~	~	√				
PH03EFDN25	Nutrition		•	•				
	Practical based on PH03EFDN25							
	(Nutrigenomics and Personalized	\checkmark	✓	\checkmark				
PH03EFDN26	Nutrition)							
PH04CFDN21	Molecular Nutrition - II	✓	✓	✓				
PH04CFDN22	Medical Nutrition Therapy - II	✓	✓	✓				
PH04CFDN23	Dissertation & Viva Voce	\checkmark	✓	\checkmark	✓			
Program	MSc Home Science (Food Biotechnolog							
POs	Programme outcome of M.Sc. (Home S							
	entrepreneurship skills for improvement							
PSOs	PSO1 Familiarization with the fundamen		•••	ndustrial M	licrobiology,			
	Food Biosciences and Nutritional H							
	PSO2 Knowledge related to Food and Nutritional Security using the biotechnological							
	approach.							
	PSO3 Theoretical and practical knowledge related to food quality assurance.							
	PSO4 Skills to undertake systematic &ind	dependent	research in th	ne area of F	ood			
	Biotechnology.		1 4-					
	e Outcomes (COs) are available in indiv respective Course Name	vidual sylla	abus files wł	nich can be	e accessed by			
	Principles and Applications of		✓	✓	✓			
PH01CFBT21	Instruments and Techniques		× I	l v	v			
	Practical based on PH01C FBT21							
	(Principles and Applications of		✓	✓	✓			
PH01CFBT22	Instruments and Techniques)							
PH01CFBT23	Basic Biochemistry		✓	✓	\checkmark			

PSOs	PSO1 The programme provides knowledg				
	entrepreneurship skills for improvement in				
POs	The programme outcome of M.Sc. (Home				
Program	MSc Home Science (General)	Color N	a 4a 1	enforment 1	1 1
PH04CFBT23		v	•	•	
	Dissertation & Viva Voce	✓	▼ ✓	v √	v
PH04CFBT22 PH04CFBT22	Food Bioscience		▼ ✓	▼ ▼	 ✓
PH04CFBT21	Nutritional Biotechnology		✓	\checkmark	✓
PH03EFBT24	(Food Product Development and Quality Assurance)	v	v	v	v
	Practical based on PH03E FBT23 (Food Product Development and	✓	~	\checkmark	\checkmark
PH03EFBT23	Assurance				
DUO2EEDTO2	Food Product Development and Quality	\checkmark	\checkmark	✓	\checkmark
<u>PH03EFBT22</u>	(Human Genetics)				
DUO2EEDTO2	Practical based on PH03E FBT21	\checkmark	\checkmark	\checkmark	\checkmark
PH03EFBT21	Human Genetics	\checkmark	✓	✓	\checkmark
PH03CFBT27	Dissertation	<u>√</u>	\checkmark	\checkmark	1
PH03CFBT26	FBT25(Advanced Nutrition)				
DUO20EDE24	Practical based on PH03C		✓	\checkmark	\checkmark
PH03CFBT25	Advanced Nutrition		✓	✓	✓
PH03CFBT24	Microbiology)				
	FBT23(Fundamentals of Industrial		~	✓	\checkmark
	Practical based on PH03C				
PH03CFBT23	Microbiology		•		-
	Fundamentals of Industrial		~	\checkmark	✓
PH03CFBT22	Practical –Scientific Writing		✓	✓	\checkmark
PH03CFBT21	writing				
	Research Methodology and scientific		~	✓	✓
PH02EFBT24	(Nutritional Biochemistry)		v	v	v
	Practical based on PH02E FBT23		~	✓	\checkmark
PH02EFBT23	Nutritional Biochemistry		✓	✓	\checkmark
PH02EFBT22	(Food Processing Technology)	\checkmark	✓	✓	\checkmark
	Practical based on PH02E FBT21	1			/
PH02EFBT21	Food Processing Technology	√	✓	✓	\checkmark
PH02CFBT27	Practical based on Food Analysis	\checkmark	✓	✓	\checkmark
PH02CFBT26	Entrepreneurship Development		✓	✓	\checkmark
PH02CFBT25	(Food and Nutraceutical Chemistry)	\checkmark	✓	✓	\checkmark
	Practical based on PH02C FBT24	1			/
PH02CFBT24	Food and Nutraceutical Chemistry	✓	✓	✓	✓
PH02CFBT23	(Recombinant DNA Technology)		~	✓	\checkmark
	Practical based on PH02C FBT22				1
PH02CFBT22	Recombinant DNA Technology		✓	 ✓ 	✓
PH02CFBT21	Statistics	✓	✓	✓	✓
PH01EFBT24	(Physiology and Clinical Biochemistry)		\checkmark	✓	\checkmark
<u>1 1101L1 D12J</u>	Practical based on PH01E FBT23				
PH01EFBT22 PH01EFBT23	Physiology and Clinical Biochemistry		✓	 ✓ 	✓
PH01EFBT22	(Food Microbiology)	\checkmark	✓	✓	\checkmark
<u>r nuierdizi</u>	Practical based on PH01E FBT21				
PH01CFBT26 PH01EFBT21	(Cell and Molecular Biology) Food Microbiology	✓	✓	✓	✓
			✓	✓	\checkmark
PH01CFBT25	Cell and Molecular Biology Practical based on PH01C FBT25		×	√	\checkmark
PH01CFBT24	(Basic Biochemistry)		✓	✓	
DUDIODED			\checkmark	\checkmark	\checkmark

	and community care.									
	PSO2 To acquaint the students with the basic knowledge related to Foods and Nutrition Human Development, Textiles and Clothing, Family Resource Management and									
				ource Mana	agement and					
	Extension through theoretical and p.									
	PSO3 To familiarize the students with government programs and schemes related t									
		welfare of family and community. PSO4 To impart field work experience to identify problems and their probable soluti								
	related to community.	identify pr	oblems and	i their prob	able solutions					
	PSO5 To train the students to take up jobs	in nutritic	n ralatad a	toto notion	aland					
	international health and welfare pro		in related s		ai anu					
	PSO6 To acquire skills to undertake syste		indenender	nt research i	in various					
	areas of Home Science.		independer	n researen i	in various					
Courses: Cours	e Outcomes (COs) are available in individ	dual svilat	ous files w	hich can be	accessed by					
	respective Course Name	addi Synax			accessed by					
PH01CGEN21	Communication Skills	✓	\checkmark							
	Fundamentals of Food Sciences &									
PH01CGEN22	Nutrition		\checkmark	\checkmark	\checkmark					
PH01CGEN23	Practical based on PH01CGEN22		\checkmark	✓	✓					
PH01CGEN24	Early Childhood Care & Education		\checkmark	✓	✓					
PH01CGEN25	Practical based on PH01CGEN24		✓	✓	✓					
	Dress Designing & Fashion	/	1		1					
PH01CGEN26	Merchandising	\checkmark	\checkmark	~	v					
	Practical-Garment Construction and	\checkmark	~	✓						
PH01CGEN27	Fashion Illustration	v	v	v						
PH01CGEN28	Community Development –I	\checkmark	\checkmark							
PH01EGEN21	Consumer Information & Redressal	\checkmark	\checkmark	✓						
PH01EGEN22	Fundamentals of Ergonomics	\checkmark	\checkmark	✓	✓					
PH02CGEN21	Statistics	\checkmark	\checkmark	✓	✓					
PH02CGEN22	Practical based on PH02CGEN21	\checkmark	✓	✓	✓					
PH02CGEN23	Nutrition in Health and Diseases		~	✓	✓					
PH02CGEN24	Practical based on PH02CGEN23		~	✓						
PH02CGEN25	Women's Studies	\checkmark	~	✓	✓					
PH02CGEN26	Practical based on PH02CGEN25	\checkmark	~	✓						
PH02CGEN27	Entrepreneurship Development	\checkmark	~	✓						
PH02CGEN28	Practical – Entrepreneurship Experience	\checkmark	\checkmark	\checkmark						
PH02CGEN29	Community Development –II	\checkmark	~	✓	\checkmark					
PH02EGEN21	Historic textiles & Costumes	\checkmark	~	\checkmark	\checkmark					
	Sociological & Psychological aspects of	\checkmark	\checkmark	✓	✓					
PH02EGEN22	Clothing	•	•	•	•					
	Research Methodology & Scientific		\checkmark	✓	\checkmark					
PH03CGEN21	Writing		-							
PH03CGEN22	Practical - Scientific Writing		✓	✓	✓					
PH03CGEN23	Management of Hospitality Institutions	\checkmark	\checkmark	✓	✓					
PH03CGEN24	Practical based on PH03CGEN21	\checkmark	~	✓						
PH03CGEN25	Textile Science	\checkmark	\checkmark	✓	✓					
PH03CGEN26	Practical- Textile Analysis and Design	\checkmark	~	✓	✓					
	Programme Development and	\checkmark	\checkmark	✓						
PH03CGEN27	Extension									
PH03CGEN28	Dissertation	\checkmark	~	✓						
PH03CGEN29	Project	\checkmark	✓	✓						
<u>PH03EGEN21</u>	Community Nutrition	\checkmark	✓	✓						
<u>PH03EGEN22</u>	Food Safety	\checkmark	✓	✓	✓					
PH04CGEN21	Residential & Commercial Interior	\checkmark	\checkmark	\checkmark	✓					

	Designing				
PH04CGEN22	Practical based on PH04CGEN21	✓	✓	✓	\checkmark
PH04CGEN24	Dissertation	✓	✓	✓	✓
PH04CGEN25	Project	✓	✓	✓	\checkmark
PH04CGEN26	Communication Development	✓	✓	✓	
PH04CGEN27	Practical based on PH04CGEN26	✓	✓	✓	
PH04EGEN21	Advanced study in H.D.		✓	✓	\checkmark
PH04EGEN22	Care of the Elderly		✓	✓	\checkmark
Program	MA (Economics)			1	
POs	Economics is one of the oldest subject t governed and determined by behaviour of that of an aggregate behaviour of a nu economic sectors and different economic students to understand, examine and e programmes, economic policies, etc. T organizational, regional, and international conditions.	of an individ mber of die organizati evaluate va The program	dual at a mic ifferent econ ons as well. arious econo mme focuse	ro level on omic indiv The progra omic theories to explai	one hand and idual groups, mme enables es, economic n individual,
PSOs	 PSO1 Interpret and examine various decirrelated to the study of the economic producer, a firm, a market and fact. PSO2 Explain and illustrate various behas studying macroeconomics. PSO3 Recall estimate and compute the variable information using mather PSO4 Establish profound knowledge in seconomics & environmental economics. 	c behaviour ors of produ- viour relate alues of var natical and specific file mics.	r of an indivi uction. ed to aggrega rious econom statistical ec d of econom	dual consur ate units of a nic variables conomics. ics like agri	ner, a nation by s from cultural
	PSO5 Have clarity about the methodolog				
	se Outcomes (COs) are available in indiv	vidual sylla	abus files wl	hich can be	accessed by
	respective Course Name	1		1	
PA01CECO21	Micro Economics	✓	√	\checkmark	
PA01CECO22	Macro Economics				
PA01CECO23	International Economics			✓	
	International Economics				✓
PA01EECO21	Theory of Agricultural Economics	~	✓	✓ ×	✓
PA01EECO21 PA01EECO22	Theory of Agricultural Economics Economics of Environment	✓	✓ ✓		✓ ✓
PA01EECO21	Theory of Agricultural EconomicsEconomics of EnvironmentSocio-Economic Survey Methods	✓	✓ 	✓ ×	✓ ✓ ✓
PA01EECO21 PA01EECO22 PA01EECO23	Theory of Agricultural EconomicsEconomics of EnvironmentSocio-Economic Survey MethodsResearch Methodology and Computer	✓ ✓	✓ ✓	✓ ×	✓ ✓ ✓ ✓ ✓
PA01EECO21 PA01EECO22 PA01EECO23 PA01EECO24	Theory of Agricultural EconomicsEconomics of EnvironmentSocio-Economic Survey MethodsResearch Methodology and ComputerApplication in Economics			✓ ✓ ✓	✓ ✓
PA01EECO21 PA01EECO22 PA01EECO23 PA01EECO24 PA02EECO21	Theory of Agricultural EconomicsEconomics of EnvironmentSocio-Economic Survey MethodsResearch Methodology and ComputerApplication in EconomicsMicro Economics	✓ ✓ ✓	✓ ✓ ✓		✓ ✓
PA01EECO21 PA01EECO22 PA01EECO23 PA01EECO24 PA02CECO21 PA02CECO22	Theory of Agricultural EconomicsEconomics of EnvironmentSocio-Economic Survey MethodsResearch Methodology and ComputerApplication in EconomicsMicro EconomicsMacro Economics			✓ ✓ ✓	✓ ✓ ✓
PA01EECO21 PA01EECO22 PA01EECO23 PA01EECO24 PA02CECO21 PA02CECO23	Theory of Agricultural EconomicsEconomics of EnvironmentSocio-Economic Survey MethodsResearch Methodology and ComputerApplication in EconomicsMicro EconomicsMacro EconomicsInternational Economics	✓ ✓	✓ 		✓ ✓
PA01EECO21 PA01EECO22 PA01EECO23 PA01EECO24 PA02CECO21 PA02CECO23 PA02CECO23 PA02CECO21 PA02CECO21	Theory of Agricultural EconomicsEconomics of EnvironmentSocio-Economic Survey MethodsResearch Methodology and ComputerApplication in EconomicsMicro EconomicsMacro EconomicsInternational EconomicsTheory of Agricultural Economics				✓ ✓ ✓ ✓
PA01EECO21 PA01EECO22 PA01EECO23 PA01EECO24 PA02CECO21 PA02CECO23 PA02CECO21 PA02CECO23 PA02EECO21 PA02EECO21	Theory of Agricultural EconomicsEconomics of EnvironmentSocio-Economic Survey MethodsResearch Methodology and ComputerApplication in EconomicsMicro EconomicsMacro EconomicsInternational EconomicsTheory of Agricultural EconomicsEconomics of Environment	✓ ✓ ✓	✓ ✓ ✓		✓ ✓ ✓
PA01EECO21 PA01EECO22 PA01EECO23 PA01EECO24 PA02CECO21 PA02CECO23 PA02CECO23 PA02CECO21 PA02CECO21	Theory of Agricultural EconomicsEconomics of EnvironmentSocio-Economic Survey MethodsResearch Methodology and ComputerApplication in EconomicsMicro EconomicsMacro EconomicsInternational EconomicsTheory of Agricultural EconomicsEconomics of EnvironmentEconomics of Rural Development	✓ ✓	✓ 		✓ ✓ ✓ ✓
PA01EECO21 PA01EECO22 PA01EECO23 PA01EECO24 PA02CECO21 PA02CECO22 PA02CECO23 PA02EECO21 PA02EECO21 PA02EECO23	Theory of Agricultural EconomicsEconomics of EnvironmentSocio-Economic Survey MethodsResearch Methodology and ComputerApplication in EconomicsMicro EconomicsMacro EconomicsInternational EconomicsTheory of Agricultural EconomicsEconomics of EnvironmentEconomics of Rural DevelopmentResearch Methodology and Computer	✓ ✓ ✓	✓ ✓ ✓		✓ ✓ ✓ ✓
PA01EECO21 PA01EECO22 PA01EECO23 PA01EECO24 PA02CECO21 PA02CECO23 PA02CECO21 PA02CECO23 PA02EECO21 PA02EECO21	Theory of Agricultural EconomicsEconomics of EnvironmentSocio-Economic Survey MethodsResearch Methodology and ComputerApplication in EconomicsMicro EconomicsMacro EconomicsInternational EconomicsTheory of Agricultural EconomicsEconomics of EnvironmentEconomics of Rural DevelopmentResearch Methodology and ComputerApplication in Economics	✓ ✓ ✓	✓ ✓ ✓		
PA01EECO21 PA01EECO22 PA01EECO23 PA01EECO24 PA02CECO21 PA02CECO23 PA02EECO21 PA02EECO22 PA02EECO23 PA02EECO24	Theory of Agricultural EconomicsEconomics of EnvironmentSocio-Economic Survey MethodsResearch Methodology and ComputerApplication in EconomicsMicro EconomicsMacro EconomicsInternational EconomicsTheory of Agricultural EconomicsEconomics of EnvironmentEconomics of Rural DevelopmentResearch Methodology and ComputerApplication in Economics	✓ ✓ ✓	✓ ✓ ✓		
PA01EECO21 PA01EECO22 PA01EECO23 PA01EECO24 PA02CECO21 PA02CECO23 PA02EECO21 PA02EECO21 PA02EECO23 PA02EECO24 PA02EECO21 PA02EECO21 PA02EECO21 PA02EECO22 PA02EECO23	Theory of Agricultural EconomicsEconomics of EnvironmentSocio-Economic Survey MethodsResearch Methodology and ComputerApplication in EconomicsMicro EconomicsMacro EconomicsInternational EconomicsTheory of Agricultural EconomicsEconomics of EnvironmentEconomics of Rural DevelopmentResearch Methodology and ComputerApplication in EconomicsEconomics of Rural DevelopmentResearch Methodology and ComputerApplication in EconomicsEconomics of Development andPlanning	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓		✓ ✓ ✓ ✓ ✓
PA01EECO21 PA01EECO22 PA01EECO23 PA01EECO24 PA02CECO21 PA02CECO23 PA02EECO21 PA02EECO22 PA02EECO23 PA02EECO24 PA02EECO21 PA02EECO22 PA02EECO23 PA02EECO24 PA02EECO23	Theory of Agricultural EconomicsEconomics of EnvironmentSocio-Economic Survey MethodsResearch Methodology and ComputerApplication in EconomicsMicro EconomicsMacro EconomicsInternational EconomicsTheory of Agricultural EconomicsEconomics of EnvironmentEconomics of Rural DevelopmentResearch Methodology and ComputerApplication in EconomicsEconomics of Rural DevelopmentResearch Methodology and ComputerApplication in EconomicsEconomics of Development andPlanningPublic Economics	✓ ✓ ✓	✓ ✓ ✓ ✓		
PA01EECO21 PA01EECO22 PA01EECO23 PA01EECO24 PA02CECO21 PA02CECO23 PA02EECO21 PA02EECO21 PA02EECO23 PA02EECO24 PA02EECO23 PA02EECO23 PA02EECO24 PA02EECO23 PA02EECO24 PA03CECO21 PA03CECO22 PA03CECO23	Theory of Agricultural EconomicsEconomics of EnvironmentSocio-Economic Survey MethodsResearch Methodology and ComputerApplication in EconomicsMicro EconomicsMacro EconomicsInternational EconomicsTheory of Agricultural EconomicsEconomics of EnvironmentEconomics of Rural DevelopmentResearch Methodology and ComputerApplication in EconomicsEconomics of DevelopmentResearch Methodology and ComputerApplication in EconomicsEconomics of Development andPlanningPublic EconomicsQuantitative Economics	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓		✓ ✓ ✓ ✓ ✓
PA01EECO21 PA01EECO22 PA01EECO23 PA01EECO24 PA02CECO21 PA02CECO23 PA02EECO21 PA02EECO22 PA02EECO23 PA02EECO23 PA02EECO23 PA02EECO23 PA02EECO23 PA02EECO23 PA02EECO24 PA03CECO21 PA03CECO21 PA03CECO22 PA03CECO23 PA03CECO21	Theory of Agricultural EconomicsEconomics of EnvironmentSocio-Economic Survey MethodsResearch Methodology and ComputerApplication in EconomicsMicro EconomicsMacro EconomicsInternational EconomicsTheory of Agricultural EconomicsEconomics of EnvironmentEconomics of Rural DevelopmentResearch Methodology and ComputerApplication in EconomicsEconomics of DevelopmentResearch Methodology and ComputerApplication in EconomicsEconomics of Development andPlanningPublic EconomicsProblems of Indian Agriculture	✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓ ✓		
PA01EECO21 PA01EECO22 PA01EECO23 PA01EECO24 PA02CECO21 PA02CECO22 PA02EECO21 PA02EECO21 PA02EECO22 PA02EECO23 PA02EECO24 PA02EECO21 PA02EECO22 PA02EECO23 PA02EECO24 PA03CECO21 PA03CECO21 PA03CECO23 PA03EECO21 PA03EECO21	Theory of Agricultural EconomicsEconomics of EnvironmentSocio-Economic Survey MethodsResearch Methodology and ComputerApplication in EconomicsMicro EconomicsMacro EconomicsInternational EconomicsTheory of Agricultural EconomicsEconomics of EnvironmentEconomics of Rural DevelopmentResearch Methodology and ComputerApplication in EconomicsEconomics of DevelopmentResearch Methodology and ComputerApplication in EconomicsEconomics of Development andPlanningPublic EconomicsQuantitative EconomicsProblems of Indian AgricultureEnvironmental Problems of India				
PA01EECO21 PA01EECO22 PA01EECO23 PA01EECO24 PA02CECO21 PA02CECO23 PA02EECO21 PA02EECO22 PA02EECO23 PA02EECO23 PA02EECO23 PA02EECO23 PA02EECO23 PA02EECO23 PA02EECO24 PA03CECO21 PA03CECO21 PA03CECO22 PA03CECO23 PA03CECO21	Theory of Agricultural EconomicsEconomics of EnvironmentSocio-Economic Survey MethodsResearch Methodology and ComputerApplication in EconomicsMicro EconomicsMacro EconomicsInternational EconomicsTheory of Agricultural EconomicsEconomics of EnvironmentEconomics of Rural DevelopmentResearch Methodology and ComputerApplication in EconomicsEconomics of DevelopmentResearch Methodology and ComputerApplication in EconomicsEconomics of Development andPlanningPublic EconomicsProblems of Indian Agriculture	✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓ ✓		

	1		1	1	
	Application in Economics				
	Economics of Development and		✓	\checkmark	√
PA04CECO21	Planning			-	
PA04CECO22	Public Economics	\checkmark	\checkmark	\checkmark	
PA04CECO23	Quantitative Economics			\checkmark	✓
PA04EECO21	Human Development	✓	\checkmark	\checkmark	✓
PA04EECO22	Basics of Computers for Economics				✓
PA04EECO23	Environmental Protection in India	✓	✓	✓	
	Fundamentals of Research			✓	✓
PA04EECO24	Methodology in Economics			v	v
Program	MA (English)				•
POs	The very title of the programme "Maste	r of Arts" i	s an indicati	on that the	students who
	join this full time Degree Course Prog				
	subject with ample knowledge of every	aspect rela	ted to their s	subject. Th	e programme
	outcome of this two year and four semes				
	the masters of their discipline and subject		1 0		
PSOs	PSO1 Knowledge of literature written in		the different	countries a	nd continents
	of the world.	U			
	PSO2 Knowledge of Literary Criticism a	and all the l	iterary, critic	al and cultu	ral theories
	and isms which are discussed acro				
	PSO3 Awareness of how to approach an	d compare	other forms of	of arts like c	inema with
	literature and how a literary text is				
	cinematic adaptation.		1		C
Courses: Cours	e Outcomes (COs) are available in indiv	idual sylla	bus files whi	ich can be a	accessed by
	respective Course Name	J			
0	History of English Literature (1550 -				\checkmark
PA01CENG21	1798)				
	History of English Literature (1798 -				\checkmark
PA01CENG22	1914)				
	Postcolonial Literatures of the Indian	✓	✓	✓	✓
PA01CENG23	Sub-Continent				
PA01EENG21	Canadian Fiction				✓
	Progressive Literature and People's	✓	✓	✓	✓
PA01EENG22	Theatre in India				
	History of English Literature (1914 to				 ✓
PA02CENG21	the Present)				
PA02CENG22	Arabic and Middle Eastern Literatures				✓
PA02CENG23	Literary Criticism			✓	✓
PA02EENG21	Russian Fiction				✓
PA02EENG22	Partition Narratives			✓	\checkmark
PA03CENG21	Literary Form: Epic			-	✓ ×
PA03CENG22	Literary Theory				✓ ✓
I AUJULINUZZ	Persecuted Writers and Threatened				
PA03CENG23	Literature Around the World				
PA03CENG25 PA03EENG21				✓	✓
I AUJEEINU/1	New Literatures in English	✓	✓	v √	▼ ✓
DAOSEENICOO	Indian Literatures in English Translation	v	*	*	Ť
PA03EENG22		✓	\checkmark	✓	✓
PA04CENG21	Indian Argumentative Literature	v	v	v	✓ ✓
PA04CENG22	German Novel				
PA04CENG23	Critical and Cultural Theory				 ✓
PA04EENG21	Literature and Myth			√	√
PA04EENG22	Cinematic Adaptations of Literature		✓	✓	✓
Program	MA (Gujarati)				

DO		C A stall is			1 1			
POs	The very title of the programme "Master of Arts" is an indication that the students who							
	join this full time Degree Course Programme are supposed to be the master of their							
	subject with ample knowledge of every aspect related to their subject. The programme outcome of this two year and four semester degree course programme is to make students							
	-	-	course progr	annine is to ii	lake students			
DCO	the masters of their discipline and subject. PSO1 The study of the M.A. Gujarati program will give perception of life open							
PSOs								
	imagination to previously undisco	vered asped	ct of the outs	ide world, an	d ennance			
	student's capacity to empathize.	to loorn v	alua of litara	tura to interr	rot			
	PSO2 It will give opportunity to student decoding emotions and aesthetic e							
	better place.	lements of		making the	world a			
	PSO3 It will enhance student's ability to	communic	ata with othe	are lead to a	wider scope			
	of the own comprehension and know			15, lead to a	white scope			
Courses: Cours	e Outcomes (COs) are available in indiv		bus files wh	uich can ha a	ccessed by			
	respective Course Name	iuuai syna	ibus mes wi	iich can be a	ccesseu by			
PA01CGUJ21	Avarcin Gujarati Kavita no Vikas		✓					
PA01CGUJ22	Adhunik Gujarati Sahitya		✓ ×					
PA01CGUJ23	Bhartiya Sahitya Mimansha		· · · · · · · · · · · · · · · · · · ·	✓				
PA01EGUJ21	Madhayakalin Gujarati Sahitya		· · · · · · · · · · · · · · · · · · ·					
PA01EGUJ22	Gujarat : Lok Vidya, Lok Sahitya	✓	· · · · · · · · · · · · · · · · · · ·	+ +				
11101LOUJ22	Avarchin Gujarati Kavita - Swarup		· · · · · · · · · · · · · · · · · · ·					
PA02CGUJ21	Abhyaas		-					
PA02CGUJ22	Anu Adhunik Gujarati Sahitya		✓					
PA02CGUJ23	Prashatya Sahitya Mimansha			✓	✓			
PA02EGUJ21	Bhartiya Sahitya		✓	✓				
PA02EGUJ22	Madhyakalin Gujarati Sarjak- Nakar		· ✓	-				
PA03CGUJ21	Arvachin Gujarati Gadya Swarup		· · · · · · · · · · · · · · · · · · ·					
PA03CGUJ22	Gujarati Vivechan vichar		· · · · · · · · · · · · · · · · · · ·					
PA03CGUJ23	Gujarati Wiveenan vienar Gujarati Bhasha Swarup		· · · · · · · · · · · · · · · · · · ·					
PA03EGUJ21	Vishva Sahitya		-		✓			
<u>I AUJLOUJ21</u>	Sahitya Swarupno Abhyas :		✓		•			
PA03EGUJ22	khandkavya							
PA04CGUJ21	Arvachin Gujarati Gadya		✓					
PA04CGUJ22	Sarjak Abhyas: R.V.Pathak		· ✓					
PA04CGUJ23	Bhashavignan ane shailivignan		· ✓					
PA04EGUJ21	Tulnatmak Sahitya		· ·	✓				
PA04EGUJ22	Art of Film Transformation		· ·	· ·	✓			
Program	MA (Hindi)			<u> </u>	•			
POs	PO1 Through Master of Arts degree pro	ogramma 1	oornor undo	retande cogia	l phonomona			
105	which effects, changing trends, lear							
	subject with deep and clear visio	•						
	learner develops the capacity and at							
	PO2 Knowledge of Hindi language with literary terms develops suitable environment to learner to be up to the mark as Hindi is emerging as a medium of communication at							
	large, in present global era.		ing us a mea		anioution ut			
PSOs	PSO1 Learning of Hindi language as well as Hindi literature with other related areas.							
1005	PSOI Learning of Hindi language as well as Hindi literature with other related areas. PSO2 Understanding human, nature, society, culture, history and related terms and							
	references etc., learner develops a certain vision to understand things by studying							
	Hindi language and literature.				,			
	PSO3 Knowledge of various areas	of Hindi	literature li	ke ADIKA	L, PURVA			
	MADHYAKAL (BHAKTIKAL)				ITIKAL)and			
	ADHUNIKKAL (GADYAKAL);				,			
	to understand subject); ancient, me							
	different forms like UPANYAS,							
			,		,			

		.1 .1 1	. 1	1	1 1			
	DRAMA and DRAMATICS and	theoretical	studies; tra	nslation with	h its methods			
	and types.	.1 1 0						
	PSO4 Knowledge and understanding of							
	study of functional Hindi (official							
	tools, Hindi journalism, media stud							
	PSO5 Knowledge of Hindi language in c							
	se Outcomes (COs) are available in indiv	idual sylla	abus files w	hich can be	e accessed by			
	respective Course Name	1	1		1			
PA01CHIN21	Bhaktikavya			~				
	Natak Evm any Vidhe (Nibandh evm				\checkmark			
PA01CHIN22	Jivni)							
PA01CHIN23	Bhasavignan	✓	✓	✓	✓			
PA01EHIN21	Natak Sidhant athva	\checkmark	✓	\checkmark	\checkmark			
	Dhrashy-Shavy Madhyam Lekhan :	\checkmark	\checkmark	\checkmark	\checkmark			
PA01EHIN22	Etihas							
PA01EHIN23	Lok Sahity athva	✓	\checkmark	✓	✓			
PA01EHIN24	Anuvad Sithant, Swarup, Shetra							
PA02CHIN21	Ritikavy		✓	✓				
PA02CHIN22	Kathasahitya			✓				
PA02CHIN23	Hindi Bhasha				✓			
PA02EHIN21	Hindij Rang Shilp Evm Natay Kruti			✓				
	Dhrasya Shavya Madhyam Lekhan :				✓			
PA02EHIN22	Sanchar Madhyam aur T.V.							
PA02EHIN23	Lok Vidhae			✓				
PA02EHIN24	Anuvad : Prakar Samsae				✓			
PA03CHIN21	Bhartiya Kavyashastra aur Aalochana			✓				
1110501111121	Hindi Sahitya ka Etihas (Aadhunikkal							
PA03CHIN22	ke Purva)							
PA03CHIN23	Chayavadi Kavya			✓				
PA03EHIN21	Prayojanmulak Kamkaje Hindi			•	✓			
	• •				•			
PA03EHIN22	Bhartiya Sahitya : Sidhantk Pax Media Lekhan aur Anuvad			•	✓			
PA03EHIN23					•			
PA03EHIN24	Bhartiy Sahity : Sarjnatmak Pax			✓				
PA04CHIN21	Pachyatkavyashastra : Sidhant aur Vad				✓			
PA04CHIN22	Adhunik Hindi Sahity ka Etihas			✓				
PA04CHIN23	Chayavadotar Kavya			✓				
<u>PA04EHIN21</u>	Sahitya aur Smajshastra			✓				
PA04EHIN22	Sahitya aur Pryavaran			✓				
Program	MA (History)							
POs	PO1 Familiarisation with the general world history							
	PO2 In-depth understanding of Indian history and offers a specialisation in modern							
	Indian history with special emphasis	on the hist	ory of mode	ern Gujarat.				
PSOs	PSO1 Familiarisation with the general history of ancient world							
	PSO2 Sensitisation to major political developments ushered far reaching economic and							
	social developments in modern world							
	PSO3 General acquaintance with the and	PSO3 General acquaintance with the ancient Indian history and its bearings on modern						
	Indian society and economy							
	PSO4 Prepare students for their specialisa							
Courses: Cours	se Outcomes (COs) are available in indiv	idual sylla	abus files w	hich can be	accessed by			
	respective Course Name	-						
Ŭ	Ancient World				\checkmark			
PAUICHIS21	Therefile world							
PA01CHIS21 PA01CHIS22	History of Modern World: 1870–1945			✓				

	1757–1884			
	Indian Society in Transition: 1800–		\checkmark	
PA01EHIS21	1920			
	Social and Economic History of		\checkmark	
PA01EHIS22	Ancient India			
PA02CHIS21	History of World: 1945–2000			\checkmark
	India's Struggle for Freedom: 1885–		✓	
PA02CHIS22	1947			
	Philosophy of History and			\checkmark
PA02CHIS23	Historiography: the Western Tradition			
	Constitutional and Administrative		\checkmark	
PA02EHIS21	History of India: 1858–1950			
	Economic History of Colonial India:		\checkmark	
PA02EHIS22	1757–1947			
	Social and Economic History of	√		
PA03CHIS21	Mediaeval Gujarat: 942–1818			
	Peasant and Tribal Movements in	✓	\checkmark	
PA03CHIS22	Colonial India 1757–1947			
	Philosophy of History and		✓	
PA03CHIS23	Historiography: Indian Tradition			
PA03EHIS21	Tourism in India		\checkmark	
	Agrarian and Village History of	\checkmark	\checkmark	
PA03EHIS22	Colonial India: 1757–1947			
PA04CHIS21	India since Independence: 1947–2000		\checkmark	
	Transition to Modernity: Gujarat:	\checkmark		
PA04CHIS22	1796–1909			
	Constructive Activities in Gujarat:	\checkmark		
PA04CHIS23	1914–2000			
	Interdisciplinary 1: Political History of	✓		
PA04EHIS21	Gujarat: 1914–1960			
	Interdisciplinary 2: Education in		\checkmark	
PA04EHIS22	Colonial India: 1813–1947			
Program	MLib (Library & Information Science)			
POs				
PSOs				
	se Outcomes (COs) are available in individual	l syllabus files wh	nich can b	e accessed by
	respective Course Name			
PA01CLIB21	Information & Communication			✓
	Management of Library & Information		\checkmark	\checkmark
PA01CLIB22	Systems & Centre			,
	Information Analysis, Repackaging &		✓	✓
PA01CLIB23	Consolidation (Theory)			
	Information Analysis, Repackaging &		✓	✓
PA01CLIB24	Consolidation (Practical)			
PA01ELIB21	Academic Library System			✓
	Information Storage & Retrieval		\checkmark	✓
PA02CLIB21	(Theory)			,
	Information Storage & Retrieval		\checkmark	~
PA02CLIB22	(Practical)			
	Research Methodology & Statistical			~
PA02CLIB23	Techniques			
PA02CLIB24	Dissertation / Digitization / Project Information Technology (Theory)		✓	✓
PA02ELIB21		1		

DAO2EL ID22	Information Tasks along (Drastical)	1			
PA02ELIB22	Information Technology (Practical)				v
Program	BLib (Library & Information Science)				
POs					
PSOs		<u> </u>			
	Knowledge Organization, Information			~	V
	Processing & Retrieval (Library				
UA01CLIB21	Classification Theory)				1
	Knowledge Organization, Information			\checkmark	V
	Processing & Retrieval (Library				
UA01CLIB22	Cataloguing and Subject Indexing – Theory)				
UAUICLID22				✓	
	Knowledge Organization, Information Processing & Retrieval (Library			v	v
UA01CLIB23	Classification – Practical)				
UAUICLID25	Merged Knowledge Organization,			· · ·	
	Information Processing & Retrieval			·	·
	(Library Cataloguing and Subject				
UA01CLIB24	Indexing – Practical)				
<u>UNUTCLID2</u> +	Foundations of Library and Information				✓
UA01ELIB21	Science				-
<u>UTIOILLID21</u>	Library Administration & Organisation				✓
UA02CLIB21	(Theory)				
UA02CLIB22	Computer Application – Theory				\checkmark
UA02CLIB23	Computer Application – Practical				✓
<u>errozeninzz</u>	Reference and Information Sources –			✓	\checkmark
UA02CLIB24	Theory				
CHOLOBIDE	Reference and Information Sources –			✓	✓
UA02CLIB25	Practical				
	Reference & Information Services			 ✓ 	✓
UA02ELIB21	(Theory)				
	Reference & Information Services			✓	√
UA02ELIB22	Practical				
Program	MA (Political Science)				
POs	The very title of the programme "Master	of Arts" is a	in indication	n that the stu	idents who
	join this full time Degree Course Program	nme are sup	posed to be	the master of	of their
	subject with ample knowledge of every a	spect related	d to their su	bject. The p	orogramme
	outcome of this two year and four semest		ourse progra	amme is to n	nake students
	the masters of their discipline and subject				
PSOs	PSO1 Acquaintance with the knowledge				Politics.
	PSO2 Knowledge of the process of Publi				
	PSO3 Strengthen their knowledge about			of India.	
	PSO4 Analytical skill about the electoral				
	se Outcomes (COs) are available in indiv	vidual sylla	bus files w	hich can be	accessed by
clicking on the	respective Course Name			· · · · ·	
	Social and Political Movements in			\checkmark	
PA01CPOS21	Contemporary India				,
D L O L C D C C C C	Globalization and the Post –Cold-war-				\checkmark
PA01CPOS22	World Order Studies				
	Electoral Politics and National Building			✓	
D L O L C D C C C C	Process in India				
PA01CPOS23			,		
D L O L C D C C C C	Emerging Trends in Gujarat Since 1960		\checkmark		
		1		1	
PA01CPOS24 PA01EPOS21	Indian Political Economy			\checkmark	

PA02CPOS21	Dynamics of Politics in Chievet State		✓		
<u>FA02CF0521</u>	Dynamics of Politics in Gujarat State Governance in India : Issues of Ethics		•	✓	
	and Excellence			v	
PA02CPOS22	South Asia: Issues of Terrorism,				
	· · · · · · · · · · · · · · · · · · ·			×	v
	Development and Co-existence				
PA02CPOS23	Research Methods in Social Science			✓	
	Research Methods in Social Science			¥	¥
PA02CPOS24				✓	
	Dr. Ambedkar: Life and Political			~	
PA02EPOS21	Thoughts			✓	
	Contemporary International Relations:			~	v
PA03CPOS21	Problems and Prospects				
	Dynamics of Development in Gujarat:		\checkmark		
PA03CPOS22	Issues of Ecology and Social Justice	,			
PA03CPOS23	Local Self Government in India	\checkmark	✓	✓	
PA03CPOS24	Indian Foreign Policy			✓	✓
PA03EPOS21	Political Sociology: The Indian Context			✓	
PA04CPOS21	Human Rights and Social Justice			✓	
PA04CPOS22	Political Parties in India			✓	
PA04CPOS23	Constitutional Law of India			\checkmark	
PA04CPOS24	Indian Administration			\checkmark	
PA04EPOS21	Environmental Problems in India			~	
			•		
Program	MA (Psychology)				
	MA (Psychology)The very title of the programme "Master of join this full time Degree Course Program subject with ample knowledge of every as outcome of this two year and four semester	me are sup pect relate	pposed to be d to their su	the master of the the part of the	of their programme
Program POs	The very title of the programme "Master of join this full time Degree Course Program subject with ample knowledge of every as outcome of this two year and four semester the masters of their discipline and subject	me are sup pect relate er degree c	pposed to be d to their su ourse progra	the master of the the master of the master of the part of the part of the part of the	of their programme nake students
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	Development of Organizational				\checkmark
PA02EPSY22	behaviour				
PA02EPSY23	Developmental Psychology				✓
<u>PA02EPSY24</u>	Clinical techniques & psychotherapy				✓
PA02EPSY25	Human Resource Development			\checkmark	
PA02EPSY26	Essential Concept of Social Psychology			\checkmark	
PA03CPSY21	Testing in Psychology				✓
PA03CPSY22	Indian Psychology			✓	
PA03CPSY23	Fundamental Social Psychology			✓	
PA03EPSY21	Health Psychology				✓
PA03EPSY22	Consumer behavior Psychology			√	✓
PA03EPSY23	Psychology of Criminal behaviour			✓	✓
PA03EPSY24	Psychology of Rehabilitation			√	✓
PA03EPSY25	Stress management in Organizations			✓	✓
PA03EPSY26	Psychology and Sport				\checkmark
PA04CPSY21	Practical in Psychology				\checkmark
PA04CPSY22	Theories of Social Psychology			✓	
<u>I A04CI 5122</u>	Guidance and Counseling in Education			· ·	✓
PA04CPSY23	Psychology				· · ·
PA04EPSY21	Environmental psychology			✓	✓
PA04EPSY22	Human Resource Management			✓ ✓	✓ ✓
	Cognitive Psychology			•	✓ ✓
PA04EPSY23					✓ ✓
PA04EPSY24	Psychology of Personality				•
	Growth and theories of organizational				v
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PA04EPSY25	Psychology				1
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PA04EPSY26 Program POs	 Essential Psychology MA (Sanskrit) PO1 Familiarization with Indian Philosop Bauddha Philosophy. PO2 Knowledge of Sanskrit grammar the Patanjalamahabhashya. PO3 Knowledge of sahityashastra that in Ramayana of Valmiki and Mahabhar PO4 Familiarization with the work of mo PSO1 Knowledge of Indian Philosophy for Philosophy as explained in Sarvada PSO2 Understanding of Siddhantakaumu paspashahnika. PSO3 Knowledge and understanding of N 	at includes Includes N ata. dern Sansk ocusing Sh irshansangi di &Patanj Natyashastr	s Acha-Sand atayashastra <u>rrit poet ance</u> ankarabhash aha. alamahabhas a particularly	hi and pasp of Bharata <u>e either or re</u> ya and Jain shya particu y of Bharata	anta, Jain and bashahnika of a. Indian epic espectively. and Bauddha larly
PA04EPSY26 Program POs	 Essential Psychology MA (Sanskrit) PO1 Familiarization with Indian Philosop Bauddha Philosophy. PO2 Knowledge of Sanskrit grammar the Patanjalamahabhashya. PO3 Knowledge of sahityashastra that in Ramayana of Valmiki and Mahabhar PO4 Familiarization with the work of monopolity of Familiarization with the work of monopolity of Philosophy as explained in Sarvada PSO2 Understanding of Siddhantakaumu paspashahnika. PSO3 Knowledge and understanding of N PSO4 Study of Itihas and Puranas focusing 	at includes Includes N ata. dern Sansk ocusing Sh rshansangi di &Patanj Vatyashastr ng Ramaya	s Acha-Sand atayashastra <u>rit poet ance</u> ankarabhash aha. alamahabhas a particularly na and Maha	hi and pasp of Bharata <u>e either or re</u> ya and Jain shya particu y of Bharata	anta, Jain and bashahnika of a. Indian epic espectively. and Bauddha larly
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PA04EPSY26 Program POs PSOs PSOs	 Essential Psychology MA (Sanskrit) PO1 Familiarization with Indian Philosop Bauddha Philosophy. PO2 Knowledge of Sanskrit grammar the Patanjalamahabhashya. PO3 Knowledge of sahityashastra that in Ramayana of Valmiki and Mahabhar PO4 Familiarization with the work of monopolic terms of the second se	at includes N ata. <u>dern Sansk</u> ocusing Sh rshansangr di &Patanj Vatyashastr ng Ramaya Shishupal odern Sansl	s Acha-Sand atayashastra <u>crit poet ance</u> ankarabhash aha. alamahabhas a particularly na and Maha adham. krit poets	hi and pasp of Bharata <u>e either or re</u> ya and Jain shya particu y of Bharata bharata.	anta, Jain and bashahnika of a Indian epic espectively. and Bauddha larly a.
PA04EPSY26 Program POs PSOs PSOs	 Essential Psychology MA (Sanskrit) PO1 Familiarization with Indian Philosop Bauddha Philosophy. PO2 Knowledge of Sanskrit grammar the Patanjalamahabhashya. PO3 Knowledge of sahityashastra that in Ramayana of Valmiki and Mahabhar PO4 Familiarization with the work of monopoly of Familiarization with the work of monopoly of the Philosophy as explained in Sarvada PSO2 Understanding of Siddhantakaumu paspashahnika. PSO3 Knowledge and understanding of N PSO4 Study of Itihas and Puranas focusing PSO5 Understanding of ratarjuniyam and PSO6 Appraisal of the contribution of monopole Outcomes (COs) are available in indiverses the providement of the providem	at includes N ata. <u>dern Sansk</u> ocusing Sh rshansangr di &Patanj Vatyashastr ng Ramaya Shishupal odern Sansl	s Acha-Sand atayashastra <u>crit poet ance</u> ankarabhash aha. alamahabhas a particularly na and Maha adham. krit poets	hi and pasp of Bharata <u>e either or re</u> ya and Jain shya particu y of Bharata bharata.	anta, Jain and bashahnika of a Indian epic espectively. and Bauddha larly a.
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PA04EPSY26 Program POs PSOs PSOs	 Essential Psychology MA (Sanskrit) PO1 Familiarization with Indian Philosop Bauddha Philosophy. PO2 Knowledge of Sanskrit grammar th Patanjalamahabhashya. PO3 Knowledge of sahityashastra that i Ramayana of Valmiki and Mahabhar PO4 Familiarization with the work of mo PSO1 Knowledge of Indian Philosophy f Philosophy as explained in Sarvada PSO2 Understanding of Siddhantakaumu paspashahnika. PSO3 Knowledge and understanding of N PSO4 Study of Itihas and Puranas focusin PSO5 Understanding of ratarjuniyam and PSO6 Appraisal of the contribution of more Pottomes (COs) are available in indiverse Indian Philosophy: Shankarabhashya of Shankaracharya (Adhyaya-I, Selected Sutras) & Jain-Bauddha Darshana (of 	at includes N ata. <u>dern Sansk</u> ocusing Sh rshansangr di &Patanj Vatyashastr ng Ramaya Shishupal odern Sansl	s Acha-Sand atayashastra <u>crit poet ance</u> ankarabhash aha. alamahabhas a particularly na and Maha adham. krit poets	hi and pasp of Bharata <u>e either or re</u> ya and Jain shya particu y of Bharata bharata.	anta, Jain and bashahnika of a Indian epic espectively. and Bauddha larly a.
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PA04EPSY26 Program POs PSOs PSOs Courses: Cours clicking on the p PA01CSAN21	 Essential Psychology MA (Sanskrit) PO1 Familiarization with Indian Philosop Bauddha Philosophy. PO2 Knowledge of Sanskrit grammar the Patanjalamahabhashya. PO3 Knowledge of sahityashastra that Ramayana of Valmiki and Mahabhar PO4 Familiarization with the work of mo PSO1 Knowledge of Indian Philosophy fee Philosophy as explained in Sarvada PSO2 Understanding of Siddhantakaumu paspashahnika. PSO3 Knowledge and understanding of N PSO4 Study of Itihas and Puranas focusin PSO5 Understanding of ratarjuniyam and PSO6 Appraisal of the contribution of most e Outcomes (COs) are available in indiverse (COs) are available in indiverse Stankaracharya (Adhyaya-I, Selected Sutras) & Jain-Bauddha Darshana (of Sarvadarshanasangraha) Vyakarana: Siddhantakaumudi of Bhattojidikshita (Acha-Sandhi 	at includes N ata. <u>dern Sansk</u> ocusing Sh rshansangr di &Patanj Vatyashastr ng Ramaya Shishupal odern Sansl	s Acha-Sand atayashastra <u>crit poet ance</u> ankarabhash aha. alamahabhas a particularly na and Maha adham. krit poets	hi and pasp of Bharata <u>e either or re</u> ya and Jain shya particu y of Bharata bharata.	anta, Jain and bashahnika of a Indian epic espectively. and Bauddha larly a.
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PA01CSAN23	Sahityashastra: Natyashastra of Bharata (Adyhaya 1, 2 & 6)	\checkmark
PA01ESAN21	Itihasa-Purana: Ramayana of Valmiki (Ayodhyakanda, Sarga-1-49)	✓
	Itihasa-Purana: Mahabharata of	✓
PA01ESAN22	Vedavyasa (Mokshadharma-Parva, Selected Adhyayas) & Matsya Purana (Selected Adhyayas)	·
PA01ESAN24	Mahakavya: Kiratarjuniyam of Bharavi (Sarga-1) & Shishupalavadham of Magha (Sarga-1)	✓
PA02CSAN21	Modern Sanskrit Poets (Selected)	✓
PA02CSAN22	Indian Philosophy: Shankarabhashya of Shankaracharya Adhyaya-2 (Omit Bauddha Khandana) & Vivekachudamani of Shankara	✓
PA02CSAN23	Vyakarana: Siddhantakaumudi of Bhattojidikshita (Hal-sandhi, Samasa) & Paniniyashiksha	✓
PA02ESAN21	Vedanga: Nirukta of Yaska (Adhyaya- 1, 2 & 7)	✓
PA02ESAN22	Sahityashastra:Dasharupaka (Prakasha- 1, 2 & 3) & Kavyamimamsa (Adhyaya- 1 to 5)	✓
PA02ESAN23	Vagishvarikanthasutram –Harshadev Madhav	√
PA02ESAN24	Prose: Kadambari of Banabhatta (Mahashvetavrutanta) & & Harshacharitam of Banabhatta (Pancham Uchchhvas)	✓
PA03CSAN21	Prose: Vasavaddatta of Subandhu & Shivarajavijaya of Ambikadatta Vyasa	×
PA03CSAN22	Vedanta: Anubhashya of Vallabhacharya, Adhyaya-1 (Selected Sutras) & Shribhashya of Ramanujacharya (1.1.1, Para- 1 To 44)	×
PA03CSAN23	Veda: Rigveda (Selected Suktas), Yajurveda (Shivasankalpa Suktam) & Atharvaveda (Selected Suktas)	✓
PA03ESAN21	Vyakarana: Vakyapadiya of Bhartruhari (Brahmakanda) & Rigveda Pratishakhya: Terminology	✓
PA03ESAN22	Drama: Abhijnanashakuntalam of Kalidasa	×
PA03ESAN23	Drama: Vanisamharam of Bhatta Narayan	✓
PA03ESAN24	Sahityashastra: Dhvanyaloka of Anandavardhana (Udyota- 1) & Vakroktijivitam of Kuntaka (Unmesha- 1)	✓
PA04CSAN21	Sahityashastra: Sahityadarpana (Parichchheda- 1, 2 & 3) of Vishvanatha	✓

	Vedanta: Anubhashhya of			✓					
	Vallabhacharya- Adhyaya-2 (Sele	cted							
PA04CSAN22	Sutras) & Shribhashya of								
1110100111122	Ramanujacharya (1.1.1, Para- 45 7	Го							
	100)								
		1) &		✓					
	Nyaya: Nyayabhashya (Adhyaya-	1) &		×					
PA04CSAN23	Nyayasiddhantamuktavali								
	(Anumankhand)								
	Unseen: Essay, Translation (Sansk	crit To	\checkmark	\checkmark					
PA04ESAN21	Gujarati & Gujarati To Sanskrit),								
	Question From Sanskrit Paragraph	1							
	Ethics: Yajnavalkyasmruti (Vyava			✓					
PA04ESAN22	Adhyaya) & Arthasangraha of								
111042011122	Laugakshibhaskara (Vidhiparyanta	(m)							
	Khandakavya: Meghadutam			✓					
PA01CSAN23	(Purvamegha) of Kalidas, Vasantv	vijay,							
	Abhisara (Ravindranath Tagore)								
Program	MA (Sociology)								
POs	PO1 To enhance the logical and	l analytical skill	to understar	nd the soci	al issues and				
	problems. To contribute su								
	development. Provide basic			•					
	knowledge of Sociology for		licoreticar as	wen us n	lethodological				
			ailitize and a	malormont	onnortunition				
	PO2 This program aims to enhance	the skins, capa	binnes and e	mpioyment	opportunities				
	of Students								
	PO3 It is designed to provide adva		l knowledge	perspectiv	es and skill to				
	wide cross- sections of the learners								
	PO4 To make students rational, lo	gical and critical	and to develo	op their ana	lytical skill of				
	the social issues and events								
	PO5 To enhance the Scientific kr	nowledge and atti	tude about th	e societv					
	PO6 To develop in-built the car				ffectively and				
	use of sociological knowledg								
	PO7 To provide theoretical pers			ode of Soc	vial Research				
	Rural Society in India, So								
	Sociology of Tourism, Gender and Society, Criminology, Indian Diaspora								
			PO8 The major aim is to provide opportunities to the students going beyond the						
	PO8 The major aim is to prov	ide opportunities		dents going	g beyond the				
	PO8 The major aim is to prov boundaries of their own of	ide opportunities discipline and the	nink over tl	lents going ne interdis	g beyond the ciplinary and				
	PO8 The major aim is to prov	ide opportunities discipline and the	nink over tl	lents going ne interdis	g beyond the ciplinary and				
	PO8 The major aim is to prov boundaries of their own of	ide opportunities discipline and the students have c	nink over tl	lents going ne interdis	g beyond the ciplinary and				
PSOs	PO8 The major aim is to prov boundaries of their own of multidisciplinary approach electives as per his or her Ch	ide opportunities discipline and the students have considered	nink over the hoice to sel	dents going ne interdis lect differe	g beyond the ciplinary and ent types of				
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PSOs	PO8 The major aim is to prov boundaries of their own of multidisciplinary approach electives as per his or her Ch PSO1 The program seeks to intro perspectives of sociology	ide opportunities discipline and the students have considered noice. oduce students to in such a way the	hink over the hoice to self the major contact even those	dents going ne interdis lect differe oncepts of se who com	g beyond the ciplinary and ent types of sociology and ne from other				
PSOs	PO8 The major aim is to prov boundaries of their own of multidisciplinary approach electives as per his or her Ch PSO1 The program seeks to intro perspectives of sociology disciplines and without an	ide opportunities discipline and the students have considered oduce students to in such a way the ny previous expo	hink over the hoice to self the major contact even those	dents going ne interdis lect differe oncepts of se who com	g beyond the ciplinary and ent types of sociology and ne from other				
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PSOs	 PO8 The major aim is to provide the boundaries of their own of multidisciplinary approach electives as per his or her Ch PSO1 The program seeks to introperspectives of sociology disciplines and without an interest in the subject and f PSO2 The program would enable interpret all aspects of h individuals as well as the 	ide opportunities discipline and the students have considered oduce students to in such a way the ny previous expo- collow it. le the students to uman social beh- social dynamics	the major contact even those the major contact even those posure to soci o understance naviours include of small groups	dents going ne interdis lect differe oncepts of s we who com ology coul d, critically uding the	g beyond the ciplinary and ent types of sociology and ne from other d develop an v analyse and behaviour of				
PSOs	 PO8 The major aim is to provide boundaries of their own of multidisciplinary approach electives as per his or her Children PSO1 The program seeks to introperspectives of sociology disciplines and without an interest in the subject and for PSO2 The program would enabe interpret all aspects of her program would enabe interpret all aspects of her program seeks of her program would enabe interpret all aspects of her program seeks of her program seeks of her program seeks of her program seeks of her program would enabe interpret all aspects of her program seeks of her program seeks of her program seeks to her program seeks	ide opportunities discipline and the students have considered oduce students to in such a way the ny previous expo- collow it. le the students to uman social beh- social dynamics	the major contact even those the major contact even those posure to soci o understance naviours include of small groups	dents going ne interdis lect differe oncepts of s we who com ology coul d, critically uding the	g beyond the ciplinary and ent types of sociology and ne from other d develop an analyse and behaviour of				
PSOs	 PO8 The major aim is to provide the boundaries of their own of multidisciplinary approach electives as per his or her Ch PSO1 The program seeks to introperspectives of sociology disciplines and without an interest in the subject and f PSO2 The program would enable interpret all aspects of h individuals as well as the 	ide opportunities discipline and the students have considered oduce students to in such a way the ny previous expo- collow it. le the students to social dynamics and entire societies	the major control of small groups	dents going ne interdis lect differe oncepts of s who com ology coul d, critically uding the oups, large	g beyond the ciplinary and ent types of sociology and ne from other d develop an v analyse and behaviour of organization,				
PSOs	 PO8 The major aim is to provide boundaries of their own of multidisciplinary approach electives as per his or her Ch PSO1 The program seeks to introperspectives of sociology disciplines and without an interest in the subject and f PSO2 The program would enab interpret all aspects of h individuals as well as the communication institution PSO3 The program would familia 	ide opportunities discipline and the students have considered outce students to in such a way the ny previous expo- follow it. le the students the social dynamics and entire societies rize students the students th	the major control of small groups at even those to social of small groups about fundamental fundamenta	dents going ne interdis lect differe oncepts of se who com ology coul d, critically uding the oups, large	g beyond the ciplinary and ent types of sociology and ne from other d develop an analyse and behaviour of organization, lems of social				
PSOs	 PO8 The major aim is to provide the boundaries of their own of multidisciplinary approach electives as per his or her Cher PSO1 The program seeks to introperspectives of sociology disciplines and without an interest in the subject and fer PSO2 The program would enable interpret all aspects of h individuals as well as the communication institution PSO3 The program would familia life at local, regional and the provide the program would familia and the program would family and the program would fam	ide opportunities discipline and the students have considered oduce students to in such a way the ny previous expo- collow it. le the students the social dynamics and entire societies rize students the nd global levels	the major contract of small groups and motion with the major contract of the major contract of social of small groups about fundament and motiv	dents going ne interdis lect differe oncepts of s we who com ology coul d, critically uding the oups, large nental prob ate them	g beyond the ciplinary and ent types of sociology and ne from other d develop an analyse and behaviour of organization, lems of social to use these				
PSOs	 PO8 The major aim is to provide the boundaries of their own of multidisciplinary approach electives as per his or her Ch PSO1 The program seeks to introperspectives of sociology disciplines and without an interest in the subject and f PSO2 The program would enable interpret all aspects of h individuals as well as the communication institution PSO3 The program would familia life at local, regional an understanding in the formute the fo	ide opportunities discipline and the students have considered oduce students to in such a way the ny previous expo- follow it. le the students the social dynamics and entire societies rize students the nd global levels ilation of more en	hink over the hoice to self the major contact even those posure to social o understance aviours incle of small groups about fundant and motiv lightened and	dents going ne interdis lect differe oncepts of s we who com ology coul d, critically uding the oups, large nental prob ate them d effective s	g beyond the ciplinary and ent types of sociology and ne from other d develop an v analyse and behaviour of organization, lems of social to use these social policy				
PSOs	 PO8 The major aim is to provide the boundaries of their own of multidisciplinary approach electives as per his or her Ch PSO1 The program seeks to introperspectives of sociology disciplines and without an interest in the subject and f PSO2 The program would enabe interpret all aspects of h individuals as well as the communication institution PSO3 The program would familia life at local, regional an understanding in the formut PSO4 Students would be able 	ide opportunities discipline and the students have considered oduce students to in such a way the ny previous expo- follow it. le the students the social dynamics and entire societies rize students the nd global levels and the students the substance of more en- to understand the	the major control to self the major control to soliton the major control to social the major control to social the major control to social to understand of small groups about fundamentation and motivi- lightened and the address soliton	dents going ne interdis lect differe oncepts of s who com ology coul d, critically uding the oups, large nental prob ate them d effective s social issue	g beyond the ciplinary and ent types of sociology and ne from other d develop an v analyse and behaviour of organization, lems of social to use these social policy es that affect				
PSOs	 PO8 The major aim is to provide the boundaries of their own of multidisciplinary approach electives as per his or her Chief PSO1 The program seeks to introperspectives of sociology disciplines and without an interest in the subject and finderest in the subject and finderest and see the second second	ide opportunities discipline and the students have considered oduce students to in such a way the ny previous expo- follow it. le the students the social dynamics and entire societies rize students the nd global levels and the students the substance of more en- to understand the	the major control to self the major control to soliton the major control to social the major control to social the major control to social to understand of small groups about fundamentation and motivi- lightened and the address soliton	dents going ne interdis lect differe oncepts of s who com ology coul d, critically uding the oups, large nental prob ate them d effective s social issue	g beyond the ciplinary and ent types of sociology and ne from other d develop an v analyse and behaviour of organization, lems of social to use these social policy es that affect				
PSOs	 PO8 The major aim is to provide the boundaries of their own of multidisciplinary approach electives as per his or her Chief PSO1 The program seeks to introperspectives of sociology disciplines and without an interest in the subject and finderest in the subject and finderest in the subject and finderest and see the communication institution PSO3 The program would familia life at local, regional an understanding in the formut PSO4 Students would be able everyone, from interpersed warning 	ide opportunities discipline and the students have considered oduce students to in such a way the ny previous expo- follow it. le the students the social dynamics and entire societies rize students the followit he societies rize students the social dynamics and entire societies rize students the social dynamics and for a social behavior social dynamics and social dynamics and for a social behavior social dynamics and for a social dynamics and	hink over the hoice to self the major contact even those osure to social of understand aviours inclored and of small groups about fundant and motiv lightened and he address sons to broad	dents going ne interdis lect differe oncepts of se who com ology coul d, critically uding the pups, large nental prob ate them d effective s social issue challenge	g beyond the ciplinary and ent types of sociology and ne from other d develop an analyse and behaviour of organization, lems of social to use these social policy es that affect s like global				
PSOs	 PO8 The major aim is to provide the boundaries of their own of multidisciplinary approach electives as per his or her Chief PSO1 The program seeks to introperspectives of sociology disciplines and without an interest in the subject and finderest in the subject and finderest and see the second second	ide opportunities discipline and the students have considered oduce students to in such a way the ny previous expo- follow it. The the students the social dynamics and entire societies rize students the social dynamics and entire societies rize students the social levels and global levels and global levels and relation to understand the social and relation	hink over the hoice to self the major contract of the major contract of the major contract of the posure to social of understand of small groups about fundaments and motive lightened and the address sent of broad or broad	dents going ne interdis lect differe oncepts of s we who com ology coul d, critically uding the oups, large nental prob ate them d effective s social issue challenge will provid	g beyond the ciplinary and ent types of sociology and ne from other d develop an analyse and behaviour of organization, lems of social to use these social policy es that affect s like global				

Courses: Cours	e Outcomes (COs) are available in indiv	idual sylla	abus files w	hich can be	accessed by		
	respective Course Name	v			•		
PA01CSOC21	Theoretical Perspective in Sociology			✓	\checkmark		
PA01CSOC22	Methods of Social Research			\checkmark			
PA01CSOC23	Rural Society in India		✓	✓			
PA01ESOC21	Sociology of Education		✓	\checkmark			
PA01ESOC22	Human Rights and Society		✓	 ✓ 			
PA01ESOC23	Indian Diaspora			 ✓ 	\checkmark		
PA01ESOC24	Gender and Society		✓	 ✓ 	\checkmark		
PA01ESOC25	Criminology		✓	 ✓ 	\checkmark		
PA01ESOC26	Sociology of Literature		✓	✓			
PA02CSOC21	Sociological Thinkers			✓			
PA02CSOC22	Research Methodology			✓	\checkmark		
PA02CSOC23	Sociology of Family Counselling			✓			
PA02ESOC21	Education & Society		✓	\checkmark			
PA02ESOC22	Rural Change & Development		· ·	· · ·			
PA02ESOC23	Social Movements	✓	· ·	· · ·			
PA02ESOC24	Women in India: The Changing Profile	· ·	· ·	· · · · · · · · · · · · · · · · · · ·			
PA02ESOC24 PA02ESOC25	Sociology of Religion	 ✓	· · · · · · · · · · · · · · · · · · ·	✓ ✓			
PA02ESOC25 PA02ESOC26	Sociology of Marginalized communities	•	· · · · · · · · · · · · · · · · · · ·	✓ ✓			
PA02ESOC20 PA03CSOC21	Sociology of Change		✓ ✓	✓ ✓			
			✓ ✓	▼ ▼			
PA03CSOC22	Conceptualization of Indian Society		✓ ✓	▼ ▼	✓		
PA03CSOC23	Sociology of Mass Communication		▼ ▼	▼ ✓	 ✓		
PA03ESOC21	Sociology of Health		▼ ✓	▼ ▼	•		
	Concept and theories of Industrial		~	v	v		
PA03ESOC22	Sociology						
PA03ESOC23	Sociology of Region		✓	✓			
PA03ESOC24	Political Sociology		✓	✓			
	Environmental Sociology			\checkmark			
PA03ESOC25	- An Introduction						
PA03ESOC26	Globalization and Society			✓	\checkmark		
PA04CSOC21	Sociology of Development		✓	✓			
	Perspective for the Study of Indian		\checkmark	\checkmark			
PA04CSOC22	Society						
PA04CSOC23	Sociology of Voluntary Organization			\checkmark	\checkmark		
PA04ESOC21	Health and Society			✓	\checkmark		
PA04ESOC22	Industry and Society in India			✓			
PA04ESOC23	Urban Sociology in India		✓	\checkmark			
PA04ESOC24	Politics and Society in India		✓	\checkmark			
PA04ESOC25	Environment and Society in India			 ✓ 			
PA04ESOC26	Sociology of aging			✓	✓		
Program	MSW						
POs	PO1. To facilitate the students to learn the	various c	concepts his	tory philosor	by and		
			·	• • •	•		
	different methods of Social Work, fields of Social Work and development of Social Work profession and Social Work education in India.						
	PO2. To enable the students to understand			f social work	as a		
	profession.			Social WOIR	u		
	PO3. To develop knowledge, skills and a	ttitudes es	sential for ef	ffective social	lwork		
	practice.			social social	I WOIK		
	PO4. To impart theoretical knowledge and	nractical	exposites r	equired for th	e		
	professional social workers.	* practical	exposures r				
	PO5. To empower the students to understa	and and in	tervene in th	e existing so	rial		
	1 05. To empower the students to understa	inu anu m		ic catsuing so	ciai		

	problems in contemporary societies				
	PO6. To acquaint with the role of social workers in the established and emerging settings				
	of social work practice.				
	PO7. To become proficient in practicing				
	PO8. To acquire proficiency in practicing				ocial work.
	PO9. To support the students for research				
PSOs	PSO1. Practice social work with an under				
	perspectives in social work and an	n ability to	use these acc	cording to th	e specific
	situations of the client systems.				
	PSO2. Practice social work methods in d	lifferent set	tings with p	roper contex	tualization
	and cultural competence.				
	PSO3. Apply the knowledge and skills re	quired for	social worke	rs to practice	e with
	systems of all sizes.				
	PSO4. Use theoretical frameworks suppo	rted by em	pirical evide	nce to under	stand
	individual development, behaviou	r and ment	al health acro	oss the life sp	pan and the
	interactions among individuals and	l between i	ndividual an	d families, g	groups,
	organizations, and communities.				
	PSO5. Apply critical thinking skills with	in the conte	ext of profess	sional social	work
	practice.				
	PSO6. Understand the value base of the p		and its ethica	l standards a	and
	principles, and practice according				
	PSO7. Analyse, formulate, and influence social policies.				
	PSO8. Conduct research studies, apply research findings to practice, and evaluate their				
	own practice interventions.				
	e Outcomes (COs) are available in indiv	vidual sylla	abus files wl	hich can be	accessed by
	respective Course Name				
PA01CMSW21	Perspectives of Social work in India	 ✓ 	✓	 ✓ 	
PA01CMSW22	Social Science study for social worker	 ✓ 	✓	✓	
PA01CMSW23	Human Growth and Development	✓	✓	✓	✓
PA01CMSW24	Social work Methods	✓	✓	\checkmark	\checkmark
PA01CMSW25	Social Research Methods	✓	 ✓ 	\checkmark	\checkmark
PA01CMSW26	Field work Practicum	✓	✓		
PA01SMSW21	Skill Laboratory	✓	✓		
PA02CMSW21	Social Case work		\checkmark	✓	\checkmark
PA02CMSW22	Social Group work		\checkmark	\checkmark	\checkmark
PA02CMSW23	Community Organization		\checkmark	\checkmark	\checkmark
DAOOCMEWOA	Social Work Research & Statistical		✓	\checkmark	\checkmark
PA02CMSW24	Application				
PA02CMSW25	Social Policy and Social Legislation		✓	 ✓ 	
PA02CMSW26	Field work Practicum	✓	✓		
PA02SMSW21	Skill Laboratory	✓	✓		
PA03CMSW21	Working with Family, Child and Youth	✓	✓	\checkmark	
	Labour Welfare & Human Resource	✓	✓	 ✓ 	
PA03CMSW22	Management				
PA03CMSW23	Social Work Practice in Health Care	✓	✓	 ✓ 	✓
PA03CMSW24	Field Work Practicum	✓	✓	 ✓ 	
PA03SMSW21	Field Placement (Block/Concurrent)	✓	✓	 ✓ 	
PA03EMSW21	Skill Laboratory	✓	✓	\checkmark	
	Administration of Welfare &	· ✓	· ✓	· ·	
PA03EMSW22	Development Services		•	•	
PA03EMSW23	Managing Voluntary Organization	✓	✓	\checkmark	
		▼ ✓	▼ ✓	▼ ✓	
PA03EMSW24	Labour Legislations	▼ ✓	▼ ✓	▼ ✓	
PA03EMSW25	Human Resource Development	▼ ✓	▼ ✓	v √	✓
PA03EMSW26	Corporate Social Responsibility	v	v	v	v

			1 .		
PA03EMSW27	Counseling – Theory & Practice	✓	✓ ✓	✓	✓
PA03EMSW28	Preventive & Social Medicine	✓	✓	✓	
PA03EMSW29	Human Rights & Social Work Practice	√	✓	✓	✓
PA04SMSW21	Social Work intervention in Emergency Situations	✓	√	✓	
PA04CMSW22	Organizational Behaviour & Employee Development	\checkmark	~	~	\checkmark
PA04CMSW23	Social Defence And Correctional Services	√	~	✓	\checkmark
PA04CMSW24	Clinical Psychiatry And Community Mental Health	✓	✓	~	\checkmark
PA04SMSW21	Field Work Practicum	\checkmark	✓	✓	
PA04EMSW21	Skill Laboratory	\checkmark	✓	✓	
PA04EMSW22	Research Report	√	✓	✓	
PA04EMSW23	Organizational Development & Dynamics	~	~	~	\checkmark
PA04EMSW24	Current Trends & Perspectives in Criminology	~	✓	✓	~
PA04EMSW25	Judiciary & Criminal Justice Procedure	✓	✓	✓	
PA04EMSW26	Social Work Intervention in Mental Disorders	\checkmark	√	✓	
PA04EMSW27	Mental Health Policy & Health Care Social Work	√	~	√	~
PA04EMSW28	Industrial Relations & Trade Unionism	\checkmark	✓	✓	
PA04EMSW29	Rural and Urban Community Development	~	~	~	
PA04EMSW30	International Social Work			✓	✓
PA04EMSW31	Labour Economics & Problems of Indian Labour	√	~	√	
PA01CMSW21	Tribal Problems & Tribal Development Scheme	√	 ✓ 	✓	
Drogram	MSW (HR)				
Program POs	PO1. To facilitate the students to learn the		ananta hiat	ama mbilana	where on d
	 different methods of Social Work, f Work profession and Social Work e PO2. To enable the students to understand profession. PO3. To develop knowledge, skills and a 	ields of So ducation i the basic	ocial Work an n India. attributes of	nd developn social work	as a
	practice. PO4. To impart theoretical knowledge and				
	professional social workers. PO5. To empower the students to underst		tervene in th	e existing so	ocial
	problems in contemporary societies PO6. To acquaint with the role of social v of social work practice.	vorkers in		ed and emer	ging settings
	PO7. To become proficient in practicing s			nt fields of a	ocial work
	PO8. To acquire proficiency in practicing PO9. To support the students for research				ociai work.
PSOs	PSO1. Practice social work with an under perspectives in social work and an situations of the client systems. PSO2. Practice social work methods in d	standing o ability to	f the existing use these ac	g theories, n cording to th	ne specific
	and cultural competence. PSO3. Apply the knowledge and skills rea			-	
	1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	1			

	anatoma of all sizes				
	systems of all sizes.	antad hay and	minical avida	aaa to undo	natand
	PSO4. Use theoretical frameworks suppo				
	individual development, behaviou				
	interactions among individuals an	d between	individual an	u fammes,	groups,
	organizations, and communities.	in the cont	ant of muchass	ional again	l wyomlr
	PSO5. Apply critical thinking skills with practice.		ext of profess	Ional socia	I WOIK
		profession	and its othics	l aton dorda	and
	PSO6. Understand the value base of the principles, and practice according		and its enfica	i stanuarus	anu
	PSO7. Analyse, formulate, and influence				
	PSO8. Conduct research studies, apply re			ica and ave	luoto thoir
	own practice interventions.		lings to pract	ice, and eve	
Courses Cours	e Outcomes (COs) are available in indi	vidual avll	ahua filaa wk	high gan he	accord by
	respective Course Name	vidual syna	abus mes wi	nen can de	e accesseu by
PA01CSHR21	Principles of Management			✓	 ✓
	Social Science study for HR	✓	✓		
PA01CSHR22	Professional	Ī			
PA01CSHR23	Managing Individual Behaviour	✓	✓	√	
PA01CSHR25	Managing Group Behaviour	✓ ✓	✓ ✓	✓ ✓	
PA01CSHR24 PA01CSHR25	Social Research Methods	▼ ✓	▼ ▼	▼ ✓	✓
		▼ ✓	▼ ▼	•	*
PA01CSHR26 PA01SSHR21	Field Work Practicum	▼ ✓	▼ ▼		
	Skill Laboratory	v	▼ ▼	✓	✓
PA02CSHR21	Business and HRM		▼ ▼	✓ ✓	▼ ✓
PA02CSHR22	Principle of HRM		-	✓ ✓	•
PA02CSHR23	Integration of HRM & Society	✓	✓		
PA02CSHR24	Research Analysis and Application	✓	✓	 ✓ 	✓
PA02CSHR25	Communication Skill for Manager		✓	\checkmark	✓
PA02CSHR26	Field Work Practicum	✓	✓		
PA02SSHR21	Skill Laboratory	✓	✓		
PA03CSHR21	Organizational Development			√	√
PA03CSHR22	Human Resource Development		,	 ✓ 	✓
PA03CSHR23	Employment Law - I		 ✓ 	✓	
PA03CSHR24	Field Work Practicum	✓	✓	\checkmark	
PA03SSHR21	Skill Laboratory			✓	
PA03ESHR21	Management Function and Behaviour			\checkmark	
PA03ESHR22	Corporate social responsibility	\checkmark	\checkmark	\checkmark	
PA03ESHR23	Management of Human Resources	✓	\checkmark	~	
PA03ESHR24	Employment Relations	✓	✓	\checkmark	
PA03ESHR25	Organizational dynamics	✓	✓	√	✓
PA03ESHR26	Wage and Salary Administration		✓	\checkmark	
PA03ESHR27	Human Resource Planning	✓	✓	√	
PA03ESHR28	Human Resource Information System		✓	\checkmark	
PA04CSHR21	Organizational Behaoviour	✓	✓	√	✓
PA04CSHR22	Compensations Management	✓	✓	\checkmark	
PA04CSHR23	Employment Law - II	✓	✓	\checkmark	
PA04CSHR24	Field Work Practicum	✓	 ✓ 	\checkmark	
PA04SSHR21	Skill Laboratory	 ✓ 	✓		
PA04ESHR21	RESEARCH REPORT	✓	✓	√	
	Corporate Governance & Business	✓ √	✓ √		
PA04ESHR22	Ethics				
PA04ESHR23	Strategic Management	✓	✓		✓
	Competency Mapping and Career				
PA04ESHR24	Development	\checkmark	✓	\checkmark	\checkmark

PA04ESHR25	HRM in International Settings			√	✓
PA04ESHR26	Project Management		 ✓ 	· •	
PA04ESHR27	Managerial Economics	✓	✓ ✓	· ✓	
		 ✓	✓ ✓	✓ ✓	
PA04ESHR28	Organizational Effectiveness & change	v	▼ ✓	v √	
PA04ESHR29	Business Environment & Law		v	v	
Program	MCom				
POs	PO1 To understand about soft skills chose	en by the s	tudents. 1.e. I	M S Excel, E	Commerce
	Corporate Communications etc.				
	PO2 Learn various concepts of Strategic I				
	PO3 Get familiarity with aspects of Busin				
	PO4 Learn concepts of Cost and Manager				
	PO5 Get insights of elective subjects in va	arious area	s viz. Accou	nting, Marke	eting, HRM
DGO	Financial Management etc.	· 1' ·	· · p ·		
PSOs	PSO1 Get familiarity with computer and i				
	PSO2 Get insights to various new concep			ivironmenta	L
	Accounting, Human Resource Acco			1.1 4 1	1
	PSO3 Gain familiarity with recent develo				
	Accounting, Marketing Managemen			anagement, I	inancial
<u> </u>	Management and Tax Planning and				
	e Outcomes (COs) are available in indiv	idual sylla	abus files wr	nich can be	accessed by
	respective Course Name				
PB01ACOM21	Computer Application in Business - I	\checkmark	✓ ✓	 ✓ 	<u>√</u>
PB01ACOM22	E-Commerce-I	/	 ✓ 	√	✓
PB01ACOM23	Corporate Communication-I	\checkmark	✓	✓	✓
PB01CCOM21	STRATEGIC BUSINESS		✓	 ✓ 	\checkmark
	MANAGEMENT-I				
PB01CCOM22	BUSINESS ENVIRONMENT-I	\checkmark	 ✓ 	 ✓ 	✓
PB01CCOM23	Cost and Management Accounting-I		✓	 ✓ 	\checkmark
PB01ECOM21	Management Control System - I	✓	✓	✓	
PB01ECOM22	Rural Marketing	\checkmark			
PB01ECOM23	Organisational Behaviour		✓		
PB01ECOM24	Financial Market and Services I	\checkmark	✓	 ✓ 	✓
PB01ECOM25	Direct Tax Planning -I			\checkmark	
PB01ECOM26	Entrepreneurial Behaviour	\checkmark	✓	✓	\checkmark
PB01ECOM27	Fundamental Statistics I			✓	\checkmark
PB01ECOM28	Fundamentals of Banking and Insurance	\checkmark	✓	✓	\checkmark
PB02ACOM21	Computer Application in Business - II	√	✓	\checkmark	\checkmark
PB02ACOM22	E-Commerce-II		✓	\checkmark	\checkmark
PB02ACOM23	Corporate Communication-II	✓	✓	\checkmark	\checkmark
	STRATEGIC BUSINESS				1
PB02CCOM21	MANAGEMENT-II		\checkmark	✓	\checkmark
PB02CCOM22	BUSINESS ENVIRONMENT-II	✓	✓	√	✓
PB02ECOM23	Cost and Management Accounting-II		✓	 ✓ 	✓
PB02ECOM22	Service Marketing	✓	✓	\checkmark	✓
	HUMAN RESOURCE				
PB02ECOM23	DEVELOPMENT	\checkmark	✓	\checkmark	
	FINANCIAL MARKETS AND				
PB02ECOM24	SERVICES-II	\checkmark	✓	✓	\checkmark
PB02ECOM25	Direct Tax Planning -II			\checkmark	
PB02ECOM25 PB02ECOM26		✓	✓	✓ ✓	
	Economic System of Entrepreneurship	v	•	v √	✓
PB02ECOM27	Business Research Methods			•	v
PB02ECOM28	Marketing of Banking Products and	\checkmark	✓	✓	\checkmark
	Insurance Services				

PM02ECOM21	Management Control System - II	\checkmark	\checkmark	\checkmark	\checkmark
PB03ACOM21	Career Planning-I	\checkmark	✓	✓	✓
PB03ACOM22	Knowledge Management-I	\checkmark	✓	✓	✓
PB03ACOM23	Leadership Skills-I	\checkmark	✓	✓	✓
PB03CCOM21	Research Methodology-I			✓	✓
PB03CCOM22	Entrepreneurship Development-I	\checkmark	\checkmark	\checkmark	\checkmark
PB03CCOM23	Financial Management-I	\checkmark	\checkmark	\checkmark	\checkmark
PB03ECOM21	Corporate Accounting-I			✓	\checkmark
PB03ECOM22	Integrated Marketing Communications	✓	\checkmark	✓	\checkmark
PB03ECOM23	Industrial Relations		\checkmark	✓	
PB03ECOM24	Strategic Financial Management-I		✓	√	
PB03ECOM25	Indirect Taxes-I	\checkmark	✓	√	✓
PB03ECOM26	Project Management			√	✓
PB03ECOM27	Operations Research			√	✓
PB03ECOM28	Mechanics of Banking and Insurance	√	✓	✓	✓
PB04ACOM21	Career Planning-II	✓	✓	✓	✓
PB04ACOM22	Knowledge Management-II	√	✓	✓	✓
PB04ACOM23	Leadership Skills-II	✓	✓	✓	✓
PB04CCOM21	Research Methodology-II			✓	✓
<u>PB04CCOM21</u>	Entrepreneurship Development-II	✓	\checkmark	· •	✓
<u>PB04CCOM22</u>	Financial Management-II	· ✓	· ✓	· •	✓
PB04ECOM21	Corporate Accounting-II		√	 ✓	✓
PB04ECOM22	Consumer Behaviour	✓	✓	 ✓	✓
	Strategic Human Resource				
PB04ECOM23	Management	\checkmark	\checkmark	\checkmark	\checkmark
PB04ECOM24	Strategic Financial Management-II		✓	\checkmark	✓
PB04ECOM25	Indirect Taxes-II	✓	√		✓
PB04ECOM26	Entrepreneurship Management	✓	✓	✓	\checkmark
	Quantitative Techniques in				
PB04ECOM27	Management		\checkmark	\checkmark	\checkmark
	Regulatory Frame work of Banking and				
PB04ECOM28	Insurance			\checkmark	\checkmark
Program	MBA				
POs					
PSOs					
	e Outcomes (COs) are available in indivi	idual svlla	hus files wl	hich can he	accessed by
	respective Course Name	luuur symu	bus mes wi	inen eun be	accessed by
PM01CACC01	Fundamentals of Management	√	✓	✓	✓
	Quantitative Techniques for	√	✓	✓	✓
PM01CCIM01	Management-I				
PM01CECO01	Managerial Economics	√	✓	✓	✓
PM01CEC002	Managerial Accounting-I	~	\checkmark	✓	~
PM01CMGT01	Management Skills Development	✓	✓	✓	✓
PM01CMGT02	Contemporary Issues in Management	✓	✓ ✓	 ✓	✓
	Indian Ethos and Organizational	· ✓	· · ·	· ·	✓
PM01CMSD01	Behavior	-			-
PM01CQTT01	Environment and Management	✓	✓	✓	~
	Quantitative Techniques for	✓	·		· · · · · · · · · · · · · · · · · · ·
PM02CACC02	Management-II	•	-		•
PM02CECO01	Managerial Accounting-II	✓	√	✓	✓
PM02CEC001 PM02CFIN01	Manageman Accounting-II Marketing Management	 ✓	✓ ✓	✓ ✓	· · · · · · · · · · · · · · · · · · ·
PM02CHRM01	Financial Management	 ✓	✓ ✓	▼ ✓	▲ ▲
	Production and Operations	 ✓	✓ ✓	▼ ✓	✓ ✓
PM02CMKT01					

	Management						
PM02CPOM01	Human Resource Management	✓	\checkmark	✓	✓		
PM02CQTT01	Research Methodology	· •	· ✓	· ·	 ✓		
<u>rwi02CQ1101</u>	International Environment and	•	•	•			
PM02CRSM0					v		
	Management	✓	✓	✓	✓		
PM03CMBA21	Business Policy and Strategic	v	v	v	v		
	Management-I	✓	\checkmark	✓	✓		
PM03CMBA22	New Enterprise Management	▼ ✓	✓ ✓	v v	 ✓		
PM03CMBA23	Business Legislation	▼ ✓	✓ ✓	▼ ✓	 ✓		
PM03CMBA24	Comprehensive Project-I		✓ ✓	v √	▼ ✓		
PM03EMBA21	Financial Decision Analysis	✓					
PM03EMBA22	Management Control System	✓ ✓	✓ ✓	\checkmark	$\frac{\checkmark}{\checkmark}$		
PM03EMBA23	Corporate Taxation						
PM03EMBA24	Consumer Behaviour	√	 ✓ 	 ✓ 	<u>√</u>		
PM03EMBA25	Sales and Distribution Management	✓	 ✓ 	√	<u>√</u>		
PM03EMBA26	Marketing Research and Information	\checkmark	~	\checkmark	\checkmark		
	Systems	,			,		
PM03EMBA27	Management of Industrial Relations	✓	✓	 ✓ 	✓		
PM03EMBA28	Compensation Management	✓	✓	✓	✓		
PM03EMBA29	Management Training and	\checkmark	\checkmark	\checkmark	\checkmark		
	Development						
PM04CMBA21	Business Policy and Strategic	\checkmark	\checkmark	\checkmark	\checkmark		
	Management-II						
PM04CMBA22	International Economic Organization				\checkmark		
PM04CMBA23	Comprehensive Project-II	\checkmark	\checkmark	✓	✓		
PM04EMBA21	Security Analysis and Investment	\checkmark	\checkmark	\checkmark	\checkmark		
r wi04LiviDA21	Management						
PM04EMBA22	International Financial Management				✓		
PM04EMBA23	Management of Financial Institutions &	\checkmark	\checkmark	\checkmark	\checkmark		
<u>I WIO+LWIDA25</u>	Financial Services						
PM04EMBA24	Advertising Management	\checkmark	\checkmark	\checkmark	✓		
PM04EMBA25	Marketing of Services	\checkmark	✓	\checkmark	✓		
PM04EMBA26	International Marketing				\checkmark		
PM04EMBA27	Organizational Change and Intervention	\checkmark	\checkmark	\checkmark	\checkmark		
<u>FWI04EWIDA27</u>	Strategies						
DMOAEMD A 29	Human Resource Developments:	\checkmark	\checkmark	✓	\checkmark		
PM04EMBA28	Strategies and Systems						
PM04EMBA29	Cross Cultural and Global Management	\checkmark	\checkmark	✓	\checkmark		
Program	LLM (Business Law)						
POs	PO1 Business Law course gives an in-depth valid knowledge of issues such as corporate						
	governance and business debt.						
	PO2 To understand the practical difficulties and firm experience when meeting their						
	valid obligations and complying with executive frameworks.						
	PO3 To manage multiple cases, clients, and legal activities which carry different deadlines?						
							PSOs
L 1 7 7 7 7							
	It provides in depth study of internat	PSO2 To ensure that all business strategies, processes and actions are complying with the					
. 505			es and action	is are comply	ving with the		
. 505	PSO2 To ensure that all business strategie	s, processe			ying with the		
	PSO2 To ensure that all business strategie relevant local, federal, and internation	s, processe onal and na	tional laws.		-		
	PSO2 To ensure that all business strategie	s, processe onal and na ng or poter	ntional laws. ntial legal iss	sues to the au	uthorities.		

PL01CLBL21	Indian Constitutional Law The New Challenges-I			~	
PL01CLBL22	Law and Social Transformation in India			✓	
PL01ELBL21	Law of Industrial & Intellectual Property-I				~
PL01ELBL22	Banking Law-I				\checkmark
PL01ELBL23	Corporate Finance-I				\checkmark
PL02CLBL21	Indian Constitutional Law The New			√	
PL02CLBL22	Challenges-II Jurisprudence				✓
	Law of Industrial & Intellectual				· · · · · · · · · · · · · · · · · · ·
PL02ELBL21	Property-II				
PL02ELBL22	Banking Law-II				✓
PL02ELBL23	Corporate Finance-II				✓
PL03CLBL21	Judicial Process				✓
	Legal Education And Research				✓
PL03CLBL22	Methodology				
PL03ELBL21	Law Of Export Import Regulation				\checkmark
PL03ELBL22	Legal Regulation Of Economic				✓
	Enterprise				
PL03ELBL23	Insurance Law	/		\checkmark	
PL04CLBL21	Dissertation + Viva Voce	✓ ✓	✓	✓	
PL04CLBL22	Class Room Teaching	V			
PL04CLBL23	Doctrinal Research				
PL04CLBL24	Non Doctrinal Research Clinical Research Report	✓			
PL04CLBL24	Clinical Research Report	v			
	•		1	1	
Program	LLM (Criminal Law)	of professi	onal ethics		
	LLM (Criminal Law) PO1 To understand and apply principles of PO2 To provide a Platform for self-emplo			professional	l skills under
Program POs	LLM (Criminal Law) PO1 To understand and apply principles of PO2 To provide a Platform for self-emplo criminal law.	oyment by	developing		
Program	LLM (Criminal Law) PO1 To understand and apply principles of PO2 To provide a Platform for self-emplo criminal law. PSO1 To understand current issues and c	oyment by	developing		
Program POs	LLM (Criminal Law)PO1 To understand and apply principles of PO2 To provide a Platform for self-employ criminal law.PSO1 To understand current issues and c criminal justice.	oyment by	developing pary debates in	n criminal l	aw and
Program POs PSOs	LLM (Criminal Law)PO1 To understand and apply principles ofPO2 To provide a Platform for self-emploiscriminal law.PSO1 To understand current issues and ccriminal justice.PSO2 To understand fundamental princip	ovment by ontempora	developing p ary debates in stantive and p	n criminal la	aw and criminal law.
Program POs PSOs Courses: Cours	LLM (Criminal Law)PO1 To understand and apply principles of PO2 To provide a Platform for self-employ criminal law.PSO1 To understand current issues and c criminal justice.PSO2 To understand fundamental principe Outcomes (COs) are available in indiv	ovment by ontempora	developing p ary debates in stantive and p	n criminal la	aw and criminal law.
Program POs PSOs Courses: Cours clicking on the p	LLM (Criminal Law) PO1 To understand and apply principles of PO2 To provide a Platform for self-emploid criminal law. PSO1 To understand current issues and curre	ovment by ontempora	developing p ary debates in stantive and p	n criminal la procedural d hich can be	aw and criminal law.
Program POs PSOs Courses: Cours	LLM (Criminal Law) PO1 To understand and apply principles of PO2 To provide a Platform for self-emploid criminal law. PSO1 To understand current issues and constitution criminal justice. PSO2 To understand fundamental principles e Outcomes (COs) are available in individual constitution Law: the New Challenges -I	ovment by ontempora	developing p ary debates in stantive and p	n criminal la	aw and criminal law.
Program POs PSOs Courses: Cours clicking on the n PL01CLCR21	LLM (Criminal Law) PO1 To understand and apply principles of PO2 To provide a Platform for self-emploid criminal law. PSO1 To understand current issues and constitution criminal justice. PSO2 To understand fundamental principe Outcomes (COs) are available in individual constitution Law: the New	ovment by ontempora	developing p ary debates in stantive and p	n criminal la procedural d hich can be	aw and criminal law.
Program POs PSOs Courses: Cours clicking on the n PL01CLCR21 PL01CLCR22	 LLM (Criminal Law) PO1 To understand and apply principles of PO2 To provide a Platform for self-emploid criminal law. PSO1 To understand current issues and current	ovment by ontempora	developing p ary debates in stantive and p	n criminal la procedural d hich can be	aw and criminal law.
Program POs PSOs Courses: Cours clicking on the n PL01CLCR21 PL01CLCR22 PL01ELCR21	LLM (Criminal Law) PO1 To understand and apply principles of PO2 To provide a Platform for self-emplor criminal law. PSO1 To understand current issues and criminal justice. PSO2 To understand fundamental principle PSO2 To understand fundamental principle e Outcomes (COs) are available in individual constitution Law: the New Challenges -I Law and Social Transformation in India Principles of Criminal Law	ovment by ontempora	developing p ary debates in stantive and p	n criminal la procedural d hich can be	aw and criminal law. e accessed by
Program POs PSOs Courses: Cours clicking on the n PL01CLCR21 PL01CLCR22 PL01ELCR21 PL01ELCR21	LLM (Criminal Law) PO1 To understand and apply principles of PO2 To provide a Platform for self-emplor criminal law. PSO1 To understand current issues and c criminal justice. PSO2 To understand fundamental principle PSO2 To understand fundamental principle e Outcomes (COs) are available in indiverse course Name Indian Constitution Law: the New Challenges -I Law and Social Transformation in India Principles of Criminal Law Comparative Criminal	ovment by ontempora	developing p ary debates in stantive and p	n criminal la procedural d hich can be	aw and criminal law. e accessed by
Program POs PSOs Courses: Cours clicking on the n PL01CLCR21 PL01CLCR22 PL01ELCR21	LLM (Criminal Law) PO1 To understand and apply principles of PO2 To provide a Platform for self-emplor criminal law. PSO1 To understand current issues and c criminal justice. PSO2 To understand fundamental principle e Outcomes (COs) are available in indiverse course Name Indian Constitution Law: the New Challenges -I Law and Social Transformation in India Principles of Criminal Law Comparative Criminal Penology: Treatment of Offenders	ovment by ontempora	developing p ary debates in stantive and p	n criminal la procedural d hich can be	aw and criminal law. e accessed by
Program POs PSOs Courses: Cours clicking on the n PL01CLCR21 PL01CLCR22 PL01ELCR21 PL01ELCR21	LLM (Criminal Law) PO1 To understand and apply principles of PO2 To provide a Platform for self-emplor criminal law. PSO1 To understand current issues and criminal justice. PSO2 To understand fundamental principle POUCOMES (COS) are available in individual principle Pottomes (COS) are available in individual principles of Criminal Law Comparative Criminal Law Comparative Criminal Penology: Treatment of Offenders Indian Constitution Law: the New	ovment by ontempora	developing p ary debates in stantive and p	n criminal la procedural d hich can be	aw and criminal law. e accessed by
ProgramPOsPSOsCourses: Cours clicking on the pPL01CLCR21PL01CLCR22PL01ELCR21PL01ELCR21PL01ELCR23PL02CLCR21	LLM (Criminal Law) PO1 To understand and apply principles of PO2 To provide a Platform for self-emplor criminal law. PSO1 To understand current issues and criminal justice. PSO2 To understand fundamental principle e Outcomes (COs) are available in indiverse (COs) are available in indiverse (COs) are available in indiverse (Columnation Law: the New Challenges -I Law and Social Transformation in India Principles of Criminal Law Comparative Criminal Penology: Treatment of Offenders Indian Constitution Law: the New Challenges -I Law and Social Transformation in India Principles of Criminal Law Comparative Criminal Penology: Treatment of Offenders Indian Constitution Law: the New Challenges -II	ovment by ontempora	developing p ary debates in stantive and p	n criminal la procedural d hich can be	aw and criminal law. e accessed by
ProgramPOsPSOsCourses: Cours clicking on the noisePL01CLCR21PL01CLCR22PL01ELCR21PL01ELCR21PL01ELCR23PL02CLCR21PL02CLCR22	LLM (Criminal Law) PO1 To understand and apply principles of PO2 To provide a Platform for self-emplor criminal law. PSO1 To understand current issues and criminal justice. PSO2 To understand fundamental principle PSO2 To understand fundamental principle e Outcomes (COs) are available in indiversepective Course Name Indian Constitution Law: the New Challenges -I Law and Social Transformation in India Principles of Criminal Law Comparative Criminal Penology: Treatment of Offenders Indian Constitution Law: the New Challenges -II Jurisprudence	ovment by ontempora	developing p ary debates in stantive and p	n criminal la procedural d hich can be	aw and criminal law. e accessed by
ProgramPOsPSOsCourses: Cours clicking on the pPL01CLCR21PL01CLCR22PL01ELCR21PL01ELCR21PL01ELCR23PL02CLCR21PL02ELCR21PL02ELCR21	LLM (Criminal Law) PO1 To understand and apply principles of PO2 To provide a Platform for self-emplor criminal law. PSO1 To understand current issues and criminal justice. PSO2 To understand fundamental principle e Outcomes (COs) are available in individe respective Course Name Indian Constitution Law: the New Challenges -I Law and Social Transformation in India Principles of Criminal Law Comparative Criminal Penology: Treatment of Offenders Indian Constitution Law: the New Challenges -II Jurisprudence International Humanitarian Law	ovment by ontempora	developing p ary debates in stantive and p	n criminal la procedural d hich can be	aw and criminal law. e accessed by
ProgramPOsPSOsCourses: Cours clicking on the noisePL01CLCR21PL01CLCR22PL01ELCR21PL01ELCR21PL01ELCR23PL02CLCR21PL02CLCR22	LLM (Criminal Law) PO1 To understand and apply principles of PO2 To provide a Platform for self-emplor criminal law. PSO1 To understand current issues and criminal justice. PSO2 To understand fundamental principle PSO2 To understand fundamental principle e Outcomes (COs) are available in indiversepective Course Name Indian Constitution Law: the New Challenges -I Law and Social Transformation in India Principles of Criminal Law Comparative Criminal Penology: Treatment of Offenders Indian Constitution Law: the New Challenges -II Jurisprudence	ovment by ontempora	developing p ary debates in stantive and p	n criminal la procedural d hich can be	aw and criminal law. e accessed by ✓ ✓ ✓ ✓
ProgramPOsPSOsCourses: Cours clicking on the noise of the second sec	LLM (Criminal Law) PO1 To understand and apply principles of PO2 To provide a Platform for self-emplor criminal law. PSO1 To understand current issues and criminal justice. PSO2 To understand fundamental principle e Outcomes (COs) are available in individual function constitution Law: the New Challenges -I Law and Social Transformation in India Principles of Criminal Law Comparative Criminal Penology: Treatment of Offenders Indian Constitution Law: the New Challenges -I Law and Social Transformation in India Principles of Criminal Law Comparative Criminal Penology: Treatment of Offenders Indian Constitution Law: the New Challenges -II Jurisprudence International Humanitarian Law Privileged Class Deviance	ovment by ontempora	developing p ary debates in stantive and p	n criminal la procedural d hich can be	aw and criminal law. e accessed by v v v v v v
ProgramPOsPOsPSOsCourses: Cours clicking on the rPL01CLCR21PL01CLCR22PL01ELCR21PL01ELCR21PL01ELCR23PL02CLCR21PL02ELCR21PL02ELCR22PL02ELCR23PL02ELCR23	LLM (Criminal Law) PO1 To understand and apply principles of PO2 To provide a Platform for self-emplor criminal law. PSO1 To understand current issues and criminal justice. PSO2 To understand fundamental principle e Outcomes (COs) are available in individe respective Course Name Indian Constitution Law: the New Challenges -I Law and Social Transformation in India Principles of Criminal Law Comparative Criminal Penology: Treatment of Offenders Indian Constitution Law: the New Challenges -II Jurisprudence International Humanitarian Law Privileged Class Deviance Juvenile Delinquency Judicial Process Legal Education and Research	ovment by ontempora	developing p ary debates in stantive and p	n criminal la procedural d hich can be	aw and criminal law. e accessed by v
ProgramPOsPOsPSOsCourses: Cours clicking on the pPL01CLCR21PL01CLCR22PL01ELCR21PL01ELCR21PL01ELCR23PL02CLCR21PL02ELCR21PL02ELCR22PL02ELCR23PL03CLCR21	LLM (Criminal Law) PO1 To understand and apply principles of PO2 To provide a Platform for self-emplor criminal law. PSO1 To understand current issues and criminal justice. PSO2 To understand fundamental principles of Cos) are available in indiversepective Course Name Indian Constitution Law: the New Challenges -I Law and Social Transformation in India Principles of Criminal Law Comparative Criminal Penology: Treatment of Offenders Indian Constitution Law: the New Challenges -II Jurisprudence International Humanitarian Law Privileged Class Deviance Juvenile Delinquency Judicial Process	ovment by ontempora	developing p ary debates in stantive and p	n criminal la procedural d hich can be	aw and criminal law. e accessed by v

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PL03ELCR22	Police and Criminal Justice System		✓	✓	✓	
PL03ELCR23	Forensic Science and Criminal			✓	~	
	Investigation					
PL04CLCR21	Dissertation+ Viva Voce	 ✓ 	✓	✓		
PL04CLCR22	Class Room Teaching	 ✓ 				
PL04CLCR23	Doctrinal Research	✓				
PL04CLCR24	Non-Doctrinal Research					
PL04CLCR25	Clinical Research Report	✓				
Program	MEd					
POs	 PO1 Professional preparation of teacher educators who would be equipped with the knowledge and competencies to facilitate and conduct initial preparation and continuing professional development teachers. PO2 To provide coherent perspective – socio-historical, political-economic, philosophical, and psychological to make sense of education – its policies, systems, institutions, practices and processes. PO3 To understand and practice to logical balance between theory and field exposure PO4 Professional preparation and continuing professional development of students in turn need teachers educators who are themselves professional teacher and who have through a process of critical scrutiny of theory, critical reflection on practices as well as doing research, deepened their understanding of the larger societal factors them circumscribe the context and scope of the core education processes, the nature and structure of knowledge that the learners construct and develop and the dynamics played out in the psychic and social world of the learners. PO5 To prepare teacher educators; however, in the current developing scenario in education it should also cater adequately to academic pursuits like curriculum and textbook development, research, policy analysis, and educational administration. PO6 Service provided with a relationship characterized by desire to help and with a sense of integrity and authorized by an institutional body. PO7 A wider understanding of human knowledge, an idea of epistemic structure of disciplines other than one's OWN also will be necessary for a teacher educator to situate 					
	her own work in the curriculum, and educ					
PSOs	PSO1 Comparing a view on selected cont learning and development.	emporary v	western and	Indian theo	• 1 • 1 •	
Courses: Course	 PSO2 Explaining the psychological basis happened. PSO3 Describe the interdisciplinary view and economy. PSO4 Determine the quality of life and explosed performing the characteristics and role PSO5 Explain the characteristics and role PSO6 To describe concept and need of ed PSO7 To identify research problem. PSO8 Synthesis the academic knowledge PSO9 Use advance pedagogies and classr their educational problem through response the explain and analyse different soft PSO12 Explain and analyse different soft PSO13 Define interpersonal relationships e Outcomes (COs) are available in indiv 	of education explain its reaction s of a teach lucational r of prospect oom technic esearch. with effect ess writings skills in te to adapt li	on with refe elation with ner in democ research. etive teacher iques, resear etive writing s that reflect eaching profe fe skills.	that make lease rence to his education. cratic classr educator. rch orientate skill. multicultur ession.	earning story, polity oom. ed and solves ral images	
	 happened. PSO3 Describe the interdisciplinary view and economy. PSO4 Determine the quality of life and ex PSO5 Explain the characteristics and role PSO6 To describe concept and need of ed PSO7 To identify research problem. PSO8 Synthesis the academic knowledge PSO9 Use advance pedagogies and classr their educational problem through representation PSO10 Organize academic representation PSO11 To comprehend and critically asse and perspectives PSO12 Explain and analyse different soft PSO13 Define interpersonal relationships 	of education explain its reaction s of a teach lucational r of prospect oom technic esearch. with effect ess writings skills in te to adapt li	on with refe elation with ner in democ research. etive teacher iques, resear etive writing s that reflect eaching profe fe skills.	that make lease rence to his education. cratic classr educator. rch orientate skill. multicultur ession.	earning story, polity oom. ed and solves ral images	
	 happened. PSO3 Describe the interdisciplinary view and economy. PSO4 Determine the quality of life and ex PSO5 Explain the characteristics and role PSO6 To describe concept and need of ed PSO7 To identify research problem. PSO8 Synthesis the academic knowledge PSO9 Use advance pedagogies and classr their educational problem through response PSO10 Organize academic representation PSO11 To comprehend and critically asse and perspectives PSO12 Explain and analyse different soft PSO13 Define interpersonal relationships e Outcomes (COs) are available in indiv 	of education explain its reaction s of a teach lucational r of prospect oom technic esearch. with effect ess writings skills in te to adapt li	on with refe elation with ner in democ research. etive teacher iques, resear etive writing s that reflect eaching profe fe skills.	that make lease rence to his education. cratic classr educator. rch orientate skill. multicultur ession.	earning story, polity oom. ed and solves ral images	

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	concerns of Education		,		
PE01CMD203	Educational Studies	\checkmark	\checkmark	✓	
PE01CMD204	Introduction to Research in Education		\checkmark	✓	✓
PE01FMD205	Academic Writing		\checkmark	✓	\checkmark
PE01FMD206	Self-Development and Activities	\checkmark	\checkmark	✓	
PE02CMD201	Philosophical foundation of Education			✓	
PE02CMD202	Sociological foundation of Education		\checkmark	✓	
PE02CMD203	Curriculum studies		\checkmark	\checkmark	
PE02CMD204	Teacher Education Directions		\checkmark	\checkmark	✓
PE02CMD205	Dissertation	\checkmark	\checkmark		
PE02CMD206	Internship in a TE1	\checkmark			
PE03CMD201	Advanced Research Methodology in			\checkmark	\checkmark
<u>FE05CMD201</u>	Education				
PE03CMD202	Pre-Service Teacher Education - II	\checkmark			
PE03CMD203	Dissertation	\checkmark	\checkmark		
PE03CMD204	Internship (Specialization in School)	~			
PE03EMD201	System of Elementary Education in			✓	
<u>FEUSEIVID201</u>	India				
PE03EMD202	Contemporary Elementary Teacher			\checkmark	
<u>FE05EWID202</u>	Education in India				
PE03EMD203	Contemporary Secondary Teacher			\checkmark	
<u>I LOSLIVIDZOS</u>	Education in India				
PE03EMD204	Secondary Education in India and			~	
	Policy Perspectives				
PE03FMD201	Academic Writing Development	\checkmark	✓	~	\checkmark
PE04EMD2A1	Inclusive Strategies and Education for		\checkmark	\checkmark	
	Children with Diverse Needs				
PE04EMD2A3	Inclusive education: Policy perspectives			\checkmark	
	and related aspects			,	
PE04EMD2B1	Introduction to Guidance and			\checkmark	
	Counselling		/		
PE04EMD2B2	School Guidance Programme	✓	✓	√	
PE04EMD2B3	Career Development and Guidance	\checkmark	\checkmark	√	
PE04EMD2C1	Educational Measurement & Evaluation			✓ ✓	
PE04EMD2C2	Psychological Measurement		✓	√	
PE04EMD2C3	Statistical Methods of Educational			~	\checkmark
	Research		/		
PE04EMD2D1	Educational Management and		\checkmark	\checkmark	
	Organization		1		1
PE04EMD2D2	Dimensions of Educational		\checkmark	\checkmark	\checkmark
	Organization				
PE04EMD2D3	Total Quality Management in Education		✓ ✓	✓ √	<u>√</u>
PE04EMD2E1	Foundations of Curriculum			v	•
PE04EMD2E2	Curriculum Development	✓ ✓	✓ ✓	\checkmark	✓ ✓
PE04EMD2E3	Curriculum Transaction	v	v	¥	v
PE04EMD36	Communication Skills in Education			\checkmark	✓
PE04EMD2F1	Educational technology and ICT			v	v
PE04EMD2F2	Information And Communication				
	Technology In Education			\checkmark	✓
PE04EMD2F3	Educational Technology For Teacher			v	v
	Educators Dissertation	✓	\checkmark	\checkmark	
PE04CMD201	Dissentation	v	v	v	