

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

**LOCAL NEEDS 2017-18**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
AIHC & Archaeology	114	History of Ancient India upto 550 A.D.	101	2017
	114	History of Ancient India upto 550 A.D.	101	2017
	114	History of Ancient India upto 550 A.D.	101	2017
	114	History of Ancient India upto 550 A.D.	101	2017
	114	History of Ancient India upto 550 A.D.	101	2017
	114	History of Ancient India upto 550 A.D.	101	2017
	114	History of Ancient India upto 550 A.D.	101	2017
	114	History of Ancient India upto 550 A.D.	101	2017
	114	History of Ancient India upto 550 A.D.	101	2017
	114	History of Ancient India upto 550 A.D.	101	2017
	114	History of Ancient India upto 550 A.D.	101	2017
	114	History of Ancient India upto 550 A.D.	101	2017
	114	History of Ancient India upto 550 A.D.	101	2017
Centre for Womens Studies	239	Women's Studies- concepts, Principals & Issues	SVUWS- 101	2017-18
	239	Human Values And Ethics	SVUWS-106A	2017-18
	239	Leadership values	SVUWS-106B	2017-18
	239	Human values & Professional Ethics	SVUWS-206A	2017-18
	239	Familial values and Ethics	SVUWS-206B	2017-18
Economics	104	Andhra Pradesh Economy	404 (b)	2016-17
Education		Fundamentals of Educational Research	103	2017
		Measurement and Evaluation	106A	2017

		Advanced Education Research	202	
History	118	MA.HISTORY	101	2017
	118	MA.HISTORY	102	2017
	118	MA.HISTORY	103	2017
	118	MA.HISTORY	106a	2017
	118	MA.HISTORY	201	2017
	118	MA.HISTORY	202	2017
	118	MA.HISTORY	203	2017
	118	MA.HISTORY	206A	2017
	118	MA.HISTORY	206B	2017
	118	MA.HISTORY	301	2017
	118	MA.HISTORY	302	2017
	118	MA.HISTORY	303C	2017
	118	MA.HISTORY	303D	2017
	118	MA.HISTORY	401	2017
	118	MA.HISTORY	402	2017
118	MA.HISTORY	403B	2017	
	154	Contracts-I	BA LLB -1.4	2016-2017
	154	Contracts-II	BA LLB -2.4	2016-2017
	154	Law of Torts and Consumer Protection Act	BA LLB -3.3	2016-2017
	154	Constitutional Law-I	BA LLB -3.4	2016-2017
	154	Constitutional Law-II	BA LLB -4.3	2016-2017
	154	Administrative Law	BA LLB -4.4	2016-2017
	154	History of Courts, Legislation and Legal Profession in India	BA LLB -5.3	2016-2017
	154	Law of Crimes-I (IPC)	BA LLB -5.4	2016-2017
	154	Family Law-I	BA LLB -5.5	2016-2017
	154	Legal Language and Legal Writing	BA LLB -6.3	2016-2017
	154	Jurisprudence	BA LLB -6.4	2016-2017
	154	Environmental Law	BA LLB -6.5	2016-2017

Law	154	Property Law(Including Transfer of Property Act and Easement Act)	BA LLB -7.1	2016-2017
	154	Labour Law-I	BA LLB -7.2	2016-2017
	154	Company Law	BA LLB -7.3	2016-2017
	154	Interpretation of Statutes	BA LLB -7.5	2016-2017
	154	Labour Law-II	BA LLB -8.1	2016-2017
	154	Family Law-II	BA LLB -8.2	2016-2017
	154	Taxation Law	BA LLB -8.3	2016-2017
	154	Intellectual Property Law	BA LLB -8.4	2016-2017
	154	Land Law Including Tenure and Tenancy System	BA LLB -8.5	2016-2017
	154	Civil Procedure Code and Limitation Act	BA LLB -9.1	2016-2017
	154	Law of Crimes-II (Criminal Procedure Code)	BA LLB -9.2	2016-2017
	154	Law of Evidence	BA LLB -9.3	2016-2017
	154	Banking Law	BA LLB -9.4	2016-2017
	154	Media Law with RTI	BA LLB -9.5	2016-2017
	154	Drafting, Pleading and Conveyancing	BA LLB -10.1	2016-2017
	154	Professional Ethics and Accounting System	BA LLB -10.2	2016-2017
	154	Alternative Dispute Resolution	BA LLB -10.3	2016-2017
	154	Moot Court Exercise and Internship	BA LLB -10.4	2016-2017
	154	Penology and Victimology	BA LLB -10.5	2016-2017
	Library and Information Science	168	Foundations of Library and Society	101
168		Knowledge organization and classification practice	103	
Performing Arts	162	Compulsory Foundation in Music -1	PAM-105 (P)	2017
	162	Vilambakala Kritis	PA-M 204 (P)	2017
	162	Compulsory Foundation in Music -2	PA-M 205 (p)	2017
	162	Compositions in Rare ragas (P)	PA-M 302 (P)	2017

Performing Arts	162	Concert (P)	PA-M 303(P)	2017
	162	Ragam Tanam Pallavi	PA-M 402 (P)	2017
	162	Project work	PA-M 403 (T)	2017
	162	Compositions of Dance Repertoire	PA-M 404(C)	2017
Population studies	126	Population Studies	PS	1973
	127	Social Work	MSW	2005
Sanskrit	132	132	SANSKRIT	2016
	204	Biochemical and biophysical Methods	Core1	2017-18
	204	Molecular physiology and community nutrition	Core2	2017-18
	204	Microbial biochemistry	Core1	2017-18
	204	Clinical immunology	Generic elective-a	2017-18
Biotechnology	264	Advanced Tools and Techniques	102	2017
	264	Practical related to Analytical methods	103P	2017
	264	Microbiology and Immunology	105	2017
	264	Practical related to Molecular Biology	203P	2017
	264	Practical related to Enzymology	204P	2017
	264	Genetic Engineering	301	2017
	264	Cell and Tissue Culture	302	2017
	264	Practical related to Microbiology	303P	2017
	264	Practical related to Tissue culture	304P	2017
	264	Bioprocess Engineering and Technology	305 a	2017
	264	Food and Industrial Biotechnology	305c	2017
	264	Environmental Biotechnology	401	2017
	264	Plant Biotechnology	402	2017
	264	Pharmaceutical Biotechnology	405a	2017
	264	Tools in Biotechnology	406a	2017
264	Immunology	406b	2017	
Chemistry	208	Human Values and Professional ethics I	CHE 107	2017
	208	Organic Chemistry III	CHE OC 303	2017

	208	Applied and Environmental aspects	CHE AC 403a	2017
Environmental Sciences	266	Ecology and Environment	ENV-101	2017
	266	Environmental Toxicology and Public Health	ENV-105	2017
	266	Environmental Pollution	ENV-202	2017
	266	Natural Resources Conservation	ENV-306 A	2017
	266	Environmental Education	ENV-306B	2017
	266	Watershed and Water Resources Management	ENV-401	2017
	266	Global Environmental Issues	ENV-406 B	2017
	Fishery Sciences & Aquaculture	267	Fish Nutrition Technology	AQC: 308
Geography	228	Geomorphology	GEG - 101	2017
	228	Climatology	GEG - 201	2017
	228	Cartography	GEG - 102	2017
	228	Economic Geography	GEG – 103(A)	2017
	228	Human Geography	GEG – 103(B)	2017
	228	Regional Geography of Andhra Pradesh	GEG – 104(C)	2017
	228	Map Projections	GEG – 105	2017
	228	Techniques of Mapping and map analysis	GEG – 106	2017
	228	Industrial Geography	GEG – 203(C)	2017
	228	Regional Geography of India	GEG – 204(B)	2017
	228	Agricultural Geography	GEG – 303(A)	2017
	228	Transport geography	GEG – 303(B)	2017
	228	Disaster Management Studies	GEG – 303(C)	2017
	228	Geographical Information System (GIS)	GEG – 304	2017
	228	Geographical Information System (GIS)	GEG – 302	2017
	228	Regional Planning	GEG – 401	2017
	228	Advanced Remote Sensing	GEG – 402	2017

	228	Water and Soil Resources Management	GEG – 403(A)	2017
	228	Research in Geographical Studies	GEG – 403(C)	2017
	228	Remote Sensing Applications	GEG - 404	2017
PhD- Geography	228	Research Methodology	GEG- RS1	2017
	228	Focusing on Local geographical needs	GEG- RS1	2017
	224	Geomorphology	GEO-101	2017
	224	Crystallography & Mineralogy	GEO-102	2017
	224	Crystallography	GEO-103P	2017
	224	Geomorphology & Paleontology	GEO-104P	2017
	224	Stratigraphy & Paleontology	GEO-105	2017
	224	Human Values & Professional	GEO-106	2017
	224	Ethics-I		
	230	Clinical Nutrition and Dietetics I & II	103 & 203	2017
	230	Essential of Food and	107	2017
		Community Nutrition		
	230	Food Microbiology and Safety	202	2017
	230	Food Processing and Preservation Technology	301	2017
M Sc Food Science Nutrition and Dietetics	230	Nutrition Assessment Techniques	306b	2017
	230	Food Safety Standards and Quality Control	401	2017
	230	Food Product Development and Marketing	402	2017
	230	Nutrition for Health and Fitness	403	2017
	232	Extension Education in Community Development	102	2017
M.Sc. Extension Management and Communication Technology	232	Dynamics of Rural Society/ Dynamics of group behaviour	103-A/103-B	2017
	232	Community organization and Leadership	201	2017
	232	Rural Development Administration	301	2017

	232	Local Government in Andhra Pradesh	405	2017
MS Food Technology	254	Cereal Grains, Legumes and Oilseed Technology	FT-103	2017
	254	Essentials of Food and Community Nutrition	FT-104	2017
	254	Technology of Horticulture produce	FT-201	2017
	254	Dairy Technology	FT-203	2017
	254	Live Stock and Sea Food technology	FT-302	2017
	254	Food Product Development and Marketing	FT-402	2017
	Mathematics/Applied Mathematics	236/238	A) Business Mathematics	MA/AMA 305
236/238		Mathematical Statistics	MA/AMA 404 A	2017
236/238		Ordinary Differential Equations	MA /AMA 103	2017
236/238		Partial Differential Equations	MA /AMA 202	2017
236/238		Algebra	MA 101	2017
Microbiology	270	Biological Chemistry & Analytical Techniques	MB 101	2017
	270	Biological chemistry and analytical techniques	MB103	2017
	270	Enzymology & Microbial Physiology & Metabolism	MB104	2017
	270	Human Values and Professional Ethics – I	MB106	2017
	270	Immunology	MB201	2017
	270	Medical Microbiology	MB 202	2017
	270	Immunology	MB 203	2017
	270	Medical Microbiology	MB 204	2017
		268	Biological Chemistry & Analytical Techniques	IMB 101
268		Biological chemistry and analytical techniques	IMB103	2017

Industrial microbiology	268	Enzymology & Microbial Physiology	IMB104	2017
		& Metabolism		
	268	Human Values and Professional Ethics – I	IMB106	2017
	268	Immunology	IMB201	2017
	268	Medical Microbiology	IMB 202	2017
	268	Immunology	IMB 203	2017
	268	Medical Microbiology	IMB 204	2017
	268	Pharmaceutical Microbiology	IMB406(b)	2017
Physics	242	Analog and Digital Electronics	242	2016
	242	Computational Methods & C language	242	2016
	272	Applied Virology	405 A	2017-2022
Virology	272	Biological Chemistry & Analytical Techniques (P)	105	2017-2022
	272	Plant Virlogy & Virus Diseases (P)	303	2017-2022
	260	Invertebrata& Chordata	ZOO-101	2017
Zoology	260	Economic Zoology	ZOO-306A	2017
	260	Neurobiology	ZOO-401	2017
	260	Animal Behaviour& Wild Life	ZOO-405B	2017
	269	Metabolic Regulation & Cell Function (MRCF)	ABT- Core-101	2017
MBA	198	Advertising and Sales Promotion Management	314	2017
	198	Management of Industrial Relations	332	2017



MCA	262	Discrete Mathematical Structures	MCA	2017
	262	Business Management	MCA	2017
	262	Technical Communication and Computer Ethics	MCA	2017
	262	Accounting and Financial Management	MCA	2017
	262	Accounting Essentials for Computer Applications	MCA	2017
	262	Environmental Studies	253	2017
	262	Human Rights And Value Education	253	2017
	262	Principles Of Management	253	2017
M.Com (Regular)	358	Managerial Economics	104	2017
	358	Marketing Management	203	2017
	358	Internal Audit and Standard Audit Practices	304	2017
	358	Fundamentals of Accounting	305a	2017
	358	Project Report & Viva – Voce	404	2017
M.Com (A&F)	357	Managerial Economics	104	2017
	357	Marketing Management	203	2017
	357	Internal Audit and Standard Audit Practices	304	2017
	357	Fundamentals of Accounting	305a	2017
	357	Project Report & Viva – Voce	404	2017
M.Com (FM)	355	Managerial Economics	104	2017
	355	Marketing Management	203	2017
	355	Internal Audit and Standard Audit Practices	304	2017
	355	Fundamentals of Accounting	305a	2017
	355	Project Report & Viva – Voce	404	2017

**LOCAL NEEDS 2018-19**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
AIHC & Archaeology	114	History of Ancient India upto 550 A.D.	101	2018
	114	History of Ancient India upto 550 A.D.	101	2018
	114	History of Ancient India upto 550 A.D.	101	2018
	114	History of Ancient India upto 550 A.D.	101	2018
	114	History of Ancient India upto 550 A.D.	101	2018
	114	History of Ancient India upto 550 A.D.	101	2018
	114	History of Ancient India upto 550 A.D.	101	2018
	114	History of Ancient India upto 550 A.D.	101	2018
	114	History of Ancient India upto 550 A.D.	101	2018
	114	History of Ancient India upto 550 A.D.	101	2018
	114	History of Ancient India upto 550 A.D.	101	2018
	114	History of Ancient India upto 550 A.D.	101	2018
	114	History of Ancient India upto 550 A.D.	101	2018
	114	History of Ancient India upto 550 A.D.	101	2018
Centre for Womens Studies	239	Women's Studies- concepts, Principals & Issues	SVUWS- 101	2018
	239	Human Values And Ethics	SVUWS-106A	2018
	239	Leadership values	SVUWS-106B	2018
	239	Human values & Professional Ethics	SVUWS-206A	2018
	239	Familial values and Ethics	SVUWS-206B	2018
Economics	104	Andhra Pradesh Economy	404 (b)	2018
Education	103	Fundamentals of Educational Research - 103		2018
	106A	Measurement and Evaluation- 106A		2018
	202	Advanced Education Research - 202		2018

History	118	MA.HISTORY	101	2018
	118	MA.HISTORY	102	2018
	118	MA.HISTORY	103	2018
	118	MA.HISTORY	106a	2018
	118	MA.HISTORY	201	2018
	118	MA.HISTORY	202	2018
	118	MA.HISTORY	203	2018
	118	MA.HISTORY	206A	2018
	118	MA.HISTORY	206B	2018
	118	MA.HISTORY	301	2018
	118	MA.HISTORY	302	2018
	118	MA.HISTORY	303C	2018
	118	MA.HISTORY	303D	2018
	118	MA.HISTORY	401	2018
	118	MA.HISTORY	402	2018
118	MA.HISTORY	403B	2018	

Law	154	Contracts-I	BA LLB -1.4	2018
	154	Contracts-II	BA LLB -2.4	2018
	154	Law of Torts and Consumer Protection Act	BA LLB -3.3	2018
	154	Constitutional Law-I	BA LLB -3.4	2018
	154	Constitutional Law-II	BA LLB -4.3	2018
	154	Administrative Law	BA LLB -4.4	2018
	154	History of Courts, Legislation and Legal Profession in India	BA LLB -5.3	2018
	154	Law of Crimes-I (IPC)	BA LLB -5.4	2018
	154	Family Law-I	BA LLB -5.5	2018
	154	Legal Language and Legal Writing	BA LLB -6.3	2018
	154	Jurisprudence	BA LLB -6.4	2018
	154	Environmental Law	BA LLB -6.5	2018
	154	Property Law(Including Transfer of Property Act and Easement Act)	BA LLB -7.1	2018
	154	Labour Law-I	BA LLB -7.2	2018
	154	Company Law	BA LLB -7.3	2018
	154	Interpretation of Statutes	BA LLB -7.5	2018
	154	Labour Law-II	BA LLB -8.1	2018
	154	Family Law-II	BA LLB -8.2	2018
	154	Taxation Law	BA LLB -8.3	2018
	154	Intellectual Property Law	BA LLB -8.4	2018
	154	Land Law Including Tenure and Tenancy System	BA LLB -8.5	2018
	154	Civil Procedure Code and Limitation Act	BA LLB -9.1	2018
	154	Law of Crimes-II (Criminal Procedure Code)	BA LLB -9.2	2018
	154	Law of Evidence	BA LLB -9.3	2018
	154	Banking Law	BA LLB -9.4	2018
	154	Media Law with RTI	BA LLB -9.5	2018
	154	Drafting, Pleading and Conveyancing	BA LLB -10.1	2018

154	Professional Ethics and Accounting System	BA LLB -10.2	2018
154	Alternative Dispute Resolution	BA LLB -10.3	2018
154	Moot Court Exercise and Internship	BA LLB -10.4	2018
154	Penology and Victimology	BA LLB -10.5	2018

Library and Information Science	168	Foundations of Library and Society	101	2018
	168	Knowledge organization and classification practice	103	
Performing Arts	162	Compulsory Foundation in Music -1	PAM-105 (P)	2017
	162	Vilambakala Kritis	PA-M 204 (P)	2017
	162	Compulsory Foundation in Music -2	PA-M 205 (p)	2017
	162	Compositions in Rare ragas (P)	PA-M 302 (P)	2017
	162	Concert (P)	PA-M 303(P)	2017
	162	Ragam Tanam Pallavi	PA-M 402 (P)	2017
	162	Project work	PA-M 403 (T)	2017
	162	Compositions of Dance Repertoire	PA-M 404(C)	2017
Population studies	126	Population Studies	PS	2018
Social work	127	Social Work	MSW	2018
Sanskrit	132	M.A	SANSKRIT	2018
Biochemistry	204	Biochemical and biophysical Methods	Core1	2018-19
	204	Molecular physiology and community nutrition	Core2	2018-19
	204	Microbial biochemistry	Core1	2018-19
	204	Clinical immunology	Generic elective-a	2018-19

M.Sc. Biotechnology	264	Advanced Tools and Techniques	102	2017
	264	Microbiology and Immunology	105	2017
	264	Practicals related to Biochemical Preparations and Analysis & Analytical Methods	103P	2018
	264	Practicals related to Microbiology and Immunology	104P	2018
	264	Practical related to Enzymology& Molecular Biology	203P	2018
	264	Genetic Engineering	301	2017
	264	C ell and Tissue Culture	302	2017
	264	Practicals related to Genetic Engineering, Cell and Tissue culture & Food and Industrial Biotechnology	303P	2018
	264	Bioprocess Engineering and Technology	304 a.	2017
	264	Food and Industrial Biotechnology	304c	2017
	264	Environmental Biotechnology	401	2017
	264	Plant Biotechnology	402	2017
	264	Pharmaceutical Biotechnology	404a	2017
	264	Tools in Biotechnology	405a	2017
	264	Immunology	405b	2017
	266	Ecology and Environment	ENV-101	2018
	266	Environmental Toxicology and Public Health	ENV-105	2018
	266	Environmental Pollution	ENV-202	2018
	266	Natural Resources Conservation	ENV-306 A	2018
	266	Environmental Education	ENV-305 C	2018
	266	Watershed and Water Resources Management	ENV-401	2018

M.Sc., Aquaculture	267	Fish Nutrition Technology	AQC: 305	2018
Geophrapy	224	Geomorphology	GEO-101	2018
	224	Crystallography & Mineralogy	GEO-102	2018
	224	Crystallography & Mineralogy	GEO-103P	2018
	224	Geomorphology & Paleontology	GEO-104P	2018
	224	Stratigraphy & Paleontology	GEO-105	2018
	224	Human Values & Professional	GEO-106	2018
		Ethics-I		
Food Science Nutrition & Dietetics	230	Clinical Nutrition and Dietetics I & II	103 & 203	2018
	230	Essential of Food and	107	2018
		Community Nutrition		
	230	Food Microbiology and Safety	202	2018
	230	Food Processing and Preservation Technology	301	2018
	230	Nutrition Assessment Techniques	306b	2018
	230	Food Safety Standards and Quality Control	401	2018
	230	Food Product Development and Marketing	402	2018
230	Nutrition for Health and Fitness	403	2018	
M.Sc. Extension Management and Communication Technology	234	Extension Education in Community Development	102	2017
	234	Dynamics of Rural Society/ Dynamics of group behaviour	103-A/103-B	2017
	234	Community organization and Leadership	201	2017
	234	Rural Development Administration	301	2017
	234	Local Government in Andhra Pradesh	405	2017
MS Food Technology	254	Cereal Grains, Legumes and Oilseed Technology	FT-103	2017



	254	Essentials of Food and Community Nutrition	FT-104	2017
	254	Technology of Horticulture produce	FT-201	2017
	254	Dairy Technology	FT-203	2017
	254	Live Stock and Sea Food technology	FT-302	2017
	254	Food Product Development and Marketing	FT-402	2017
Microbiology	270	Biological Chemistry & Analytical Techniques	MB 101	2017
	270	Biological chemistry and analytical techniques	MB103	2017
	270	Enzymology & Microbial Physiology	MB104	2017
		& Metabolism		
	270	Human Values and Professional Ethics – I	MB106	2017
	270	Immunology	MB201	2017
	270	Medical Microbiology	MB 202	2017
	270	Immunology	MB 203	2017
270	Medical Microbiology	MB 204	2017	
	268	Biological Chemistry & Analytical Techniques	IMB 101	2017
	268	Biological chemistry and analytical techniques	IMB103	2017
	268	Enzymology & Microbial Physiology	IMB104	2017
		& Metabolism		
	268	Human Values and Professional Ethics – I	IMB106	2017
	268	Immunology	IMB201	2017
	268	Medical Microbiology	IMB 202	2017
	268	Immunology	IMB 203	2017
268	Medical Microbiology	IMB 204	2017	
	268	Pharmaceutical Microbiology	IMB406(b)	2017

Physics	242	Analog and Digital Electronics	242	2018
	242	Computational Methods & C language	242	2018
Virology	272	Applied Virology	405 A	2017-2022
	272	Biological Chemistry & Analytical Techniques (P)	105	2017-2022
	272	Plant Virlogy & Virus Diseases (P)	303	2017-2022
M.Sc. Zoology	260	Invertebrata& Chordata	ZOO-101	2018
	260	Economic Zoology	ZOO-306A	2018
	260	Neurobiology	ZOO-401	2018
	260	Animal Behaviour& Wild Life	ZOO-405B	2018
Animal Biotechnology	269	Metabolic Regulation & Cell Function (MRCF)	ABT- Core-101	2018
MBA	198	Business management MBA	314	2018
	198		332	2018
	262	Discrete Mathematical Structures	MCA	2018
	262	Technical Communication and Computer Ethics	MCA	2018
	262	Soft Skills	MCA	2018
	262	Accounting Essentials for Computer Applications	MCA	2018
	262	Human Rights & Value Education	MCA	2018
	262	Environmental Studies	253	2018
	262	Human Rights And Value Education	253	2018
	262	Principles Of Management	253	2018
M.Com (Regular)	358	Managerial Economics	104	2018
	358	Marketing Management	203	2018
	358	Internal Audit and Standard Audit Practices	304	2018
	358	Fundamentals of Accounting	305A	2018
	358	Project Report & Viva – Voce	404	2018
M.Com (A&F)	357	Managerial Economics	104	2018
	357	Marketing Management	203	2018

	357	Internal Audit and Standard Audit Practices	304	2018
	357	Fundamentals of Accounting	305A	2018
	357	Project Report & Viva – Voce	404	2018
M.Com (FM)	355	Managerial Economics	104	2018
	355	Marketing Management	203	2018
	355	Internal Audit and Standard Audit Practices	304	2018
	355	Fundamentals of Accounting	305A	2018
	355	Project Report & Viva – Voce	404	2018

**LOCAL NEEDS 2019-20**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
AIHC & Archaeology	114	History of Ancient India upto 550 A.D.	101	2019
	114	History of Ancient India upto 550 A.D.	101	2019
	114	History of Ancient India upto 550 A.D.	101	2019
	114	History of Ancient India upto 550 A.D.	101	2019
	114	History of Ancient India upto 550 A.D.	101	2019
	114	History of Ancient India upto 550 A.D.	101	2019
	114	History of Ancient India upto 550 A.D.	101	2019
	114	History of Ancient India upto 550 A.D.	101	2019
	114	History of Ancient India upto 550 A.D.	101	2019
	114	History of Ancient India upto 550 A.D.	101	2019
	114	History of Ancient India upto 550 A.D.	101	2019
	114	History of Ancient India upto 550 A.D.	101	2019
	114	History of Ancient India upto 550 A.D.	101	2019
	114	History of Ancient India upto 550 A.D.	101	2019
Centre for Womens Studies	239	Women's Studies- concepts, Principals & Issues	SVUWS- 101	2019
	239	Human Values And Ethics	SVUWS-106A	2019
	239	Leadership values	SVUWS-106B	2019
	239	Human values & Professional Ethics	SVUWS-206A	2019
	239	Familial values and Ethics	SVUWS-206B	2019
Economics	104	Andhra Pradesh Economy	404 (b)	2019
Education	299	Fundamentals of Educational Research - 103		2019
	299	Measurement and Evaluation- 106A		2019
	299	Advanced Education Research - 202		2019
History	118	MA.HISTORY	101	2019
	118	MA.HISTORY	102	2019
	118	MA.HISTORY	103	2019
	118	MA.HISTORY	106a	2019
	118	MA.HISTORY	201	2019
	118	MA.HISTORY	202	2019
	118	MA.HISTORY	203	2019
	118	MA.HISTORY	206A	2019
	118	MA.HISTORY	206B	2019

	118	MA.HISTORY	301	2019
	118	MA.HISTORY	302	2019
	118	MA.HISTORY	303C	2019
	118	MA.HISTORY	303D	2019
	118	MA.HISTORY	401	2019
	118	MA.HISTORY	402	2019
	118	MA.HISTORY	403B	2019
Law	154	Contracts-I	BA LLB -1.4	2019
	154	Contracts-II	BA LLB -2.4	2019
	154	Law of Torts and Consumer Protection Act	BA LLB -3.3	2019
	154	Constitutional Law-I	BA LLB -3.4	2019
	154	Constitutional Law-II	BA LLB -4.3	2019
	154	Administrative Law	BA LLB -4.4	2019
	154	History of Courts, Legislation and Legal Profession in India	BA LLB -5.3	2019
	154	Law of Crimes-I (IPC)	BA LLB -5.4	2019
	154	Family Law-I	BA LLB -5.5	2019
	154	Legal Language and Legal Writing	BA LLB -6.3	2019
	154	Jurisprudence	BA LLB -6.4	2019
	154	Environmental Law	BA LLB -6.5	2019
	154	Property Law(Including Transfer of Property Act and Easement Act)	BA LLB -7.1	2019
	154	Labour Law-I	BA LLB -7.2	2019
	154	Company Law	BA LLB -7.3	2019
	154	Interpretation of Statutes	BA LLB -7.5	2019
	154	Labour Law-II	BA LLB -8.1	2019
	154	Family Law-II	BA LLB -8.2	2019
	154	Taxation Law	BA LLB -8.3	2019
	154	Intellectual Property Law	BA LLB -8.4	2019
	154	Land Law Including Tenure and Tenancy System	BA LLB -8.5	2019
	154	Civil Procedure Code and Limitation Act	BA LLB -9.1	2019
	154	Law of Crimes-II (Criminal Procedure Code)	BA LLB -9.2	2019
	154	Law of Evidence	BA LLB -9.3	2019
	154	Banking Law	BA LLB -9.4	2019
	154	Media Law with RTI	BA LLB -9.5	2019

	154	Drafting, Pleading and Conveyancing	BA LLB -10.1	2019
	154	Professional Ethics and Accounting System	BA LLB -10.2	2019
	154	Alternative Dispute Resolution	BA LLB -10.3	2019
	154	Moot Court Exercise and Internship	BA LLB -10.4	2019
	154	Penology and Victimology	BA LLB -10.5	2019
Library and Information Science	168	Foundations of Library and Society	101	2019
	168	Knowledge organization and classification practice	103	
Performing Arts	162	Compulsory Foundation in Music -1	PAM-105 (P)	2019
	162	Vilambakala Kritis	PA-M 204 (P)	2019
	162	Compulsory Foundation in Music -2	PA-M 205 (p)	2019
	162	Compositions in Rare ragas (P)	PA-M 302 (P)	2019
	162	Concert (P)	PA-M 303(P)	2019
	162	Ragam Tanam Pallavi	PA-M 402 (P)	2019
	162	Project work	PA-M 403 (T)	2019
	162	Compositions of Dance Repertoire	PA-M 404(C)	2019
Population studies	126	Population Studies	PS	2019
Social Work	127	Social Work	MSW	2019
Sanskrit	132	M.A	SANSKRIT	2019
Biochemistry	204	Biochemical and biophysical Methods	Core1	2019
	204	Molecular physiology and community nutrition	Core2	2019
	204	Microbial biochemistry	Core1	2019
	204	Clinical immunology	Generic elective-a	2019
M.Sc. Botany	202	Biosystematics	BOT-303 IE	2019
	202	Plants and Human Welfare	BOT-307 EE	2019
	202	Computer Application and Bioinformatics	BOT-307 IE	2019
	202	Cell Biology, Genetics & Evolution	BOT-204 Elec.	2019
	202	Hydroponics	BOT-407 EE	2019
	202	Plant Disease & Management	BOT-409 EE	2019
	264	Advanced Tools and Techniques	102	2019
	264	Microbiology and Immunology	105	2019
	264	Practicals related to Biochemical Preparations and Analysis & Analytical Methods	103P	2019
	264	Practicals related to Microbiology and Immunology	104P	2019

M.Sc. Biotechnology	264	Practical related to Enzymology& Molecular Biology	203P	2019
	264	Genetic Engineering	301	2019
	264	C ell and Tissue Culture	302	2019
	264	Practicals related to Genetic Engineering, Cell and Tissue culture & Food and Industrial Biotechnology	303P	2019
	264	Bioprocess Engineering and Technology	304 a.	2019
	264	Food and Industrial Biotechnology	304c	2019
	264	Environmental Biotechnology	401	2019
	264	Plant Biotechnology	402	2019
	264	Pharmaceutical Biotechnology	404a	2019
	264	Tools in Biotechnology	405a	2019
	264	Immunology	405b	2019
M.Sc. Environmental Sciences	266	Ecology and Environment	ENV-101	2019
	266	Environmental Toxicology and Public Health	ENV-105	2019
	266	Environmental Pollution	ENV-202	2019
	266	Natural Resources Conservation	ENV-306 A	2019
	266	Environmental Education	ENV-306 B	2019
	266	Watershed and Water Resources Management	ENV-401	2019
Fishery Sciences & Aquaculture	267			
	267	Fish Nutrition Technology	AQC: 305	2020
M.Sc. Geology	224	Geomorphology	GEO-101	2019
	224	Crystallography & Mineralogy	GEO-102	2019
	224	Crystallography & Mineralogy	GEO-103P	2019
	224	Geomorphology & Paleontology	GEO-104P	2019
	224	Stratigraphy & Paleontology	GEO-105	2019
	224	Human Values & Professional	GEO-106	2019
	230	Clinical Nutrition and Dietetics I & II	103 & 203	2019
	230	Essential of Food and	107	2019
		Community Nutrition		
	230	Food Microbiology and Safety	202	2019

M Sc Food Science Nutrition and Dietetics	230	Food Processing and Preservation Technology	301	2019
	230	Nutrition Assessment Techniques	306b	2019
	230	Food Safety Standards and Quality Control	401	2019
	230	Food Product Development and Marketing	402	2019
	230	Nutrition for Health and Fitness	403	2019
M.Sc. Extension Management and Communication Technology	234	Extension Education in Community Development	102	2019
	234	Dynamics of Rural Society/ Dynamics of group behaviour	103-A/103-B	2019
	234	Community organization and Leadership	201	2019
	234	Rural Development Administration	301	2019
	234	Local Government in Andhra Pradesh	405	2019
MS Food Technology	254	Cereal Grains, Legumes and Oilseed Technology	FT-103	2019
	254	Essentials of Food and Community Nutrition	FT-104	2019
	254	Technology of Horticulture produce	FT-201	2019
	254	Dairy Technology	FT-203	2019
	254	Live Stock and Sea Food technology	FT-302	2019
	254	Food Product Development and Marketing	FT-402	2019
Microbiology	270	Biological Chemistry & Analytical Techniques	MB 101	2019
	270	Biological chemistry and analytical techniques	MB103	2019
	270	Enzymology & Microbial Physiology	MB104	2019
		& Metabolism		2019
	270	Human Values and Professional Ethics – I	MB106	2019
				2019
	270	Immunology	MB201	2019
	270	Medical Microbiology	MB 202	2019
	270	Immunology	MB 203	2019
270	Medical Microbiology	MB 204	2019	
	268	Biological Chemistry & Analytical Techniques	IMB 101	2019
	268	Biological chemistry and analytical techniques	IMB103	2019
	268	Enzymology & Microbial Physiology	IMB104	2019
		& Metabolism		2019



Industrial Microbiology	268	Human Values and Professional Ethics – I	IMB106	2019
				2019
	268	Immunology	IMB201	2019
	268	Medical Microbiology	IMB 202	2019
	268	Immunology	IMB 203	2019
	268	Medical Microbiology	IMB 204	2019
	268	Pharmaceutical Microbiology	IMB406(b)	2019
Virology	272	Applied Virology	405 A	2019
	272	Biological Chemistry & Analytical Techniques (P)	105	2019
	272	Plant Virlogy & Virus Diseases (P)	303	2019
M.Sc. Zoology	260	Invertebrata& Chordata	ZOO-101	2019
	260	Economic Zoology	ZOO-306A	2019
	260	Neurobiology	ZOO-401	2019
	260	Animal Behaviour& Wild Life	ZOO-405B	2019
Animal Biotechnology	269	Metabolic Regulation & Cell Function (MRCF)	ABT- Core-101	2019
Business Management	198	Advertising and Sales Promotion Management	314	2019
	198	Management of Industrial Relations	332	2019
MCA	262	Discrete Mathematical Structures	MCA	2019
	262	Technical Communication and Computer Ethics	MCA	2019
	262	Soft Skills	MCA	2019
	262	Accounting Essentials for Computer Applications	MCA	2019
	262	Human Rights & Value Education	MCA	2019
	262	Environmental Studies	253	2019
	262	Human Rights And Value Education	253	2019
	262	Principles Of Management	253	2019
	M.Com (Regular)	358	Managerial Economics	104
358		Marketing Management	203	2019
358		Internal Audit and Standard Audit Practices	304	2019
358		Fundamentals of Accounting	305a	2019
358		Project Report & Viva – Voce	404	2019
	357	Managerial Economics	104	2019

M.Com (A&F)	357	Marketing Management	203	2019
	357	Internal Audit and Standard Audit Practices	304	2019
	357	Fundamentals of Accounting	305a	2019
	357	Project Report & Viva – Voce	404	2019
M.Com (FM)	355	Managerial Economics	104	2019
	355	Marketing Management	203	2019
	355	Internal Audit and Standard Audit Practices	304	2019
	355	Fundamentals of Accounting	305a	2019
	355	Project Report & Viva – Voce	404	2019

**LOCAL NEEDS 2020-21**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
AIHC & Archaeology	114	History of Ancient India upto 550 A.D.	101	2020
	114	History of Ancient India upto 550 A.D.	101	2020
	114	History of Ancient India upto 550 A.D.	101	2020
	114	History of Ancient India upto 550 A.D.	101	2020
	114	History of Ancient India upto 550 A.D.	101	2020
	114	History of Ancient India upto 550 A.D.	101	2020
	114	History of Ancient India upto 550 A.D.	101	2020
	114	History of Ancient India upto 550 A.D.	101	2020
	114	History of Ancient India upto 550 A.D.	101	2020
	114	History of Ancient India upto 550 A.D.	101	2020
	114	History of Ancient India upto 550 A.D.	101	2020
	114	History of Ancient India upto 550 A.D.	101	2020
	114	History of Ancient India upto 550 A.D.	101	2020
Centre for Womens Studies	239	Gender & Society	SVUWS-102	2020
	239	Internship Cum Seminar Presentation	SVUWS-303	2020
	239	Guidance and Counseling with Gender Perceptions	SVUWS-304B	2020
	239	Gender Based Violence – Issues to concerns	SVUWS-304C	2020
	239	Entrepreneurship Management & Development	SVUWS-401	2020
	239	Women’s Legislations – Gender Concerns	SVUWS-402	2020
	239	Participatory learning, Extension and outreach programmes and Advocacy with focus on Women	SVUWS-404A	2020
	239	Human Rights with Gender Lens	SVUWS-206A	2020
Economics	104	Andhra Pradesh Economy	404 (b)	2020
Education	299	Fundamentals of Educational Research - 103		2020
		Measurement and Evaluation- 106A		2020
		Advanced Education Research - 202		
History	118	MA.HISTORY	101	2020
	118	MA.HISTORY	102	2020
	118	MA.HISTORY	103	2020
	118	MA.HISTORY	106a	2020
	118	MA.HISTORY	201	2020
	118	MA.HISTORY	202	2020
	118	MA.HISTORY	203	2020
	118	MA.HISTORY	206A	2020
	118	MA.HISTORY	206B	2020
	118	MA.HISTORY	301	2020
	118	MA.HISTORY	302	2020
	118	MA.HISTORY	303C	2020
	118	MA.HISTORY	303D	2020
	118	MA.HISTORY	401	2020
	118	MA.HISTORY	402	2020
118	MA.HISTORY	403B	2020	
	154	Contracts-I	BA LLB -1.4	2020
	154	Contracts-II	BA LLB -2.4	2020
	154	Law of Torts and Consumer Protection Act	BA LLB -3.3	2020
	154	Constitutional Law-I	BA LLB -3.4	2020
	154	Constitutional Law-II	BA LLB -4.3	2020
	154	Administrative Law	BA LLB -4.4	2020
	154	History of Courts, Legislation and Legal Profession in India	BA LLB -5.3	2020
	154	Law of Crimes-I (IPC)	BA LLB -5.4	2020
	154	Family Law-I	BA LLB -5.5	2020
	154	Legal Language and Legal Writing	BA LLB -6.3	2020

Law	154	Jurisprudence	BA LLB -6.4	2020
	154	Environmental Law	BA LLB -6.5	2020
	154	Property Law(Including Transfer of Property Act and Easement Act)	BA LLB -7.1	2020
	154	Labour Law-I	BA LLB -7.2	2020
	154	Company Law	BA LLB -7.3	2020
	154	Interpretation of Statutes	BA LLB -7.5	2020
	154	Labour Law-II	BA LLB -8.1	2020
	154	Family Law-II	BA LLB -8.2	2020
	154	Taxation Law	BA LLB -8.3	2020
	154	Intellectual Property Law	BA LLB -8.4	2020
	154	Land Law Including Tenure and Tenancy System	BA LLB -8.5	2020
	154	Civil Procedure Code and Limitation Act	BA LLB -9.1	2020
	154	Law of Crimes-II (Criminal Procedure Code)	BA LLB -9.2	2020
	154	Law of Evidence	BA LLB -9.3	2020
	154	Banking Law	BA LLB -9.4	2020
	154	Media Law with RTI	BA LLB -9.5	2020
	154	Drafting, Pleading and Conveyancing	BA LLB -10.1	2020
	154	Professional Ethics and Accounting System	BA LLB -10.2	2020
	154	Alternative Dispute Resolution	BA LLB -10.3	2020
	154	Moot Court Exercise and Internship	BA LLB -10.4	2020
154	Penology and Victimology	BA LLB -10.5	2020	
Library and Information Science	168	Foundations of Library and Society	101	2020
	168	Knowledge organization and classification practice	103	
Performing Arts	162	Compulsory Foundation in Music -1	PAM-105 (P)	2020
	162	Vilambakala Kritis	PA-M 204 (P)	2020
	162	Compulsory Foundation in Music -2	PA-M 205 (p)	2020
	162	Compositions in Rare ragas (P)	PA-M 302 (P)	2020
	162	Concert (P)	PA-M 303(P)	2020
	162	Ragam Tanam Pallavi	PA-M 402 (P)	2020
	162	Project work	PA-M 403 (T)	2020
162	Compositions of Dance Repertoire	PA-M 404(C)	2020	
Population studies	126	Population Studies	PS	2020
MSW	127	Social Work	MSW	2020
Sanskrit	132	M.A	SANSKRIT	2020
Biochemistry	204	Biochemical and biophysical Methods	Core1	2020
	204	Molecular physiology and community nutrition	Core2	2020
	204	Microbial biochemistry	Core1	2020
	204	Clinical immunology	Generic elective-a	2020
Botany	202	Biosystematics	BOT-303 IE	2020
	202	Plants and Human Welfare	BOT-307 EE	2020
	202	Computer Application and Bioinformatics	BOT-307 IE	2020
	202	Cell Biology, Genetics & Evolution	BOT-204 Elec.	2020
	202	Hydroponics	BOT-407 EE	2020
	202	Plant Disease & Management	BOT-409 EE	2020
Environmental Sciences	266	Ecology and Environment	ENV-101	2020
	266	Environmental Toxicology and Public Health	ENV-105	2020
		Environmental Pollution	ENV-202	2020
	ENV	Natural Resources Conservation	ENV-306 A	2020
	ENV	Environmental Education	ENV-306 B	2020
	ENV	Watershed and Water Resources Management	ENV-401	2020
Geology	224	Geomorphology	GEO-101	2020
	224	Crystallography & Mineralogy	GEO-102	2020
	224	Crystallography & Mineralogy	GEO-103P	2020

Geology	224	Geomorphology & Paleontology	GEO-104P	2020
	224	Stratigraphy & Paleontology	GEO-105	2020
	224	Human Values & Professional Ethics-I	GEO-106	2020
M Sc Food Science Nutrition and Dietetics	230	Clinical Nutrition and Dietetics I & II	103 & 203	2020
	230	Essential of Food and	107	2020
		Community Nutrition		
	230	Food Microbiology and Safety	202	2020
	230	Food Processing and Preservation Technology	301	2020
	230	Nutrition Assessment Techniques	306b	2020
	230	Food Safety Standards and Quality Control	401	2020
	230	Food Product Development and Marketing	402	2020
	230	Nutrition for Health and Fitness	403	2020
	Extension Management and Communication Technology	234	Extension Education in Community Development	102
234		Dynamics of Rural Society/ Dynamics of group behaviour	103-A/103-B	2020
234		Community organization and Leadership	201	2020
234		Rural Development Administration	301	2020
234		Local Government in Andhra Pradesh	405	2020
MS Food Technology	254	Cereal Grains, Legumes and Oilseed Technology	FT-103	2020
	254	Essentials of Food and Community Nutrition	FT-104	2020
	254	Technology of Horticulture produce	FT-201	2020
	254	Dairy Technology	FT-203	2020
	254	Live Stock and Sea Food technology	FT-302	2020
	254	Food Product Development and Marketing	FT-402	2020
Microbiology	270	Biological Chemistry & Analytical Techniques	MB 101	2020
	270	Biological chemistry and analytical techniques	MB103	2020
	270	Enzymology & Microbial Physiology & Metabolism	MB104	2020
		2020		
	270	Human Values and Professional Ethics – I	MB106	2020
	270	Immunology	MB201	2020
	270	Medical Microbiology	MB 202	2020
	270	Immunology	MB 203	2020
270	Medical Microbiology	MB 204	2020	
Industrial Microbiology	268	Biological Chemistry & Analytical Techniques	IMB 101	2020
	268	Biological chemistry and analytical techniques	IMB103	2020
	268	Enzymology & Microbial Physiology & Metabolism	IMB104	2020
		2020		
	268	Human Values and Professional Ethics – I	IMB106	2020
	268	Immunology	IMB201	2020
	268	Medical Microbiology	IMB 202	2020
	268	Immunology	IMB 203	2020
	268	Medical Microbiology	IMB 204	2020
268	Pharmaceutical Microbiology	IMB406(b)	2020	
Virology	272	Clinical Virology (OE)	406 A	2020
	272	Applied Virology	405 A	2020
	272	Biological Chemistry & Analytical Techniques (P)	105	2020
	272	Veterinary & Agricultural Viruses and their management (OE)	306	2020
	272	Plant Virlogy & Virus Diseases (P)	303	2020

Zoology	260	Invertebrata & Chordata	ZOO-101	2020
	260	Economic Zoology	ZOO-306A	2020
	260	Neurobiology	ZOO-401	2020
	260	Animal Behaviour & Wild Life	ZOO-405B	2020
Animal Biotechnology	269	Metabolic Regulation & Cell Function (MRCF)	ABT- Core-101	2020
Business Management	198	Advertising and Sales Promotion Management	314	2020
	198	Management of Industrial Relations	332	2020
MCA	262	Discrete Mathematical Structures	MCA	2020
	262	Accounting and Financial management	MCA	2020
	262	E – Commerce	MCA	2020
	262	Environmental Studies	253	2020
	262	Human Rights And Value Education	253	2020
	262	Principles Of Management	253	2020
	M.Com (Regular)	358	Managerial Economics	104
358		Marketing Management	203	2020
358		Internal Audit and Standard Audit Practices	304	2020
358		Fundamentals of Accounting	305a	2020
358		Project Report & Viva – Voce	404	2020
M.Com (A&F)		357	Managerial Economics	104
	357	Marketing Management	203	2020
	357	Internal Audit and Standard Audit Practices	304	2020
	357	Fundamentals of Accounting	305a	2020
	357	Project Report & Viva – Voce	404	2020
	M.Com (FM)	355	Managerial Economics	104
355		Marketing Management	203	2020
355		Internal Audit and Standard Audit Practices	304	2020
355		Fundamentals of Accounting	305a	2020
355		Project Report & Viva – Voce	404	2020

<b>LOCAL NEEDS 2021-22</b>				
<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
AIHC & Archaeology	114	(B) Advanced Archaeological Theory and Research Methodology	105(B)	2021
	114	(A) History of Indian Archaeology	205(A)	2021
	114	(B) Early History of South East Asia	206(B)	2021
	114	(C) Laboratory Methods in Scientific Archaeology	303 (C )	2021
	114	Soft Skills in Archaeology	304	2021
	114	(C) Tour Guiding and Management	403(C )	2021
	114	(D) Conservation of Cultural Property	403(D )	2021
	114	History of Science and Technology in Ancient India	404	2021
Area Studies (SEAPS)	116	Indian National Movement	SEAP 105 B	2021
MA. Tourism	123	Travel and Tourism	T 103	2021
Centre for Womens Studies	239	Gender Patriarchy and society	SVUWS-103	2021-22
	239	Capacity Building and Leadership: Gender Questions	SVUWS-303A	2021-22
	239	Guidance and Counseling with Gender Perspectives	SVUWS-303B	2021-2022
	239	Social Values and Ethics: Gender Concerns	SVUWS-305A	2021-2022
	239	Governance: Gender Issues and Challenges	SVUWS-305B	2021-2022
	239	Participatory learning, Methods and Extension Education	SVUWS-403A	2021-2022
	239	Social Structure: Gender Bias and Questions	SVUWS-403B	2021-2022
History	118	MA.HISTORY	305A	2021
	118	MA.HISTORY	305B	2021
Anthropology	244	Human Ecology	104 (b)	2021
	244	Environmental Anthropology	406-6-b	2021

Biochemistry	204	Biochemical and biophysical Methods	IMT 101	2021-22
	204	Physiology and nutrition	IMT102	2021-22
	204	Microbial biochemistry	IMT 206	2021-22
	204	Clinical immunology(SOC)	IMT 305	2021-22
M.Sc. Botany	202	Skill Oriented Course'	BOT-303	2021-2022
	202	Dissertation Project		
Biotechnology	264	Advanced Tools and Techniques	102	2021
	264	Microbiology and Immunology	105	2021
	264	Practical related to Enzymology& Molecular Biology	203P	2021
	264	Genetic Engineering	301	2021
	264	C ell and Tissue Culture	302	2021
	264	Practicals related to Genetic Engineering, Cell and Tissue culture & Food and Industrial Biotechnology	303P	2021
	264	Bioprocess Engineering and Technology	304 a.	2021
	264	Food and Industrial Biotechnology	304c	2021
	264	Environmental Biotechnology	401	2021
	264	Plant Biotechnology	402	2021
	264	Pharmaceutical Biotechnology	404a	2021
	264	Tools in Biotechnology	405a	2021
	264	Immunology	405b	2021
Environmental Sciences	254	Ecology and Environment	ENV-101	2021
	254	Environmental Toxicology and Public Health	ENV-105	2021
	254	Environmental Pollution	ENV-202	2021
	254	Occupational Health and Industrial Safety	ENV-305 B	2021
	254	Natural Resources Conservation	ENV-306 A	2021



	254	Environmental Education	ENV-306 B	2021
	254	Watershed and Water Resources Management	ENV-401	2021
Fishery Sciences & Aquaculture	267	Fish Nutrition Technology	AQC: 305	2020
Geography	228	Geomorphology	GEG - 101	2021
	228	Climatology	GEG - 201	2021
	228	Cartography	GEG - 102	2021
	228	Economic Geography	GEG – 103(A)	2021
	228	Human Geography	GEG – 103(B)	2021
	228	Computer Basics for Geography	GEG – 104 B)	2021
	228	Regional Geography of Andhra Pradesh	GEG – 104(C)	2021
	228	Map Projections	GEG – 105	2021
	228	Techniques of Mapping and map analysis	GEG – 106	2021
	228	Industrial Geography	GEG – 203(C)	2021
	228	Regional Geography of India	GEG – 204(B)	2021
	228	Agricultural Geography	GEG – 303(A)	2021
	228	Transport geography	GEG – 303(B)	2021
	228	Disaster Management Studies	GEG – 303(C)	2021
	228	Geographical Information System (GIS)	GEG – 304	2021
	228	GPS Survey and Report	GEG – 305	2021
	228	Geographical Information System (GIS)	GEG – 302	2021
	228	Regional Planning	GEG – 401	2021
	228	Advanced Remote Sensing	GEG – 402	2021

	228	Water and Soil Resources Management	GEG – 403(A)	2021
	228	Research in Geographical Studies	GEG – 403(C)	2021
	228	Remote Sensing Applications	GEG - 404	2021
PhD- Geography	228	Research Methodology	GEG- RS1	2021
	228	Focusing on Local geographical needs	GEG- RS1	2021
Geology	224	Geomorphology	GEO-101	2021
	224	Crystallography & Mineralogy	GEO-102	2021
	224	Crystallography & Mineralogy	GEO-103P	2021
	224	Geomorphology & Paleontology	GEO-104P	2021
	224	Stratigraphy & Paleontology	GEO-105	2021
	224	Human Values & Professional Ethics-I	GEO-106	2021
Food Science Nutrition and Dietetics				
	230	Clinical Nutrition and Dietetics I	102	2021
	230	Community Nutrition	104A	2021
	230	Food Microbiology and Safety	203A	2021
	230	Food Processing and Preservation Technology	301	2021
	230	Nutrition Assessment Techniques	303A	2021
	230	Food Safety Standards and Quality Control	401	2021
	230	Food Product Development and Marketing	402	2021
	230	Nutrition for Health and Fitness	403A	2021
Extension Management and Communication Technology	234			
	234	Extension Education in Community Development	102	2021
	234	Dynamics of Rural Society/ Dynamics of group behaviour	103-A/103-B	2021
	234	Community organization and Leadership	201	2021

	234	Rural Development Administration	303-A	2021
		Local Government in Andhra Pradesh	405	2021
MS Food Technology	254	Cereal Grains, Legumes and Oilseed Technology	FT-102	2021
	254	Community Nutrition	FT-104A	2021
	254	Fruit and Vegetable Technology	FT-201	2021
	254	Dairy Technology	FT-202	2021
	254	Live Stock and Sea Food technology	FT-302	2017
		Food Product Development and Marketing	FT-402	2017
	Microbiology	270	Biochemistry	MB 103
270		Introductory Microbiology & Microbial Physiology	MB105	2021
270		Biochemistry & Biophysics and Biostatistics	MB106	2021
		Medical Microbiology	MB 204	2021
270		Molecular Biology and Recombinant DNA Technology	MB 205	2021
270		Immunology and Medical Microbiology	MB 206	2021
		Food and Dairy Microbiology	MB 305	2021
270		Pharmaceutical Microbiology	MB 403a	2021
270		Industrial based microbial clean Technology	MB 403b	2021
270		Field Trip/ Industrial Tour Report / Dissertation	MB 405	2021
		Microbial Production of Alcoholic beverages.	MB 406b	2021
268		Biochemistry	MBR 103	2021

	200	BIOCHEMISTRY	IMB 105	2021	
Industrial Microbiology	268	Introductory Microbiology & Microbial Physiology	IMB105	2021	
	268	Biochemistry & Biophysics and Biostatistics	IMB106	2021	
	268	Medical Microbiology	IMB 204	2021	
	268	Molecular Biology and Recombinant DNA Technology	IMB 205	2021	
	268	Immunology and Medical Microbiology	IMB 206	2021	
	268	Basics of Industrial Microbiology	IMB 301	2021	
	268	Pharmaceutical Microbiology	IMB303a	2021	
	268	Basics of Industrial Microbiology and Bioprocessing of Industrial Microbiology	IMB 304	2021	
	268	Industrial Food Microbiology	IMB 305	2021	
	268	a) Industrial production of Microbial product	IMB-403a	2021	
	268	b) Industrial Microbial Technology	IMB-403b	2021	
			Animal and plant cell culture and Industrial based Microbial clean technology	IMB-404	2021
	Physics	242	Analog and Digital Electronics	242	2021
		242	Computational Methods & C language	242	2021
		242	Computer Architecture and Networking	242	2021
Virology	272	Clinical Virology (OE)	406 A	2020-2022	
	272	Applied Virology	405 A	2017-2022	
	272	Biological Chemistry & Analytical Techniques (P)	105	2017-2022	
	272	Veterinary & Agricultural Viruses and their management (OE)	306	2020-2022	
		Plant Virlogy & Virus Diseases (P)	303	2017-2022	
Zoology	260				
	260	Invertebrata & Chordata	ZOO-101	2021	
	260	Neurobiology & Animal Behavior	ZOO-203A	2021	

		Pathobiology	ZOO-204B	2021
Animal Biotechnology	269	Metabolic Regulation & Cell Function (MRCF)	ABT-101	2017
	269	Environmental Biology	ABT-103B	2021
MCA	262	Discrete Mathematical Structures	MCA	2021
	262	Accounting and Financial management	MCA	2021
		E – Commerce	MCA	2021
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MSCS	262	Environmental Studies	253	2021
	262	Human Rights And Value Education	253	2021
	262	Principles Of Management	253	2021
M.Com (Regular)				
	358	Managerial Economics	104	2021
	358	Marketing Management	203	2021
	358	Internal Audit and Standard Audit Practices	304	2021
	358	Fundamentals of Accounting	305a	2021
	358	Project Report & Viva – Voce	404	2021
M.Com (A&F)	357	Managerial Economics	104	2021
	357	Marketing Management	203	2021
	357	Internal Audit and Standard Audit Practices	304	2021
	357	Fundamentals of Accounting	305a	2021
M.Com (FM)	355			
	355	Managerial Economics	104	2021
	355	Marketing Management	203	2021
	355	Internal Audit and Standard Audit Practices	304	2021
	355	Fundamentals of Accounting	305a	2021
	355	Project Report & Viva – Voce	404	2021

**1.1.1. Details of courses Addressing Local, National, Regional and Global Developmental Needs.**

**I. Local Needs:**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
B.Tech (SEMESTER – I)	1-1422777026	Engg Mathematics – I	MAT01	2016
B.Tech (SEMESTER – I)	1-1422777026	Computer Programming	CST01	2016
B.Tech (SEMESTER – I)	1-1422777026	Engg. Physics	PHT01	2016
B.Tech (SEMESTER – I)	1-1422777026	Engg Chemistry	CYT01	2016
B.Tech (SEMESTER – I)	1-1422777026	Environmental Studies	CET01	2016
B.Tech (SEMESTER – I)	1-1422777026	Engg Graphics	MET01	2016
B.Tech (SEMESTER – I)	1-1422777026	Programming Laboratory	CSP01	2016
B.Tech (SEMESTER – I)	1-1422777026	Workshop Practice	MEP01	2016

**Table. 1.1.1. Details of courses Addressing Local, National, Regional and Global Developmental Needs.**

**I. Local Needs:**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
B.Tech (SEMESTER – II)	1-1422777026	Engg Mathematics-II	MAT02	2016
B.Tech (SEMESTER – II)	1-1422777026	Data Structures	CST02	2016
B.Tech (SEMESTER – II)	1-1422777026	Basics of Elec.& Electr.Engg	EET43	2016
B.Tech (SEMESTER – II)	1-1422777026	Physical Chemistry	CYT02	2016
B.Tech (SEMESTER – II)	1-1422777026	Mechanical Technology	MET41	2016

<b>B.Tech (SEMESTER – II)</b>	1-1422777026	English	ENT01	<b>2016</b>
<b>B.Tech (SEMESTER – II)</b>	1-1422777026	Data Structures Laboratory	CSP02	<b>2016</b>
<b>B.Tech (SEMESTER – II)</b>	1-1422777026	English Communication Lab	ENP01	<b>2016</b>

**Table. 1.1.1. Details of courses Addressing Local, National, Regional and Global Developmental Needs.****I. Local Needs:**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
<b>B.Tech (SEMESTER – III)</b>	1-1422777026	Engg Mathematics-III	MAT03	<b>2016</b>
<b>B.Tech (SEMESTER – III)</b>	1-1422777026	Mechanics of Solids	CET44	<b>2016</b>
<b>B.Tech (SEMESTER – III)</b>	1-1422777026	Organic Chemistry	CYT03	<b>2016</b>
<b>B.Tech (SEMESTER – III)</b>	1-1422777026	Momentum Transfer	CHT01	<b>2016</b>
<b>B.Tech (SEMESTER – III)</b>	1-1422777026	Chemical Process Calculations	CHT02	<b>2016</b>
<b>B.Tech (SEMESTER – III)</b>	1-1422777026	Inorganic Chemical Technology	CHT03	<b>2016</b>
<b>B.Tech (SEMESTER – III)</b>	1-1422777026	Momentum Transfer Lab	CHP01	<b>2016</b>
<b>B.Tech (SEMESTER – III)</b>	1-1422777026	Chemical Analysis lab	CHP02	<b>2016</b>



**Table. 1.1.1. Details of courses Addressing Local, National, Regional and Global Developmental Needs.****I. Local Needs:**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
<b>B.Tech (SEMESTER – IV)</b>	1-1422777026	Probability & Statistics	MAT04	<b>2016</b>
<b>B.Tech (SEMESTER – IV)</b>	1-1422777026	Chem Engg Thermodynamics-I	CHT04	<b>2016</b>
<b>B.Tech (SEMESTER – IV)</b>	1-1422777026	Mechanical Unit Operations	CHT05	<b>2016</b>
<b>B.Tech (SEMESTER – IV)</b>	1-1422777026	Industrial Effluent Treatment	CHT06	<b>2016</b>
<b>B.Tech (SEMESTER – IV)</b>	1-1422777026	Material Technology	CHT07	<b>2016</b>
<b>B.Tech (SEMESTER – IV)</b>	1-1422777026	Organic Chemical Technology	CHT08	<b>2016</b>
<b>B.Tech (SEMESTER – IV)</b>	1-1422777026	Mechanical Unit Operations lab	CHP03	<b>2016</b>
<b>B.Tech (SEMESTER – IV)</b>	1-1422777026	Instrumental Analysis Lab	CHP04	<b>2016</b>
<b>B.Tech (SEMESTER – IV)</b>	1-1422777026	Seminar-I	CHS01	<b>2016</b>

**Table. 1.1.1. Details of courses Addressing Local, National, Regional and Global Developmental Needs.****I. Local Needs:**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
B.Tech (SEMESTER – V)	1-1422777026	Numerical Methods for Chemical Engineering	MAT05	2016
B.Tech (SEMESTER – V)	1-1422777026	Chemical Engg Thermodynamics-II	CHT09	2016
B.Tech (SEMESTER – V)	1-1422777026	Heat Transfer	CHT10	2016
B.Tech (SEMESTER – V)	1-1422777026	Mass Transfer Operations-I	CHT11	2016
B.Tech (SEMESTER – V)	1-1422777026	Process Instrumentation	CHT12	2016
B.Tech (SEMESTER – V)	1-1422777026	Elective – I	CHE01	2016
B.Tech (SEMESTER – V)	1-1422777026	Heat Transfer Lab	CHP05	2016
B.Tech (SEMESTER – V)	1-1422777026	Computational Techniques lab	CHP06	2016

**Table. 1.1.1. Details of courses Addressing Local, National, Regional and Global Developmental Needs.****I. Local Needs:**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
B.Tech (SEMESTER – VI)	1-1422777026	Mass Transfer Operations-II	CHT13	2016
B.Tech (SEMESTER – VI)	1-1422777026	Chemical Reaction Engg-I	CHT14	2016
B.Tech (SEMESTER – VI)	1-1422777026	Process Dynamics & Control	CHT15	2016
B.Tech (SEMESTER – VI)	1-1422777026	Bioprocess Engineering	CHT16	2016

<b>B.Tech (SEMESTER – VI)</b>	1-1422777026	Open Elective -		<b>2016</b>
<b>B.Tech (SEMESTER – VI)</b>	1-1422777026	Industrial Management	MET42	<b>2016</b>
<b>B.Tech (SEMESTER – VI)</b>	1-1422777026	Mass Transfer Operations Lab-I	CHP07	<b>2016</b>
<b>B.Tech (SEMESTER – VI)</b>	1-1422777026	Process Dynamics & Control Lab	CHP08	<b>2016</b>
<b>B.Tech (SEMESTER – VI)</b>	1-1422777026	Seminar – II	CHS02	<b>2016</b>

**Table. 1.1.1. Details of courses Addressing Local, National, Regional and Global Developmental Needs.****I. Local Needs:**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Chem. Reaction Engineering-II	CHT17	<b>2016</b>
<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Transport Phenomena	CHT18	<b>2016</b>
<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Plant Design & Proc. Economics	CHT19	<b>2016</b>
<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Process Modeling & Simulation	CHT20	<b>2016</b>
<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Engineering Ethics	CHT21	<b>2016</b>
<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Elective-II	CHE02	<b>2016</b>
<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Mass Transfer Operations Lab-II	CHP09	<b>2016</b>
<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Chem Reaction Engg Lab	CHP10	<b>2016</b>

**Table. 1.1.1. Details of courses Addressing Local, National, Regional and Global Developmental Needs.**

**I. Local Needs:**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
B.Tech (SEMESTER – VIII)	1-1422777026	Optimization Techniques	CHT22	2016
B.Tech (SEMESTER – VIII)	1-1422777026	Elective-III	CHE 03	2016
B.Tech (SEMESTER – VIII)	1-1422777026	Computer Aided Process Equipment Design & Drawing	CHT24	2016
B.Tech (SEMESTER – VIII)	1-1422777026	Project Work	CHP11	2016
B.Tech (SEMESTER – VIII)	1-1422777026	Internship/Mini Project	CHP12	2016
B.Tech (SEMESTER – VIII)	1-1422777026	MOOCs		2016

**Table. 1.1.1. Details of courses Addressing Local, National, Regional and Global Developmental Needs.**

**I. Local Needs:**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
B.Tech (SEMESTER – I)	1-1422777026	Mathematics – I	MABST 101	2018
B.Tech (SEMESTER – I)	1-1422777026	Chemistry for Chemical Engineering - I	CHBST 102	2018
B.Tech (SEMESTER – I)	1-1422777026	English	ENHST 103	2018
B.Tech (SEMESTER – I)	1-1422777026	Basics of Electrical & Electronics Engineering	EEEST104	2018
B.Tech (SEMESTER – I)	1-1422777026	Engineering Graphics and Design	MEEST 105	2018
B.Tech (SEMESTER – I)	1-1422777026	English Communication Lab	ENHSP 106	2018

**Table. 1.1.1. Details of courses Addressing Local, National, Regional and Global Developmental Needs.****I. Local Needs:**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
<b>B.Tech (SEMESTER – II)</b>	1-1422777026	Mathematics-II	MABST 201	<b>2018</b>
<b>B.Tech (SEMESTER – II)</b>	1-1422777026	Engineering Physics	PYBST 202	<b>2018</b>
<b>B.Tech (SEMESTER – II)</b>	1-1422777026	Programming for Problem Solving	CSEST 203	<b>2018</b>
<b>B.Tech (SEMESTER – II)</b>	1-1422777026	Chemistry for Chemical Engineering - II	CHBST 204	<b>2018</b>
<b>B.Tech (SEMESTER – II)</b>	1-1422777026	Workshop / Manufacturing Practice	MEESP 205	<b>2018</b>
<b>B.Tech (SEMESTER – II)</b>	1-1422777026	Programming for Problem Solving Lab	CSESP 206	<b>2018</b>
<b>B.Tech (SEMESTER – II)</b>	1-1422777026	Environmental Science	CEMCT 207	<b>2018</b>

**Table. 1.1.1. Details of courses Addressing Local, National, Regional and Global Developmental Needs.****I. Local Needs:**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
<b>B.Tech (SEMESTER – III)</b>	1-1422777026	Mathematics – III	MABST 301	<b>2018</b>
<b>B.Tech (SEMESTER – III)</b>	1-1422777026	Engineering & Solid Mechanics	CEEST 302	<b>2018</b>
<b>B.Tech (SEMESTER – III)</b>	1-1422777026	Chemical Process Calculations	CHPCT 303	<b>2018</b>
<b>B.Tech (SEMESTER – III)</b>	1-1422777026	Momentum Transfer	CHPCT 304	<b>2018</b>
<b>B.Tech (SEMESTER – III)</b>	1-1422777026	Mechanical Unit Operations	CHPCT 305	<b>2018</b>
<b>B.Tech (SEMESTER – III)</b>	1-1422777026	Fluid and Particle Mechanics Lab	CHPCP306	<b>2018</b>

<b>B.Tech (SEMESTER – III)</b>	1-1422777026	Analysis Lab	CHPCP 307	<b>2018</b>
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**Table. 1.1.1. Details of courses Addressing Local, National, Regional and Global Developmental Needs.**

**I. Local Needs:**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
<b>B.Tech (SEMESTER – IV)</b>	1-1422777026	Constitution of India	PAMCT 401	<b>2018</b>
<b>B.Tech (SEMESTER – IV)</b>	1-1422777026	Probability & Statistics	MABST 402	<b>2018</b>
<b>B.Tech (SEMESTER – IV)</b>	1-1422777026	Chemical Engineering Thermodynamics – I	CHPCT 403	<b>2018</b>
<b>B.Tech (SEMESTER – IV)</b>	1-1422777026	Heat transfer	CHPCT 404	<b>2018</b>
<b>B.Tech (SEMESTER – IV)</b>	1-1422777026	Mass Transfer – I	CHPCT 405	<b>2018</b>
<b>B.Tech (SEMESTER – IV)</b>	1-1422777026	Chemical Technology	CHPCT 406	<b>2018</b>
<b>B.Tech (SEMESTER – IV)</b>	1-1422777026	Fundamentals of Bio-technology	CHBST 407	<b>2018</b>
<b>B.Tech (SEMESTER – IV)</b>	1-1422777026	Heat Transfer Lab	CHPCP408	<b>2018</b>

**I. Local Needs:**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
<b>B.Tech (SEMESTER – V)</b>	1-1422777026	Numerical Methods in Chemical Engg.	MABST 501	<b>2018</b>
<b>B.Tech (SEMESTER – V)</b>	1-1422777026	Chemical Engineering Thermodynamics – II	CHPCT 502	<b>2018</b>
<b>B.Tech (SEMESTER – V)</b>	1-1422777026	Mass Transfer – II	CHPCT 503	<b>2018</b>
<b>B.Tech (SEMESTER – V)</b>	1-1422777026	Chemical Reaction Engineering – I	CHPCT 504	<b>2018</b>
<b>B.Tech (SEMESTER – V)</b>	1-1422777026	Program Elective- I		<b>2018</b>
<b>B.Tech (SEMESTER – V)</b>	1-1422777026	Mass Transfer Lab	CHPCP507	<b>2018</b>



<b>B.Tech (SEMESTER – V)</b>	1-1422777026	Computational Techniques Lab	CHPCP 508	<b>2018</b>
<b>B.Tech (SEMESTER – V)</b>	1-1422777026	Open Elective - MOOCS		<b>2018</b>

**Local Needs:**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
<b>B.Tech (SEMESTER – VI)</b>	1-1422777026	Chemical Reaction Engineering II	CHPCT 601	<b>2018</b>
<b>B.Tech (SEMESTER – VI)</b>	1-1422777026	Transport Phenomena	CHPCT602	<b>2018</b>
<b>B.Tech (SEMESTER – VI)</b>	1-1422777026	Process Dynamics & Control	CHPCT603	<b>2018</b>
<b>B.Tech (SEMESTER – VI)</b>	1-1422777026	Industrial Management	MEHST604	<b>2018</b>
<b>B.Tech (SEMESTER – VI)</b>	1-1422777026	Program Elective – II		<b>2018</b>
<b>B.Tech (SEMESTER – VI)</b>	1-1422777026	Open Elective- I	CHOET606	<b>2018</b>
<b>B.Tech (SEMESTER – VI)</b>	1-1422777026	Reaction Engineering Lab	CHPCP 607	<b>2018</b>
<b>B.Tech (SEMESTER – VI)</b>	1-1422777026	Process Dynamics & Control Lab	CHPCP 608	<b>2018</b>

**Local Needs:**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Plant Design & Process Economics	CHPCT701	<b>2018</b>
<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Program Elective – III		<b>2018</b>
<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Open Elective – II	CHOET 703	<b>2018</b>
<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Engineering Ethics	CHHST 704	<b>2018</b>
<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Process Equipment Design & Drawing	CHPCP 705	<b>2018</b>
<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Simulation Lab	CHPCP 706	<b>2018</b>

<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Industry Internship	CHPCI 707	<b>2018</b>
<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Project Work – Phase I	CHPCW 708	<b>2018</b>
<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Open Elective – MOOCS	CHOET 709	<b>2018</b>

**Local Needs:**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
<b>B.Tech (SEMESTER – VIII)</b>	1-1422777026	Program Elective- IV		<b>2018</b>
<b>B.Tech (SEMESTER – VIII)</b>	1-1422777026	Open Elective – III	CHOET 802	<b>2018</b>
<b>B.Tech (SEMESTER – VIII)</b>	1-1422777026	Project Work - Phase II	CHPCW801	<b>2018</b>

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**. Local Needs:**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
<b>B.Tech (SEMESTER – I)</b>	1-1422777026	Engg Mathematics – I	MAT01MAT01 MAT01MAT01	<b>2020</b>
<b>B.Tech (SEMESTER – I)</b>	1-1422777026	Computer Programming	CST01	<b>2020</b>
<b>B.Tech (SEMESTER – I)</b>	1-1422777026	Engg. Physics	PHT01	<b>2020</b>
<b>B.Tech (SEMESTER – I)</b>	1-1422777026	Engg Chemistry	CYT01	<b>2020</b>
<b>B.Tech (SEMESTER – I)</b>	1-1422777026	Environmental Studies	CET01	<b>2020</b>
<b>B.Tech (SEMESTER – I)</b>	1-1422777026	Engg Graphics	MET01	<b>2020</b>
<b>B.Tech (SEMESTER – I)</b>	1-1422777026	Programming Laboratory	CSP01	<b>2020</b>
<b>B.Tech (SEMESTER – I)</b>	1-1422777026	Workshop Practice	MEP01	<b>2020</b>

**I. Local Needs:**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
<b>B.Tech (SEMESTER – II)</b>	1-1422777026	Engg Mathematics-II	MAT02	<b>2020</b>
<b>B.Tech (SEMESTER – II)</b>	1-1422777026	Data Structures	CST02	<b>2020</b>
<b>B.Tech (SEMESTER – II)</b>	1-1422777026	Basics of Elec.& Electr.Engg	EET43	<b>2020</b>
<b>B.Tech (SEMESTER – II)</b>	1-1422777026	Physical Chemistry	CYT02	<b>2020</b>
<b>B.Tech (SEMESTER – II)</b>	1-1422777026	Mechanical Technology	MET41	<b>2020</b>
<b>B.Tech (SEMESTER – II)</b>	1-1422777026	English	ENT01	<b>2020</b>
<b>B.Tech (SEMESTER – II)</b>	1-1422777026	Data Structures Laboratory	CSP02	<b>2020</b>
<b>B.Tech (SEMESTER – II)</b>	1-1422777026	English Communication Lab	ENP01	<b>2020</b>

**Local Needs:**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
<b>B.Tech (SEMESTER – III)</b>	1-1422777026	Engg Mathematics-III	MAT03	<b>2020</b>
<b>B.Tech (SEMESTER – III)</b>	1-1422777026	Mechanics of Solids	CET44	<b>2020</b>
<b>B.Tech (SEMESTER – III)</b>	1-1422777026	Organic Chemistry	CYT03	<b>2020</b>
<b>B.Tech (SEMESTER – III)</b>	1-1422777026	Momentum Transfer	CHT01	<b>2020</b>
<b>B.Tech (SEMESTER – III)</b>	1-1422777026	Chemical Process Calculations	CHT02	<b>2020</b>
<b>B.Tech (SEMESTER – III)</b>	1-1422777026	Inorganic Chemical Technology	CHT03	<b>2020</b>
<b>B.Tech (SEMESTER – III)</b>	1-1422777026	Momentum Transfer Lab	CHP01	<b>2020</b>
<b>B.Tech (SEMESTER – III)</b>	1-1422777026	Chemical Analysis lab	CHP02	<b>2020</b>

**Local Needs:**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
B.Tech (SEMESTER – IV)	1-1422777026	Probability & Statistics	MAT04	2020
B.Tech (SEMESTER – IV)	1-1422777026	Chem Engg Thermodynamics-I	CHT04	2020
B.Tech (SEMESTER – IV)	1-1422777026	Mechanical Unit Operations	CHT05	2020
B.Tech (SEMESTER – IV)	1-1422777026	Industrial Effluent Treatment	CHT06	2020
B.Tech (SEMESTER – IV)	1-1422777026	Material Technology	CHT07	2020
B.Tech (SEMESTER – IV)	1-1422777026	Organic Chemical Technology	CHT08	2020
B.Tech (SEMESTER – IV)	1-1422777026	Mechanical Unit Operations lab	CHP03	2020
B.Tech (SEMESTER – IV)	1-1422777026	Instrumental Analysis Lab	CHP04	2020
B.Tech (SEMESTER – IV)	1-1422777026	Seminar-I	CHS01	2020

**Local Needs:**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
B.Tech (SEMESTER – V)	1-1422777026	Numerical Methods for Chemical Engineering	MAT05	2020
B.Tech (SEMESTER – V)	1-1422777026	Chem Engg Thermodynamics-II	CHT09	2020
B.Tech (SEMESTER – V)	1-1422777026	Heat Transfer	CHT10	2020
B.Tech (SEMESTER – V)	1-1422777026	Mass Transfer Operations-I	CHT11	2020
B.Tech (SEMESTER – V)	1-1422777026	Process Instrumentation	CHT12	2020
B.Tech (SEMESTER – V)	1-1422777026	Elective – I	CHE01	2020

<b>B.Tech (SEMESTER – V)</b>	1-1422777026	Heat Transfer Lab	CHP05	<b>2020</b>
<b>B.Tech (SEMESTER – V)</b>	1-1422777026	Computational Techniques lab	CHP06	<b>2020</b>



**. Local Needs:**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
<b>B.Tech (SEMESTER – VI)</b>	1-1422777026	Mass Transfer Operations-II	CHT13	<b>2020</b>
<b>B.Tech (SEMESTER – VI)</b>	1-1422777026	Chemical Reaction Engg-I	CHT14	<b>2020</b>
<b>B.Tech (SEMESTER – VI)</b>	1-1422777026	Process Dynamics & Control	CHT15	<b>2020</b>
<b>B.Tech (SEMESTER – VI)</b>	1-1422777026	Bioprocess Engineering	CHT16	<b>2020</b>
<b>B.Tech (SEMESTER – VI)</b>	1-1422777026	Open Elective -		<b>2020</b>
<b>B.Tech (SEMESTER – VI)</b>	1-1422777026	Industrial Management	MET42	<b>2020</b>
<b>B.Tech (SEMESTER – VI)</b>	1-1422777026	Mass Transfer Operations Lab-I	CHP07	<b>2020</b>
<b>B.Tech (SEMESTER – VI)</b>	1-1422777026	Process Dynamics & Control Lab	CHP08	<b>2020</b>
<b>B.Tech (SEMESTER – VI)</b>	1-1422777026	Seminar – II	CHS02	<b>2020</b>

**Local Needs:**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Chem. Reaction Engineering-II	CHT17	<b>2020</b>
<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Transport Phenomena	CHT18	<b>2020</b>
<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Plant Design & Proc. Economics	CHT19	<b>2020</b>
<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Process Modeling & Simulation	CHT20	<b>2020</b>
<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Engineering Ethics	CHT21	<b>2020</b>
<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Elective-II	CHE02	<b>2020</b>
<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Mass Transfer Operations Lab-II	CHP09	<b>2020</b>
<b>B.Tech (SEMESTER – VII)</b>	1-1422777026	Chem Reaction Engg Lab	CHP10	<b>2020</b>

. Local Needs:

Programme Name	Programme Code	Course Name	Course Code	Year of Introduction
B.Tech (SEMESTER – VIII)	1-1422777026	Optimization Techniques	CHT22	2020
B.Tech (SEMESTER – VIII)	1-1422777026	Elective-III	CHE 03	2020
B.Tech (SEMESTER – VIII)	1-1422777026	Computer Aided Process Equipment Design & Drawing	CHT24	2020
B.Tech (SEMESTER – VIII)	1-1422777026	Project Work	CHP11	2020
B.Tech (SEMESTER – VIII)	1-1422777026	Internship/Mini Project	CHP12	2020
B.Tech (SEMESTER – VIII)	1-1422777026	MOOCs		2020

2018/2020

Programme Name	Programme Code	Course Name	Course Code	Year of Introduction
B.TECH	1-1422777026	Environmental Science	CET01	2016

### III. Regional Needs:

Programme Name	Programme Code	Course Name	Course Code	Year of Introduction
B.TECH	1-1422777026	Manufacturing Processes	MET04	2016
B.TECH	1-1422777026	Workshop Practice	MEP 01	2016
B.TECH	1-1422777026	Basic Electrical Engineering	EET01	2016
B.TECH	1-1422777026	Basic Electronics Engineering	ECT01	2016

2020

### II. National Initiatives/Needs

#### National Green Energy Initiatives:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777026	Environmental Studies	CET01	2016

#### National Biotechnology Initiatives:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777026	Bioprocess Engineering	CHT16	2016

#### Geographical Integration System (GIS) Initiatives:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777026	-----	-----	-----

#### National Digital Initiatives:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777026	Computer Programming	CST01	2016

	Computer Programming Lab	CSP01	2016
	Data Structures	CST02	<b>2016</b>
	Data Structures Laboratory	CSP02	<b>2016</b>
	Computational Techniques lab	CHP06	<b>2016</b>

**Initiatives on Environment & Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777026	Environmental Studies	CET01	2016

**Initiatives on Water Resources & Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777026			
		Industrial Effluent Treatment	CHT06	2016

**Initiatives on Agricultural & Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777026	---	---	--

**Initiatives on Health & Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777026	---	---	--

**Initiatives on Nanoission& Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777026	---	---	--

**Initiatives on Translational Mission:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777026	---	---	--

**Initiatives on SarvaSiksha Abhiyan:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777026			

**Initiatives on Rural Development:**

<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech	1-1422777026	Engineering Ethics	CHT21	2016

**III. Regional Needs:**

<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech	1-1422777026	---	---	---

**IV .Global Needs:**

<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech	1-1422777026	---	---	---

**I. Local Needs**

Programme name	Programme code	Course name	Course code	Year of Introduction
<b>R18</b>				
B.Tech	1-1422777026	Mathematics – I	MAGST101	2020
		Engineering Chemistry	CHBST102	2020
		English	ENHAT103	2020
		Basic Electrical & Electronics Engineering	EEBET104	2020
		Engineering Graphics & Design	MEBET105	2020
		English Communication Lab	ENHAT106	2020
B.Tech	1-1422777026	Mathematics – II	MABST 201	2021
		Engineering Physics	PY BST 202	2021
		Programming for Problem solving	CS BET 203	2021
		Chemistry for chemical engineering 2	CEBST204	2021
		Workshop/Manufacturing Practices	ME BET 205	2021
		Programming for Problem solving Lab	CS BST 206	2021
		Environmental Science	CE BST207	2021

**II. National Initiatives/Needs**

**National Green Energy Initiatives:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777026	Environmental Studies	CET01	2020

**National Biotechnology Initiatives:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777026	-----	-----	-----



**Geographical Integration System (GIS) Initiatives:**

<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech	1-1422777026	-----	-----	-----

**National Digital Initiatives:**

<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech	1-1422777026	Programming for Problem Solving	CSEST 203	2020
		Programming for Problem Solving Lab	CSESP 206	2020

**Initiatives on Environment & Sustainability:**

<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech	1-1422777026	Environmental Studies	CET01	2020

**Initiatives on Water Resources & Sustainability:**

<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech	1-1422777026	Momentum Transfer	CHPCT304	2020
		Fluid and Particle Mechanics Lab	CHPCP306	2020

**Initiatives on Agricultural & Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777026	---	---	--

**Initiatives on Health & Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777026	---	---	--

**Initiatives on Nano vision& Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777026	---	---	--

**Initiatives on Translational Mission:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777026	---	---	--

**Initiatives on SarvaSiksha Abhiyan:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777026	---	---	--

**Initiatives on Rural Development:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777026	---	---	--

**III. Regional Needs:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777026	---	---	---

**IV .Global Needs:**

Table 1.1.1. Details of courses addressing Local, National, Regional and Global Developmental Needs.

I. Local Needs

Programme name	Programme code	Course name	Course code	Year of Introduction
<b>R16</b>				
B.Tech	1-1422777024	Engineering Mathematics – I	MAT01	2016
		Computer Programming	CST01	2016
		Environmental Studies	1-1422777024T01	2016
		Engineering Physics	PHT01	2016
		Engineering Chemistry	CYT01	2016
		Engineering Graphics	MET01	2016
		Computer Programming Lab	CSP01	2016
		Workshop Practice	MEP01	2016
B.Tech	1-1422777024	Engineering Mathematics – II	MAT02	2017
		Data Structures	CST02	2017
		Basic Electrical Engineering	EET01	2017
		Basic Electronic Engineering	ECT01	2017
		Branch Subject	1-1422777024T03	2017
		English	ENT01	2017
		Data Structures Lab	CSP02	2017
		English Communication Lab	ENP01	2017
B.Tech	1-1422777024	Engineering Mathematics – III	MAT03	2017
		Basic Mechanical Engineering	MET01	2017
		Engineering Mechanics	1-1422777024T04	2017
		Engineering Geology	1-1422777024T05	2017
		Fluid Mechanics And Hydraulic Machines	1-1422777024T06	2017
B.Tech	1-1422777024	Transportation Engineering	1-1422777024T20	2019
		Environmental Engineering-II	1-1422777024T21	2019
		Elective-2(Open Elective)	1-1422777024T22	2019
		Green Technology	1-1422777024T22- OE1	2019
		Disaster Management	1-1422777024T22- OE2	2019
		Quantity Surveying and Valuation	1-1422777024T23	2019
		Foundation Engineering-II	1-1422777024T24	2019
		Managerial Economics	EOT01	2019
		Management Accounting	COT01	2019
		Transportation Engineering Laboratory	1-1422777024P08	2019
		Technical Seminar & Presentation Skills	1-1422777024P09	2019

B.Tech	1-1422777024	Remote Sensing And GIS	1-1422777024T25	2019
		Structural Dynamics And Design of Earthquake Resistan1-1422777024 Structures	1-1422777024T26	2019
		Irrigation & Hydraulic Structures	1-1422777024T27	2019
		Elective-III	1-1422777024T28	2019
		Non Conventional Energy Scien1-1422777024	1-1422777024T28-E1	2019
		Environmental Impact Assessment And Environmental Audit	1-1422777024T28-E2	2019
		Geoenvironmental Engineering	1-1422777024T28-E3	2019
		Concrete Dams	1-1422777024T28-E4	2019
		Planning And Development of Water Resources Projects	1-1422777024T28-E5	2019
		Bridge Engineering	1-1422777024T28-E6	2019
		Applied Soil Mechanics	1-1422777024T28-E7	2019
		Urban Hydrology	1-1422777024T28-E8	2019
		Professional Ethics	1-1422777024T29	2019
		Numerical Methods	MAT04	2019
		Concrete Technology Laboratory	1-1422777024P10	2019
		CAD Laboratory	1-1422777024P11	2019
B.Tech	1-1422777024	Project Work	1-1422777024P12	2020
		Mini Project/ Internship	1-1422777024P13	2020
		Elective-4(MOOCs)	1-1422777024T30	2020
		Construction Planning and Project Management	1-1422777024T31	2020
		GIS Lab	1-1422777024P14	2020

**I. National Initiatives/Needs**

**National Green Energy Initiatives:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	Environmental Studies	1-1422777024T01	2016
		Environmental Engineering-I	1-1422777024T12	2018
		Air Pollution And Control	1-1422777024T17-E4	2018
		Noise Pollution And Control	1-1422777024T17-E6	2018
		Watershed Management	1-1422777024T17-E7	2018
		Environmental Engineering Laboratory	1-1422777024P06	2018
		Environmental Engineering-II	1-1422777024T21	2019
		Green Technology	1-1422777024T22-OE1	2019
		Non-Conventional Energy Scien1-1422777024	1-1422777024T28-E1	2019
		Environmental Impact Assessment And Environmental Audit	1-1422777024T28-E2	2019

**National Biotechnology Initiatives:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	---	---	--

**Geographical Integration System (GIS) Initiatives:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	Surveying	1-1422777024T07	2017
		Surveying Laboratory	1-1422777024P01	2017
		Survey Camp	1-1422777024P07	2018
		Remote Sensing And GIS	1-1422777024T25	2019
		GIS Lab	1-1422777024P14	2020

**National Digital Initiatives:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	Computer Programming	CST01	2016
		Computer Programming Lab	CSP01	2016
		Remote Sensing And GIS	1-1422777024T25	2019
		CAD Laboratory	1-1422777024P11	2019
		Elective-4(MOCS)	1-1422777024T30	2020
		GIS Lab	1-1422777024P14	2020

**Initiatives on Environment & Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	Environmental Studies	1-1422777024T01	2016
		Environmental Engineering-I	1-1422777024T12	2018
		Air Pollution And Control	1-1422777024T17-E4	2018
		Noise Pollution And Control	1-1422777024T17-E6	2018
		Environmental Engineering Laboratory	1-1422777024P06	2018
		Environmental Engineering-II	1-1422777024T21	2019
		Environmental Impact Assessment And Environmental Audit	1-1422777024T28-E2	2019

**Initiatives on Water Resour1-1422777024s & Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	Fluid Mechanics And Hydraulic Machines	1-1422777024T06	2017
		Applied Hydraulics	1-1422777024T09	2018
		Fluid Mechanics And Hydraulic Machinery Laboratory	1-1422777024P03	2018
		Hydrology	1-1422777024T14	2018
		Water Power Engineering	1-1422777024T17-E5	2018
		Irrigation & Hydraulic Structures	1-1422777024T27	2019
		Urban Hydrology	1-1422777024T28-E8	2019

**Initiatives on Agricultural & Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	---	---	--

**Initiatives on Health & Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	---	---	--

**Initiatives on Nanovission & Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	---	---	--

**Initiatives on Translational Mission:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	---	---	--

**Initiatives on Sarva Siksha Abhiyan:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	---	---	--

**Initiatives on Rural Development:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	Professional Ethics	1-1422777024T29	2019
		Construction Planning and Project Management	1-1422777024T31	2020

**II. Regional Needs:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	---	---	---

**III. Global Needs:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	---	---	---

2018

**I. Local Needs**

Programme name	Programme code	Course name	Course code	Year of Introduction
<b>R18</b>				
B.Tech	1-1422777024	Mathematics – I	MABST 101	2018
		Engineering Chemistry	CYBST 102	2018
		English	ENHST 103	2018
		Basic Electrical & Electronics Engineering	EEEST 104	2018
		Engineering Graphics & Design	MEEST 105	2018
		English Communication Lab	ENHSP 106	2018
B.Tech	1-1422777024	Mathematics – II	MABST 201	2019
		Engineering Physics	PYBST 202	2019
		Programming for Problem solving	CSEST 203	2019
		Engineering Mechanics	1-1422777024EST 204	2019
		Workshop/Manufacturing Practi1-1422777024s	MEESP 205	2019
		Computer Programming Lab	CSESP 206	2019
		Environmental Scien1-1422777024	1-1422777024MCT 207	2019
B.Tech	1-1422777024	Mathematics – III	MABST 301	2019
		Strength of Materials	1-1422777024PCT 302	2019
		Surveying	1-1422777024PCT 303	2019

		Building Materials and Construction Technology	1-1422777024PCT 304	2019
		Basic Mechanical Engineering	MEEST 305	2019
		Engineering Geology	1-1422777024PCT 306	2019
		Surveying Lab	1-1422777024PCP 307	2019
		Engineering Geology Lab	1-1422777024PCP 308	2019



B.Tech	1-1422777024	Constitution of India	PAMCT 401	2020
		Mathematics – IV	MABST 402	2020
		Fluid Mechanics and Hydraulic Machines	1-1422777024PCT 403	2020
		Structural Analysis	1-1422777024PCT 404	2020
		Environmental Engineering	1-1422777024PCT 405	2020
		Soil Mechanics	1-1422777024PCT 406	2020
		Computer aided Building Drawing	1-1422777024PCD 407	2020
		Fluid Mechanics and Hydraulic Machines Lab	1-1422777024PCP 408	2020
		Materials Testing Lab	1-1422777024ESP 409	2020
B.Tech	1-1422777024	Hydraulic Engineering	1-1422777024PCT 501	2020
		Programme Elective – I	1-1422777024PET 502	2020
		Advan1-1422777024d Environmental Engineering	1-1422777024PET 502-PE1	2020
		Foundation Engineering	1-1422777024PCT 503	2020
		Programme Elective – II	1-1422777024PET 504	2020
		Remote Sensing And GIS	1-1422777024PET 504-PE2	2020
		Reinforced Concrete Design	1-1422777024PCT 505	2020
		Design of Steel Structures	1-1422777024PCT 506	2020
		Hydraulic Engineering Lab	1-1422777024PCP 507	2020
		Soil Mechanics Lab	1-1422777024PCP 508	2020
B.Tech	1-1422777024	Hydrology and Water Resources Engineering	1-1422777024PCT 601	2021
		Transportation Engineering	1-1422777024PCT 602	2021
		Programme Elective – III	1-1422777024OET 603	2021
		Concrete Technology	1-1422777024OET 603-PE3	2021
		Programme Elective– IV	1-1422777024PET 604	2021

		Advanced Foundation Engineering	1-1422777024PET 604-PE4	2021
		Open Elective – I Online	1-1422777024PET 605	2021
		Environmental Engineering Lab	1-1422777024PCP 606	2021
		Transportation Engineering Lab	1-1422777024PCP 607	2021
		Management(Organizational Behaviour)	MGHST 608	2021

B.Tech	1-1422777024	Estimation & Costing	1-1422777024PCT 701	2021
		Programme Elective – V	1-1422777024PET 703	2021
		Watershed Management	1-1422777024PET 703-PE5	2021
		Professional Practice, Law & Ethics	1-1422777024HST 704	2021
		Industry Internship	1-1422777024PCI 705	2021
		Project Work - Phase I	1-1422777024PCX 706	2021
B.Tech	1-1422777024	Open Elective – III (MOOCS)	1-1422777024OET 801	2022
		Programme Elective –VI	1-1422777024PET 802	2022
		Pre Stressed Concrete	1-1422777024PET 802- PE6	2022
		Project Work - Phase II	1-1422777024PCX 803	2022

## II. National Initiatives/Needs

### National green Energy Initiatives:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	Environmental Science	1-1422777024MCT 207	2019
		Environmental Engineering	1-1422777024PCT 405	2020
		Advanced Environmental Engineering	1-1422777024PET 502-PE1	2020
		Environmental Engineering Lab	1-1422777024PCP 606	2021

### National Biotechnology Initiatives:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	---	---	--

### Geographical Integration System (GIS) Initiatives:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	Surveying	1-1422777024PCT 303	2019
		Surveying Lab	1-1422777024PCP 307	2019

		Remote Sensing And GIS	1-1422777024PET 504-PE2	2020
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**National Digital Initiative:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	---	---	--

**Initiatives on Environment & Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	Environmental Science	1-1422777024MCT 207	2019
		Environmental Engineering	1-1422777024PCT 405	2020
		Advanced Environmental Engineering	1-1422777024PET 502-PE1	2020
		Environmental Engineering Lab	1-1422777024PCP 606	2021

**Initiatives on Water Resources:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	Fluid Mechanics and Hydraulic Machines	1-1422777024PCT 403	2020
		Fluid Mechanics and Hydraulic Machines Lab	1-1422777024PCP 408	2020
		Hydrology and Water Resources Engineering	1-1422777024PCT 601	2021
		Watershed Management	1-1422777024PET 703-PE5	2021

**Initiatives on Agricultural Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	----	---	--

**Initiatives on Health Promotions:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	----	---	--

**Initiatives on Nanovission:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	----	---	--

**Initiatives on Translational Mission:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	----	---	--

**Initiatives on Sarva Siksha Abhiyan:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	----	---	--

**Initiatives on Rural Development:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	Transportation Engineering	1-1422777024PCT 602	2021
		Transportation Engineering Lab	1-1422777024PCP 607	2021

**III. Regional needs:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	----	---	--

IV. Global Needs:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	---	---	--

2020

I. Local Needs

Programme name	Programme code	Course name	Course code	Year of Introduction
<b>R20</b>				
B.Tech	1-1422777024	Mathematics – I	MA 101	2020
		Engineering Chemistry	CY 101(2)	2020
		English	EN103	2020
		Basic Electrical & Electronics Engineering	EE 104	2020
		Engineering Graphics & Design	ME 105	2020
		English Communication Lab	EN 106	2020
B.Tech	1-1422777024	Mathematics – II	MA 201	2021
		Engineering Physics	PY 202	2021
		Programming for Problem solving	CS 203	2021
		Engineering Mechanics	1-1422777024 204	2021
		Workshop/Manufacturing Practi I-1422777024s	ME 205	2021
		Programming for Problem solving Lab	CS 206	2021
		Environmental Scien I-1422777024	1-1422777024 207	2021
B.Tech	1-1422777024	Mathematics – III( <i>Common to all branches</i> )	MA301BS	2021
		Strength of Materials	1-1422777024302C	2021
		Managerial Economics and Accountancy ( <i>Common to all branches</i> )	HS303CO	2021
		Surveying	1-1422777024304C	2021
		Building Materials and Construction Technology	1-1422777024305C	2021
		Engineering Geology	1-1422777024306C	2021
		Surveying Lab	1-1422777024 307P	2021
		Materials Testing Lab	1-1422777024 308P	2021
		Skill Development Course I	1-1422777024309S	2021
		Constitution of India( <i>Common to all branches</i> )	PA310A	2021
		NCC/NSS	MC411B	2021
B.Tech	1-1422777024	Probability & Statistics ( <i>Common to all branches</i> )	MA401C	2022
		Concrete Technology	1-1422777024402C	2022
		Fluid Mechanics and Hydraulic Machines	1-1422777024403C	2022
		Structural Analysis-I	1-1422777024404C	2022
		Water Quality and Treatment	1-1422777024405C	2022
		Soil Mechanics	1-1422777024406C	2022
		Fluid Mechanics and Hydraulic Machines Lab	1-1422777024407P	2022
		Soil Mechanics Lab	1-1422777024408P	2022
		Skill Development Course 2	1-1422777024409S	2022
		Computer Aided Building Drawing	1-1422777024410P	2022
		NCC/NSS/NSO	MC411B	2022

**I. National Initiatives/Needs**

**National green Energy Initiatives:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	Environmental Scien1-1422777024	1-1422777024 207	2021
		Environmental Engg. -1	1-1422777024405C	2022

**National Biotechnology Initiatives:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	----	---	--

**Geographical Integration System (GIS) Initiatives:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	Surveying	1-1422777024304C	2021
		Surveying Lab	1-1422777024 307P	2021

**National Digital Initiative:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	----	---	--

**Initiatives on Environment & Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	Environmental Scien1-1422777024	1-1422777024 207	2021
		Environmental Engg. -1	1-1422777024405C	2022

**Initiatives on Water Resour1-1422777024s:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	Fluid Mechanics and Hydraulic Machines	1-1422777024403C	2022
		Fluid Mechanics and Hydraulic Machines Lab	1-1422777024407P	2022



**Initiatives on Agricultural Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	----	---	--

**Initiatives on Health Promotions:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	----	---	--

**Initiatives on Nanovision:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	----	---	--

**Initiatives on Translational Mission:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	----	---	--

**Initiatives on Sarva Siksha Abhiyan:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	----	---	--

**Initiatives on Rural Development:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	----	---	--

**II. Regional needs:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	----	---	--

**III. Global Needs:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777024	----	---	--

Programme name	Programme code	Course name	Course code	Year of Introduction
<b>R16</b>	1-142277019			
B.Tech	CSE	Engineering Mathematics – I	MAT01	2016
		Computer Programming	CST01	2016
		Environmental Studies	CET01	2016
		Basic Civil Engineering	CET02	2016
		Basic Mechanical Engineering	MET02	2016
		English	ENT01	2016
		Computer Programming Lab	CSP01	2016
		English Communication Lab	ENP01	2016
B.Tech	CSE	Engineering Mathematics – II	MAT02	2017
		Data Structures	CST02	2017
		Engineering Physics	PHT01	2017
		Engineering Chemistry	CYT01	2017
		Circuit Theory (Branch Subject)	EET 02	2017
		Engineering Graphics	MET01	2017
		Data Structures Lab	CSP02	2017
		Workshop Practice	MEP01	2017
B.Tech	CSE	Engineering Mathematics-III	MAT 03	2017
		Digital Logic Design	CST 03	2017
		Discrete Mathematical Structures	CST 04	2017
		Elements of Electronics and Communication Engineering	ECT 41	2017
		Java and Advanced Data Structures	CST 05	2017
		Probability and Statistics	MAT 04	2017
		Elements of Electronics and Communications Engineering Laboratory	ECP01	2017
		Java and Advanced Data Structures Laboratory	CSP 03	2017
B.Tech	CSE	Computer Organization	CST 06	2018
		Database Management Systems	CST 07	2018
		Python Programming Language	CST 08	2018
		Computer Oriented Numerical Methods	MAT 05	2018
		Computer Oriented Optimization Techniques	MAT 06	2018
		Simulation and Modeling	MET 41	2018
		Electrical Engineering Laboratory	EEP 04	2018
		Database Management Systems Lab	CSP 05	2018
		Simulation Modeling and Python Programming Laboratory	CSP 06	2018
B.Tech	CSE	Theory of Computation	CST 09	2018
		Unfired Modeling Language	CST 10	2018
		Operating Systems	CST 11	2018
		Computer Networks	CST 12	2018
		Principles of Programming Languages	CST 13	2018
		Software Engineering	CST 14	2018
		CN and PPL Laboratory	CSP 07	2018
		Operating Systems & UML Laboratory	CSP 08	2018
B.Tech	CSE	Instructional Open Elective (Mandatory)	CST 15	2018
		Design and Analysis of Algorithms	CST 16	2018
		System Programming	CST 17	2018

		Micro Processor and Interfacing	CST 18	2018
		Software Project Management	CST 19	2018
		Massive Online Open Course (MOOCS) Elective-I	CSE 01	2018
		Microprocessors and Interfacing Laboratory	CSP 10	
		Algorithms and System Programming Laboratory	CSP 11	2019
		Soft Skills Laboratory	CST 12	2019
				2019
B.Tech	CSE	Cyber Law and Ethics	CSE 20	2019
		Artificial Intelligence	CST 21	2019
		Compiler Construction	CST 22	2019
		Elective -II Cyber Security	CSE 02	2019
		Elective-III Data Analytics	CSE 03	2019
		Managerial Accountancy	HUT 10	2019
		Core Laboratory	CSP 13	2019
		Elective -I Laboratory	CSP 14	2019
		Project Work-I	CSP 15	
		Comprehensive Viva-Voice -I	CSP 16	2019
B.Tech	CSE	Elective-IV	CST 24	2019
		Industrial Management	MET 42	2019
		Managerial economics	HUT 02	2019
		Elective-II Lab	CSE17	2019
		Project Work-II	CSP 18	2019
		Seminar-I	CSP 19	2019
		Comprehensive Viva-Voice -2	CSP 20	2019
		Internship/Mini Project Viva- Voice Exam	CSP 21	2019

**I. National Initiatives/Needs**

**National Green Energy Initiatives:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech				

**National Biotechnology Initiatives:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech			---	--

**Geographical Integration System (GIS) Initiatives:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech				

**National Digital Initiatives:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech				

**Initiatives on Environment & Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech				

**Initiatives on Water Resources & Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction

B.Tech				

**Initiatives on Agricultural & Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech			---	--

**Initiatives on Health & Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech			---	--

**Initiatives on Nanovision & Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech			---	--

**Initiatives on Translational Mission:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech			---	--

**Initiatives on Sarva Siksha Abhiyan:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech			---	--

**Initiatives on Rural Development:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech				

**II. Regional Needs:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech			---	---

**III. Global Needs:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	CE	---	---	---

2018

Table 1.1.1. Details of courses addressing Local, National, Regional and Global Developmental Needs.

**I. Local Needs**

Programme name	Programme code	Course name	Course code	Year of Introduction
<b>R18</b>	1-1422777019			
B.Tech	1-1422777019	Mathematics I	MABST101	2018
	1-1422777019	Modern Physics	PYBST102	2018
	1-1422777019	Programming for Problem Solving	CSEST103	2018
	1-1422777019	Python Programming	CSEST104	2018
	1-1422777019	Workshop / Manufacturing Practices	MEESP105	2018
	1-1422777019	Programming for Problem Solving Laboratory	CSESP106	2018
	1-1422777019			
B.Tech	1-1422777019	Mathematics II	MABST201	2019
	1-1422777019	Engineering Chemistry	CYBST202	2019
	1-1422777019	English	ENHST203	2019
	1-1422777019	Basic Electrical Engineering	EEEST204	2019
	1-1422777019	Engineering Graphics	MEEST205	2019
	1-1422777019	English Communication Laboratory	ENHSP206	2019
	1-1422777019			
B.Tech	1-1422777019	Data structure and Algorithms	CSPCT 301	2019
	1-1422777019	Managerial Accountancy	COHST 302	2019
	1-1422777019	Discrete Mathematics	CSPCT 303	2019
	1-1422777019	Probability and Statistics	MABST 304	2019

	1-1422777019	Analog Electronics	ECPCT 305	2019
	1-1422777019	Analog Electronics Lab	ECPCP306	2019
	1-1422777019	Data structure and Algorithms Lab	CSPCP307	2019
	1-1422777019	IT Workshop (Sci Lab/MAT Lab)	CSPCW308	2019
	1-1422777019	Constitution of India	PAMCT309	
	1-1422777019			
B.Tech	1-1422777019	Complex Analysis and Numerical Techniques	MABST 401	2020
	1-1422777019	Digital Electronics and Logic Design	ECPCT 402	2020
	1-1422777019	Simulation and Modeling	MEPCT 403	2020
	1-1422777019	Design and Analysis of Algorithms	CSPCT 404	2020
	1-1422777019	Computer Organization	CSPCT 405	2020
	1-1422777019	Database Management Systems	CSPCT 406	2020
	1-1422777019	Algorithms Laboratory	CSPCP 407	2020
	1-1422777019	Assembly Language Programming and VHDL Laboratory	CSPCP 408	2020
	1-1422777019	Database Management Systems Laboratory	CSPCP 409	2020
	1-1422777019			
B.Tech	1-1422777019	Operating Systems	CSPCT 501	2020
	1-1422777019	Formal Languages and Automata Theory	CSPCT 502	2020
	1-1422777019	Software Engineering	CSPCT 503	2020
	1-1422777019	Embedded Systems and Internet of Things	CSPCT 504	2020
	1-1422777019	Optimization Techniques	MEEST 505	2020
	1-1422777019	Basics of Mechanical Engineering	MEBST 506	2020
	1-1422777019	Operating Systems Laboratory	CSPCP 507	2020
	1-1422777019	Software Engineering Laboratory	CSPCP 508	2020
	1-1422777019	Internet of Things Laboratory	CSPCP 509	2020
	1-1422777019	Seminar I	CSSEP 510	2020
	1-1422777019			
B.Tech	1-1422777019	Program Elective - I	CSPET 701	2021
	1-1422777019	Program Elective - II	CSPET 702	2021
	1-1422777019	Program Elective - I Laboratory	CSPEP 703	2021
	1-1422777019	Program Elective - II Laboratory	CSPEP 704	2021
	1-1422777019	Project Work Phase-1	CSPWP 705	2021
	1-1422777019	Internship / Mini Project	CSINP 706	2021
	1-1422777019	Seminar – II	CSSEP 707	2021
	1-1422777019			2021
B.Tech	1-1422777019	Industrial Management	MEPCT 801	2021
	1-1422777019	Managerial Economics	COPCT 802	2021
	1-1422777019	Program Elective – III	CSPET 803	
	1-1422777019	Open Elective – II Online	CSOET 804	2021
	1-1422777019	Open Elective – III Online	CSOET 805	2021
	1-1422777019	Program Elective - III Laboratory	CSPEP 806	2021
	1-1422777019	Project Work Phase-2	CSPWP 807	2021

## II. National Initiatives/Needs

### National green Energy Initiatives:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019			
	1-1422777019			
	1-1422777019			
	1-1422777019			

### National Biotechnology Initiatives:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019			

**Geographical Integration System (GIS) Initiatives:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019			
	1-1422777019			
	1-1422777019			

**National Digital Initiative:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019			

**Initiatives on Environment & Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019			
	1-1422777019			
	1-1422777019			
	1-1422777019			

**Initiatives on Water Resources:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019			
	1-1422777019			
	1-1422777019			
	1-1422777019			

**Initiatives on Agricultural Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019			

**Initiatives on Health Promotions:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019			

**Initiatives on Nanoission:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019			--

**Initiatives on Translational Mission:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019	----	---	--

**Initiatives on Sarva Siksha Abhiyan:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019	----	---	--

**Initiatives on Rural Development:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019			

**III. Regional needs:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019			--

**IV. Global Needs:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019			--

2020

Table 1.1.1. Details of courses addressing Local, National, Regional and Global Developmental Needs.

**I. Local Needs**

Programme name	Programme code	Course name	Course code	Year of Introduction
<b>R20</b>				
B.Tech	1-1422777019	Mathematics – I	MA 101	2020
	1-1422777019	Engineering Chemistry	CY 101(2)	2020
	1-1422777019	English	EN103	2020
	1-1422777019	Basic Electrical & Electronics Engineering	EE 104	2020

	1-1422777019	Engineering Graphics & Design	ME 105	2020
	1-1422777019	English Communication Lab	EN 106	2020
	1-1422777019			
B.Tech	1-1422777019	Mathematics – II	MA 201	2021
	1-1422777019	Engineering Physics	PY 202	2021
	1-1422777019	Programming for Problem solving	CS 203	2021
	1-1422777019	Engineering Mechanics	CE 204	2021
	1-1422777019	Workshop/Manufacturing Practices	ME 205	2021
	1-1422777019	Programming for Problem solving Lab	CS 206	2021
	1-1422777019	Environmental Science	CE 207	2021
	1-1422777019			
B.Tech	1-1422777019	Mathematics III	MA301C	2021
	1-1422777019	Database Management Systems	CS302C	2021
	1-1422777019	Discrete Mathematical Structures	CS303C	2021
	1-1422777019	Basic Electrical Engineering	CS304C	2021
	1-1422777019	Elements of Electronics and Communication Engineering	CS305C	2021
	1-1422777019	Database Management Systems	CS306L	2021
	1-1422777019	Laboratory		
	1-1422777019	Electronics and Communication Engineering Laboratory	CS307L	2021
	1-1422777019	Skill Oriented Course - Basic Python	CS309S	2021
	1-1422777019	Programming		
	1-1422777019	Audit Course - Constitution of India	PA310A	2021
	1-1422777019			
B.Tech	1-1422777019	Digital Electronics and Logic Design	CS401C	2022
	1-1422777019	Simulation and Modeling	CS402C	2022
	1-1422777019	Managerial Economics and Accountancy	HS403C	2022
	1-1422777019	Computer Oriented Numerical Methods	CS404C	2022
	1-1422777019	Computer Organization	CS405C	2022
	1-1422777019	Design and Analysis of Algorithms	CS406C	2022
	1-1422777019	Assembly Language Programming and	CS407L	2022
	1-1422777019	VHDL Laboratory		
	1-1422777019	Algorithms Laboratory	CS408L	2022
	1-1422777019	Skill Oriented Course - Basic Web	CS409S	2022
	1-1422777019	Designing		
	1-1422777019			
	1-1422777019	HONORS		
	1-1422777019	Distributed Databases	CSHN01	
	1-1422777019	Advanced Operating Systems	CSHN02	
	1-1422777019	Multicore Computing	CSHN03	
	1-1422777019	Natural Language Processing	CSHN04	
	1-1422777019	Software Architecture and Design	CSHN05	
	1-1422777019	Patterns		
	1-1422777019	Multi Agent Systems	CSHN06	
	1-1422777019	Deep Learning	CSHN07	
	1-1422777019	MINOR		
	1-1422777019	Data Structures	CSMN01	
	1-1422777019	Computer Organization	CSMN02	
	1-1422777019	Database Management Systems	CSMN03	
	1-1422777019	Computer Networks	CSMN04	
	1-1422777019	Software Engineering	CSMN05	
	1-1422777019	Java and Web Technology	CSMN06	

**I. National Initiatives/Needs**

**National green Energy Initiatives:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019	Environmental Science	CE 207	2021
		Environmental Engg. -I	CE405C	2022

**National Biotechnology Initiatives:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019	----	---	--

**Geographical Integration System (GIS) Initiatives:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019	Surveying	CE304C	2021
		Surveying Lab	CE 307P	2021

**National Digital Initiative:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019	----	---	--

**Initiatives on Environment & Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019	Environmental Science	CE 207	2021
		Environmental Engg. -I	CE405C	2022

**Initiatives on Water Resources:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019	Fluid Mechanics and Hydraulic Machines	CE403C	2022
		Fluid Mechanics and Hydraulic Machines Lab	CE407P	2022

**Initiatives on Agricultural Sustainability:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019	----	---	--

**Initiatives on Health Promotions:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019	----	---	--

**Initiatives on Nanovision:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019	----	---	--

**Initiatives on Translational Mission:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019	----	---	--

**Initiatives on Sarva Siksha Abhiyan:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019	----	---	--

**Initiatives on Rural Development:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019	----	---	--

**II. Regional needs:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019	----	---	--

**III. Global Needs:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777019	----	---	--



Table 1.1.1. Details of courses addressing Local, National, Regional and Global Developmental Needs.

2016

I. Local Needs

Programme name	Programme code	Course name	Course code	Year of Introduction
<b>R16</b>	1-1422777042			
B.Tech	ECE	Engineering Mathematics- I	MAT01	2016
		Computer Programming	CST01	2016
		Environmental Studies	CET01	2016
		Basic Civil Engineering	CET02	2016
		Basic Mechanical Engineering	MET02	2016
		English	ENT01	2016
		Computer Programming Lab	CSP01	2016
		English Communication Lab	ENP01	2016
B.Tech	ECE	Engineering Mathematics II	MAT02	2017
		Data structures	CST02	2017
		Engineering Physics	PHY01	2017
		Engineering Chemistry	CYT01	2017
		Circuit theory	EET02	2017
		Engineering Graphics	MET01	2017
		Data Structures Lab	CSP02	2017
		Workshop practice	MEP01	2017
B.Tech	ECE	Engineering Mathematics – III	MAT03	2017
		Network Analysis	EET03	2017
		Electronic Devices	ECT02	2017
		Signals & Systems	ECT03	2017
		Electromagnetic Fields & Waves	ECT04	2017
		Electrical Technology	EET41	2017
		Electrical Circuits and Machines Lab	EEP41	2017
		MATLAB and Simulation Lab	ECP01	2017
B.Tech	ECE	Electronic Circuits Analysis	ECT05	2018
		Pulse and Digital Circuits	ECT06	2018
		Switching Theory and Logic Design	ECT07	2018
		Random Signals and Stochastic Process	ECT08	2018
		Analog Communication	ECT09	2018
		Transmission line and waveguides	ECT10	2018
		Control Systems	EET42	2018
		Electronic Circuits Analysis Lab	ECP02	2018
		Analog Communication Lab	ECP03	2018
B.Tech	ECE	Economics	EOT01	2018
		Accountancy	AOT01	2018
		Analog IC Applications	ECT11	2018
		Antennas and Wave Propagation	ECT12	2018
		Electronic Measurements and Instrumentation	ECT13	2018
		Digital Communication	ECT14	2018
		Computer Organization	ECT15	2018
		Digital Circuits Lab	ECP04	2018
		Digital Communication Lab	ECP05	2018
		Electronic Measurements Lab	ECP06	2018
B.Tech	ECE	Management Science	MET43	2019
		Digital IC Design Applications	ECT16	2019
		VLSI Design	ECT17	2019
		Microprocessors and Interfacing	ECT18	2019
		Microwave Techniques	ECT19	2019
		Digital Signal Processing	ECT20	2019
		Elective -I (Open Elective)	EC-OE01/ EC-OE02	2019
		IC Applications Lab	ECP07	2019
		VLSI Lab	ECP08	2019
B.Tech	ECE	Radar Engineering	ECT21	2019
		Optical Communication	ECT22	2019
		Mobile Communication	ECT23	2019
		Communication Networks	ECT24	2019

		Elective-II (Dept Elective)	ECT25	2019
		Microprocessors and Interfacing Lab	ECP09	2019
		Microwave and Optical Communication Lab	ECP10	2019
		DSP Lab	ECP11	2019
B.Tech	ECE	Elective III (Discipline: e_Learning)	ECT26	2020
		Elective IV (MOOCs)	ECT27	2020
		Mini Project / Internship	ECP12	2020
		Project Work	ECP13	2020

#### I. National Initiatives/Needs

##### National Green Energy Initiatives:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	Environmental Science	CEACT01	2016

##### National Biotechnology Initiatives:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	---	---	--

##### Geographical Integration System (GIS) Initiatives:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	---	---	--

##### National Digital Initiatives:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	Internet of Things	EC609S	2018

##### Initiatives on Environment & Sustainability:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	Environmental Science	CEACT 107	2016

##### Initiatives on Water Resources & Sustainability:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	---	---	--

##### Initiatives on Agricultural & Sustainability:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	---	---	--

##### Initiatives on Health & Sustainability:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	Bio Medical Electronics	ECPET18	2018

##### Initiatives on Nanovission & Sustainability:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	Nano Electronics	ECPET15	2018

##### Initiatives on Translational Mission:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	---	---	--

##### Initiatives on Sarva Siksha Abhiyan:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	---	---	--

##### Initiatives on Rural Development:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	---	---	---

#### I. Regional Needs:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	---	---	---

#### III. Global Needs:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	Mobile Communication.	ECPET14	2010
B.Tech	1-1422777042	Satellite Communication	ECPET07	2010
B.Tech	1-1422777042	Analog & Digital Communication	ECPCT404	2010
B.Tech	1-1422777042	VLSI Design	EC601C	2016
B.Tech	1-1422777042	Digital IC Design	ECPCP609	2016
B.Tech	1-1422777042	Neural Network and Fuzzy Logic	ECPET09	2016
B.Tech	1-1422777042	Cyber Security.	ECPEC	2016
B.Tech	1-1422777042	Embedded Systems	ECPET06	2018

B.Tech	1-1422777042	OOPs Through JAVA	e-Learning	2018
B.Tech	1-1422777042	Information Theory and Coding	ECPET05	2010

2018

Programme name	Programme code	Course name	Course code	Year of Introduction
<b>R18</b>	1-1422777042			
B.Tech	1-1422777042	Mathematics-I	MABST 101	2018
	1-1422777042	Programming for Problem Solving	CSEST 103	2018
	1-1422777042	Electronic Devices	ECESST 104	2018
	1-1422777042	Workshop/Manufacturing Practices	MEESP 105	2018
	1-1422777042	Programming for Problem Solving Lab	CSESP 106	2018
	1-1422777042	Environmental Science	CEACT 107	2018
	1-1422777042			
B.Tech	1-1422777042	Mathematics-II	MABST 201	2019
	1-1422777042	Engineering Chemistry	CYBST 202	2019
	1-1422777042	English	HSENT 203	2019
	1-1422777042	Basic Electrical Engineering	EEEST 204	2019
	1-1422777042	Engineering Graphics & Design	MEEST 205	2019
	1-1422777042	English Communications Lab	HSENP 206	2019
	1-1422777042			
B.Tech	1-1422777042	Mathematics-III	MABST301	2019
	1-1422777042	Network Theory	EEPCT302	2019
	1-1422777042	Electromagnetic Waves	ECPCT303	2019
	1-1422777042	Digital System Design	ECPC304	2019
	1-1422777042	Economics	HSMCT305	2019
	1-1422777042	Accountancy	HSMCT306	2019
	1-1422777042	Electronic Devices Lab	ECPCP307	2019
	1-1422777042	Digital System Design Lab	ECPCP308	2019
	1-1422777042	Basic Electrical Engineering Lab	EEESP 309	2019
	1-1422777042	Constitution of India	HSACT310	2019
	1-1422777042			
B.Tech	1-1422777042	Analog Circuits	ECPC401	2020
	1-1422777042	Signals and Systems	ECPC402	2020
	1-1422777042	Probability Theory and Stochastic Processes	ECPC403	2020
	1-1422777042	Analog and Digital Communication	ECPC404	2020
	1-1422777042	Computer Organization and Architecture	CSPCT405	2020
	1-1422777042	Management Science	HSMCT406	2020
	1-1422777042	Psychology	HSMCT407	2020
	1-1422777042	Analog Circuits Lab	ECPCP408	2020
	1-1422777042	Analog and Digital Communication Lab	ECPCP409	2020
	1-1422777042			
B.Tech	1-1422777042	Linear Control Systems	EEPCT501	2020
	1-1422777042	IC Applications	ECPC502	2020
	1-1422777042	Microcontrollers	ECPC503	2020
	1-1422777042	Digital Signal Processing	ECPC504	2020
	1-1422777042	Electronic Measurements	ECPC505	2020
	1-1422777042	Open Elective - I	ECOET506	2020
	1-1422777042	Open Elective-II (MOOCs)	ECOET507	2020
	1-1422777042	IC Applications Lab	ECPCP508	2020
	1-1422777042	Microcontrollers Lab	ECPCP509	2020
	1-1422777042	Digital Signal Processing Lab	ECPCP510	2020
	1-1422777042			
B.Tech	1-1422777042	Computer Networks	ECPC601	2021
	1-1422777042	Program Elective - I	ECPC602	2021
	1-1422777042	Program Elective - II (MOOCs / e_Learning)	ECPC603	2021
	1-1422777042	Open Elective-III	ECOET604	2021
	1-1422777042	Open Elective-IV	ECOET605	2021
	1-1422777042	Computer Networks Lab	ECPCP606	2021
	1-1422777042	Electromagnetic Waves and Microwaves Lab	ECPCP607	2021
	1-1422777042	Electronic Measurements Lab	ECPCP608	2021
	1-1422777042	Electronic Design Workshop / Mini Project	ECPCP609	2021
	1-1422777042			
B.Tech	1-1422777042	Program Elective-III	ECPC701	2021
	1-1422777042	Program Elective -IV	ECPC702	2021
	1-1422777042	Program Elective - V	ECPC703	2021
	1-1422777042	Total Quality Management	HSMCT704	2021

	1-1422777042	Summer Industry Internship / Mini Project	ECPCI705	2021
	1-1422777042	Project - I	ECPXP706	2021
	1-1422777042			
B.Tech	1-1422777042	Program Elective - VI	ECPET801	2022
	1-1422777042	Program Elective - VII	ECPET802	2022
	1-1422777042	Project – II	ECPXP803	2022
	1-1422777042			

### I. National Initiatives/Needs

#### National green Energy Initiatives:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	Environmental Science	CEACT 107	2018

#### National Biotechnology Initiatives:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	---	---	--

#### Geographical Integration System (GIS) Initiatives:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	---	---	--

#### National Digital Initiative:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	Internet of Things	EC609S	2018

#### Initiatives on Environment & Sustainability:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	Environmental Science	CEACT 107	2018

#### Initiatives on Water Resources:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	---	---	--

#### Initiatives on Agricultural Sustainability:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	---	---	--

#### Initiatives on Health Promotions:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	Bio Medical Electronics	ECPET18	2018

#### Initiatives on Nanovision:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	Nano Electronics	ECPET15	2018

#### Initiatives on Translational Mission:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	---	---	--

#### Initiatives on Sarva Siksha Abhiyan:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	---	---	--

#### Initiatives on Rural Development:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	---	---	--

### II. Regional needs:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	---	---	--

### III. Global Needs:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	Embedded Systems	ECPET06	2018
B.Tech	1-1422777042	OOPs Through JAVA	e-Learning	2018

2020

Programme name	Programme code	Course name	Course code	Year of Introduction
<b>R18</b>	1-1422777042			
B.Tech	1-1422777042	Mathematics – I	MA101	2020

	1-1422777042	Modern Physics	PY 102	2020
	1-1422777042	Programming for Problem Solving	CS 103	2020
	1-1422777042	Electronic Devices	EC 104	2020
	1-1422777042	Workshop / Manufacturing Practices	ME 105	2020
	1-1422777042	Programming for Problem Solving Lab	CS 106	2020
	1-1422777042	Environmental Science	CE 107	
	1-1422777042			
B.Tech	1-1422777042	Mathematics – II	MA201	2021
	1-1422777042	Engineering Chemistry	CY 202	2021
	1-1422777042	English	EN 203	2021
	1-1422777042	Basic Electrical Engineering	EE 205	2021
	1-1422777042	Engineering Graphics and design	ME 205	2021
	1-1422777042	EnglishCommunication Lab	EN206	2021
	1-1422777042			
B.Tech	1-1422777042	Mathematics – III	MA301B	2021
	1-1422777042	-Network Theory	EC302C	2021
	1-1422777042	Signals and Systems	EC303C	2021
	1-1422777042	ElectroMagnetic Waves and Transmission Lines	EC304C	2021
	1-1422777042	Digital Logic Design	EC305C	2021
	1-1422777042	Analog Circuits	EC306C	2021
	1-1422777042	Entrepreneurship and Design Thinking	EC309S	2021
	1-1422777042	Constitution of India	MC310A	2021
	1-1422777042	Basic Electrical Engineering Laboratory	EC307L	2021
	1-1422777042	Electronic Devices Laboratory	EC308L	2021
	1-1422777042	Simulation Laboratory	EC311L	2021
	1-1422777042			
B.Tech	1-1422777042	Linear Control Systems	EC404C-	2022
	1-1422777042	Probability Theory and Stochastic Processes	EC405C-	2022
	1-1422777042	Managerial Economics and Accountancy	EC409S-	2022
	1-1422777042	IC Applications	EC406L	2022
	1-1422777042	Analog Communications	EC407L	2022
	1-1422777042	Python Programming	EC408L	2022
	1-1422777042	Digital Logic Design Laboratory	EC404C-	2022
	1-1422777042	Analog Circuits Laboratory	EC405C-	2022
	1-1422777042	IC Applications Laboratory	EC409S-	2022
	1-1422777042			

#### I. National Initiatives/Needs

##### National green Energy Initiatives:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	Environmental Science	CEACT 107	2018

##### National Biotechnology Initiatives:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	----	---	--

##### Geographical Integration System (GIS) Initiatives:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	----	---	--

##### National Digital Initiative:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	Internet of Things	EC609S	2018

##### Initiatives on Environment & Sustainability:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	Environmental Science	CEACT 107	2018

##### Initiatives on Water Resources:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	----	---	--

##### Initiatives on Agricultural Sustainability:

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	---	---	--

**Initiatives on Health Promotions:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	Bio Medical Electronics	ECPET18	2018

**Initiatives on Nanovission:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	Nano Electronics	ECPET15	2018

**Initiatives on Translational Mission:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	---	---	--

**Initiatives on Sarva Siksha Abhiyan:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	---	---	--

**Initiatives on Rural Development:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	---	---	--

**II. Regional needs:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	---	---	--

**III. Global Needs:**

Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	1-1422777042	Embedded Systems	ECPET06	2018
B.Tech	1-1422777042	OOPs Through JAVA	e-Learning	2018

Table 1.1.1. Details of courses addressing Local, National, Regional and Global Developmental Needs.

I. Local Needs				
Programme name	Programme code	Course name	Course code	Year of Introduction
<b>R16</b>	EEE	Environmental Studies	CET01	2016
B.Tech		Basic Civil Engineering		2016
		Basic Mechanical Engineering		2016
		Engineering Physics	PHT01	2017
		Engineering Chemistry	CYT01	2017
		Engineering Graphics	MET01	2017
		Economics	HUT03	2018
		Accountancy	HUT04	2018
		Elective-I (OPEN ELECTIVE)		2019
II. National Initiatives/Needs				
National Green Energy Initiatives:				
Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	EEE	Circuit Theory	EET02	2017
		Network Analysis	EET 03	2017
		Electronic Devices	ECT02	2017
		Electromagnetic Fields	EET04	2017
		Generation of Electrical Power	EET05	2017
		Electromechanical Energy Conversion-I	EET06	2017
		Circuits and Networks Lab	EET 01	2017
		Matlab Simulation Lab	EET 02	2017
		Signals and Systems	EET07	2018
		Analog Circuits	ECT55	2018
		Digital Logic Design	ECT56	2018
		Power Systems-I	EET11	2018
		Electromechanical Energy Conversion-II	EET12	2018
		Electromechanical Energy Conversion-I lab	EET03	2018
		Electronic Devices and Circuits Lab	EET04	2018
		Linear Control Systems	EET13	2018
		Pulse and Digital Circuits	ECT57	2018
		Analog and Digital IC Applications	ECT58	2018
		Power Systems-II	EET14	2018
		Electromechanical Energy Conversion-III	EET15	2018
		Electromechanical Energy Conversion-II Lab	EET05	2018
		PDC & IC Lab	EE P06	2018
		Advanced Control System	EET16	2019
		Power System Analysis	EET18	2019
		Power Electronics	EET19	2019
		Electrical and Electronic Measurements	EET10	2019
		Control Systems Lab	EET07	2019
		EEM Lab	EET08	2019
		Power System Operation and Control	EET20	2019
		Power Semiconductor Controlled Drives	EET21	2019
		Utilization of Electrical Power	EET22	2019
		Power System Protection	EET23	2019
		Elective –II (Department )	EEL-01	2019
		Elective-III(Department)	EEL02	2019
		Power Electronics Lab	EET09	2019
		Microprocessors and Applications Lab	EET10	2019
		Mini Project / Internship	EET11	2020
		Power System Simulation Lab	EET12	2020
		Project Work	EET13	2020
National Biotechnology Initiatives:				
Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech		----	---	--
Geographical Integration System (GIS) Initiatives:				
Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	EEE	--	--	--
National Digital Initiatives:				
Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	EEE	--	--	--
Initiatives on Environment & Sustainability:				
Programme name	Programme code	Course name	Course code	Year of Introduction
B.Tech	EEE	Environmental Studies	CET01	2016
		Generation of Electrical Power	EET05	
Initiatives on Water Resources & Sustainability:				
Programme name	Programme code	Course name	Course code	Year of Introduction

B.Tech	EEE	--	--	--	
<b>Initiatives on Agricultural &amp; Sustainability:</b>					
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>	
B.Tech	EEE	---	---	--	
<b>Initiatives on Health &amp; Sustainability:</b>					
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>	
B.Tech	EEE	---	---	--	
<b>Initiatives on Nanovision &amp; Sustainability:</b>					
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>	
B.Tech	EEE	---	---	--	
<b>Initiatives on Translational Mission:</b>					
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>	
B.Tech	EEE	---	---	--	
<b>Initiatives on Sarva Siksha Abhiyan:</b>					
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>	
B.Tech	EEE	---	---	--	
<b>Initiatives on Rural Development:</b>					
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>	
B.Tech	EEE				
<b>III. Regional Needs:</b>					
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>	
B.Tech	EEE				
<b>III. Global Needs:</b>					
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>	
B.Tech	EEE	Engineering Mathematics-I	MAT 01		2016
		Computer Programming	CST01		2016
		English	ENT01		2017
		Computer Programming Lab	CSP01		2016
		English Communication Lab	ENP01		2017
		Engineering Mathematics –II	MAT02		2017
		Data Structures	CST02		2017
		Data Structures Lab	CSP02		2017
		Workshop Practice	MEP01		2016
		Engineering Mathematics-III	MAT 03		2017
		Management Science	HU02		2018
		Microprocessors and Microcontrollers	EET17		2019
		Elective-IV (e-learning)	EEL03		2020
		Elective -V(MOOCs)	EEL04		2020
2018					
<b>I. Local Needs</b>					
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>	
R18	EEE	-	-	-	
B.Tech					
<b>II. National Initiatives/Needs</b>					
<b>National Green Energy Initiatives:</b>					
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>	
B.Tech	EEE	Modern Physics	PYBST102		2018
		Engineering Mechanics	CEEST104		2018
		Workshop/ Manufacturing Practice	MEESW 105		2018
		Programming for problem solving lab	CSESP106		2018
		Environmental Science	CEMCT107		2018
		Mathematics-II	MABST201		2018
		Engineering Chemistry	CYBST202		2018
		Basic Electrical Engineering	EEEST204		2019
		Engineering Graphics and Design	MEEST205		2019
		English Communication Lab	ENHSP 206		2019
		Mathematics –III	MABST301		2019
		Electro Magnetic Fields	EEPCT302		2019
		Electrical Circuit Analysis	EEPCT303		2019
		Electrical Machines –I	EEPCT304		2019
		Analog Electronics	ECPT305		2019
		Economics	EOHST306		2019
		Electrical Circuit Analysis Lab	EEPCT307		2019
		Electrical Machines-I Lab	EEPCT308		2019
		Analog Electronics Lab	ECPCP309		2019
		Constitution of India	PAMCT310		2019



		Power systems-I	EEPCT401	2020
		Digital Electronics	ECPCT402	2020
		Signals and Systems	ECPCP403	2020
		Accountancy	EOHST405	2020
		Measurements & Instrumentation Lab	EEPCP406	2020
		Electrical Machines-II Lab	EEPCP407	2020
		Digital Electronics Lab	EEPCP408	2020
		Control Systems	EEPCT501	2020
		Power Systems- II	EEPCT502	2020
		Microprocessors	ECPCP503	2020
		Professional Elective - I	EEPET504	2020
		Control Systems Lab	EEPCP505	2020
		Power Systems - I Lab	EEPCP506	2020
		Micro Processors Lab	EEPCP507	2020
		Power Systems - III	EEPCT601	2021
		Power Electronics	EEPCT602	2021
		Professional Elective - II	EEPET603	2021
		Professional Elective - III	EEPET604	2021
		Management Science	MGHST607	2021
		Power Electronics Lab	EEPCP608	2021
		Electronic Design Lab	EEPCP609	2021
		Professional Elective - IV	EEPET701	2021
		Professional Elective - V	EEPET702	2021
		Professional Elective - VI	EEPET703	2021
		Power System -II Lab	EEPCP704	2021
		Professional Elective - VII	EEPET801	2022
		Professional Elective - VIII	EEPET802	2022
		Open Elective - III	EEOET803	2022
		Open Elective - IV	EEOET804	2022
<b>National Biotechnology Initiatives:</b>				
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech		---	---	--
<b>Geographical Integration System (GIS) Initiatives:</b>				
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech	EEE	--	--	--
<b>National Digital Initiatives:</b>				
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech	EEE	--	--	--
<b>Initiatives on Environment &amp; Sustainability:</b>				
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech	EEE	--	--	--
<b>Initiatives on Water Resources &amp; Sustainability:</b>				
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech	EEE	--	--	--
<b>Initiatives on Agricultural &amp; Sustainability:</b>				
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech	EEE	---	---	--
<b>Initiatives on Health &amp; Sustainability:</b>				
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech	EEE	---	---	--
<b>Initiatives on Nano vision &amp; Sustainability:</b>				
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech	EEE	---	---	--
<b>Initiatives on Translational Mission:</b>				
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech	EEE	---	---	--
<b>Initiatives on Sarva Siksha Abhiyan:</b>				
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech	EEE	---	---	--
<b>Initiatives on Rural Development:</b>				
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech	EEE	--	--	--
<b>III. Regional Needs:</b>				
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech	EEE			
<b>III. Global Needs:</b>				
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech	EEE	Mathematics-I	MABST 101	2018
		Programming for problem solving	CSEST103	2018
		English	ENHST 203	2019
		English Communication Lab	ENHSP 206	2019



B.Tech	EEE	---	---	--
<b>Initiatives on Translational Mission:</b>				
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech	EEE	---	---	--
<b>Initiatives on Sarva Siksha Abhiyan:</b>				
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech	EEE	---	---	--
<b>Initiatives on Rural Development:</b>				
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech	EEE			
<b>III. Regional Needs:</b>				
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech	EEE			
<b>III. Global Needs:</b>				
<b>Programme name</b>	<b>Programme code</b>	<b>Course name</b>	<b>Course code</b>	<b>Year of Introduction</b>
B.Tech	EEE	Programming for problem solving	CS103	2020
		Mathematics-II	MA201	2021
		English	EN203	2021
		English Communication Lab	EN206	2021
		Mathematics –III	MA301B	2021
		Computer Skills	EE309S	2021
		Digital Electronics	EE404C	2022
		Python Programming	EE409S	2022

Table. 1.1.1. Details of courses Addressing Local, National, Regional and Global Developmental Needs.

I. Local Needs:

Programme Name	Programme Code	Course Name	Course Code	Year of Introduction	Description
B.TECH	1-1422777022	Manufacturing Processes	MET04	2016	Able to select materials, types and allowances of patterns and analyze the components of moulds, gating system in metal casting processes.
B.TECH	1-1422777022	Workshop Practice	MEP 01	2016	Design and develop different types of wood, metal joints and moulds based on the requirement
B.TECH	1-1422777022	Basic Electrical Engineering	EET01	2016	Acquire knowledge of DC circuit analysis, DC network theorems and their applications
B.TECH	1-1422777022	Basic Electronics Engineering	ECT01	2016	Identify functions of digital multimeter, cathode ray oscilloscope and transducers in the measurement of physical variables
B.TECH	1-1422777022	Mechanics of Solids	CET42	2016	Able to select materials, types and allowances of patterns and analyze the components of moulds, gating system in metal casting processes.
B.TECH	1-1422777022	Mechanics of Solids Lab	CEP41	2016	Analyze and interpret laboratory data relating to behavior of structures and the materials they are made of, and undertake associated laboratory work individually and in teams.
B.TECH	1-1422777022	Manufacturing Process Lab	MEP02	2016	Able to analyze different types of cutting tools, single point and multi point cutting tool and the manufacture of these tools, the speeds at which a specific type of tool will machine a particular type of material.
B.TECH	1-1422777022	Machine Tools and Metal Cutting	MET07	2016	Able to select appropriate machining processes and conditions on behalf of different metals for a specific application in real time.
B.TECH	1-1422777022	Machine Tools Lab	MEP03	2016	Forces, can control appropriateness for machine power according to working standards
B.TECH	1-1422777022	Fuels Lab	MEP04	2016	Analyze important fuel and lubricant properties for the application in specific exploitation conditions
B.TECH	1-1422777022	Automobile Engineering	MET20	2016	Knowledge on cooling systems, lubrication systems and ignition systems of SI and CI engines
M.TECH (P.E)	1-1422777032	Advanced Manufacturing Processes	PEPC 01	2016	Analyze the different elements and characteristics of different types of Advanced Manufacturing Processes and its applications.
M.TECH (P.E)	1-1422777032	Advanced Casting Technology	PEPE 13	2016	Understanding of the concepts related to the casting processes and the factor those influence the design process for metals and alloys
M.TECH (P.E)	1-1422777032	Operations Planning and Control	PEPE 12	2016	Forecasting principles and techniques for short range and long range planning
M.TECH (P.E)	1-1422777032	Metrology & Computer Aided Inspection	PEPE 23	2016	Metrology, quality control and Inspection so that they can meet the challenges in the industries.
M.TECH (P.E)	1-1422777032	Metal Cutting Tool Design	PEPC 04	2016	Ability to extend, through modeling techniques, the single point, multiple point and abrasive machining processes
M.TECH (P.E)	1-1422777032	Advanced Welding Processes	PEPE 41	2016	Weldability and perform different weldability testing for different metals

II. National Initiatives/Needs

National Green Energy Initiatives:

Programme Name	Programme Code	Course Name	Course Code	Year of Introduction	Description
B.TECH	1-1422777022	Non-Conventional Energy Sources	MEP07	2016	Various non-conventional sources of energy like wind, solar, tidal and biomass etc and its applications in remote areas of the country

National Biotechnology Initiatives:

Programme	Programme Code	Course Name	Course Code	Year of Introduction	Description
		nil			

Geographical Integration System (GIS) Initiatives:

Programme	Programme Code	Course Name	Course Code	Year of Introduction	Description

Initiatives on Environment & Sustainability:

Programme Name	Programme Code	Course Name	Course Code	Year of Introduction	Description
B.TECH	1-1422777022	Environmental Science	CET01	2016	Able to understand the importance of the environment


### III. Regional Needs:

Programme Name	Programme Code	Course Name	Course Code	Year of Introduction	Description
B.TECH	1-1422777022	Manufacturing Processes	MET04	2016	Able to select materials, types and allowances of patterns and analyze the components of moulds, gating system in metal casting processes.
B.TECH	1-1422777022	Workshop Practice	MEP 01	2016	Design and develop different types of wood, metal joints and moulds based on the requirement
B.TECH	1-1422777022	Basic Electrical Engineering	EET01	2016	Acquire knowledge of DC circuit analysis, DC network theorems and their applications
B.TECH	1-1422777022	Basic Electronics Engineering	ECT01	2016	Identify functions of digital multimeter, cathode ray oscilloscope and transducers in the measurement of physical variables

### III. Global Needs:

Programme Name	Programme Code	Course Name	Course Code	Year of Introduction	Description
B.TECH	1-1422777022	Thermodynamics	MET02	2016	Understand the concepts of continuum, system, control volume, thermodynamic properties, thermodynamic equilibrium, work and heat.
B.TECH	1-1422777022	Machine Tools and Metal Cutting	MET07	2016	Able to select appropriate machining processes and conditions on behalf of different metals for a specific application in real time.
B.TECH	1-1422777022	FluidMechanics & FluidMachines	CET43	2016	Acquire knowledge on the selection of hydraulic turbines for practical purposes and also able to prepare prototype models.
B.TECH	1-1422777022	Thermal Engineering	MET06	2016	Explore their knowledge & ability to design the constructional features of various types of boilers in various fields of energy transfer equipments
B.TECH	1-1422777022	Design of Machine Members – I	MET13	2016	Select components as per standards and Understand component behavior subjected to loads and identify the failure criteria
B.TECH	1-1422777022	Materials Scienceand Metallurgy	MET12	2016	Understand concept of mechanical behavior of materials and calculations of same using appropriate equations
B.TECH	1-1422777022	Refrigeration and Air – Conditioning	MET14	2016	Acquire knowledge of heating, ventilation, and air conditioning and refrigeration controls and technical components for optimum performance.
B.TECH	1-1422777022	Operations Research	MET15	2016	Understand the concepts of operations research modelling approaches and solve LP engineering problems
B.TECH	1-1422777022	Design of Machine Members – II	MET16	2016	Design keys, cotters, couplings and joints including riveted, bolted and welded joints.
B.TECH	1-1422777022	Industrial Engineering and Management	MET17	2016	Evolutionary development of management thought and general principles of management
B.TECH	1-1422777022	IC Engines and Gas Turbines	MET11	2016	Identify various types of I.C. Engines and fuel metering and supply systems
B.TECH	1-1422777022	Automobile Engineering	MET20	2016	Knowledge on cooling systems, lubrication systems and ignition systems of SI and CI engines
B.TECH	1-1422777022	Finite Element Method	MET20	2016	Identify the application and characteristics of FEA elements such as bars, beams, plane and iso-parametric elements.
B.TECH	1-1422777022	Non-Conventional Energy Sources	MEPET07	2016	Various non-conventional sources of energy like wind, solar, tidal and biomass etc and its applications in remote areas of the country
M.TECH (P.E)	1-1422777032	Robotics	PEPE 21	2016	Able to demonstrate the basic functioning and identifying of various components of robots
M.TECH (P.E)	1-1422777032	Design for Manufacturing	PEPE 22	2016	Design components for sheet metal work by understanding in depth the sheet metal processes and their formation mechanisms
M.TECH (P.E)	1-1422777032	Automation Manufacturing	PEPE 31	2016	Understand the different automated material handling, storage and retrieval systems and automated inspection systems.
M.TECH (P.E)	1-1422777032	Additive Manufacturing	PEPE 33	2016	Identify the need for time compression in product development and manufacturing
M.TECH (P.E)	1-1422777032	Constitution of India	PGPA 21	2016	Discuss the intellectual origins of the framework of argument that informed the conceptualization of social reforms leading to revolution in India.
M.TECH (I.E)	1-1422777030	Work System Design	IEPC 02	2016	Work study principle and design effective work layout for minimal hand and body motions
M.TECH (I.E)	1-1422777030	Financial Management & Control	IEPE 12	2016	Understand the process and importance of Cost Estimation, Cost Budgeting and Cost Control
M.TECH (I.E)	1-1422777030	Human Resource Management	IEPE 13	2016	Critically evaluate and apply theories and models of HRM that explain the nature and significance of key HRM practices and HRM outcomes as they relate to diverse organisational contexts.
M.TECH (I.E)	1-1422777030	Marketing Management	IEPE 22	2016	State the role and functions of marketing within a range of organizations

M.TECH (I.E)	1-1422777030	Supply Chain Management	IEPE 31	2016	Demand of the materials and maintain zero inventories with proper supply chain.
M.TECH (I.E)	1-1422777030	Project Management	IEPE 32	2016	Better analysis of the project planning, the role and responsibility of the team work in the assignment of jobs

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

<b>National Green Energy Initiatives - 2017-18</b>				
<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Centre for Womens Studies	239	Gender, environment, climate change & Livelihood	SVUWS-105a	2017-18
Education	299	M.Ed	Environmental Education – 304-C	2017
Botany	202	Algae, Bryophyta, Pteridophyta and Gymnosperms	BOT-101	2017-2018
	202	Taxonomy of Angiosperms	BOT-102	2017-2018
	202	Horticulture and Agriculture Biology	BOT-404 IE	2017-2018
M.Sc. Biotechnology	264	Food and Industrial Biotechnology	305c	2017
	264	Environmental Biotechnology	401	2017
Chemistry	208	General Chemistry I	CHE 104	2017
	208	Green Chemistry	CHE AC 303	2017
	208	Energy, environment and soils	CHE EC 401	2017
M.Sc. Environmental Sciences	266	Energy and Environment	ENV-201	2017
	266	Natural Resources Conservation	ENV-306 A	2017
	228	Environmental Geography	GEG – 103(C)	2017
	228	Oceanography	GEG – 104(A)	2017
	228	Map Projections	GEG – 105	2017
	228	Techniques of Mapping and map analysis	GEG – 106	2017
	228	Climatology	GEG - 201	2017
	228	Principles of Remote Sensing	GEG – 203(A)	2017
	228	Geography of Tourism	GEG – 203(B)	2017
	228	Industrial Geography	GEG – 203(C)	2017

Geography	228	Physical Geography of India	GEG – 204(A)	2017
	228	Interpretation of Topographical	GEG – 204(C)	2017
	228	(S.O.I., U.S and O.S) and Weather Maps		2017
	228	Research Techniques	GEG – 205	2017
	228	Urban Geography	GEG – 301	2017
	228	Geographical Information System (GIS)	GEG – 302	2017
	228	Agricultural Geography	GEG – 303(A)	2017
	228	Disaster Management Studies	GEG – 303(C)	2017
	228	GPS Survey and Report	GEG – 305	2017
	228	Regional Planning	GEG – 401	2017
	228	Advanced Remote Sensing	GEG – 402	2017
	228	Water and Soil Resources Management	GEG – 403(A)	2017
	228	Political Geography	GEG – 403(B)	2017
	228	Research in Geographical Studies	GEG – 403(C)	2017
	PhD- Geography	228	Remote Sensing Applications	GEG = 404
228		Research Methodology	GEG- RS1	2017
M.Sc. Extension Management and Communication Technology	228	Focusing on National renewable energy - geographical needs	GEG- RS2	2017
	234	Environmental Management	405-C	2017
Mathematics/Applied Mathematics	236/238	Mathematical Statistics	MA/AMA 404 A	2017
	236/238	Mathematical Modeling	MA 201	2017
	236/238	Graph Theory	MA/AM	2017
M.Sc.,Microbiology		Bioprocess Engineering	405(b)	2017
	<b>270</b>	Environmental Microbiology	MB 402	2017
M.SC. Industrial Microbiology	<b>268</b>	Fundamentals of Industrial Microbiology	IMB 301	2017
M.Sc. Zoology	260	Environmental Impact Assessment & Green Auditing	ZOO-306C	2017
Animal Biotechnology	269	Environmental Biotechnology	ABT-GE-305B	2017
Business Management MBA	198	Investment Management	322	2017



<b>National Green Energy Initiatives - 2018-19</b>				
<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Centre for Womens Studies	239	Gender, environment, climate change & Livelihood	SVUWS-105a	2018
Education	299	M.Ed	Environmental Education – 304-C	2018
Botany	202	Molecular Plant Physiology	BOT-404	2018-2019
	202	Ethnobotany and Phytomedicine	BOT-405 IE	2018-2019
	202	Molecular Genetics, Genomics and Proteomics	BOT-402	2018-2019
	202	Gardening and Nursery Techniques	BOT-309	2018-2019
	202	Organic Farming and Mushroom Cultivation	BOT-308	2018-2019
M.Sc. Biotechnology	264	Food and Industrial Biotechnology	304c	2018
	264	Bioprocess Engineering and Technology	304a.	2018
	264	Plant Tissue Culture	305a	2018
	264	Environmental Biotechnology	401	2018
M.Sc. Environmental Sciences	266	Energy and Environment	ENV-201	2018
	266	Natural Resources Conservation	ENV-306 A	2018
M.Sc Human Development and Child Welfare	232	Trends in Early Childhood Education	103	2018
	232	Quality Standards in Early Childhood Years	201	2018
	232	Children with Developmental Challenges	203	2018
	232	Rehabilitation and Management of Children with Developmental Challenges	403	2018
	232	Organizational Management of Child Welfare	405	2018
M.Sc. Extension Management and Communication Technology	232	Environmental Management	405-C	2018
				2018
M.SC. MICROBIOLOGY	270	Environmental Microbiology	MB 402	2017
M.SC. Industrial Microbiology	268	Fundamentals of Industrial Microbiology	IMB 301	2017

Physics	242	Solar Energy Thermal and Photovoltaic properties	242	2018
M.Sc. Zoology	260	Environmental Impact Assessment & Green Auditing	ZOO-406A	2018
Animal Biotechnology	269	Environmental Biotechnology	ABT-GE-305B	2018
Business Management	198	Investment Management	322	2018

<b>National Green Energy Initiatives - 2019-20</b>				
<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Centre for Womens Studies	239	Gender, environment, climate change & Livelihood	SVUWS-105a	2019
Education	299	M.Ed	Environmental Education – 304-C	2019
M.Sc. Biotechnology	264	Food and Industrial Biotechnology	304c	2019
	264	Bioprocess Engineering and Technology	304a.	2019
	264	Plant Tissue Culture	305a	2019
	264	Environmental Biotechnology	401	2019
M.Sc. Environmental Sciences	266	Energy and Environment	ENV-201	2019
	266	Natural Resources Conservation	ENV-306 A	2019
M.Sc Human Development and Child Welfare	232	Trends in Early Childhood Education	103	2019
	232	Quality Standards in Early Childhood Years	201	2019
	232	Children with Developmental Challenges	203	2019
	232	Rehabilitation and Management of Children with Developmental Challenges	403	2019
	232	Organizational Management of Child Welfare	405	2019
M.Sc. Extension Management and Communication Technology	232	Environmental Management	405-C	2019
M.SC. MICROBIOLOGY	270	Environmental Microbiology	MB 402	2017
M.SC. Industrial Microbiology	268	Fundamentals of Industrial Microbiology	IMB 301	2017
Animal Biotechnology	269	Environmental Biotechnology	ABT-OE-306A	2019
MBA	198	Investment Management	322	2019

			National Green Energy Initiatives - 2020-21		
S.No	Programme Name	Programme Code	Course Name	Course Code	Year of Introduction
6	Centre for Womens Studies	239	Gender, environment, climate change & Livelihood	SVUWS-105a	2020
9	Education		M.Ed	Environmental Education – 304-C	2020
33	M.Sc. Environmental Sciences	266	Energy and Environment	ENV-201	2020
		266	Natural Resources Conservation	ENV-306 A	2020
	M.Sc Human Development and Child Welfare	232	Trends in Early Childhood Education	103	2017
		232	Quality Standards in Early Childhood Years	201	2017
		232	Children with Developmental Challenges	203	2017
		232	Rehabilitation and Management of Children with Developmental Challenges	403	2017
		232	Organizational Management of Child Welfare	405	2017
	M.Sc. Extension Management and Communication Technology	234	Environmental Management	405-C	2020
39	M.SC. MICROBIOLOGY	270	Environmental Microbiology	MB 402	2017
	M.SC. Industrial Microbiology	268	Fundamentals of Industrial Microbiology	IMB 301	2017
44	M.Sc. Zoology	260	Environmental Impact Assessment & Green Auditing	ZOO-406B	2019
	Animal Biotechnology	269	Environmental Biotechnology	ABT-OE-306A	2019
45	Business Management				
		198	Investment Management	322	2020

<b>National Green Energy Initiatives - 2021-22</b>				
<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
AIHC & Archaeology	114	(B) Cultural Heritage Management	205(B)	2021
Centre for Womens Studies	239	Environment: Gender and Livelihood challenges	SVUWS-105a	2021-22
Anthropology	244	Tribal Development In India	104 (4c)	2021
	244	Epidemiology and Public Health	303-3(c)	2021
	244	Data management and Computer Applications	305	2021
	244	Tribal Studies	306-6b	2021
Biochemistry				2021
	204	Environmental biochemistry	IMT 106 b	2021
	204	Ecology and evolution	IMT 302	2021
M.Sc. Biotechnology	264	Food and Industrial Biotechnology	304c	2021
	264	Bioprocess Engineering and Technology	304a	2021
	264	Plant Tissue Culture	305	2021
	264	Environmental Biotechnology	401	2021
M.Sc. Environmental Sciences	266	Energy and Environment	ENV-201	2021
	266	Natural Resources Conservation	ENV-306 A	2021
Geography	228	Environmental Geography	GEG – 103(C)	2021
	228	Oceanography	GEG – 104(A)	2021
	228	Map Projections	GEG – 105	2021
	228	Techniques of Mapping and map analysis	GEG – 106	2021
	228	Climatology	GEG - 201	2021
	228	Principles of Remote Sensing	GEG – 203(A)	2021
	228	Geography of Tourism	GEG – 203(B)	2021
	228	Industrial Geography	GEG – 203(C)	2021
	228	Physical Geography of India	GEG – 204(A)	2021
	228	Interpretation of Topographical	GEG – 204(C)	2021
	228	(S.O.I., U.S and O.S) and Weather Maps		2021
	228	Research Techniques	GEG – 205	2021
	228	Urban Geography	GEG – 301	2021
	228	Geographical Information System (GIS)	GEG – 302	2021
	228	Agricultural Geography	GEG – 303(A)	2021
	228	Disaster Management Studies	GEG – 303(C)	2021

	228	GPS Survey and Report	GEG – 305	2021
	228	Regional Planning	GEG – 401	2021
	228	Advanced Remote Sensing	GEG – 402	2021
	228	Water and Soil Resources Management	GEG – 403(A)	2021
	228	Political Geography	GEG – 403(B)	2021
	228	Research in Geographical Studies	GEG – 403(C)	2021
	228	Remote Sensing Applications	GEG = 404	2021
Geography	228	Research Methodology	GEG- RS1	2021
	228	Focusing on National renewable energy - geographical needs	GEG- RS2	2021
Physics	242	Solar Energy Thermal and Photovoltaic properties	242	2021
Virology	272	Virus based Biotechnology	VR-405 b	2021
M.Sc. Zoology	260	Environmental Impact Assessment & Green Auditing	ZOO-306A	2021
Animal Biotechnology	269	Environmental Biotechnology	ABT-104A	2017

<b>National Biotechnology Initiatives 2017-2018</b>				
<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Biochemistry MSc	204	Molecular biology	Generic elective-a	2017-18
	204	Genetic engineering	Core I	2017-18
M.Sc. Biotechnology	264	Genetic Engineering	301	2017
	264	Cell and Tissue culture	302	2017
	264	Food and Industrial Biotechnology	305c	2017
	264	Environmental Biotechnology	401	2017
	264	Plant Biotechnology	402	2017
	264	Pharmaceutical Biotechnology	405a	2017
	264	Animal Biotechnology	405b	2017
	Chemistry	208	General Chemistry	CHE 204
208		Green Chemistry	CHE AC 303	2017
208		Instrumental methods of analysis	CHE IC 402	2017
208		Bioinorganic, bioorganic biophysical chemistry	CHE AC 403b	2017
208		Water pollution monitoring and environment laws	CHE EC 402	2017
M.Sc. Environmental Sciences	266	Waste Treatment and Management	ENV-301	2017
M.Sc., Aquaculture	267	Aquaculture Biotechnology	AQC; 401	2017
MSc, Geography	228	Geomorphology	GEG - 101	2017
	228	Climatology	GEG - 201	2017
	228	Physical Geography of India	GEG – 204(A)	2017
	228	Geographical Information System (GIS)	GEG – 302	2017
	228	Agricultural Geography	GEG – 303(A)	2017
	228	Geographical Information System (GIS)	GEG – 302	2017
	228	Research Methodology	GEG- RS1	2017
	228	Focusing on National Geoinformatics geographical needs	GEG- RS1	2017
M.Sc. Geology	224	Economic Geology	GEO-403P	2017
Mathematics/Applied Mathematics	236/238	Fluid Dynamics	AM 401	2017
	236/238	Mathematical modeling	AM101	2017
	236/238	Bio-Mechanics	MA/AM 405 B	2017
M.sc.,Microbiology	270	Fermentation technology	MB 405(A)	2017
	270	Microbial Genetics and Molecular Biology	MB-301	2017
	270	Recombinant DNA Technology & Bioinformatics	MB-302	2017
	270	Microbial Genetics and Molecular Biology & Recombinant DNA Technology & Bioinformatics	MB-303	2017
	270	Molecular Cell Biology & Technology	MB-401	2017
	270	Agricultural Biotechnology	MB-405a	2017
M.S.C. INDUSTRIAL MICROBIOLOGY	268	Industrial Biotechnology	IMB-306a	2017
Virology	272	r-DNA Technology	VR-202	2017-2022
M.Sc. Zoology	260	Animal Biotechnology and Microbiology	ZOO-405A	2017
Animal Biotechnology	269	Animal Biotechnology and Industrial Applications	ABT-OE-306A	2017
	269	Medcial Biotechnology	ABT-Core-401	2017
MBA	198	Data Base Management Systems	342	2017

<b>National Biotechnology Initiatives 2018-2019</b>				
<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Biochemistry	204	Molecular biology	Generic elective-a	2018-19
	204	Genetic engineering	Core1	2018-19
M.Sc. Botany	202	Plant Biotechnology	BOT-402	2018-2019
	202	Molecular Genetics, Genomics and Proteomics	BOT-401	2018-2019
M.Sc. Biotechnology	264	Genetic Engineering	301	2018
	264	Food and Industrial Biotechnology	304c	2018
	264	Bioprocess Engineering and Technology	304a	2018
	264	Plant Tissue Culture	305	2018
	264	Environmental Biotechnology	401	2018
	264	Plant Biotechnology	402	2018
	264	Pharmaceutical Biotechnology	404a	2018
	264	Animal Biotechnology	404b	2018
M.Sc. Environmental Sciences	266	Waste Treatment and Management	ENV-301	2018
M.Sc., Aquaculture	267	Aquaculture Biotechnology	AQC; 401	2020
M.Sc. Geology	224	Economic Geology	GEO-403P	2018
M.SC. Microbiology	270	Microbial Genetics and Molecular Biology	MB-301	2017
	270	Recombinant DNA Technology & Bioinformatics	MB-302	2017
	270	Microbial Genetics and Molecular Biology & Recombinant DNA Technology & Bioinformatics	MB-303	2017
	270	Molecular Cell Biology & Technology	MB-401	2017
	270	Agricultural Biotechnology	MB-405a	2017
M.SC. INDUSTRIAL MICROBIOLOGY	268	Industrial Biotechnology	IMB-306a	2017
Virology	272	r-DNA Technology	VR-202	2018
M.Sc. Zoology	260	Animal Biotechnology and Microbiology	ZOO-405A	2018
Animal Biotechnology	269	Animal Biotechnology and Industrial Applications	ABT-OE-306A	2018
	269	Medcial Biotechnology	ABT-Core-401	2018
Business Management				
MBA	198	Data Base Management Systems	342	2018



<b>National Biotechnology Initiatives 2019-2020</b>				
<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Biochemistry	204	Molecular biology	Generic elective-a	2019-20
	204	Genetic engineering	Core1	2019-20
M.Sc. Botany	202	Nano Biotechnology	BOT-408	2019-2020
M.Sc. Biotechnology	264	Genetic Engineering	301	2019
	264	Food and Industrial Biotechnology	304c	2019
	264	Bioprocess Engineering and Technology	304a	2019
	264	Plant Tissue Culture	305	2019
	264	Environmental Biotechnology	401	2019
	264	Plant Biotechnology	402	2019
	264	Pharmaceutical Biotechnology	404a	2019
	264	Animal Biotechnology	404b	2019
M.Sc. Environmental Sciences	266	Waste Treatment and Management	ENV-301	2019
M.Sc., Aquaculture	267	Aquaculture Biotechnology	AQC; 401	2019
M.Sc. Geology	224	Economic Geology	GEO-403P	2019
M.SC. Microbiology	270	Microbial Genetics and Molecular Biology	MB-301	2017
	270	Recombinant DNA Technology & Bioinformatics	MB-302	2017
	270	Microbial Genetics and Molecular Biology & Recombinant DNA Technology & Bioinformatics	MB-303	2017
	270	Molecular Cell Biology & Technology	MB-401	2017
	270	Agricultural Biotechnology	MB-405a	2017
M.SC. INDUSTRIAL MICROBIOLOGY	268	Industrial Biotechnology	IMB-306a	2017
Virology	272	r-DNA Technology	VR-202	2017-2022
M.Sc. Zoology	260	Animal Biotechnology and Microbiology	ZOO-405A	2019
	260	Medical Biotechnology, IPR, Biosafety and Bioethics	ZOO-406C	2019
Animal Biotechnology	269	Animal Biotechnology and Industrial Applications	ABT-GE-305B	2019
	269	Medcial Biotechnology	ABT-Core-401	2019
Business Management				
MBA	198	Data Base Management Systems	342	2019

<b>National Biotechnology Initiatives 2020-2021</b>				
<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Biochemistry	204	Molecular biology	Generic elective-a	2020-21
	204	Genetic engineering	Core1	2020-21
M.Sc. Environmental Sciences	266	Waste Treatment and Management	ENV-301	2020
M.Sc. Geology	224	Economic Geology	GEO-403P	2020
M.SC. Microbiology	270	Microbial Genetics and Molecular Biology	MB-301	2017
	270	Recombinant DNA Technology & Bioinformatics	MB-302	2017
	270	Microbial Genetics and Molecular Biology & Recombinant DNA Technology & Bioinformatics	MB-303	2017
	270	Molecular Cell Biology & Technology	MB-401	2017
	270	Agricultural Biotechnology	MB-405a	2017
M.SC. INDUSTRIAL MICROBIOLOGY	268	Industrial Biotechnology	IMB-306a	2017
Virology	272	r-DNA Technology	VR-202	2017-2022
	272	Virus based biotechnology	405B	2020-2022
	272	Industrial biotechnology	405A	2021-2022
M.Sc. Zoology	260	Animal Biotechnology and Microbiology	ZOO-405A	2020
	260	Medical Biotechnology, IPR, Biosafety and Bioethics	ZOO-406C	2020
Animal Biotechnology	269	Animal Biotechnology and Industrial Applications	ABT-GE-305B	2020
	269	Medcial Biotechnology	ABT-Core-401	2020
Business Management				
MBA	198	Data Base Management Systems	342	2020

<b>National Biotechnology Initiatives 2021-2022</b>				
<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Biochemistry	204	Molecular biology	IMT 205	2021-22
	204	Genetic engineering	IMT 401	2021-22
M.Sc. Biotechnology	264	Genetic Engineering	301	2021
	264	Food and Industrial Biotechnology	304c	2021
	264	Bioprocess Engineering and Technology	304a	2021
	264	Plant Tissue Culture	305	2021
	264	Environmental Biotechnology	401	2021
	264	Plant Biotechnology	402	2021
	264	Pharmaceutical Biotechnology	404a	2021
	264	Animal Biotechnology	404b	2021
M.Sc. Environmental Sciences	266	Waste Treatment and Management	ENV-301	2021
M.Sc., Aquaculture	267	Aquaculture Biotechnology	AQC; 401	2020
MSc, Geography	228	Geomorphology	GEG - 101	2021
	228	Climatology	GEG - 201	2021
	228	Physical Geography of India	GEG – 204(A)	2021
	228	Geographical Information System (GIS)	GEG – 302	2021
	228	Agricultural Geography	GEG – 303(A)	2021
	228	Geographical Information System (GIS)	GEG – 302	2021
PhD- Geography	228	Research Methodology	GEG- RS1	2021
	228	Focusing on National Geoinformatics geographical needs	GEG- RS1	2021
M.Sc. Geology	224	Economic Geology	GEO-403P	2021
M.SC. MICROBIOLOGY	270	Molecular Biology	MB201	2021
	270	Recombinant DNA technology	MB 202	2021
	270	Immunology	MB 203	2021
	270	Medical Microbiology	MB 204	2021
	270	Molecular Biology and Recombinant DNA Technology	MB 205	2021
	270	Immunology and Medical Microbiology	MB 206	2021
	270	Molecular Cell biology and Technology	MB 401	2021
	270	Pharmaceutical Microbiology	MB 403a	2021
	270	Molecular Cell biology and	MB 404	2021
	270	Technology and Environmental Microbiology & elective		
	270	Bioethics, Biosafety and Intellectual property rights	MB 406a	2021
	270	Microbial Production of Alcoholic beverages.	MB 406b	2021

M.SC. INDUSTRIAL MICROBIOLOGY	268	Molecular Biology	IMB201	2021
	268	Recombinant DNA technology	IMB 202	2021
	268	Immunology	IMB 203	2021
	268	Medical Microbiology	IMB 204	2021
	268	Molecular Biology and Recombinant DNA Technology	IMB 205	2021
	268	Immunology and Medical Microbiology	IMB 206	2021
	268	Basics of Industrial Microbiology	IMB 301	2021
	268	Industrial Biotechnology	IMB 306b	2021
	268	a) Industrial production of Microbial product	IMB-403a	2021
Virology	272	r-DNA Technology	VR-202	2017-2022
	272	Virus based biotechnology	405B	2020-2022
	272	Industrial biotechnology	405A	2021-2022
M.Sc. Zoology	260	Animal Biotechnology	ZOO-303A	2021
	260	Medical Biotechnology, IPR, Biosafety and Bioethics	ZOO-406B	2021
Animal Biotechnology	269	Animal Biotechnology and Industrial Applications	ABT-306A	2017
	269	Medical Biotechnology	ABT-401	2017

<b>Geographical Information System (GIS) Initiatives 2017-2018</b>				
<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
M.Sc. Botany	202	Biodiversity and Conservation	BOT-302	2017-2018
Chemistry	208	Green Chemistry	CHE AC 303	2017
	208	Energy, environment and soils	CHE EC 401	2017
	208	Water pollution monitoring and environment laws	CHE EC 402	2017
M.Sc. Environmental Sciences	266	Remote Sensing and GIS	ENV-402	2017
MSc, Geography	228	Cartography	GEG - 102	2017
	228	Economic Geography	GEG – 103 (A)	2017
	228	Human Geography	GEG – 103 (B)	2017
	228	Regional Geography of Andhra Pradesh	GEG – 104 (C)	2017
	228	Map Projections	GEG – 105	2017
	228	Techniques of Mapping and map analysis	GEG – 106	2017
	228	Climatology	GEG - 201	2017
	228	Geographical Thought	GEG - 202	2017
	228	Geography of Tourism	GEG – 203 (B)	2017
	228	Industrial Geographym	GEG – 203 (C)	2017
	228	Regional Geography of India	GEG – 204 (B)	2017
	228	Interpretation of Topographical	GEG – 204 (C)	2017
	228	(S.O.I., U.S and O.S) and Weather Maps		2017
	228	Research Techniques	GEG – 205	2017
	228	Urban Geography	GEG – 301	2017
	228	Geographical Information System (GIS)	GEG – 302	2017
	228	Agricultural Geography	GEG – 303 (A)	2017
	228	Transport geography	GEG – 303 (B)	2017
	228	Disaster Management Studies	GEG – 303 (C)	2017
	228	GPS Survey and Report	GEG – 305	2017
	228	Regional Planning	GEG – 401	2017
	228	Advanced Remote Sensing	GEG – 402	2017
	228	Water and Soil Resources Management	GEG – 403(A)	2017
	228	Political Geography	GEG – 403(B)	2017
	228	Remote Sensing Applications	GEG = 404	2017
	228	Project Work and Viva Voce	GEG – 405	2017
PhD- Geography	228	Research Methodology	GEG- RS1	2017
	228	Focusing on National level geospatial techniques application for geographical integration	GEG- RS1	2017
M.Sc. Geology	224	Remote Sensing and GIS	GEO-202	2017
Mathematics/Applied Mathematics	236/238	Graph Theory	MA/AM 403	2017
	236/238	Theoretical Computer science	MA/AM 405 A	2017
	236/238	Fluid Dynamics	MA 401	2017
	236/238	Bio-Mechanics	MA/AM 405 B	2017
	236/238	Algebra	MA/AM 101	2017
Physics	242	Advances in Physics	242	2017
	242	Wireless Communications	242	2017
MBA	198	Marketing Research and Information Systems	313	2017

<b>Geographical Information System (GIS) Initiatives 2018-2019</b>				
<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
M.Sc. Environmental Sciences	266	Remote Sensing and GIS	ENV-402	2018
M.Sc. Geology	224	Remote Sensing and GIS	GEO-202	2018
Physics	242	Advances in Physics	242	2018
	242	Wireless Communications	242	2018
MBA	198	Marketing Research and Information Systems	313	2018

<b>Geographical Information System (GIS) Initiatives 2019-2020</b>				
<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
M.Sc. Environmental Sciences	266	Remote Sensing and GIS	ENV-402	2019
M.Sc. Geology	224	Remote Sensing and GIS	GEO-202	2019
MBA	198	Marketing Research and Information Systems	313	2019

<b>Geographical Information System (GIS) Initiatives 2020-2021</b>				
<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
M.Sc. Environmental Sciences	266	Remote Sensing and GIS	ENV-402	2020
M.Sc. Geology	224	Remote Sensing and GIS	GEO-202	2020
MBA	198	Marketing Research and Information Systems	313	2020



<b>Geographical Information System (GIS) Initiatives 2021-2022</b>				
<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
M.Sc. Environmental Sciences	254	Remote Sensing and GIS	ENV-402	2021
MSc, Geography	GEG	Cartography	GEG - 102	2021
	GEG	Economic Geography	GEG – 103 (A)	2021
	GEG	Human Geography	GEG – 103 (B)	2021
	GEG	Regional Geography of Andhra Pradesh	GEG – 104 (C)	2021
	GEG	Map Projections	GEG – 105	2021
	GEG	Techniques of Mapping and map analysis	GEG – 106	2021
	GEG	Climatology	GEG - 201	2021
	GEG	Geographical Thought	GEG - 202	2021
	GEG	Geography of Tourism	GEG – 203 (B)	2021
	GEG	Industrial Geography	GEG – 203 (C)	2021
	GEG	Physical Geography of India	GEG – 204 (A)	2021
	GEG	Regional Geography of India	GEG – 204 (B)	2021
	GEG	Interpretation of Topographical (S.O.I., U.S and O.S) and Weather Maps	GEG – 204 (C)	2021
	GEG	Research Techniques	GEG – 205	2021
	GEG	Urban Geography	GEG – 301	2021
	GEG	Geographical Information System (GIS)	GEG – 302	2021
	GEG	Agricultural Geography	GEG – 303 (A)	2021
	GEG	Transport geography	GEG – 303 (B)	2021
	GEG	Disaster Management Studies	GEG – 303 (C)	2021
	GEG	GPS Survey and Report	GEG – 305	2021
	GEG	Regional Planning	GEG – 401	2021
	GEG	Advanced Remote Sensing	GEG – 402	2021
	GEG	Water and Soil Resources Management	GEG – 403(A)	2021
	GEG	Political Geography	GEG – 403(B)	2021
GEG	Remote Sensing Applications	GEG = 404	2021	
GEG	Project Work and Viva Voce	GEG – 405	2021	
PhD- Geography	GEG	Research Methodology	GEG- RS1	2021
	GEG	Focusing on National level geospatial techniques application for geographical integration	GEG- RS1	2021
M.Sc. Geology	224	Remote Sensing and GIS	GEO-202	2021
Physics	PHY 305	Advances in Physics	242	2021
	PHY 406 (a)	Wireless Communications	242	2021

**National Digital Initiatives 2017-2018**

Programme Name	Programme Code	Course Name	Course Code	Year of Introduction
Centre for Womens Studies	239	Computer Applications: MS-word, MS-Excel, MS-Power-point	SVUWS-104	2017-18
	239	Skills Development Training – C Language,DBMS, Communication & Soft Skills	SVUWS-204	2017-18
	239	Gender & Media	SVUWS-205B	2017-18
	239	C++ & E-Commerce	SVUWS-302	2017-18
	239	Accounting & Financial Management, Tally	SVUWS-403	2017-18
	239	Multimedia systems	SVUWS-404C	2017-18
	239	Technical communication and computer ethics	SVUWS-405B	2017-18
Chemistry	208	Inorganic Chemistry II	CHE 201	2017
	208	Human Values and Professional ethics II	CHE 209	2017
	208	Energy, environment and soils	CHE EC 401	2017
MSc, Geography	228	Map Projections	GEG – 105	2017
	228	Techniques of Mapping and map analysis	GEG – 106	2017
	228	Principles of Remote Sensing	GEG – 203(A)	2017
	228	Research Techniques	GEG – 205	2017
	228	Geographical Information System (GIS)	GEG – 302	2017
	228	GPS Survey and Report	GEG – 305	2017
	228	Advanced Remote Sensing	GEG – 402	2017
PhD- Geography	228	Remote Sensing Applications	GEG = 404	2017
	228	Research Methodology	GEG- RS1	2017
M.Sc. Geology	224	Focusing on National level geospatial techniques application for digital initiation	GEG- RS1	2017
Home Science		Computer Applications and Geostatistics	GEO-306	2017
M.Sc. Extension Management and Communication Technology	234	Educational Technology (ET)	203A	2017
	234	Statistics and Computer Applications	204 B	2017
Mathematics/Applied Mathematics	236/238	Number Theory	MA/AM 401	2017
	236/238	Discrete Mathematics	MA/AM 304 D	2017
	236/238	Cryptography	MA/AM 304 B	2017
	236/238	Algebraic Coding theory	MA/AM 404C	2017
	236/238	Topology	MA/AM203	2017
M.SC. MICROBIOLOGY	270	Recombinant DNA Technology & Bioinformatics	MB-302	2017
M.SC. INDUSTRIAL MICROBIOLOGY	268	Biostatistics & Bioinformatics	IMB405a	2017
Physics	242	Wireless Communications	242	2016
Animal Biotechnology	269	Bioinformatics and Biostatistics	ABT-GE-305C	2017
Business Management MBA	198	Digital Marketing	316	2017
MCA	262	Discrete Mathematical Structures	MCA	2017
	262	Introductory Programming with C++	MCA	2017
	262	Computer Organization	MCA	2017
	262	Office 365 Essentials	MCA	2017
	262	Software Lab – I Tally HTML 5,	MCA	2017
	262	PC Hardware & Office Automation Lab	MCA	2017
	262	Probability and Statistics for Computer Applications	MCA	2017
	262	Statistical Methods for Computer Applications	MCA	2017
	262	Computer Oriented Operations Research	MCA	2017
	262	Technical Communication and Computer Ethics	MCA	2017
	262	Soft Skills	MCA	2017
	262	E-Commerce	MCA	2017
	MSCS	253	Compute Organization	MSCS
253		Mathematical Foundations For Computer Science	MSCS	2017
253		Computer Oriented Operational Research	MSCS	2017
253		PC Hardware Basics	MSCS	2017
253		Statistical Methods	MSCS	2017
253		E- Commerce	MSCS	2017
253		Accounting And Financial Management	MSCS	2017
	253	Office Automation	MSCS	2017

National Digital Initiatives 2018-2019				
Programme Name	Programme Code	Course Name	Course Code	Year of Introduction
Centre for Womens Studies	239	Computer Applications: MS-word, MS-Excel, MS Power-point	SVUWS-104	2018
	239	Skills Development Training – C Language,DBMS, Communication & Soft Skills	SVUWS-204	2018
	239	Gender & Media	SVUWS-205B	2018
	239	C++ & E-Commerce	SVUWS-302	2018
	239	Accounting & Financial Management, Tally	SVUWS-403	2018
	239	Multimedia systems	SVUWS-404C	2018
	239	Technical communication and computer ethics	SVUWS-405B	2018
M.Sc. Geology	224	Computer Applications and Geostatistics	GEO-306	2018
Home Science				
M.Sc. Extension Management and Communication Technology	234	Educational Technology (ET)	203A	2018
	234	Statistics and Computer Applications	204 B	2018
M.SC. MICROBIOLOGY	270	Recombinant DNA Technology & Bioinformatics	MB-302	2017
M.SC. INDUSTRIAL MICROBIOLOGY	268	Biostatistics & Bioinformatics	IMB405a	2017
Physics	242	Embedded Systems	242	2018
	242	Wireless Communications	242	2018
Animal Biotechnology	269	Bioinformatics and Biostatistics	ABT-GE-305C	2018
Business Management MBA	198	Digital Marketing	316	2018
Computer science				
MCA	262	Discrete Mathematical Structures	MCA	2018
	262	Introductory Programming with C++	MCA	2018
	262	Computer Organization	MCA	2018
	262	Office 365 Essentials	MCA	2018
	262	Software Lab – I Tally HTML 5,	MCA	2018
	262	PC Hardware & Office Automation Lab	MCA	2018
	262	Probability and Statistics for Computer Applications	MCA	2018
	262	Statistical Methods for Computer Applications	MCA	2018
	262	Computer Oriented Operations Research	MCA	2018
	262	Technical Communication and Computer Ethics	MCA	2018
	262	Soft Skills	MCA	2018
	253	E-Commerce	MCA	2018
MSCS	253	Compute Organization	MSCS	2018
	253	Mathematical Foundations For Computer Science	MSCS	2018
	253	Computer Oriented Operational Research	MSCS	2018
	253	PC Hardware Basics	MSCS	2018
	253	Statistical Methods	MSCS	2018
	253	E- Commerce	MSCS	2018
	253	Accounting And Financial Management	MSCS	2018
	253	Office Automation	MSCS	2018

<b>National Digital Initiatives 2019-2020</b>				
<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Centre for Womens Studies	239	Computer Applications: MS-word, MS-Excel, MS-Power-point	SVUWS-104	2019
	239	Skills Development Training – C Language,DBMS, Communication & Soft Skills	SVUWS-204	2019
	239	Gender & Media	SVUWS-205B	2019
	239	C++ & E-Commerce	SVUWS-302	2019
	239	Accounting & Financial Management, Tally	SVUWS-403	2019
	239	Multimedia systems	SVUWS-404C	2019
	239	Technical communication and computer ethics	SVUWS-405B	2019
	239	Gender & Mass Communication	SVUWS-405C	2019
M.Sc. Botany	202	Computer Applications and Bioinformatics	BOT-306 IE	2019-2020
M.Sc. Geology	224	Computer Applications and Geostatistics	GEO-306	2019
Home Science				
M.Sc. Extension Management and Communication Technology	234	Educational Technology (ET)	203A	2019
M.Sc. Extension Management and Communication Technology	234	Statistics and Computer Applications	204 B	2019
M.S.C. MICROBIOLOGY	<b>270</b>	Recombinant DNA Technology & Bioinformatics	MB-302	2017
M.S.C. INDUSTRIAL MICROBIOLOGY	<b>268</b>	Biostatistics & Bioinformatics	IMB405a	2017
Animal Biotechnology	269	Bioinformatics and Biostatistics	ABT-GE-305C	2019
Business Management MBA	198	Digital Marketing	316	2019
Computer science				
MCA	262	Discrete Mathematical Structures	MCA	2019
	262	Introductory Programming with C++	MCA	2019
	262	Computer Organization	MCA	2019
	262	Office 365 Essentials	MCA	2019
	262	Software Lab – I Tally HTML 5,	MCA	2019
	262	PC Hardware & Office Automation Lab	MCA	2019
	262	Probability and Statistics for Computer Applications	MCA	2019
	262	Statistical Methods for Computer Applications	MCA	2019
	262	Computer Oriented Operations Research	MCA	2019
	262	Technical Communication and Computer Ethics	MCA	2019
	262	Soft Skills	MCA	2019
	262	E-Commerce	MCA	2019
MSCS	253	Compute Organization	MSCS	2019
	253	Mathematical Foundations For Computer Science	MSCS	2019
	253	Computer Oriented Operational Research	MSCS	2019
	253	PC Hardware Basics	MSCS	2019
	253	Statistical Methods	MSCS	2019
	253	E- Commerce	MSCS	2019
	253	Accounting And Financial Management	MSCS	2019
	253	Office Automation	MSCS	2019

National Digital Initiatives Initiatives 2020-2021				
Programme Name	Programme Code	Course Name	Course Code	Year of Introduction
Centre for Womens Studies	239	Women, Science and Technology	SVUWS-304D	2020-21
M.Sc. Geology	224	Computer Applications and Geostatistics	GEO-306	2020
Home Science				
M.Sc. Extension Management and Communication Technology	234	Educational Technology (ET)	203A	2020
	234	Statistics and Computer Applications	204 B	2020
M.SC. MICROBIOLOGY	270	Recombinant DNA Technology & Bioinformatics	MB-302	2017
M.SC. INDUSTRIAL MICROBIOLOGY	268	Biostatistics & Bioinformatics	IMB405a	2017
Animal Biotechnology	269	Bioinformatics and Biostatistics	ABT-GE-305C	2020
Business Management MBA	198	Digital Marketing	316	2020
Computer science				
MCA	262	Discrete Mathematical Structures	MCA	2020
	262	Object Oriented Programming with Java	MCA	2020
	262	Computer Organization	MCA	2020
	262	Operating System	MCA	2020
	262	Computer Oriented Operations Research	MCA	2020
	262	E – Commerce	MCA	2020
	262	Minor Project Work	MCA	2020
MSCS	253	Compute Organization	MSCS	2020
	253	Mathematical Foundations For Computer Science	MSCS	2020
	253	Computer Oriented Operational Research	MSCS	2020
	253	PC Hardware Basics	MSCS	2020
	253	Statistical Methods	MSCS	2020
	253	E- Commerce	MSCS	2020
	253	Accounting And Financial Management	MSCS	2020
	253	Office Automation	MSCS	2020

**National Digital Initiatives 2021-2022**

Programme Name	Programme Code	Course Name	Course Code	Year of Introduction
AIHC & Archaeology	114	Soft Skills in Archaeology	304	2021
Centre for Womens Studies	239	Communication, Soft Skills and Etiquette	SVUWS-106B	2021-22
	239	Media and Governance: Gender Concerns	SVUWS-205A	2021-22
	239	Financial Literacy and Management	SVUWS-205B	2021-22
	239	Research Methods and Statistics	SVUWS-302	2021-22
	239	Open Science and Technology: Gender Biases and Strat	SVUWS-303D	2021-22
	239	Computer Applications and Software Packages for Data An	SVUWS-304	2021-22
	239	Media and Communication: Gender Concerns	SVUWS-405A	2021-22
Economics	104	Computer Applications	105	2021-22
	104	Environmental Economics	106	2021-22
MSc, Geography	228	Map Projections	GEG – 105	2021
	228	Techniques of Mapping and map analysis	GEG – 106	2021
	228	Principles of Remote Sensing	GEG – 203(A)	2021
	228	Research Techniques	GEG – 205	2021
	228	Geographical Information System (GIS)	GEG – 302	2021
	228	GPS Survey and Report	GEG – 305	2021
	228	Advanced Remote Sensing	GEG – 402	2021
	228	Remote Sensing Applications	GEG = 404	2021
PhD- Geography	228	Research Methodology	GEG- RS1	2021
	228	Focusing on National level geospatial techniques application for digital initiation	GEG- RS1	2021
M.Sc. Geology	224	Computer Applications and Geostatistics	GEO-306	2021
Home Science				
M.Sc. Extension Management and Communication Technology	234	Educational Technology (ET)	203A	2021
	234	Statistics and Computer Applications	204 B	2021
M.SC. MICROBIOLOGY	270	Biophysics and Biostatistics	MB104	<b>2021</b>
	270	Biochemistry & Biophysics and Biostatistics	MB106	<b>2021</b>
	270	a) Computational biology	MB306a	<b>2021</b>
	270	b) Microbial genomics and proteomics	MB306b	<b>2021</b>
M.S.C. INDUSTRIAL MICROBIOLOGY	<b>268</b>	Biophysics and Biostatistics	IMB104	<b>2021</b>
	268	Biochemistry & Biophysics and Biostatistics	IMB106	<b>2021</b>
Physics	242	Computer architecture and networking	242	2021
	242	Embedded Systems	242	2021
	242	Wireless Communications	242	2021
Animal Biotechnology	269	Bioinformatics and Biostatistics	ABT-302	2021
Business Management MBA	198	Modelling with Excel	107	2021
	198	Management Information Systems	207	2021
Computer science				
MCA	262	Discrete Mathematical Structures	MCA	2021
	262	Object Oriented Programming with Java	MCA	2021
	262	Computer Organization	MCA	2021
	262	Operating System	MCA	2021
	262	Computer Oriented Operations Research	MCA	2021
	262	E – Commerce	MCA	2021
	262	Minor Project Work	MCA	2021
MSCS	253	Compute Organization	MSCS	2021
	253	Mathematical Foundations For Computer Science	MSCS	2021
	253	Computer Oriented Operational Research	MSCS	2021
	253	PC Hardware Basics	MSCS	2021
	253	Statistical Methods	MSCS	2021
	253	E- Commerce	MSCS	2021
	253	Accounting And Financial Management	MSCS	2021
	253	Office Automation	MSCS	2021

**Initiatives on Environment & Sustainability 2017-2018**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
SEAP Studies	123	Environment, Sustainable Development and Tourism	T 303 A	2017
Tourism		Conservation and Management in Tourism	T 303 D	2017
Centre for Womens Studies	239	Gender, environment, climate change & Livelihood	SVUWS-105a	2017-18
Economics	104	Environmental Economics	303	2016-17
Education	299	Environmental concern in Secondary Education	403	2017
History	115	HISTROY	303d	2017
Law	154	Environmental Law	BA LLB – 6.5	2016-2017
Population studies	126	Population studies	PS	1973
	127	Social Work	MSW	2005
Sanskrit	132	SANSKRIT		
M.Sc. Botany	202	Plant Ecology	BOT-201	2017-2018
M.Sc. Biotechnology	264	Food and Industrial Biotechnology	305c	2017
	264	Environmental Biotechnology	401	2017
Chemistry	208	General Chemistry II	CHE 104	2017
	208	Physical Chemistry III	CHE PC 303	2017
	208	Chromatographic Techniques	CHE AC 306	2017
	208	Energy, environment and soils	CHE EC 401	2017
	208	Water pollution monitoring and environment laws	CHE EC 402	2017
M.Sc. Environmental Sciences	266	Environmental Impact Assessment, Audit And Economics	ENV-302	2017
	266	Biodiversity Conservation and Management	ENV-305 B	2017
	266	Environmental Management and Sustainable Development	ENV-405 C	2017
	266	Forest Resources and Management	ENV-406 A	2017
MSc, Geography	228	Environmental Geography	GEG – 103(C)	2017
	228	Climatology	GEG 201	2017
	228	Urban Geography	GEG – 301	2017
	228	Geographical Information System (GIS)	GEG – 302	2017
	228	Disaster Management Studies	GEG – 303(C)	2017
	228	Regional Planning	GEG – 401	2017
	228	Advanced Remote Sensing	GEG – 402	2017
	228	Water and Soil Resources Management	GEG – 403(A)	2017
	228	Research in Geographical Studies	GEG – 403(C)	2017
	228	Remote Sensing Applications	GEG = 404	2017
PhD- Geography	228	Research Methodology	GEG- RS1	2017
	228	Focusing on National level geospatial techniques application for environment and sustainable development	GEG- RS1	2017
M.Sc. Geology	224	Environmental Geology & Natural Hazards	GEO-406	2017
Home Science				
M Sc Food Science Nutrition and Dietetics	230	Essential of Food and Community Nutrition	107	2017
	230	Advanced Human Nutrition	302	2017
M.Sc. Extension Management and Communication Technology	234	Science & Technology for Rural Women	403 B	2017
	234	Disaster management	406 B	2017
	234	Environmental Management	405-C	2017
MS Food Technology	254	Disaster Management	FT-405B	2017
Mathematics/Applied Mathematics	236/238	Human Values and Professional Ethics-I	MA/AM 106	2017
	236/238	Human Values and Professional Ethics-II	MA/AM 206	2017
	236/238		-	2017
	236/238	Basic Mathematics for social sciences	MA/AM 305 B	2017
M.SC. MICROBIOLOGY	270	Environmental Microbiology	MB-402	2017
	270	Molecular Cell Biology & Technology &	MB-403	2017
	270	Environmental Microbiology		
	270	Agricultural Biotechnology	MB-405a	2017
M.SC. INDUSTRIAL MICROBIOLOGY	268	Biosafety, Bioethics and Intellectual property	IMB-405b	2017
M.Sc. Zoology	260	Environmental Biology	ZOO-302	2017
	260	Toxicology	ZOO-402	2017
Animal Biotechnology	269	Environmental Biotechnology	ABT-GE-305B	2017

**Initiatives on Environment & Sustainability 2018-2019**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
SEAP Studies	123	Environment, Sustainable Development and Tourism	T 303 A	2018
Tourism		Conservation and Management in Tourism	T 303 D	2018
Centre for Womens Studies	239	Gender, environment, climate change & Livelihood	SVUWS-105a	2018
Economics	104	Environmental Economics	303	2018
Education	299	Environmental concern in Secondary Education	403	2018
History	115	HISTROY	303d	2018
Law	154	Environmental Law	BA LLB – 6.5	2018
Population studies	126	Population studies	PS	2018
	127	Social Work	MSW	2018
Sanskrit	132	SANSKRIT		
M.Sc. Botany	202	Plants and Human Welfare	BOT-307	2018-2019
M.Sc. Biotechnology	264	Plant Tissue Culture	305 a	2017
	264	Food and Industrial Biotechnology	304c	2017
	264	Environmental Biotechnology	401	2017
	264	Plant Biotechnology	402	2017
M.Sc. Environmental Sciences	266	Environmental Impact Assessment, Audit And Economics	ENV-302	2018
	266	Biodiversity Conservation and Management	ENV-305 B	2018
	266	Environmental Management and Sustainable Development	ENV-406 B	2018
	266	Forest Resources and Management	ENV-406 A	2018
M.Sc. Geology	224	Environmental Geology & Natural Hazards	GEO-406	2018
Home Science				
M Sc Food Science Nutrition and Dietetics	230	Essential of Food and Community Nutrition	107	2018
	230	Advanced Human Nutrition	302	2018
M.Sc. Extension Management and Communication Technology	234	Science & Technology for Rural Women	403 B	2017
	234	Disaster management	406 B	2017
	234	Environmental Management	405-C	2017
MS Food Technology	254	Disaster Management	FT-405B	2017
M.SC. MICROBIOLOGY	270	Environmental Microbiology	MB-402	2017
	270	Molecular Cell Biology & Technology &	MB-403	2017
	270	Environmental Microbiology		
	270	Agricultural Biotechnology	MB-405a	2017
M.SC. INDUSTRIAL MICROBIOLOGY	268	Biosafety, Bioethics and Intellectual property rights	IMB-405b	2017
Physics	242	Solar Energy- Thermal and Photovoltaic Properties	242	2018
M.Sc. Zoology	260	Environmental Biology	ZOO-302	2018
	260	Toxicology	ZOO-402	2018
Animal Biotechnology	269	Environmental Biotechnology	ABT-GE-305B	2017



**Initiatives on Environment & Sustainability 2019-2020**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
SEAP Studies	123	Environment, Sustainable Development and Tourism	T 303 A	2019
Tourism		Conservation and Management in Tourism	T 303 D	2019
Centre for Womens Studies	239	Gender, environment, climate change & Livelihood	SVUWS-105a	2019
Economics	104	Environmental Economics	303	2019
Education	299	Environmental concern in Secondary Education	403	2019
History	115	HISTROY	303d	2019
Law	154	Environmental Law	BA LLB – 6.5	2019
Population studies	126	Population studies	PS	2019
Social Work	127	Social Work	MSW	2019
Sanskrit	132	SANSKRIT		
M.Sc. Biotechnology	264	Plant Tissue Culture	305 a	2017
	264	Food and Industrial Biotechnology	304c	2017
	264	Environmental Biotechnology	401	2017
	264	Plant Biotechnology	402	2017
	264	Bioethics	305b	2017
M.Sc. Environmental Sciences	266	Environmental Impact Assessment, Audit And Economics	ENV-302	2019
	266	Biodiversity Conservation and Management	ENV-305 B	2019
	266	Environmental Management and Sustainable Development	ENV-406 B	2019
	266	Forest Resources and Management	ENV-406 A	2019
M.Sc. Geology	224	Environmental Geology & Natural Hazards	GEO-406	2019
Home Science				
M Sc Food Science Nutrition and Dietetics	230	Essential of Food and Community Nutrition	104A	2019
	230	Advanced Human Nutrition	302	2019
M.Sc. Extension Management and Communication Technology	234	Science & Technology for Rural Women	403 B	2019
	234	Disaster management	406 B	2019
	234	Environmental Management	405-C	2019
MS Food Technology	254	Disaster Management	FT-406B	2017
M.SC. MICROBIOLOGY	270	Environmental Microbiology	MB-402	2017
	270	Molecular Cell Biology & Technology &	MB-403	2017
	270	Environmental Microbiology		
	270	Agricultural Biotechnology	MB-405a	2017
M.SC. INDUSTRIAL MICROBIOLOGY	268	Biosafety, Bioethics and Intellectual property rights	IMB-405b	2017
M.Sc. Zoology	260	Environmental Biology	ZOO-302	2019
	260	Environmental Microbiology	ZOO-305C	2019
	260	Toxicology	ZOO-402	2019
Animal Biotechnology	269	Environmental Biotechnology	ABT-OE-306A	2019

Initiatives on Environment & Sustainability 2020-2021				
Programme Name	Programme Code	Course Name	Course Code	Year of Introduction
SEAP Studies	123	Environment, Sustainable Development and Tourism	T 303 A	2020
Tourism		Conservation and Management in Tourism	T 303 D	2020
Economics	104	Environmental Economics	303	2020
Education	299	Environmental concern in Secondary Education	403	2020
History	115	HISTROY	303d	2020
Law	154	Environmental Law	BA LLB – 6.5	2020
Population studies	126	Population studies	PS	2020
	127	Social Work	MSW	2020
M.Sc. Environmental Sciences	266	Environmental Impact Assessment, Audit And Economics	ENV-302	2020
	266	Biodiversity Conservation and Management	ENV-305 B	2020
	266	Environmental Management and Sustainable Development	ENV-406 B	2020
	266	Forest Resources and Management	ENV-406 A	2020
M.Sc. Geology	224	Environmental Geology & Natural Hazards	GEO-406	2020
Home Science				
M.Sc Food Science Nutrition and Dietetics	230	Essential of Food and Community Nutrition	104A	2020
	230	Advanced Human Nutrition	302	2020
M.Sc. Extension Management and Communication Technology	234	Science & Technology for Rural Women	403 B	2020
	234	Disaster management	406 B	2020
	234	Environmental Management	405-C	2020
MS Food Technology	254	Disaster Management	FT-406B	2017
M.S.C. MICROBIOLOGY	270	Environmental Microbiology	MB-402	2017
	270	Molecular Cell Biology & Technology &	MB-403	2017
	270	Environmental Microbiology		
	270	Agricultural Biotechnology	MB-405a	2017
M.S.C. INDUSTRIAL MICROBIOLOGY	268	Biosafety, Bioethics and Intellectual property rights	IMB-405b	2017
Virology	272	Veterinary & Agricultural Virus	VR-306	2020-2022
M.Sc. Zoology	260	Environmental Biology	ZOO-302	2019
	260	Environmental Microbiology	ZOO-305C	2019
	260	Toxicology	ZOO-402	2019
Animal Biotechnology	269	Environmental Biotechnology	ABT-OE-306A	2019

**Initiatives on Environment & Sustainability 2021-2022**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
AIHC & Archaeology	114	Conservation of Cultural Property	403( D )	2021
Centre for Womens Studies	239	Environment: Gender and Livelihood challenges	SVUWS-105a	2021-22
Biochemistry	204	Environmental biochemistry	IMT 106 b	2021-22
	204	Principles of ecology and evolution	IMT 302	2021-22
Biotechnology	264	Plant Tissue Culture	305 a	2021
	264	Food and Industrial Biotechnology	304c	2021
	264	Environmental Biotechnology	401	2021
	264	Plant Biotechnology	402	2021
M.Sc. Environmental Sciences	266	Biodiversity Conservation and Management	ENV-106	2021
	266	Environmental Impact Assessment, Audit And Economics	ENV-302	2021
	266	Environmental Safety	ENV-405 B	2021
	266	Environmental Management and Sustainable Development	ENV-405 C	2021
	266	Forest Resources and Management	ENV-406 A	2021
MSc, Geography	228	Environmental Geography	GEG – 103(C)	2021
	228	Climatology	GEG 201	2021
	228	Physical Geography of India	GEG – 204(A)	2021
	228	Urban Geography	GEG – 301	2021
	228	Geographical Information System (GIS)	GEG – 302	2021
	228	Disaster Management Studies	GEG – 303(C)	2021
	228	Regional Planning	GEG – 401	2021
	228	Advanced Remote Sensing	GEG – 402	2021
	228	Water and Soil Resources Management	GEG – 403(A)	2021
	228	Research in Geographical Studies	GEG – 403(C)	2021
PhD- Geography	228	Remote Sensing Applications	GEG = 404	2021
	228	Research Methodology	GEG- RS1	2021
PhD- Geography	228	Focusing on National level geospatial techniques application for environment and sustainable development	GEG- RS1	2021
	228			
M.Sc. Geology	224	Environmental Geology & Natural Hazards	GEO-406	2021
Home Science				
M Sc Food Science Nutrition and Dietetics	230	Essential of Food and Community Nutrition	104A	2021
	230	Advanced Human Nutrition	302	2021
M.Sc. Extension Management and Communication Technology	234	Science & Technology for Rural Women	403 B	2021
	234	Disaster management	406 B	2021
MS Food Technology	254	Disaster Management	FT-406B	2017
M.SC. MICROBIOLOGY	270	Agricultural Microbiology	MB302	2021
	270	Food and Diary Microbiology	MB305	2021
M.SC. INDUSTRIAL MICROBIOLOGY	268	Biosafety, Bioethics and Intellectual property rights	IMB-405b	2021
	268	Animal and plant cell culture and Industrial based Microbial clean technology	IMB-404	2021
Physics	242	Solar Energy- Thermal and Photovoltaic Properties	242	2021
Virology	272	Environmental Sciences	VR-405b	2021-2022
		Veterinary & Agricultural Virus	VR-306	2020-2022
M.Sc. Zoology	260	Environmental Biology	ZOO-302	2021
	260	Toxicology	ZOO-401	2021
	260	Biodiversity and Conservation	ZOO-403A	2021
	260	Environmental Microbiology	ZOO-406A	2021
Animal Biotechnology	269	Environmental Biology	ABT-103B	2021

**Initiatives on Water Resources 2017-2018**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Area Studies (SEAPS)	118	Developing Blue Economy	403 C	2017
Centre for Womens Studies	239	Gender, environment, climate change & Livelihood	SVUWS-105a	2017-18
M.Sc. Botany	202	Plant Ecology	BOT-201	2017-2018
Chemistry	210	Inorganic Chemistry I	CHE 101	2017
	216	Physical Chemistry I	CHE 103	2017
	208	General Chemistry II	CHE 204	2017
	208	Quality control and general principles	CHE AC 401	2017
	208	Water pollution monitoring and environment laws	CHE EC 402	2017
	208	Thermodynamics, polymers and solid state chemistry	CHE PC 402	2017
M.Sc. Environmental Sciences	266	Waste Treatment and Management	ENV-301	2017
	266	Watershed and Water Resources Management	ENV-401	2017
MSc, Geography	228	Water and Soil Resources Management	GEG – 403(A)	2017
	228	Disaster Management Studies	GEG – 303(C)	2017
	228	Regional Planning	GEG – 401	2017
	228	Geomorphology	GEG - 101	2017
	228	Agricultural Geography	GEG – 303(A)	2017
	228	Advanced Remote Sensing	GEG – 402	2017
	228	Research in Geographical Studies	GEG – 403(C)	2017
	228	Remote Sensing Applications	GEG = 404	2017
	228	Geographical Information System (GIS	GEG – 302	2017
	228	Research Methodology	GEG- RS1	2017
PhD- Geography	228	Focusing on National level geospatial techniques application for geographical for wter resource studies	GEG- RS1	2017
M.Sc. Geology	228	Hydrogeology	GEO-405	2017
Home Science				
M.Sc. Extension Management and Communication Technology	234	Science & Technology for Rural Women	403 B	2017
Applied Mathematics	238	Fluid dynamics	AM 401	2017
Mathematics/Applied Mathematics	236/238	Bio-Mechanics	MA/AM 405 B	2017
Mathematics/Applied Mathematics	236/238	Classical Mechanics	MA/AMA 303	2017
Applied Mathematics	236	Continuum Mechanics	AM 301	2017
M.Sc., Microbiology	270	Environmental Microbiology	MB-402	2017
M.Sc. Zoology	260	Environmental Biology	ZOO-302	2017
Animal Biotechnology	269	Environmental Biotechnology	ABT-GE-305B	2017

**Initiatives on Water Resources 2018-2019**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Area Studies (SEAPS)	118	Developing Blue Economy	403 C	2018
Centre for Womens Studies	239	Gender, environment, climate change & Livelihood	SVUWS-105a	2018
M.Sc. Environmental Sciences	266	Waste Treatment and Management	ENV-301	2018
	266	Watershed and Water Resources Management	ENV-401	2018
M.Sc., Aquaculture	267	Fish Nutrition and Water Quality Management	AQC 103 A	2018
M.Sc. Geology	224	Hydrogeology	GEO-405	2018
Home Science				
M.Sc. Extension Management and Communication Technology	234	Science & Technology for Rural Women	403 B	2017
M.Sc., Microbiology	270	Environmental Microbiology	MB-402	2017
M.Sc. Zoology	260	Environmental Biology	ZOO-302	2018
Animal Biotechnology	269	Environmental Biotechnology	ABT-GE-305B	2017

**Initiatives on Water Resources 2019-2020**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Area Studies (SEAPS)	118	Developing Blue Economy	403 C	2019
Centre for Womens Studies	239	Gender, environment, climate change & Livelihood	SVUWS-105a	2019
M.Sc. Environmental Sciences	266	Waste Treatment and Management	ENV-301	2019
	266	Watershed and Water Resources Management	ENV-401	2019
M.Sc., Aquaculture	267	Fish Nutrition and Water Quality Management	AQC 103 A	2018
M.Sc. Geology	224	Hydrogeology	GEO-405	2019
Home Science				
M.Sc. Extension Management and Communication Technology	234	Science & Technology for Rural Women	403 B	2019
M.Sc., Microbiology	270	Environmental Microbiology	MB-402	2017
M.Sc. Zoology	260	Environmental Biology	ZOO-302	2019
Animal Biotechnology	269	Environmental Biotechnology	ABT-OE-306A	2019

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<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Area Studies (SEAPS)	118	Developing Blue Economy	403 C	2020
Centre for Womens Studies	239	Gender, environment, climate change & Livelihood	SVUWS-105a	2020
M.Sc. Environmental Sciences	266	Waste Treatment and Management	ENV-301	2020
M.Sc. Environmental Sciences	266	Watershed and Water Resources Management	ENV-401	2020
M.Sc. Geology	224	Hydrogeology	GEO-405	2020
Home Science				
M.Sc. Extension Management and Communication Technology	234	Science & Technology for Rural Women	403 B	2020
M.Sc., Microbiology	270	Environmental Microbiology	MB-402	2017
M.Sc. Zoology	260	Environmental Biology	ZOO-302	2019
Animal Biotechnology	269	Environmental Biotechnology	ABT-OE-306A	2019

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<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Area Studies (SEAPS)	118	Developing Blue Economy	403 C	2021
Centre for Womens Studies	239	Environment: Gender and Livelihood challenges	SVUWS-105a	2021-22
Anthropology	136			
M.Sc. Environmental Sciences	266	Waste Treatment and Management	ENV-301	2021
	266	Watershed and Water Resources Management	ENV-401	2021
M.Sc., Aquaculture	267	Fish Nutrition and Water Quality Management	AQC 103 A	2018
MSc, Geography	228	Water and Soil Resources Management	GEG – 403(A)	2021
	228	Disaster Management Studies	GEG – 303(C)	2021
	228	Regional Planning	GEG – 401	2021
	228	Geomorphology	GEG - 101	2021
	228	Agricultural Geography	GEG – 303(A)	2021
	228	Advanced Remote Sensing	GEG – 402	2021
	228	Research in Geographical Studies	GEG – 403(C)	2021
	228	Remote Sensing Applications	GEG = 404	2021
	228	Geographical Information System (GIS)	GEG – 302	2021
PhD- Geography	228	Research Methodology	GEG- RS1	2021
	228	Focusing on National level geospatial techniques application for geographical for wter resource studies	GEG- RS1	2021
M.Sc. Geology	224	Hydrogeology	GEO-405	2021
Home Science				
M.Sc. Extension Management and Communication Technology	234	Science & Technology for Rural Women	403 B	2021
M.SC. MICROBIOLOGY	270	Environmental Microbiology	MB402	2021
	270	Industrial based microbial clean Technology	MB403b	2021
	270	Bioethics, Biosafety and Intellectual property rights	MB 406a	2021
M.SC. INDUSTRIAL MICROBIOLOGY	268	Industrial based Microbial clean technology	IMB-402	2021
	268	Animal and plant cell culture and Industrial based Microbial clean technology	IMB-404	2021
M.Sc. Zoology	260	Environmental Biology	ZOO-302	2021
Animal Biotechnology	269	Environmental Biotechnology	ABT-104A	2017



**Initiatives on Agricultural Sustainability 2017-2018**

Programme Name	Programme Code	Course Name	Course Code	Year of Introduction
Centre for Womens Studies	239	Women's participation in Agriculture & Allied sectors	SVUWS304d	2017-18
Economics	104	Agricultural Economics	304(b)	2016-17
Population studies	126	Population studies	PS	1973
Social Work	127	Social Work	MSW	2005
Biochemistry MSc	205	Applied and molecular immunology	Generic elective-b	2017-18
M.Sc. Botany	202	Horticulture and Agriculture Biology	BOT-404 IE	2017-2018
M.Sc. Biotechnology	264	Food and Industrial Biotechnology	305c	2017
	264	Environmental Biotechnology	401	2017
	264	Plant Biotechnology	402	2017
Chemistry	210	Inorganic Chemistry I	CHE 101	2017
	210	Inorganic spectroscopy and thermal methods of analysis	CHE AC 301	2017
	206	Quality control and general principles	CHE AC 401	2017
	206	Water pollution monitoring and environment laws	CHE EC 402	2017
	218	Organic Chemistry II	CHE 202	2017
	218	Organic Spectroscopy	CHE OC 302	2017
	206	Chemotherapy and drug analysis	CHE AC 305	2017
	206	Chromatographic Techniques	CHE AC 306	2017
	206	Bioinorganic, bioorganic biophysical chemistry	CHE AC 403b	2017
	218	Organic Synthesis II	CHE OC 402	2017
	206	Drug Chemistry	CHE OC 406a	2017
	206	Energy, environment and soils	CHE EC 401	2017
	206	Chemical Kinetics	CHE PC 403a	2017
	M.Sc. Environmental Sciences	266	Environmental Chemistry	ENV-102
266		Environmental Toxicology and Public Health	ENV-105	2017
266		Environmental Pollution	ENV-202	2017
MSc, Geography	228	Agricultural Geography	GEG – 303(A)	2017
	228	Water and Soil Resources Management	GEG – 403(A)	2017
	228	Regional Planning	GEG – 401	2017
	228	Advanced Remote Sensing	GEG – 402	2017
	228	Research in Geographical Studies	GEG – 403(C)	2017
	228	Remote Sensing Applications	GEG = 404	2017
PhD- Geography	228	Research Methodology	GEG- RS1	2017
	228	Focusing on National level geospatial techniques application for Agricultural studies	GEG- RS1	2017
Home Science				
M.Sc. Extension Management and Communication Technology	234	Technology transfer and Management	203 B	2017
	234	Science & Technology for Rural Women	403 B	2017
MS Food Technology	254	Cereals, Legumes and Oil seed Technology	FT 103	2017
	254	Technology of Horticulture produce	FT 201	2017
	254	Food Processing and Preservation Technology	FT 301	2017
	254	Spices, Condiments and Plantation Crops	FT 303-B	2017
Mathematics/Applied Mathematics	236/238	Mathematical Statistics	MA/AM 404 A	2017
	236/238	Operation Research	MA/AM 404 D	2017
M.S.C. MICROBIOLOGY	270	a) Agricultural Microbiology	MB-304	2017
	270	b) Food Microbiology		
	270	a) Agricultural Microbiology	MB-305a	2017
	270	b) Food Microbiology		
	270	Environmental Microbiology	MB-402	2017
270	Agricultural Biotechnology	MB-405a	2017	
M.S.C. INDUSTRIAL MICROBIOLOGY	268	Food Microbiology and Fermentation Technology	IMB-302	2017
	268	Food Microbiology and Fermentation Technology	IMB-304	2017
Virology	272	Plant Virology & diseases	VR - 303	2017-22
		Veterinary & Agricultural Sciences	VR- 306 (A)	2020-22
M.Sc. Zoology	260	Toxicology	ZOO-402	2017

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<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Centre for Womens Studies	239	Women's participation in Agriculture & Allied sectors	SVUWS304d	2018
Economics	104	Agricultural Economics	304(b)	2018
Population studies	126	Population studies	PS	2018
Social Work	127	Social Work	MSW	2018
M Sc	205	Applied and molecular immunology	Generic elective-b	2018-19
M.Sc. Botany	202	Molecular Plant Pathology	BOT-404B	2018-2019
	202	Organic Farming and Mushroom Cultivation	BOT-308	2018-2019
M.Sc. Biotechnology	264	Plant Tissue Culture	305	2017
	264	Cell and Tissue Culture	302	2017
	264	Food and Industrial Biotechnology	305c	2017
	264	Environmental Biotechnology	401	2017
	264	Plant Biotechnology	402	2017
M.Sc. Environmental Sciences	266	Environmental Chemistry	ENV-102	2018
	266	Environmental Toxicology and Public Health	ENV-105	2018
	266	Environmental Pollution	ENV-202	2018
Home Science				
M.Sc. Extension Management and Communication Technology	234	Technology transfer and Management	203 B	2017
	234	Science & Technology for Rural Women	403 B	2017
MS Food Technology	254	Cereals, Legumes and Oil seed Technology	FT 103	2017
	254	Technology of Horticulture produce	FT 201	2017
	254	Food Processing and Preservation Technology	FT 301	2017
	254	Spices, Condiments and Plantation Crops	FT 303-B	2017
M.SC. MICROBIOLOGY	270	a) Agricultural Microbiology	MB-304	2017
	270	b) Food Microbiology		
	270	a) Agricultural Microbiology	MB-305a	2017
	270	b) Food Microbiology		
	270	Environmental Microbiology	MB-402	2017
	270	Agricultural Biotechnology	MB-405a	2017
M.SC. INDUSTRIAL MICROBIOLOGY	268	Food Microbiology and Fermentation Technology	IMB-302	2017
	268	Food Microbiology and Fermentation Technology	IMB-304	2017
Virology	272	Plant Virology & diseases	VR - 303	2017-22
M.Sc. Zoology	260	Toxicology	ZOO-402	2018

**Initiatives on Agricultural Sustainability 2019-2020**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Centre for Womens Studies	239	Women's participation in Agriculture & Allied sectors	SVUWS304d	2019
Economics	104	Agricultural Economics	304(b)	2019
Population studies	126	Population studies	PS	2019
Social Work	127	Social Work	MSW	2019
Biochemistry	205	Applied and molecular immunology	Generic elective-b	2019-20
M.Sc. Botany	202	Plant disease and Management	BOT-409	2019-2020
	202	Hydroponics	BOT-407	2019-2020
M.Sc. Biotechnology	264	Plant Tissue Culture	305	2017
	264	Cell and Tissue Culture	302	2017
	264	Food and Industrial Biotechnology	305c	2017
	264	Environmental Biotechnology	401	2017
	264	Plant Biotechnology	402	2017
M.Sc. Environmental Sciences	266	Environmental Chemistry	ENV-102	2019
	266	Environmental Toxicology and Public Health	ENV-105	2019
	266	Environmental Pollution	ENV-202	2019
Home Science				
M.Sc. Extension Management and Communication Technology	234	Technology transfer and Management	203 B	2019
M.Sc. Extension Management and Communication Technology	234	Science & Technology for Rural Women	403 B	2019
MS Food Technology	254	Cereals, Legumes and Oil seed Technology	FT 103	2017
	254	Technology of Horticulture produce	FT 201	2017
	254	Food Processing and Preservation Technology	FT 301	2017
	254	Spices, Condiments and Plantation Crops	FT 305-B	2017
M.S.C. MICROBIOLOGY	270	a) Agricultural Microbiology	MB-304	2017
M.S.C. MICROBIOLOGY	270	b) Food Microbiology		
M.S.C. MICROBIOLOGY	270	a) Agricultural Microbiology	MB-305a	2017
M.S.C. MICROBIOLOGY	270	b) Food Microbiology		
M.S.C. MICROBIOLOGY	270	Environmental Microbiology	MB-402	2017
M.S.C. MICROBIOLOGY	270	Agricultural Biotechnology	MB-405a	2017
M.S.C. INDUSTRIAL MICROBIOLOGY	268	Food Microbiology and Fermentation Technology	IMB-302	2017
M.S.C. INDUSTRIAL MICROBIOLOGY	268	Food Microbiology and Fermentation Technology	IMB-304	2017
Virology	272	Plant Virology & diseases	VR - 303	2017-22
M.Sc. Zoology	260	Toxicology	ZOO-402	2019

**Initiatives on Agricultural Sustainability 2020-2021**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Centre for Womens Studies	239	Women's participation in Agriculture & Allied sectors	SVUWS304d	2020
Economics	104	Agricultural Economics	304(b)	2020
Population studies	126	Population studies	PS	2020
	127	Social Work	MSW	2020
Biochemistry	205	Applied and molecular immunology	Generic elective-b	2020-21
M.Sc. Environmental Sciences	266	Environmental Chemistry	ENV-102	2020
	266	Environmental Toxicology and Public Health	ENV-105	2020
	266	Environmental Pollution	ENV-202	2020
Home Science				
M.Sc. Extension Management and Communication Technology	234	Technology transfer and Management	203 B	2020
M.Sc. Extension Management and Communication Technology	234	Science & Technology for Rural Women	403 B	2020
MS Food Technology	254	Cereals, Legumes and Oil seed Technology	FT 103	2017
MS Food Technology	254	Technology of Horticulture produce	FT 201	2017
MS Food Technology	254	Food Processing and Preservation Technology	FT 301	2017
MS Food Technology	254	Spices, Condiments and Plantation Crops	FT 305-B	2017
M.SC. MICROBIOLOGY	270	a) Agricultural Microbiology	MB-304	2017
M.SC. MICROBIOLOGY	270	b) Food Microbiology		
M.SC. MICROBIOLOGY	270	a) Agricultural Microbiology	MB-305a	2017
M.SC. MICROBIOLOGY	270	b) Food Microbiology		
M.SC. MICROBIOLOGY	270	Environmental Microbiology	MB-402	2017
M.SC. MICROBIOLOGY	270	Agricultural Biotechnology	MB-405a	2017
M.SC. INDUSTRIAL MICROBIOLOGY	268	Food Microbiology and Fermentation Technology	IMB-302	2017
M.SC. INDUSTRIAL MICROBIOLOGY	268	Food Microbiology and Fermentation Technology	IMB-304	2017
Virology	272	Plant Virology & diseases	VR - 303	2017-22
	272	Veterinary & Agricultural Sciences	VR- 306 (A)	2020-22
M.Sc. Zoology	260	Toxicology	ZOO-402	2019

**Initiatives on Agricultural Sustainability 2021-2022**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
M.Sc. Biotechnology	264	Plant Tissue Culture	305	2021
	264	Cell and Tissue Culture	302	2021
	264	Food and Industrial Biotechnology	305c	2021
	264	Environmental Biotechnology	401	2021
	264	Plant Biotechnology	402	2021
M.Sc. Environmental Sciences	266	Environmental Chemistry	ENV-102	2021
	266	Environmental Toxicology and Public Health	ENV-105	2021
	266	Environmental Pollution	ENV-202	2021
MSc, Geography	228	Agricultural Geography	GEG – 303(A)	2021
	228	Water and Soil Resources Management	GEG – 403(A)	2021
	228	Regional Planning	GEG – 401	2021
	228	Advanced Remote Sensing	GEG – 402	2021
	228	Research in Geographical Studies	GEG – 403(C)	2021
	228	Remote Sensing Applications	GEG = 404	2021
	228	Research Methodology	GEG- RS1	2021
PhD- Geography	228	Focusing on National level geospatial techniques application for Agricultural studies	GEG- RS1	2021
M.Sc. Extension Management and Communication Technology	234	Technology transfer and Management	203 B	2021
	234	Science & Technology for Rural Women	403 B	2021
MS Food Technology	254	Cereals, Legumes and Oil seed Technology	FT 102	2021
	254	Fruit and Vegetable Technology	FT 201	2021
	254	Food Processing and Preservation Technology	FT 301	2017
	254	Technology of Spices, Condiments and Plantation crops	FT 303-A	2017
M.SC. INDUSTRIAL MICROBIOLOGY	268	Industrial Food Microbiology	IMB 305	2021
Virology	272	Plant Virology & diseases	VR - 303	2017-22
	272	Veterinary & Agricultural Sciences	VR- 306 (A)	2020-22
M.Sc. Zoology	260	Toxicology	ZOO-401	2021

<b>Initiatives on Health Promotions 2017-2018</b>				
<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Centre for Womens Studies	239	Health and Nutritional perspectives of women	SVUWS-102	2017-18
	239	Reproductive Health and Family Life Education	SVUWS-404D	2017-18
Econometrics				
Economics	104	Human Resource Development	304(d)	2016-17
Education	299	Yoga Education	405-B	2017
Population studies	126	Population studies	PS	1973
Biochemistry MSc	204	Molecular physiology and community nutrition	Core-2	2017-18
	204	Clinical immunology	Generic elective-a	2017-18
	204	Immunopharmacology	Generic elective-c	2017-18
	204	Immunological diseases and therapeutics	Open elective-b	2017-18
M.Sc. Biotechnology	264	Microbiology and Immunology		2017
M.Sc. Biotechnology	264	Pharmaceutical Biotechnology		2017
M.Sc. Environmental Sciences	266	Environmental Toxicology and Public Health	ENV-105	2017
MSc, Geography	228	Environmental Geography	GEG – 103(C)	2017
	228	Climatology	GEG 201	2017
	228	Disaster Management Studies	GEG – 303(C)	2017
	228	Research Methodology	GEG- RS1	2017
	228	Focusing on National level geospatial techniques application for health promotions	GEG- RS1	2017
M.Sc. Geology	224	Medical Geology	GEO-408	2017
Home Science				
M Sc Food Science Nutrition and Dietetics	230	Essential of Food andCommunity Nutrition	104A	2017
	230	Essential of Food andCommunity Nutrition	107	2017
	230	Nutrition for Health and Fitness	403	2017
M.Sc Human Development and Child Welfare	232	Family Life Education	305	2017
M.Sc. Extension Management and Communication Technology	234	Community Health Management	403	2017
MS Food Technology	254	Essentials of Food and Community Nutrition	FT 107	2017
	254	Food Microbiology and Safety	FT 202	2017
	254	Fundamentals of Food, Nutrition and Health- Open Elective	FT 304-A	2017
	254	Nutrition for Health and Fitness	FT 403	2017
Applied Mathematics	238	Mathematical Modeling	AMA 201	2017
Mathematics/Applied Mathematics	236/238	Operation Research	MA/AM 404 D	2017
	236/238	Mathematical Statistics	MA/AM 404 A	2017
	236/238	Topology	MA/AM 203	2017
M.S.C. MICROBIOLOGY	270	Biological Chemistry & Analytical Techniques	MB- 101	2017
	270	Immunology	MB-201	2017
	270	Medical Microbiology	MB 202	2017
	270	Immunology	MB 203	2017
	270	Medical Microbiology	MB 204	2017
	270	Basics of Virology	MB 205	2017
M.S.C. INDUSTRIAL MICROBIOLOGY	268	Biological Chemistry & Analytical Techniques	IMB 101	2017
	268	Immunology	IMB201	2017
	268	Medical Microbiology	IMB 202	2017
	268	Immunology	IMB 203	2017
	268	Medical Microbiology	IMB 204	2017
	268	Basics of Virology	IMB 205	2017
	268	Immuno Technology and Human Health	IMB-306b	2017
	268	Medical and Diagnostic Microbiology	IMB-406b	2017
M.Sc., Psychology (R)	246	Social Psychology	PSY-102	2017
	246	Psychopathology	PSY-103	2017
	246	Health Psychology	PSY-303c	2017
	246	Therapeutic Approaches in Counselling	PSY-401	2017
	246	Rehabilitation Psychology	PSY-403c	2017
M.Sc. Zoology	260	Genetics & Evolution	ZOO-102	2017
	260	Metabolic Regulation & Cell Function	ZOO-105	2017
	260	Cell Biology & Immunology	ZOO-201	2017
	260	Molecular Biology	ZOO-202	2017
	260	Enzymology	ZOO-305B	2017
	260	Pathobiology	ZOO-306B	2017
	260	Neurobiology	ZOO-401	2017
	260	Endocrinology	ZOO-405C	2017
	260	Structural Biology	ZOO-406B	2017
Animal Biotechnology	269	Human Health and Infectious diseases Cancer Biology	ZOO-406C ABT-GE-305A	2017

<b>Initiatives on Health Promotions 2018-2019</b>				
<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Centre for Womens Studies	239	Health and Nutritional perspectives of women	SVUWS-102	2018
	239	Reproductive Health and Family Life Education	SVUWS-404D	2018
Econometrics				
Economics	104	Human Resource Development	304(d)	2018
Education	299	M.Ed	Yoga Education - 405-B	2018
Population studies	126	Population studies	PS	2018
Biochemistry MSc	204	Molecular physiology and community nutrition	Core-2	2018-19
	204	Clinical immunology	Generic elective-a	2018-19
	204	Immunopharmacology	Generic elective-c	2018-19
	204	Immunological diseases and therapeutics	Open elective-b	2018-19
M.Sc. Biotechnology	264	Microbiology and Immunology	105	2017
	264	Enzymes and Intermediary Metabolism	201	2017
	264	Pharmaceutical Biotechnology	404a	2017
M.Sc. Environmental Sciences	266	Environmental Toxicology and Public Health	ENV-105	2018
M.Sc. Geology	224	Medical Geology	GEO-408	2018
Home Science				
M Sc Food Science Nutrition and Dietetics	230	Essential of Food andCommunity Nutrition	104A	2018
	230	Essential of Food and Community Nutrition	107	2018
	230	Nutrition for Health and Fitness	403	2018
M.Sc. Extension Management and Communication Technology	232	Community Health Management	403	2017
MS Food Technology	254	Essentials of Food and Community Nutrition	FT 107	2017
	254	Food Microbiology and Safety	FT 202	2017
	254	Fundamentals of Food, Nutrition and Health- Open Elective	FT 304-A	2017
	254	Nutrition for Health and Fitness	FT 403	2017
M.SC. MICROBIOLOGY	270	Biological Chemistry & Analytical Techniques	MB- 101	2017
	270	Immunology	MB-201	2017
	270	Medical Microbiology	MB 202	2017
	270	Immunology	MB 203	2017
	270	Medical Microbiology	MB 204	2017
	270	Basics of Virology	MB 205	2017
M.SC. INDUSTRIAL MICROBIOLOGY	268	Biological Chemistry & Analytical Techniques	IMB 101	2017
	268	Immunology	IMB201	2017
	268	Medical Microbiology	IMB 202	2017
	268	Immunology	IMB 203	2017
	268	Medical Microbiology	IMB 204	2017
	268	Basics of Virology	IMB 205	2017
	268	Immuno Technology and Human Health	IMB-306b	2017
	268	Medical and Diagnostic Microbiology	IMB-406b	2017
M.Sc. Zoology	260	Genetics & Evolution	ZOO-102	2018
	260	Metabolic Regulation & Cell Function	ZOO-105	2018
	260	Cell Biology & Immunology	ZOO-201	2018
	260	Molecular Biology	ZOO-202	2018
	260	Enzymology	ZOO-305B	2018
	260	Human Health and Infectious diseases	ZOO-306C	2018
	260	Neurobiology	ZOO-401	2018
	260	Endocrinology	ZOO-405C	2018
	260	Structural Biology	ZOO-406B	2018
260	Pathobiology	ZOO-406C	2018	
Animal Biotechnology	269	Cancer Biology	ABT-GE-305A	2018

**Initiatives on Health Promotions 2019-2020**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Centre for Womens Studies	239	Health and Nutritional perspectives of women	SVUWS-102	2019
	239	Reproductive Health and Family Life Education	SVUWS-404D	2019
Economics	104	Human Resource Development	304(d)	2019
Education	299	Yoga Education	405-B	2019
Population studies	126	Population studies	PS	2019
M.Sc. Biotechnology	204	Molecular physiology and community nutrition	Core-2	2019-20
	204	Clinical immunology	Generic elective-a	2019-20
	204	Immunopharmacology	Generic elective-c	2019-20
	204	Immunological diseases and therapeutics	Open elective-b	2019-20
Immunotechnology	264	Microbiology and Immunology	105	2017
	264	Enzymes and Intermediary Metabolism	201	2017
	264	Pharmaceutical Biotechnology	404a	2017
M.Sc. Environmental Sciences	266	Environmental Toxicology and Public Health	ENV-105	2019
M.Sc. Geology	224	Medical Geology	GEO-408	2019
Home Science				
M Sc Food Science Nutrition and Dietetics	230	Essential of Food andCommunity Nutrition	104A	2019
	230	Nutrition for Health and Fitness	403	2019
M.Sc. Extension Management and Communication Technology	234	Community Health Management	403	2019
MS Food Technology	254	Essentials of Food and Community Nutrition	FT 107	2017
	254	Food Microbiology and Safety	FT 202	2017
	254	Fundamentals of Food, Nutrition and Health- Open Elective	FT 306-A	2017
	254	Nutrition for Health and Fitness	FT 403	2017
M.S.C. MICROBIOLOGY	270	Biological Chemistry & Analytical Techniques	MB- 101	2017
	270	Immunology	MB-201	2017
	270	Medical Microbiology	MB 202	2017
	270	Immunology	MB 203	2017
	270	Medical Microbiology	MB 204	2017
	270	Basics of Virology	MB 205	2017
M.S.C. INDUSTRIAL MICROBIOLOGY	268	Biological Chemistry & Analytical Techniques	IMB 101	2017
	268	Immunology	IMB201	2017
	268	Medical Microbiology	IMB 202	2017
	268	Immunology	IMB 203	2017
	268	Medical Microbiology	IMB 204	2017
	268	Basics of Virology	IMB 205	2017
	268	Immuno Technology and Human Health	IMB-306b	2017
	268	Medical and Diagnostic Microbiology	IMB-406b	2017
M.Sc. Zoology	260	Genetics & Evolution	ZOO-102	2019
	260	Metabolic Regulation & Cell Function	ZOO-105	2019
	260	Cell Biology & Immunology	ZOO-201	2019
	260	Molecular Biology	ZOO-202	2019
	260	Enzymology	ZOO-305B	2019
	260	Environmental Microbiology	ZOO-305C	2019
	260	Structural Biology	ZOO-306B	2019
	260	Human Health and Infectious diseases	ZOO-306C	2019
	260	Neurobiology	ZOO-401	2019
Animal Biotechnology	260	Medical Biotechnology, IPR, Biosafety and Bioethics	ZOO-406C	2019
	269	Cancer Biology	ABT-GE-305A	2018



**Initiatives on Health Promotions 2020-2021**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Centre for Womens Studies	239	Family Life Education	SVUWS-404C	2020-21
Econometrics				
Economics	104	Human Resource Development	304(d)	2020
Education	299	Yoga Education	405-B	2020
Population studies	126	Population studies	PS	2020
Biochemistry MSc	204	Molecular physiology and community nutrition	Core-2	2020-21
	204	Clinical immunology	Generic elective-a	2020-21
	204	Immunopharmacology	Generic elective-c	2020-21
	204	Immunological diseases and therapeutics	Open elective-b	2020-21
M.Sc. Botany	202	Ethnobotany and Phytomedicine	BOT-405 IE	2020-2021
	202	Herbal Drugs and Cosmetics	BOT-406 EE	2020-2021
M.Sc. Environmental Sciences	266	Environmental Toxicology and Public Health	ENV-105	2020
M.Sc. Geology	224	Medical Geology	GEO-408	2020
M Sc Food Science Nutrition and Dietetics	230	Essential of Food andCommunity Nutrition	104A	2020
	230	Nutrition for Health and Fitness	403	2020
M.Sc. Extension Management and Communication Technology	234	Community Health Management	403	2020
MS Food Technology	254	Essentials of Food and Community Nutrition	FT 107	2017
	254	Food Microbiology and Safety	FT 202	2017
	254	Fundamentals of Food, Nutrition and Health-Open Elective	FT 306-A	2017
	254	Nutrition for Health and Fitness	FT 403	2017
M.S.C. MICROBIOLOGY	270	Biological Chemistry & Analytical Techniques	MB- 101	2017
	270	Immunology	MB-201	2017
	270	Medical Microbiology	MB 202	2017
	270	Immunology	MB 203	2017
	270	Medical Microbiology	MB 204	2017
	270	Basics of Virology	MB 205	2017
M.S.C. INDUSTRIAL MICROBIOLOGY	268	Biological Chemistry & Analytical Techniques	IMB 101	2017
	268	Immunology	IMB201	2017
	268	Medical Microbiology	IMB 202	2017
	268	Immunology	IMB 203	2017
	268	Medical Microbiology	IMB 204	2017
	268	Basics of Virology	IMB 205	2017
	268	Immuno Technology and Human Health	IMB-306b	2017
M.Sc. Zoology	260	Medical and Diagnostic Microbiology	IMB-406b	2017
	260	Genetics & Evolution	ZOO-102	2019
	260	Metabolic Regulation & Cell Function	ZOO-105	2019
	260	Cell Biology & Immunology	ZOO-201	2019
	260	Molecular Biology	ZOO-202	2019
	260	Enzymology	ZOO-305B	2019
	260	Environmental Microbiology	ZOO-305C	2019
	260	Structural Biology	ZOO-306B	2019
	260	Human Health and Infectious diseases	ZOO-306C	2019
	260	Neurobiology	ZOO-401	2019
260	Medical Biotechnology, IPR, Biosafety and Bioethics	ZOO-406C	2019	
Animal Biotechnology	269	Cancer Biology	ABT-GE-305A	2018

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<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
MA SEAP Studies	123	Health and Medical Tourism	T 205.a	2021
Centre for Womens Studies		Health & Nutrition: Gender Analysis	SVUWS-202	2021-22
		Women's Health: A Life Cycle Approach	SVUWS-403C	2021-22
History	115	HISTROY	405b	2021
M.Sc. Anthropology	136	Biology, health and Disease	204-4 (b)	2021
M Sc	205	Molecular physiology and community nutrition	IMT102	2021-22
	205	Clinical immunology	IMT 305	2021-22
	205	Immunopharmacology	IMT 405	2021-22
	205	Immunological diseases and therapeutics	IMT 406 Open elective-b	2021-22
M.Sc. Botany	202	Ethnobotany and Plant Drugs	BOT-404B EE	2021-2022
M.Sc. Biotechnology	264	Microbiology and Immunology	105	2021
	264	Enzymes and Intermediary Metabolism	201	2021
	264	Pharmaceutical Biotechnology	404a	2021
M.Sc. Environmental Sciences	266	Environmental Toxicology and Public Health	ENV-105	2021
MSc, Geography	228	Environmental Geography	GEG – 103(C)	2021
	228	Climatology	GEG 201	2021
	228	Disaster Management Studies	GEG – 303(C)	2021
	228	Research Methodology	GEG- RS1	2021
	228	Focusing on National level geospatial techniques application for health promotions	GEG- RS1	2021
M.Sc. Geology	224	Medical Geology	GEO-408	2017
Home Science				
M Sc Food Science Nutrition and Dietetics	230	Essential of Food andCommunity Nutrition	104A	2021
	230	Public health Nutrition	303B	2021
	230	Nutrition for Health and Fitness	403A	2021
MS Food Technology	254	Community Nutrition	FT 104-A	2021
	254	Nutrition during life span	FT 104-B	2021
	254	Food Microbiology and Safety	FT 203-A	2021
	254	Fundamentals of Food, Nutrition and Health	FT 306-A	2021
M.S.C. MICROBIOLOGY	270	Introductory Microbiology	MB 101	2021
	270	Immunology	MB 203	2021
	270	Medical Microbiology	MB 204	2021
	270	Molecular Biology and Recombinant DNA Technology	MB 205	2021
	270	Immunology and Medical Microbiology	MB 206	2021
	270	Pharmaceutical Microbiology	MB 403a	2021
M.S.C. INDUSTRIAL MICROBIOLOGY	268	Introductory Microbiology	IMB 101	2021
	268	Immunology	IMB 203	2021
	268	Medical Microbiology	IMB 204	2021
	268	Molecular Biology and Recombinant DNA Technology	IMB 205	2021
	268	Immunology and Medical Microbiology	IMB 206	2021
M.Sc., Psychology (R)	246	Social Psychology	PSY-102	2021
	246	Psychopathology	PSY-103	2021
	246	Positive Psychology	PSY-103c	2021
	246	Health Psychology	PSY-303c	2021
	246	Psychodiagnosis	PSY-203b	2021
	246	Stress Management	PSY-305	2021
	246	Therapeutic Approaches in Counselling	PSY-401	2021
	246	Rehabilitation Psychology	PSY-403c	2021
M.Sc., Counseling Psychology (SS)	246	Applications of Counseling in Special Areas	CPSY401	2021
	246	Counseling in Hospital Settings	CPSY403	2021
	246	Counseling the Family	CPSY403	2021
M.Sc. Zoology	260	Metabolic Regulation & Cell Function	ZOO-102	2021
	260	Genetics & Evolution	ZOO-103A	2021
	260	Endocrinology	ZOO-103B	2021
	260	Molecular Biology	ZOO-201	2021
	260	Cell Biology & Immunology	ZOO-202	2021
	260	Enzymology	ZOO-204A	2021
	260	Pathobiology	ZOO-204B	2021
	260	Microbiology	ZOO-303B	2021
	260	Human Health and Infectious diseases	ZOO-306B	2021
	260	Environmental Microbiology	ZOO-406A	2021
260	Medical Biotechnology, IPR, Biosafety and Bioethics	ZOO-406B	2021	
Animal Biotechnology	269	Cancer Biology	ABT-GE-305A	2021

**Initiatives on Nanovission 2017-2018**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Economics	104	Micro Economics Analysis	101 &201	2016-17
Chemistry	210	Inorganic spectroscopy and thermal methods of analysis	CHE AC 301	2017
	210	Nanomaterials and functional materials	CHE AC 403c	2017
MSc, Geography	228	Remote Sensing Applications	GEG = 404	2017
	228	Geographical Information System (GIS)	GEG – 302	2017
PhD- Geography	228	Research Methodology	GEG- RS1	2017
	228	Focusing on National level geospatial techniques applications on micro studies	GEG- RS1	2017
Mathematics/Applied Mathematics	236/238	Bio Mechanics	MA/AM 405 B	2017
Applied Mathematics	238	Fluid dynamics	AM 401	2017
M.Sc.,Microbiology-	270	Project work on Nano materials	MB-404	2017
Physics	242	Advances in Physics	242	2016

<b>Initiatives on Nanoivision 2018-2019</b>				
<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Economics	104	Micro Economics Analysis	101 &201	2018
Physics	242	Advances in Physics	242	2018
	242	Nanomaterials and devices		2018

**Initiatives on Nanovission 2019-2020**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Economics	104	Micro Economics Analysis	101 &201	2019
M.Sc. Botany	202	Nanobiotechnology	BOT-408 EE	2019-2020

<b>Initiatives on Nanovission2020-2021</b>				
<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Economics	104	Micro Economics Analysis	101 &201	2020

<b>Initiatives on Nanovission 2021-2022</b>				
<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
MSc, Geography	228	Remote Sensing Applications	GEG = 404	2021
MSc, Geography	228	Geographical Information System (GIS	GEG – 302	2021
PhD- Geography	228	Research Methodology	GEG- RS1	2021
	228	Focusing on National level geospatial techniques applications on micro studies	GEG- RS1	2021
Applied Mathematics	238	Numerical Methods	AMA 103	2021
M.SC. INDUSTRIAL MICROBIOLOGY	268	Industrial Biotechnology	IMB 306b	2021
Physics	242	Advances in Physics	242	2021
	242	Nanomaterials and devices		2021
	242	Sensors and Transducers		2021
	242	Introduction to VLSI design		2021
	242	Material Science for Industrial Applications		2021

**Initiatives on Translational Mission 2017-2018**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Economics	ECO	Economics of Growth & Development	301	2016-17
	ECO	International Finance	304(a)	2016-17
Biochemistry	204	Genetic engineering	Core-1	2017-18
	204	Immunotechniques	Open elective-b	2017-18
M.Sc. Botany	202	Plant Cell and Tissue Culture	BOT-404 IE	2017-2018
	202	Hydroponics	BOT-402	2017-2018
Chemistry	206	Human Values and Professional ethics I	CHE 109	2017
	206	Human Values and Professional ethics II	CHE 209	2017
Mathematics/Applied Mathematics	236/238	Operation Research	MA/AM 404 D	2017
Mathematics	236/238	Algebra	MA 101	2017
Mathematics/Applied Mathematics	236/238	Computer oriented Numerical Methods	MA/AM 104	2017
Virology	272	Applied Virology	404 (A)	2017 - 22



**Initiatives on Translational Mission 2018-2019**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Economics	ECO	Economics of Growth & Development	301	2018
	ECO	International Finance	304(a)	2018
Biochemistry				
M Sc	204	Genetic engineering	Core-1	2018-19
	204	Immunotechniques	Open elective-b	2018-19
Virology	272	Applied Virology	404 (A)	2017 - 22

Initiatives on Translational Mission 2019-2020				
Programme Name	Programme Code	Course Name	Course Code	Year of Introduction
Economics	ECO	Economics of Growth & Development	301	2019
	ECO	International Finance	304(a)	2019
Biochemistry				
M Sc	204	Genetic engineering	Core-1	2019-20
	204	Immunotechniques	Open elective-b	2019-20
M.Sc. Botany	202	Horticulture and Agriculture Biology	BOT-407 EE	2019-2020
Virology	272	Applied Virology	404 (A)	2017 - 22

**Initiatives on Translational Mission 2020-2021**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Economics	ECO	Economics of Growth & Development	301	2020
	ECO	International Finance	304(a)	2020
M Sc	204	Genetic engineering	Core-1	2020-21
	204	Immunotechniques	Open elective-b	2020-21
Virology	272	Molecular techniques	305 (B)	2021-23
		Applied Virology	404 (A)	2017 - 22
		Tumor biology and Viruses	305 (B)	2020-22

**Initiatives on Translational Mission 2021-2022**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Immuno-technology	205	Genetic engineering	IMT401	2021-22
	205	Immunotechniques	IMT307b	2021-22
Mathematics/Applied Mathematics	236/238	MATLAB	MA/AMA 305	2021
Virology	272	Molecular techniques	305 (B)	2021-23
		Applied Virology	404 (A)	2017 - 22
		Tumor biology and Viruses	305 (B)	2020-22

**Initiatives on Sarva Shiksha Abhiyan 2017-2018**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Chemistry	206	Human Values and Professional ethics I	CHE 109	2017
	206	Human Values and Professional ethics II	CHE 209	2017
MSc, Geography	228	Regional Geography of India	GEG – 204(B)	2017
	228	Research Methodology	GEG- RS1	2017
	228	Focusing on National level geospatial techniques applications on Population and educations structure and progress	GEG- RS1	2017
Home Science				
M.Sc Human Development and Child Welfare	232	Trends in Early Childhood Education	103	2017
	232	Quality Standards in Early Childhood education	201	2017
M.Sc. Extension Management and Communication Technology	234	Rural Development and Administration	301	2017
M.SC. MICROBIOLOGY	270	Human Values and Professional Ethics – I	MB106	2017
	270	Human Values and Professional Ethics – I	MB 206	2017
M.SC. INDUSTRIAL MICROBIOLOGY	268	Human Values and Professional Ethics – I	IMB106	2017
	268	Human Values and Professional Ethics – I	IMB 206	2017

**Initiatives on Sarva Shiksha Abhiyan 2018-2019**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Home Science				
M.Sc Human Development and Child Welfare	232	Trends in Early Childhood Education	103	2017
	232	Quality Standards in Early Childhood education	201	2017
	232	Development of Learning Materials and children's Literature	305-b	2018
M.Sc. Extension Management and Communication Technology	234	Rural Development and Administration	301	2017
M.SC. MICROBIOLOGY	270	Human Values and Professional Ethics – I	MB106	2017
	270	Human Values and Professional Ethics – I	MB 206	2017
M.SC. INDUSTRIAL MICROBIOLOGY	268	Human Values and Professional Ethics – I	IMB106	2017
	268	Human Values and Professional Ethics – I	IMB 206	2017

**Initiatives on Sarva Shiksha Abhiyan 2019-2020**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Home Science				
M.Sc Human Development and Child Welfare	232	Trends in Early Childhood Education	103	2017
	232	Quality Standards in Early Childhood education	201	2017
	232	Development of Learning Materials and children's Literature	305-b	2018
M.Sc. Extension Management and Communication Technology	234	Rural Development and Administration	301	2019
M.S.C. MICROBIOLOGY	270	Human Values and Professional Ethics – I	MB106	2017
	270	Human Values and Professional Ethics – I	MB 206	2017
M.S.C. INDUSTRIAL MICROBIOLOGY	268	Human Values and Professional Ethics – I	IMB106	2017
	268	Human Values and Professional Ethics – I	IMB 206	2017

**Initiatives on Sarva Shiksha Abhiyan 2020-2021**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Home Science				
M.Sc Human Development and Child Welfare	232	Trends in Early Childhood Education	103	2017
	232	Quality Standards in Early Childhood education	201	2017
	232	Development of Learning Materials and children's Literature	305-b	2018
M.Sc. Extension Management and Communication Technology	234	Rural Development and Administration	301	2020
M.SC. MICROBIOLOGY	270	Human Values and Professional Ethics – I	MB106	2017
	270	Human Values and Professional Ethics – I	MB 206	2017
M.SC. INDUSTRIAL MICROBIOLOGY	268	Human Values and Professional Ethics – I	IMB106	2017
	268	Human Values and Professional Ethics – I	IMB 206	2017



**Initiatives on Sarva Shiksha Abhiyan 2021-2022**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
MSc, Geography	228	Social and Cultural Geography	GEG – 204(C)	2021
	228	Regional Geography of India	GEG – 204(B)	2021
	228	Research Methodology	GEG- RS1	2021
	228	Focusing on National level geospatial techniques applications on Population and educations structure and progress	GEG- RS1	2021
Home Science				
M.Sc Human Development and Child Welfare	232	Trends in Early Childhood Education	103	2017
	232	Quality Standards in Early Childhood education	201	2017
	232	Development of Learning Materials and children's Literature	305-b	2018
M.Sc. Extension Management and Communication Technology	234	Rural Development and Administration	303 A	2021
M.SC. MICROBIOLOGY	270	Bioethics, Biosafety and Intellectual property rights	MB 406a	2021
M.SC. INDUSTRIAL MICROBIOLOGY	268	a) Industrial production of Microbial product	IMB-403a	2021

**Initiatives on Rural Development 2017-2018**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Centre for Womens Studies	239	NGO Management	SVUWS-304A	2017-18
	239	Legal and Human Rights of Women	SVUWS-404A	2017-18
	239	Human Resource Management With focus on Gender perceptions	SVUWS-404B	2017-18
Economics	104	Rural Development	401	2016-17
Education	299	M.Ed	for Rural Developm	2017
Biochemistry	204	Molecular physiology and community nutrition	Core-2	2017-18
M.Sc. Botany	202	Plant Resource and Human Welfare	BOT-304A	2017-2018
	202	Ethnobotany and Phytomedicine	BOT-405 IE	2017-2018
	202	Horticulture and Agricutre Biology	BOT-404 IE	2017-2018
M.Sc. Biotechnology	264	Environmental Biotechnology	401	2017
	264	Plant Biotechnology	402	2017
	264	Animal Biotechnology	405b	2017
Chemistry	206	Human Values and Professional ethics I	CHE 109	2017
	206	Physical Chemistry II	CHE 203	2017
	206	Energy, environment and soils	CHE EC 401	2017
M.Sc. Environmental Sciences	266	Waste Treatment and Management	ENV-301	2017
	266	Watershed and Water Resources Management	ENV-401	2017
	266	Forest Resources and Management	ENV-406 A	2017
MSc, Geography	228	Regional Geography of India	GEG – 204(B)	2017
	228	Regional Planning	GEG – 401	2017
	228	Advanced Remote Sensing	GEG – 402	2017
	228	Agricultural Geography	GEG – 303(A)	2017
	228	Remote Sensing Applications	GEG = 404	2017
	228	Geographical Information System (GIS)	GEG – 302	2017
PhD- Geography	228	Research Methodology	GEG- RS1	2017
	228	Focusing on National level geospatial techniques applications Rural development	GEG- RS1	2017
M.Sc. Geology	224	Water Shed Management	GEO-407	2017
M.Sc Human Development and Child Welfare	232	Rural Work Experience	303	2017
M.Sc. Extension Management and Communication Technology	234	Rural Development and Administration	301	2017
MS Food Technology	254	Essentials of Food and Community Nutrition	FT 104	2017
Applied Mathematics	238	Mathematical Modeling	AMA 201	2017
Mathematics/Applied Mathematics	236/238	Human Values and Professional Ethics-I	MA/AM 106	2017
M.SC. MICROBIOLOGY	270	Agricultural Microbiology	MB 305a	2017
	270	Food Microbiology	MB305b	2017
	270	Environmental Microbiology	MB402	2017
Virology	272	Animal and Human Virology and Virus Dieases	VR-403	
M.Sc. Zoology	260	Economic Zoology	ZOO-306A	2017

**Initiatives on Rural Development 2018-2019**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Centre for Womens Studies	239	NGO Management	SVUWS-304A	2018
	239	Legal and Human Rights of Women	SVUWS-404A	2018
	239	Human Resource Management With focus on Gender perceptions	SVUWS-404B	2018
Economics	104	Rural Development	401	2018
Education	299	M.Ed	for Rural Developn	2018
Biochemistry	204	Molecular physiology and community nutrition	Core-2	2018-19
M.Sc. Biotechnology	264	Environmental Biotechnology	401	2017
	264	Plant Biotechnology	402	2017
	264	Animal Biotechnology	404b	2017
M.Sc. Environmental Sciences	266	Waste Treatment and Management	ENV-301	2018
	266	Watershed and Water Resources Management	ENV-401	2018
	266	Forest Resources and Management	ENV-406 A	2018
M.Sc. Geology	224	Water Shed Management	GEO-407	2018
Home Science				
M.Sc Human Development and Child Welfare	232	Rural Work Experience	303	2017
M.Sc. Extension Management and Communication Technology	234	Rural Development and Administration	301	2017
MS Food Technology	254	Essentials of Food and Community Nutrition	FT 104	2017
M.SC. MICROBIOLOGY	270	Agricultural Microbiology	MB 305a	2017
	270	Food Microbiology	MB305b	2017
	270	Environmental Microbiology	MB402	2017

**Initiatives on Rural Development 2019-2020**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Centre for Womens Studies	239	NGO Management	SVUWS-304A	2019
	239	Legal and Human Rights of Women	SVUWS-404A	2019
	239	Human Resource Management With focus on Gender perceptions	SVUWS-404B	2019
Economics	104	Rural Development	401	2019
Education	299	M.Ed	or Rural Develop	2019
Biochemistry	204	Molecular physiology and community nutrition	Core-2	2020-21
M.Sc. Biotechnology	264	Environmental Biotechnology	401	2017
	264	Plant Biotechnology	402	2017
	264	Animal Biotechnology	404b	2017
M.Sc. Environmental Sciences	266	Waste Treatment and Management	ENV-301	2019
	266	Watershed and Water Resources Management	ENV-401	2019
	266	Forest Resources and Management	ENV-406 A	2019
M.Sc. Geology	224	Water Shed Management	GEO-407	2019
Home Science				
M Sc Food Science Nutrition and Dietetics	230	Rural Work Experience	304	2019
M.Sc Human Development and Child Welfare	232	Rural Work Experience	303	2017
M.Sc. Extension Management and Communication Technology	234	Rural Development and Administration	301	2019
MS Food Technology	254	Essentials of Food and Community Nutrition	FT 104	2017
M.S.C. MICROBIOLOGY	270	Agricultural Microbiology	MB 305a	2017
	270	Food Microbiology	MB305b	2017
	270	Environmental Microbiology	MB402	2017
M.Sc. Zoology	260	Economic Zoology	ZOO-306A	2019

**Initiatives on Rural Development 2020-2021**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Centre for Womens Studies	239	NGO Management	SVUWS-304A	2020
	239	Legal and Human Rights of Women	SVUWS-404A	2020
	239	Human Resource Management With focus on Gender perceptions	SVUWS-404B	2020
Economics	104	Rural Development	401	2020
Education	299	M.Ed	for Rural Development	2020
Biochemistry	204	Molecular physiology and community nutrition	Core-2	2019-20
M.Sc. Environmental Sciences	266	Waste Treatment and Management	ENV-301	2020
	266	Watershed and Water Resources Management	ENV-401	2020
	266	Forest Resources and Management	ENV-406 A	2020
M.Sc. Geology	224	Water Shed Management	GEO-407	2020
Home Science				
M Sc Food Science Nutrition and Dietetics	230	Rural Work Experience	304	2020
M.Sc Human Development and Child Welfare	232	Rural Work Experience	303	2017
M.Sc. Extension Management and Communication Technology	234	Rural Development and Administration	301	2020
MS Food Technology	254	Essentials of Food and Community Nutrition	FT 107	2017
M.SC. MICROBIOLOGY	270	Agricultural Microbiology	MB 305a	2017
	270	Food Microbiology	MB305b	2017
	270	Environmental Microbiology	MB402	2017

**Initiatives on Health Promotions 2021-2022**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Area Studies (SEAPS)	123	Rural and Urban Tourism	T 2.3	2021
Centre for Womens Studies	239	Human Resource Management: Gender Analysis	SVUWS-303c	2021-22
	239	NGO Management and Social development	SVUWS-203	2021-22
	239	Human Resource Management: Gender Analysis	SVUWS-303C	2021-22
	239	Entrepreneurship Development: Gender Analysis	SVUWS-401	2021-22
	239	Women and Work: Gender questions	SVUWS-405B	2021-22
Biochemistry	205	Environmental biochemistry	IMT106 b	2021-22
	205	Principles of ecology and evolution	IMT 302	2021-22
	205	Physiology and Nutrition	IMT102	2021-22
M.Sc. Biotechnology	264	Environmental Biotechnology	401	2021
	264	Plant Biotechnology	402	2021
	264	Animal Biotechnology	404b	2021
M.Sc. Environmental Sciences	266	Waste Treatment and Management	ENV-301	2021
	266	Watershed and Water Resources Management	ENV-401	2021
	266	Forest Resources and Management	ENV-406 A	2021
MSc, Geography	228	Social and Cultural Geography	GEG – 204(C)	2021
	228	Regional Geography of India	GEG – 204(B)	2021
	228	Regional Planning	GEG – 401	2021
	228	Advanced Remote Sensing	GEG – 402	2021
	228	Agricultural Geography	GEG – 303(A)	2021
	228	Remote Sensing Applications	GEG = 404	2021
	228	Geographical Information System (GIS	GEG – 302	2021
	228	Research Methodology	GEG- RS1	2021
	228	Focusing on National level geospatial techniques applications Rural development	GEG- RS1	2021
M.Sc. Geology	224	Water Shed Management	GEO-407	2021
Home Science				
M.Sc Human Development and Child Welfare	232	Rural Work Experience	303	2017
M.Sc. Extension Management and Communication Technology	234	Rural Development and Administration	303 A	2021
MS Food Technology	254	Community Nutrition	FT 104-A	2021
Mathematics/Applied Mathematics	236/238	Human Values and Professional Ethics-II	MA/AMA 206	2021
M.S.C. MICROBIOLOGY	270	Immunology and Medical Microbiology	MB 206	2021
	268	Immunology and Medical Microbiology	IMB 206	2021
M.Sc. Zoology	260	Economic Zoology	ZOO-305	2021
	260	Principles and Practices of Aquaculture	ZOO-405	2021

Regional Needs 2017-2018					
Programme Name	Programme Code	Course Name	Course Code	Year of Introduction	
Archeology	114	History of Andhras upto 1323 A.D.	103	2017	
	114	a) History of South India from 1323 A.D. to 1724 A.D	203(A)	2017	
	114	(A) History of Modern Andhra from 1724 A.D. to 1956 A.D.	303(A)	2017	
Womens Studies	239	Entrepreneurship Management & Development	SVUWS -103	2017-18	
	239	Women & Development	SVUWS-201	2017-18	
	239	Capacity building and leadership Training	SVUWS-205A	2017-18	
	239	Social Work initiatives for women's Development	SVUWS-205C	2017-18	
	239	Human Resource planning & Development With focus on Gender	SVUWS-303	2017-18	
	239	Gender Sensitization & Training	SVUWS-305A	2017-18	
	239	Gender Identity and Leadership	SVUWS-305B	2017-18	
Economics	239	Women and Governance	SVUWS 305C	2017-18	
	104	Tribal Economy	405(c)	2016-17	
History	104	Labour Economics	404(d)	2016-17	
	115	HISTROY	205a	2017	
Law	154	Contracts-I	BA LLB -1.4	2016-2017	
	154	Contracts-II	BA LLB -2.4	2016-2017	
	154	Law of Torts and Consumer Protection Act	BA LLB -3.3	2016-2017	
	154	Constitutional Law-I	BA LLB -3.4	2016-2017	
	154	Constitutional Law-II	BA LLB -4.3	2016-2017	
	154	Administrative Law	BA LLB -4.4	2016-2017	
	154	History of Courts, Legislation and Legal Profession in India	BA LLB -5.3	2016-2017	
	154	Law of Crimes-I (IPC)	BA LLB -5.4	2016-2017	
	154	Family Law-I	BA LLB -5.5	2016-2017	
	154	Legal Language and Legal Writing	BA LLB -6.3	2016-2017	
	154	Jurisprudence	BA LLB -6.4	2016-2017	
	154	Environmental Law	BA LLB -6.5	2016-2017	
	154	Property Law(Including Transfer of Property Act and Easement Act)	BA LLB -7.1	2016-2017	
	154	Labour Law-I	BA LLB -7.2	2016-2017	
	154	Company Law	BA LLB -7.3	2016-2017	
	154	Interpretation of Statutes	BA LLB -7.5	2016-2017	
	154	Labour Law-II	BA LLB -8.1	2016-2017	
	154	Family Law-II	BA LLB -8.2	2016-2017	
	154	Taxation Law	BA LLB -8.3	2016-2017	
	154	Intellectual Property Law	BA LLB -8.4	2016-2017	
	154	Land Law Including Tenure and Tenancy System	BA LLB -8.5	2016-2017	
	154	Civil Procedure Code and Limitation Act	BA LLB -9.1	2016-2017	
	154	Law of Crimes-II (Criminal Procedure Code)	BA LLB -9.2	2016-2017	
	154	Law of Evidence	BA LLB -9.3	2016-2017	
	154	Banking Law	BA LLB -9.4	2016-2017	
	154	Media Law with RTI	BA LLB -9.5	2016-2017	
	154	Drafting, Pleading and Conveyancing	BA LLB -10.1	2016-2017	
	154	Professional Ethics and Accounting System	BA LLB -10.2	2016-2017	
	154	Alternative Dispute Resolution	BA LLB -10.3	2016-2017	
	154	Moot Court Exercise and Internship	BA LLB -10.4	2016-2017	
	154	Penology and Victimology	BA LLB -10.5	2016-2017	
	Performing Arts	162	Compositions of Annamacharya (P)	Open Elective PA-M 405 (b):-	2017
		162	ManodharmaSangitam(P)	Generic Elective PA-M 303 (b) -	2017
162		Patriotic / Folk Songs (P)	PA-M 305 (a)	2017	
162		Post Trinity compositions (P)	PA-M 304 (D)	2017	
162		Concert (P)	PA-M-402	2017	
Population studies	126	Population studies	PS	1973	
Social Work	127	Social Work	MSW	2005	
Biochemistry	204	Biochemical preparations and analysis	Core3	2017-18	
	204	Genetic engineering	Core-1	2017-18	
M.Sc. Biotechnology	264	Microbiology and Immunology	105	2017	
	264	Molecular Biology	202	2017	
	264	Genetic Engineering	301	2017	
	264	Food and Industrial Biotechnology	305c	2017	
	264	Plant Tissue Culture	306a	2017	
	264	Cell and Tissue Culture	302	2017	
	264	Environmental Biotechnology	401	2017	
	264	Plant Biotechnology	402	2017	
	264	Animal Biotechnology	405b	2017	
264	Pharmaceutical Biotechnology	405a	2017		

Chemistry	206	Human Values and Professional ethics I	CHE 109	2017
	206	Physical Chemistry II	CHE 203	2017
	206	Chromatographic Techniques	CHE AC 306	2017
	206	Heterocycles and Natural Products	CHE OC 403	2017
	206	Energy, environment and soils	CHE EC 401	2017
	206	Water pollution monitoring and environment laws	CHE EC 402	2017
M.Sc. Environmental Sciences	266	Ecology and Environment	ENV-101	2017
	266	Natural Resources Conservation	ENV-306 A	2017
	266	Environmental Education	ENV-306 B	2017
MSc, Geography	228	Regional Geography of India	GEG – 204(B)	2017
	228	Regional Geography of Andhra Pradesh	GEG – 104 (C)	2017
	228	Regional Planning	GEG – 401	2017
	228	Advanced Remote Sensing	GEG – 402	2017
	228	Agricultural Geography	GEG – 303(A)	2017
	228	Remote Sensing Applications	GEG = 404	2017
	228	Geographical Information System (GIS)	GEG – 302	2017
	228	Research Methodology	GEG- RS1	2017
	228	Focusing on National level geospatial techniques applications on regional needs	GEG- RS1	2017
M.Sc. Geology	224	Surveying and Field Geology	GEO-309	2017
Home Science				
M Sc Food Science Nutrition and Dietetics	230	Clinical Nutrition and Dietetics I & II	103 & 203	2017
	230	Essential of Food and Community Nutrition	107	2017
	230	Food Microbiology and Safety	202	2017
	230	Food Processing and Preservation Technology	301	2017
	230	Nutrition Assessment Techniques	306b	2017
	230	Food Safety Standards and Quality Control	401	2017
	230	Food Product Development and Marketing	402	2017
	230	Nutrition for Health and Fitness	403	2017
M.Sc Human Development and Child Welfare	232	Trends in Early Childhood Education	103	2017
	232	Quality Standards in Early Childhood Years	201	2017
	232	Children with Developmental Challenges	203	2017
	232	Guidance and Counseling in Human Development	401	2017
	232	Rehabilitation and Management of Children with Developmental Challenges	403	2017
	232	Organizational Management of Child Welfare	405	2017
M.Sc. Extension Management and Communication Technology	234	Training and development	302	2017
	234	Managerial skills for Extension professionals	305 A	2017
	234	Extension Programme Planning (EPE)	402	2017
MS Food Technology	254	Cereal Grains, Legumes and Oilseed Technology	FT 103	2017
	254	Technology of Horticulture produce	FT 201	2017
	254	Dairy Technology	FT 203	2017
	254	Food Processing and Preservation Technology	FT 301	2017
	254	Live stock and Sea Food Technology	FT 302	2017
	254	Food Safety Standards and Quality Control	FT 401	2017
	254	Food Product Development and Marketing	FT 402	2017
	254			
Applied Mathematics	238	Fluid Dynamics	AMA 402	2017
	236/238	Mathematical Modeling	AMA 201	2017
Mathematics/Applied Mathematics	236/238	Ordinary Differential Equations	MA/AM 103	2017
	236/238	Partial Differential Equations	MA/AM 202	2017
	236/238	Complex analysis	MA/AM 204 B	2017
	236/238	Algebraic Coding theory	MA/AM 404 C	2017
Physics	242	Analog and Digital Electronics	242	2016
M.Sc.,Microbiology-	270	Food Microbiology	MB-303	2017
M.SC. INDUSTRIAL MICROBIOLOGY	268	Fundamentals of Industrial Microbiology	IMB-301	2017
	268	Food Microbiology and Fermentation Technology	IMB-302	2017
	268	Fundamentals of Industrial Microbiology	IMB-303	2017
	268	Food Microbiology and Fermentation Technology	IMB-304	2017
	268	Bioprocessing of Industrial Microorganisms and their Products	IMB-305a	2017
	268	Biosafety, Bioethics and Intellectual property	IMB-405b	2017
Virology	272	Clinical Virology	VR- 406 A	
M.Sc. Zoology	260	Comparative Animal Physiology	ZOO-205	2017
	260	Economic Zoology	ZOO-306A	2017
Animal Biotechnology	269	Metabolic Regulation & Cell Function (MRCF)	ABT- Core-101	2017
	269	Environmental Biotechnology	ABT-GE-305B	2017
	269	Animal Biotechnology and Industrial Applications	ABT-OE-306A	2017
	269	Medcial Biotechnology	ABT-Core-401	2017
	269	Bioinformatics and Biostatistics	ABT-GE-305C	2017
	269	Cancer Biology	ABT-OE-306B	2017



Business Management MBA	198	Business Environment	301	2017
	198	Entrepreneurship	302	2017
	198	Banking Technology Management	425	2017
	198	Global Human Resource Management	436	2017
M.Com (Regular)	358	Organizational Behaviour	102	2017
	358	Human Resource management	201	2017
	358	Financial Management	202	2017
	358	Advanced Cost accounting	204	2017
	358	Corporate Governance	205a	2017
	358	Accounting For Managerial Decisions	302	2017
	358	Tally with GST Applications	303	2017
	358	Tax Planning & Management	402	2017
	358	GST and Customs Duty	403a	2017
	358	Security Markets Operations	405a	2017
	M.Com (A&F)	357	Organizational Behaviour	102
357		Human Resource management	201	2017
357		Financial Management	202	2017
357		Advanced Cost accounting	204	2017
357		Corporate Governance	205a	2017
357		Accounting For Managerial Decisions	302	2017
357		Tally with GST Applications	303	2017
357		Tax Planning & Management	402	2017
357		GST and Customs Duty	403a	2017
357		Security Markets Operations	405a	2017
M.Com (FM)		355	Organizational Behaviour	102
	355	Human Resource management	201	2017
	355	Financial Management	202	2017
	355	Advanced Cost accounting	204	2017
	355	Corporate Governance	205a	2017
	355	Accounting For Managerial Decisions	302	2017
	355	Tally with GST Applications	303	2017
	355	Tax Planning & Management	402	2017
	355	GST and Customs Duty	403a	2017
	355	Security Markets Operations	405a	2017

Regional Needs 2018-2019					
Programme Name	Programme Code	Course Name	Course Code	Year of Introduction	
Archeology	114	History of Andhras upto 1323 A.D.	103	2018	
	114	History of South India from 1323 A.D. to 1724 A.	203(A)	2018	
	114	History of Modern Andhra from 1724 A.D. to 1956	303(A)	2018	
Womens Studies	239	Entrepreneurship Management & Development	SVUWS -103	2018	
	239	Women & Development	SVUWS-201	2018	
	239	Capacity building and leadership Training	SVUWS-205A	2018	
	239	Social Work initiatives for women's	SVUWS-205C	2018	
	239	Development			
	239	Resource planning & Development With focus on	SVUWS-303	2018	
	239	Gender Sensitization & Training	SVUWS-305A	2018	
	239	Gender Identity and Leadership	SVUWS-305B	2018	
	239	Women and Governance	SVUWS 305C	2018	
	Economics	104	Tribal Economy	405(c)	2018
104		Labour Eoconomics	404(d)	2018	
History	115	HISTROY	205a	2018	
Law	154	Contracts-I	BA LLB -1.4	2018	
	154	Contracts-II	BA LLB -2.4	2018	
	154	Law of Torts and Consumer Protection Act	BA LLB -3.3	2018	
	154	Constitutional Law-I	BA LLB -3.4	2018	
	154	Constitutional Law-II	BA LLB -4.3	2018	
	154	Administrative Law	BA LLB -4.4	2018	
	154	History of Courts, Legislation and Legal Profession in India	BA LLB -5.3	2018	
	154	Law of Crimes-I (IPC)	BA LLB -5.4	2018	
	154	Family Law-I	BA LLB -5.5	2018	
	154	Legal Language and Legal Writing	BA LLB -6.3	2018	
	154	Jurisprudence	BA LLB -6.4	2018	
	154	Environmental Law	BA LLB -6.5	2018	
	154	Property Law(Including Transfer of Property Act and Easement Act)	BA LLB -7.1	2018	
	154	Labour Law-I	BA LLB -7.2	2018	
	154	Company Law	BA LLB -7.3	2018	
	154	Interpretation of Statutes	BA LLB -7.5	2018	
	154	Labour Law-II	BA LLB -8.1	2018	
	154	Family Law-II	BA LLB -8.2	2018	
	154	Taxation Law	BA LLB -8.3	2018	
	154	Intellectual Property Law	BA LLB -8.4	2018	
	154	Land Law Including Tenure and Tenancy System	BA LLB -8.5	2018	
	154	Civil Procedure Code and Limitation Act	BA LLB -9.1	2018	
	154	Law of Crimes-II (Criminal Procedure Code)	BA LLB -9.2	2018	
	154	Law of Evidence	BA LLB -9.3	2018	
	154	Banking Law	BA LLB -9.4	2018	
	154	Media Law with RTI	BA LLB -9.5	2018	
	154	Drafting, Pleading and Conveyancing	BA LLB -10.1	2018	
	154	Professional Ethics and Accounting System	BA LLB -10.2	2018	
	154	Alternative Dispute Resolution	BA LLB -10.3	2018	
	154	Moot Court Exercise and Internship	BA LLB -10.4	2018	
	154	Penology and Victimology	BA LLB -10.5	2018	
	Performing Arts	162	Compositions of Annamacharya (P)	Open Elective PA-M 405 (b):-	2018 2018
		162	ManodharmaSangitam(P)	Generic Elective PA-M 303 (b) -	2018 2018
162		Patriotic / Folk Songs (P)	PA-M 305 (a)	2018	
162		Post Trinity compositions (P)	PA-M 304 (D)	2018	
162		Concert ( P )	PA-M-402	2018	
Population studies	126	Population studies	PS	2018	
Social Work	127	Social Work	MSW	2018	
Biochemistry	204	Biochemical preparations and analysis	Core3	2018-19	
	204	Genetic engineering	Core-1	2018-19	
	264	Microbiology and Immunology	105	2017	
	264	Molecular Biology	202	2017	
	264	Genetic Engineering	301	2017	
	264	Food and Industrial Biotechnology	305c	2017	

M.Sc. Biotechnology	264	Plant Tissue Culture	306	2017
	264	Cell and Tissue Culture	302	2017
	264	Environmental Biotechnology	401	2017
	264	Plant Biotechnology	402	2017
	264	Animal Biotechnology	404b	2017
	264	Pharmaceutical Biotechnology	404a	2017
M.Sc. Environmental Sciences	266	Ecology and Environment	ENV-101	2018
	266	Natural Resources Conservation	ENV-306 A	2018
	266	Environmental Education	ENV-305 C	2018
M.Sc. Geology	224	Surveying and Field Geology	GEO-309	2018
Home Science				
M Sc Food Science Nutrition and Dietetics	230	Clinical Nutrition and Dietetics I & II	103 & 203	2018
	230	Essential of Food and Community Nutrition	107	2018
	230	Food Microbiology and Safety	202	2018
	230	Food Processing and Preservation Technology	301	2018
	230	Nutrition Assessment Techniques	306b	2018
	230	Food Safety Standards and Quality Control	401	2018
	230	Food Product Development and Marketing	402	2018
	230	Nutrition for Health and Fitness	403	2018
M.Sc Human Development and Child Welfare	232	Advanced Study of Adolescent Development	101	2017
	232	Child Study Techniques	202	2017
	232	Guidance and Counseling in Human Development	401	2017
	232	Behaviour Problems and Disorders among Children	405-c	2018
M.Sc. Extension Management and Communication Technology	234	Training and development	302	2017
	234	Managerial skills for Extension professionals	305 A	2017
	234	Extension Programme Planning (EPE)	402	2017
MS Food Technology	254	Cereal Grains, Legumes and Oilseed Technology	FT 103	2017
	254	Technology of Horticulture produce	FT 201	2017
	254	Dairy Technology	FT 203	2017
	254	Food Processing and Preservation Technology	FT 301	2017
	254	Live stock and Sea Food Technology	FT 302	2017
	254	Food Safety Standards and Quality Control	FT 401	2017
	254	Food Product Development and Marketing	FT 402	2017
M.S.C. INDUSTRIAL MICROBIOLOGY	268	Fundamentals of Industrial Microbiology	IMB-301	2017
	268	Food Microbiology and Fermentation Technology	IMB-302	2017
	268	Fundamentals of Industrial Microbiology	IMB-303	2017
	268	Food Microbiology and Fermentation Technology	IMB-304	2017
	268	Bioprocessing of Industrial Microorganisms and their Products	IMB-305a	2017
	268	Biosafety, Bioethics and Intellectual property rights	IMB-405b	2017
Physics	242	Analog and Digital Electronics	242	2018
	242	Embedded systems	242	2018
M.Sc. Zoology	260	Comparative Animal Physiology	ZOO-205	2018
Animal Biotechnology	269	Metabolic Regulation & Cell Function (MRCF)	ABT- Core-101	2017
	269	Environmental Biotechnology	ABT-GE-305B	2017
	269	Animal Biotechnology and Industrial Applications	ABT-OE-306A	2017
	269	Medcial Biotechnology	ABT-Core-401	2017
	269	Bioinformatics and Biostatistics	ABT-GE-305C	2017
	269	Cancer Biology	ABT-GE-305A	2018
MBA	198	Business Environment	301	2018
	198	Entrepreneurship	302	2018
	198	Banking Technology Management	425	2018
	198	Global Human Resource Management	436	2018

M.Com (Regular)	358	Organizational Behaviour	102	2018
	358	Human Resource management	201	2018
	358	Financial Management	202	2018
	358	Advanced Cost accounting	204	2018
	358	Corporate Governance	205a	2018
	358	Accounting For Managerial Decisions	302	2018
	358	Tally with GST Applications	303	2018
	358	Tax Planning & Management	402	2018
	358	GST and Customs Duty	403a	2018
	358	Security Markets Operations	405a	2018
M.Com (A&F)	357	Organizational Behaviour	102	2018
	357	Human Resource management	201	2018
	357	Financial Management	202	2018
	357	Advanced Cost accounting	204	2018
	357	Corporate Governance	205a	2018
	357	Accounting For Managerial Decisions	302	2018
	357	Tally with GST Applications	303	2018
	357	Tax Planning & Management	402	2018
	357	GST and Customs Duty	403a	2018
357	Security Markets Operations	405a	2018	
M.Com (FM)	355	Organizational Behaviour	102	2018
	355	Human Resource management	201	2018
	355	Financial Management	202	2018
	355	Advanced Cost accounting	204	2018
	355	Corporate Governance	205a	2018
	355	Accounting For Managerial Decisions	302	2018
	355	Tally with GST Applications	303	2018
	355	Tax Planning & Management	402	2018
	355	GST and Customs Duty	403a	2018
355	Security Markets Operations	405a	2018	

**Regional Needs 2019-2020**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Archeology	114	History of Andhras upto 1323 A.D.	103	2019
	114	a) History of South India from 1323 A.D. to 1724 A.D.	203(A)	2019
	114	History of Modern Andhra from 1724 A.D. to 1956 A.D.	303(A)	2019
Womens Studies	239	Entrepreneurship Management & Development	SVUWS -103	2019
	239	Women & Development	SVUWS-201	2019
	239	Capacity building and leadership Training	SVUWS-205A	2019
	239	Social Work initiatives for women's	SVUWS-205C	2019
	239	Development		
	239	Resource planning & Development With focus on C	SVUWS-303	2019
	239	Gender Sensitization & Training	SVUWS-305A	2019
	239	Gender Identity and Leadership	SVUWS-305B	2019
	239	Women and Governance	SVUWS 305C	2019
Economics	104	Tribal Economy	405(c)	2019
	104	Labour Economics	404(d)	2019
History	115	HISTROY	205a	2019
Law	154	Contracts-I	BA LLB -1.4	2019
	154	Contracts-II	BA LLB -2.4	2019
	154	Law of Torts and Consumer Protection Act	BA LLB -3.3	2019
	154	Constitutional Law-I	BA LLB -3.4	2019
	154	Constitutional Law-II	BA LLB -4.3	2019
	154	Administrative Law	BA LLB -4.4	2019
	154	History of Courts, Legislation and Legal Profession in India	BA LLB -5.3	2019
	154	Law of Crimes-I (IPC)	BA LLB -5.4	2019
	154	Family Law-I	BA LLB -5.5	2019
	154	Legal Language and Legal Writing	BA LLB -6.3	2019
	154	Jurisprudence	BA LLB -6.4	2019
	154	Environmental Law	BA LLB -6.5	2019
	154	Property Law(Including Transfer of Property Act and Easement Act)	BA LLB -7.1	2019
	154	Labour Law-I	BA LLB -7.2	2019
	154	Company Law	BA LLB -7.3	2019
	154	Interpretation of Statutes	BA LLB -7.5	2019
	154	Labour Law-II	BA LLB -8.1	2019
	154	Family Law-II	BA LLB -8.2	2019
	154	Taxation Law	BA LLB -8.3	2019
	154	Intellectual Property Law	BA LLB -8.4	2019
	154	Land Law Including Tenure and Tenancy System	BA LLB -8.5	2019
	154	Civil Procedure Code and Limitation Act	BA LLB -9.1	2019
	154	Law of Crimes-II (Criminal Procedure Code)	BA LLB -9.2	2019
	154	Law of Evidence	BA LLB -9.3	2019
	154	Banking Law	BA LLB -9.4	2019
	154	Media Law with RTI	BA LLB -9.5	2019
	154	Drafting, Pleading and Conveyancing	BA LLB -10.1	2019
	154	Professional Ethics and Accounting System	BA LLB -10.2	2019
	154	Alternative Dispute Resolution	BA LLB -10.3	2019
	154	Moot Court Exercise and Internship	BA LLB -10.4	2019
	154	Penology and Victimology	BA LLB -10.5	2019

Performing Arts	162	Compositions of Annamacharya (P)	Open Elective PA-M 405 (b):-	2019
				2019
	162	ManodharmaSangitam(P)	Generic Elective PA-M 303 (b) -	2019
				2019
	162	Patriotic / Folk Songs (P)	PA-M 305 (a)	2019
				2019
	162	Post Trinity compositions (P)	PA-M 304 (D)	2019
				2019
	162	Concert (P )	PA-M-402	2019
Population studies	126	Population studies	PS	2019
	127	Social Work	MSW	2019
Biochemistry	204	Biochemical preparations and analysis	Core3	2019-20
M.Sc. Biotechnology	204	Genetic engineering	Core-1	2019-20
	264	Microbiology and Immunology	105	2017
	264	Molecular Biology	202	2017
	264	Genetic Engineering	301	2017
	264	Food and Industrial Biotechnology	305c	2017
	264	Plant Tissue Culture	306	2017
	264	Cell and Tissue Culture	302	2017
	264	Environmental Biotechnology	401	2017
	264	Plant Biotechnology	402	2017
	264	Animal Biotechnology	404b	2017
	264	Pharmaceutical Biotechnology	404a	2017
M.Sc. Environmental Sciences	266	Ecology and Environment	ENV-101	2019
	266	Natural Resources Conservation	ENV-306 A	2019
	266	Environmental Education	ENV-306 B	2019
M.Sc. Geology	224	Surveying and Field Geology	GEO-309	2019
Home Science				
M Sc Food Science Nutrition and Dietetics	230	Clinical Nutrition and Dietetics I & II	103 & 203	2019
	230	Essential of Food and Community Nutrition	107	2019
	230	Food Microbiology and Safety	202	2019
	230	Food Processing and Preservation Technology	301	2019
	230	Nutrition Assessment Techniques	306b	2019
	230	Food Safety Standards and Quality Control	401	2019
	230	Food Product Development and Marketing	402	2019
	230	Nutrition for Health and Fitness	403	2019
M.Sc Human Development and Child Welfare	232	Advanced Study of Adolescent Development	101	2017
	232	Child Study Techniques	202	2017
	232	Guidance and Counseling in Human Development	401	2017
	232	Behaviour Problems and Disorders among Children	405-c	2018
M.Sc. Extension Management and Communication Technology	234	Training and development	302	2019
	234	Managerial skills for Extension professionals	305 A	2019
	234	Extension Programme Planning (EPE)	402	2019
MS Food Technology	254	Cereal Grains, Legumes and Oilseed Technology	FT 103	2017
	254	Technology of Horticulture produce	FT 201	2017
	254	Dairy Technology	FT 203	2017
	254	Food Processing and Preservation Technology	FT 301	2017
	254	Live stock and Sea Food Technology	FT 302	2017
	254	Food Safety Standards and Quality Control	FT 401	2017
	254	Food Product Development and Marketing	FT 402	2017
M.S.C. INDUSTRIAL MICROBIOLOGY	268	Fundamentals of Industrial Microbiology	IMB-301	2017
	268	Food Microbiology and Fermentation Technology	IMB-302	2017
	268	Fundamentals of Industrial Microbiology	IMB-303	2017
	268	Food Microbiology and Fermentation Technology	IMB-304	2017
	268	Bioprocessing of Industrial Microorganisms and their Products	IMB-305a	2017
	268	Biosafety, Bioethics and Intellectual property rights	IMB-405b	2017

M.Sc. Zoology	260	Comparative Animal Physiology	ZOO-205	2019
Animal Biotechnology	269	Metabolic Regulation & Cell Function (MRCF)	ABT- Core-101	2017
	269	Environmental Biotechnology	ABT-OE-306A	2019
	269	Animal Biotechnology and Industrial Applications	ABT-GE-305B	2019
	269	Medical Biotechnology	ABT-Core-401	2017
	269	Bioinformatics and Biostatistics	ABT-GE-305C	2017
	269	Cancer Biology	ABT-GE-305A	2018
Business Management MBA	198	Business Environment	301	2019
	198	Entrepreneurship	302	2019
	198	Banking Technology Management	425	2019
	198	Global Human Resource Management	436	2019
M.Com (Regular)	358	Organizational Behaviour	102	2019
	358	Human Resource management	201	2019
	358	Financial Management	202	2019
	358	Advanced Cost accounting	204	2019
	358	Corporate Governance	205a	2019
	358	Accounting For Managerial Decisions	302	2019
	358	Tally with GST Applications	303	2019
	358	Tax Planning & Management	402	2019
	358	GST and Customs Duty	403a	2019
	358	Security Markets Operations	405a	2019
	M.Com (A&F)	357	Organizational Behaviour	102
357		Human Resource management	201	2019
357		Financial Management	202	2019
357		Advanced Cost accounting	204	2019
357		Corporate Governance	205a	2019
357		Accounting For Managerial Decisions	302	2019
357		Tally with GST Applications	303	2019
357		Tax Planning & Management	402	2019
357		GST and Customs Duty	403a	2019
357		Security Markets Operations	405a	2019
M.Com (FM)		355	Organizational Behaviour	102
	355	Human Resource management	201	2019
	355	Financial Management	202	2019
	355	Advanced Cost accounting	204	2019
	355	Corporate Governance	205a	2019
	355	Accounting For Managerial Decisions	302	2019
	355	Tally with GST Applications	303	2019
	355	Tax Planning & Management	402	2019
	355	GST and Customs Duty	403a	2019
	355	Security Markets Operations	405a	2019

Regional Needs 2020-2021					
Programme Name	Programme Code	Course Name	Course Code	Year of Introduction	
Womens Studies	239	Social Process & Behavioural Issues	SVUWS-105B	2020-21	
	239	Development – Gender Perspectives	SVUWS-201	2020-21	
Economics	104	Tribal Economy	405(c)	2020	
	104	Labour Eoconomics	404(d)	2020	
History	118	HISTROY	205a	2020	
Law	154	Contracts-I	BA LLB -1.4	2020	
	154	Contracts-II	BA LLB -2.4	2020	
	154	Law of Torts and Consumer Protection Act	BA LLB -3.3	2020	
	154	Constitutional Law-I	BA LLB -3.4	2020	
	154	Constitutional Law-II	BA LLB -4.3	2020	
	154	Administrative Law	BA LLB -4.4	2020	
	154	History of Courts, Legislation and Legal Profession in India	BA LLB -5.3	2020	
	154	Law of Crimes-I (IPC)	BA LLB -5.4	2020	
	154	Family Law-I	BA LLB -5.5	2020	
	154	Legal Language and Legal Writing	BA LLB -6.3	2020	
	154	Jurisprudence	BA LLB -6.4	2020	
	154	Environmental Law	BA LLB -6.5	2020	
	154	Property Law(Including Transfer of Property Act and Easement Act)	BA LLB -7.1	2020	
	154	Labour Law-I	BA LLB -7.2	2020	
	154	Company Law	BA LLB -7.3	2020	
	154	Interpretation of Statutes	BA LLB -7.5	2020	
	154	Labour Law-II	BA LLB -8.1	2020	
	154	Family Law-II	BA LLB -8.2	2020	
	154	Taxation Law	BA LLB -8.3	2020	
	154	Intellectual Property Law	BA LLB -8.4	2020	
	154	Land Law Including Tenure and Tenancy System	BA LLB -8.5	2020	
	154	Civil Procedure Code and Limitation Act	BA LLB -9.1	2020	
	154	Law of Crimes-II (Criminal Procedure Code)	BA LLB -9.2	2020	
	154	Law of Evidence	BA LLB -9.3	2020	
	154	Banking Law	BA LLB -9.4	2020	
	154	Media Law with RTI	BA LLB -9.5	2020	
	154	Drafting, Pleading and Conveyancing	BA LLB -10.1	2020	
	154	Professional Ethics and Accounting System	BA LLB -10.2	2020	
	154	Alternative Dispute Resolution	BA LLB -10.3	2020	
	154	Moot Court Exercise and Internship	BA LLB -10.4	2020	
	154	Penology and Victimology	BA LLB -10.5	2020	
	Performing Arts	162	Compositions of Annamacharya (P)	Open Elective PA-M 405 (b):-	2020
		162	ManodharmaSangitam(P)	Generic Elective PA-M 303 (b) -	2020
162		Patriotic / Folk Songs (P)	PA-M 305 (a)	2020	
162		Post Trinity compositions (P)	PA-M 304 (D)	2020	
162		Concert ( P )	PA-M-402	2020	
Population studies	126	Population studies	PS	2020	
Social Work	127	Social Work	MSW	2020	
Biochemistry	204	Biochemical preparations and analysis	Core3	2020-21	
	204	Genetic engineering	Core-1	2020-21	
M.Sc. Environmental Sciences	266	Ecology and Environment	ENV-101	2020	
	266	Natural Resources Conservation	ENV-306 A	2020	
	266	Environmental Education	ENV-306 B	2020	
M.Sc. Geology	224	Surveying and Field Geology	GEO-309	2020	
Home Science					
M Sc Food Science Nutrition and Dietetics	230	Clinical Nutrition and Dietetics I & II	103 & 203	2020	
	230	Essential of Food and Community Nutrition	107	2020	
	230	Food Microbiology and Safety	202	2020	
	230	Food Processing and Preservation Technology	301	2020	
	230	Nutrition Assessment Techniques	306b	2020	
	230	Food Safety Standards and Quality Control	401	2020	
	230	Food Product Development and Marketing	402	2020	
	230	Nutrition for Health and Fitness	403	2020	



M.Sc Human Development and Child Welfare	232	Advanced Study of Adolescent Development	101	2017
	232	Child Study Techniques	202	2017
	232	Guidance and Counseling in Human Development	401	2017
	232	Behaviour Problems and Disorders among Children	405-c	2018
M.Sc. Extension Management and Communication Technology	234	Training and development	302	2020
	234	Managerial skills for Extension professionals	305 A	2020
	234	Extension Programme Planning (EPE)	402	2020
MS Food Technology	254	Cereal Grains, Legumes and Oilseed Technology	FT 103	2017
	254	Technology of Horticulture produce	FT 201	2017
	254	Dairy Technology	FT 203	2017
	254	Food Processing and Preservation Technology	FT 301	2017
	254	Live stock and Sea Food Technology	FT 302	2017
	254	Food Safety Standards and Quality Control	FT 401	2017
M.S.C. INDUSTRIAL MICROBIOLOGY	268	Fundamentals of Industrial Microbiology	IMB-301	2017
	268	Food Microbiology and Fermentation Technology	IMB-302	2017
	268	Fundamentals of Industrial Microbiology	IMB-303	2017
	268	Food Microbiology and Fermentation Technology	IMB-304	2017
	268	Bioprocessing of Industrial Microorganisms and their Products	IMB-305a	2017
	268	Biosafety, Bioethics and Intellectual property rights	IMB-405b	2017
M.Sc. Zoology	260	Comparative Animal Physiology	ZOO-205	2019
Animal Biotechnology	269	Metabolic Regulation & Cell Function (MRCF)	ABT- Core-101	2017
	269	Environmental Biotechnology	ABT-OE-306A	2019
	269	Animal Biotechnology and Industrial Applications	ABT-GE-305B	2019
	269	Medcial Biotechnology	ABT-Core-401	2017
	269	Bioinformatics and Biostatistics	ABT-GE-305C	2017
	269	Cancer Biology	ABT-GE-305A	2018
MBA	198	Business Environment	301	2020
	198	Entrepreneurship	302	2020
	198	Banking Technology Management	425	2020
	198	Global Human Resource Management	436	2020
M.Com (Regular)	358	Organizational Behaviour	102	2020
	358	Human Resource management	201	2020
	358	Financial Management	202	2020
	358	Advanced Cost accounting	204	2020
	358	Corporate Governance	205a	2020
	358	Accounting For Managerial Decisions	302	2020
	358	Tally with GST Applications	303	2020
	358	Tax Planning & Management	402	2020
	358	GST and Customs Duty	403a	2020
	358	Security Markets Operations	405a	2020

M.Com (A&F)	357	Organizational Behaviour	102	2020
	357	Human Resource management	201	2020
	357	Financial Management	202	2020
	357	Advanced Cost accounting	204	2020
	357	Corporate Governance	205a	2020
	357	Accounting For Managerial Decisions	302	2020
	357	Tally with GST Applications	303	2020
	357	Tax Planning & Management	402	2020
	357	GST and Customs Duty	403a	2020
	357	Security Markets Operations	405a	2020
M.Com (FM)	355	Organizational Behaviour	102	2020
	355	Human Resource management	201	2020
	355	Financial Management	202	2020
	355	Advanced Cost accounting	204	2020
	355	Corporate Governance	205a	2020
	355	Accounting For Managerial Decisions	302	2020
	355	Tally with GST Applications	303	2020
	355	Tax Planning & Management	402	2020
	355	GST and Customs Duty	403a	2020
	355	Security Markets Operations	405a	2020

Regional Needs 2021-2022				
Programme Name	Programme Code	Course Name	Course Code	Year of Introduction
Womens Studies	239	Social Process & Behavioural Issues: Gender questions	SVUWS-105B	2021-22
	239	Gender Sensitization & Training: Needs and Strategies	SVUWS-106A	2021-22
	239	Gender Identity and Leadership: Needs and Strategies	SVUWS-205B	2021-22
History	118	HISTROY	105a	2021
Library and Information Science	168	Scholarly Communication	206	2021
Mass Communication and Journalism				
M.Sc. Anthropology	136	Anthropology of Displaced Populations	403-3 ( c )	2021
Biochemistry				
M Sc	204	Biochemical preparations and analysis	IMT 103P	2021-22
M Sc	204	Genetic engineering	IMT401	2021-22
M.Sc. Botany	202	Mushroom Cultivation	BOT-303	2021-2022
	202	Horticulture	BOT-404C	2021-2022
	202	Phytodiversity Conservation	BOT-202	2021-2022
	202	Organic Farming	BOT-304C	2021-2022
M.Sc. Biotechnology	264	Microbiology and Immunology	105	2021
	264	Molecular Biology	202	2021
	264	Genetic Engineering	301	2021
	264	Food and Industrial Biotechnology	305c	2021
	264	Plant Tissue Culture	306	2021
	264	Cell and Tissue Culture	302	2021
	264	Environmental Biotechnology	401	2021
	264	Plant Biotechnology	402	2021
	264	Animal Biotechnology	404b	2021
	264	Pharmaceutical Biotechnology	404a	2021
M.Sc. Environmental Sciences	266	Ecology and Environment	ENV-101	2021
	266	Natural Resources Conservation	ENV-306 A	2021
	266	Environmental Education	ENV-306 B	2021
MSc, Geography	228	Social and Cultural Geography	GEG – 204(C)	2021
	228	Regional Geography of India	GEG – 204(B)	2021
	228	Regional Geography of Andhra Pradesh	GEG – 104 (C)	2021
	228	Regional Planning	GEG – 401	2021
	228	Advanced Remote Sensing	GEG – 402	2021
	228	Agricultural Geography	GEG – 303(A)	2021
	228	Remote Sensing Applications	GEG = 404	2021
	228	Geographical Information System (GIS	GEG – 302	2021
PhD- Geography	228	Research Methodology	GEG- RS1	2021
	228	Focusing on National level geospatial techniques applications on regional needs	GEG- RS1	2021
M.Sc. Geology	224	Surveying and Field Geology	GEO-309	2021
M Sc Food Science Nutrition and Dietetics	230	Clinical Nutrition and Dietetics I	102	2021
	230	Community Nutrition	104A	2021
	230	Food Microbiology and Safety	203A	2021
	230	Food Processing and Preservation Technology	301	2021
	230	Nutrition Assessment Techniques	303A	2021
	230	Food Safety Standards and Quality Control	401	2021
	230	Food Product Development and Marketing	402	2021
	230	Nutrition for Health and Fitness	403A	2021
M.Sc Human Development and Child Welfare	232	Advanced Study of Adolescent Development	101	2017
	232	Child Study Techniques	202	2017
	232	Guidance and Counseling in Human Development	401	2017
	232	Behaviour Problems and Disorders among Children	405-c	2018

M.Sc. Extension Management and Communication Technology	234	Training and development	302	2021
	234	Managerial skills for Extension professionals	301	2021
	234	Participatory Programme Management (PPM)	402	2021
MS Food Technology	254	Cereal Grains, Legumes and Oilseed Technology	FT 102	2021
	254	Fruit and Vegetable Technology	FT 201	2021
	254	Dairy Technology	FT 202	2021
	254	Food Processing and Preservation Technology	FT 301	2021
	254	Live stock and Sea Food Technology	FT 302	2021
	254	Food Safety Standards and Quality Control	FT 401	2021
	254	Food Product Development and Marketing	FT 402	2021
Mathematics/Applied Mathematics	236/238	Non linear analysis	MA/AMA 203	2021
M.SC. MICROBIOLOGY	270	Introductory Microbiology	MB-101	2021
	270	Microbial Physiology	MB-102	2021
	270	Immunology	MB 203	2021
	270	Medical Microbiology	MB 204	2021
	270	Bacteriology and Virology	MB 301	2021
	270	Bacteriology and Virology and Agricultural Microbiology	MB 304	2021
	270	Pharmaceutical Microbiology	MB 403a	2021
	270	Molecular Cell biology and Technology and Environmental Microbiology & elective	MB 404	2021
	270	Bioethics, Biosafety and Intellectual property rights	MB 406a	2021
M.SC. INDUSTRIAL MICROBIOLOGY	268	Introductory Microbiology	IMB-101	2021
	268	Microbial Physiology	IMB-102	2021
	268	Immunology	IMB 203	2021
	268	Medical Microbiology	IMB 204	2021
	268	Pharmaceutical Microbiology	IMB303a	2021
	268	Industrial Food Microbiology	IMB 305	2021
	268	Industrial Biotechnology	IMB 306b	2021
Physics	242	Analog and Digital Electronics	242	2021
	242	Advanced Microprocessors and its applications	242	2021
	242	Embedded systems	242	2021
	242	Basic Spectroscopic Techniques	242	2021
	242	Advanced Characterization Techniques	242	2021
	242	Vacuum Technology & Applications	242	2021
M.Sc. Zoology	260	Economic Zoology	ZOO-305	2021
	260	Comparative Animal Physiology	ZOO-402	2021
	260	Principles and Practices of Aquaculture	ZOO-405	2021
Animal Biotechnology	269	Metabolic Regulation & Cell Function (MRCF)	ABT-101	2017
	269	Human Health and Infectious Diseases	ABT-104B	2021
	269	Environmental Biotechnology	ABT-104A	2021
MBA	198	Production Management	204	2021
Department of Commerce				
M.Com (Regular)	358	Organizational Behaviour	102	2021
	358	Human Resource management	201	2021
	358	Financial Management	202	2021
	358	Advanced Cost accounting	204	2021
	358	Corporate Governance	205a	2021
	358	Accounting For Managerial Decisions	302	2021
	358	Tally with GST Applications	303	2021
	358	Tax Planning & Management	402	2021
	358	GST and Customs Duty	403a	2021
	358	Security Markets Operations	405a	2021

M.Com (A&F)	357	Organizational Behaviour	102	2021
	357	Human Resource management	201	2021
	357	Financial Management	202	2021
	357	Advanced Cost accounting	204	2021
	357	Corporate Governance	205a	2021
	357	Accounting For Managerial Decisions	302	2021
	357	Tally with GST Applications	303	2021
	357	Tax Planning & Management	402	2021
	357	GST and Customs Duty	403a	2021
	357	Security Markets Operations	405a	2021
M.Com (FM)	355	Organizational Behaviour	102	2021
	355	Human Resource management	201	2021
	355	Financial Management	202	2021
	355	Advanced Cost accounting	204	2021
	355	Corporate Governance	205a	2021
	355	Accounting For Managerial Decisions	302	2021
	355	Tally with GST Applications	303	2021
	355	Tax Planning & Management	402	2021
	355	GST and Customs Duty	403a	2021
355	Security Markets Operations	405a	2021	

**Global Needs 2017-2018**

<b>Programme Name</b>	<b>Programme Code</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Year of Introduction</b>
Archeology	114	Ancient World Civilizations.	104	2017
	114	(A) Principles and Methods of Archaeology.	105(A)	2017
Area Studies(SEAPS)	116	India and the World	SEAP 305 A	2017
Centre for Womens Studies	SVUWS	Women & Globalization	SVUWS-405A	2017-18
Economics	104	International Trade -Theory & Policy	204	2016-17
	104	Financial Institutions & Markets	402	2016-17
Education	299	M.Ed	Human Rights Education- 306-C	2017
History	118	History	104	2017
	118	History	105b	2017
	118	History	204	2017
	118	History	303a	2017
Law	154	Jurisprudence	BA LLB -6.4	2016-2017
	154	Public International Law	BA LLB -7.4	2016-2017
Biochemistry	204	Immunology	Core-2	2017-18
	204	Basics of immunology	Open elective-a	2017-18
	204	Genetic engineering	BCH 401	2017-18
	204	Molecular biology	BCH 302	2017-18
M.Sc. Botany	202	Biodiversity and Conservation	BOT-302	2017-2018
	202	Molecular Genetics, Genomics and Proteomics	BOT-401	2017-2018
Biotechnology	264	Microbiology and Immunology	105	2017
	264	Molecular Biology	202	2017
	264	Technical writing, Biostatistics and Bioinformatics	205	2017
	264	Genetic Engineering	301	2017
	264	Food and Industrial Biotechnology	305c	2017
	264	Plant Tissue Culture	306	2017
	264	Environmental Biotechnology	401	2017
	264	Plant Biotechnology	402	2017
	264	Animal Biotechnology	405b	2017
	264	Pharmaceutical Biotechnology	405a	2017
Chemistry	206	Organic Chemistry I	CHE 102	2017
	206	Physical Chemistry I	CHE 103	2017
	206	General Chemistry I	CHE 104	2017
	206	Inorganic Chemistry II	CHE 201	2017
	206	Organic Chemistry II	CHE 202	2017
	206	Organic Spectroscopy	CHE OC 302	2017
	206	Organic Chemistry III	CHE OC 303	2017
	206	Chemotherapy and drug analysis	CHE AC 305	2017
	206	Spectral Techniques	CHE AC 306	2017
	206	Instrumental methods of analysis	CHE IC 402	2017
	206	Nanomaterials and functional materials	CHE AC 403c	2017
	206	Organic Synthesis I	CHE OC 401	2017
	206	Organic Synthesis II	CHE OC 402	2017
	206	Heterocycles and Natural Products	CHE OC 403	2017
	206	Electrochemistry	CHE PC 401	2017
	M.Sc. Environmental Sciences	266	Energy and Environment	ENV-101
266		Environmental Impact Assessment, Audit and Economics	ENV-302	2017
266		Natural Resources Conservation	ENV-306 A	2017
266		Environmental Education	ENV-306 B	2017
266		Global Environmental Issues	ENV-406 B	2017

M.Sc. Environmental Sciences	266	Practical-I	ENV-103	2017
	266	Practical-II	ENV-104	2017
	266	Instrumental Techniques and Applications	ENV-205	2017
	266	Practical-I	ENV-203	2017
	266	Practical-II	ENV-204	2017
	266	Waste Treatment and Management	ENV-301	2017
	266	Environmental Impact Assessment, Audit and Economics	ENV-302	2017
	266	Practical-I	ENV-303	2017
	266	Practical-II	ENV-304	2017
	266	Practical-I	ENV-403	2017
	266	Project Work and Comprehensive Viva-Voce	ENV-404	2017
MSc, Geography	228	Agricultural Geography	GEG – 303(A)	2017
	228	Advanced Remote Sensing	GEG – 402	2017
	228	Environmental Geography	GEG – 103(C)	2017
	228	Climatology	GEG 201	2017
	228	Disaster Management Studies	GEG – 303(C)	2017
	228	Remote Sensing Applications	GEG = 404	2017
	228	Geographical Information System (GIS)	GEG – 302	2017
	228	Research Methodology	GEG- RS1	2017
	228	Focusing on National level geospatial techniques applications on Global needs	GEG- RS1	2017
M.Sc Geology	224	Structural Geology and Geotectonics	GEO-201	2017
Home Science				
M Sc Food Science Nutrition and Dietetics	230	Clinical Nutrition and Dietetics I & II	103 & 203	2017
	230	Essential of Food and Community Nutrition	107	2017
	230	Food Microbiology and Safety	202	2017
	230	Food Processing and Preservation Technology	301	2017
	230	Nutrition Assessment Techniques	306b	2017
	230	Food Safety Standards and Quality Control	401	2017
	230	Food Product Development and Marketing	402	2017
	230	Nutrition for Health and Fitness	403	2017
M.Sc. Extension Management and Communication Technology	234	Communication Technologies in Extension	401	2017
	234	Disaster management	406 B	2017
MS Food Technology	254	Food Chemistry and Analysis	FT 101	2017
	254	Food Science and Experimental Foods	FT 102	2017
	254	Technology of Horticulture produce	FT 201	2017
	254	Food Microbiology and Safety	FT 202	2017
	254	Live stock and Sea Food Technology	FT 302	2017
	254	Food Safety Standards and Quality Control	FT 401	2017
	254	Food Product Development and Marketing	FT 402	2017
	254	Food Packaging	FT 404-C	2017
Applied Mathematics	238	Fluid Dynamics	AM 402	2017
	238	Mathematical modeling	AM 201	2017
Mathematics/Applied Mathematics	236/238	Classical Mechanics	MA/AM 303	2017
	236/238	Bio Mechanics	MA/AM 405 B	2017
	236/238	Mathematical statistics	MA/AM 404A	2017
	236/238	Operations Research	MA/AM 404 D	2017
	236/238	Graph Theory	MA/AM 403	2017

Microbiology	270	Pharmaceutical Microbiology	406(B)	2017
	270	Biological Chemistry & Analytical Techniques	IMB 101	2017
	270	Enzymology & Microbial Physiology and metabolism	IMB 102	2017
	270	Biological chemistry and analytical techniques	IMB103	2017
	270	Enzymology & Microbial Physiology practical	IMB104	2017
	270	Biological Chemistry & Analytical Techniques	IMB 101	2017
	270	Immunology	IMB201	2017
	270	Medical Microbiology	IMB 202	2017
	270	Immunology	IMB 203	2017
	270	Medical Microbiology	IMB 204	2017
	270	Basics of Virology	MB 205	2017
	270	Agricultural Microbiology	MB-305a	2017
	270	Food microbiology	MB-305b	2017
	270	a) Applied Microbiology	MB-306a	2017
	270	b) Industrial food Microbiology	MB-306b	2017
	270	Molecular Cell Biology & Technology Project	MB-401 MB-404	2017 2017
	M.Sc. INDUSTRIAL MICROBIOLOGY	268	Biological Chemistry & Analytical Techniques	IMB 101
268		Enzymology & Microbial Physiology and metabolism	IMB 102	2017
268		Biological chemistry and analytical techniques	IMB103	2017
268		Enzymology & Microbial Physiology practical	IMB104	2017
268		Biological Chemistry & Analytical Techniques	IMB 101	2017
268		Immunology	IMB201	2017
268		Medical Microbiology	IMB 202	2017
268		Immunology	IMB 203	2017
268		Medical Microbiology	IMB 204	2017
268		Basics of Virology	IMB 205	2017
268		Fundamentals of Industrial Microbiology	IMB-301	2017
268		Food Microbiology and Fermentation Technology	IMB-302	2017
268		Fundamentals of Industrial Microbiology	IMB-303	2017
268		Food Microbiology and Fermentation Technology	IMB-304	2017
268		Bioprocess Engineering and Technology	IMB-305b	2017
268		Industrial Biotechnology	IMB-306a	2017
268		Immuno Technology and Human Health	IMB-306b	2017
268		Downstream Processing Technology	IMB-401	2017
268		Cell and Pharmaceutical technology	IMB-402	2017
268		Downstream Processing Technology & Cell and Pharmaceutical technology	IMB-403	2017
268	Microbes in Human Welfare	IMB-406a	2017	
Physics	242	Classical Mechanics and Theory of Relativity	242	2016
	242	Solid State Physics		2016
	242	Atomic and Molecular Physics		2016
	242	Statistical Mechanics		2016
	242	EM Theory, Lasers & Modern Optics		2016
	242	Physics of Semiconductor Devices		2016
	242	Applied Spectroscopy		2016
	242	Solar Energy- Thermal and Photovoltaic Properties		2016
Virology	272	rDNA Technology	VR-202	
		Molecular Virology	VR-305	
M.Sc. Zoology	260	Developmental Biology	ZOO-301	2017
	260	Tools & Techniques	ZOO-305A	2017
	260	Enzymology	ZOO-305B	2017
	260	Bioinformatics and Biostatistics	ZOO-305C	2017
	260	Endocrinology	ZOO-405C	2017
	260	Genetic Engineering	ZOO-406A	2017
M.Sc. Zoology	260	Practical - I	ZOO-103P	2017
	260	Practical - II	ZOO-104P	2017
	260	HVPE-I	ZOO-106	2017
	260	Practical - I	ZOO-203P	2017
	260	Practical - II	ZOO-204P	2017
	260	HVPE-II	ZOO-206	2017
	260	Practical - I	ZOO-303P	2017
	260	Practical - II	ZOO-304P	2017
	260	Practical - I	ZOO-403P	2017
	260	Practical - II	ZOO-404P	2017
260	Animal Behaviour & Wild Life	ZOO-405B	2017	



Animal Biotechnology	269	Metabolic Regulation & Cell Function (MRCF)	ABT- Core-101	2017
	269	Environmental Biotechnology	ABT-GE-305B	2017
	269	Animal Biotechnology and Industrial Applications	ABT-OE-306A	2017
	269	Medcial Biotechnology	ABT-Core-401	2017
	269	Bioinformatics and Biostatistics	ABT-GE-305C	2017
	269	Cancer Biology	ABT-OE-306B	2017
MBA	198	Logistics Management	344	2017
	198	International Business Management	401	2017
	198	International Marketing	413	2017
	198	Distribution and Supply Chain Management	415	2017
	198	International Finance	421	2017
Computer science				
MCA	MCA 106	Office 365 Essentials	MCA	2017
	MCA 107P	Software Lab based in 101 & 103	MCA	2017
	MCA 108P	Internet technologies Lab	MCA	2017
	MCA 109P	PC Hardware & Office Automation Lab	MCA	2017
	MCA 202	Data Structures using JAVA	MCA	2017
	MCA 203	Operating Systems	MCA	2017
	MCA 204	Advanced Database Management Systems	MCA	2017
	MCA 205	Data Science Essentials	MCA	2017
	MCA 206	Internet Of Things	MCA	2017
	MCA 207P	Software Lab (based on 201 & 203)	MCA	2017
	MCA 208P	Data Structures Lab	MCA	2017
	MCA 209P	Advanced Database Management Systems Lab	MCA	2017
	MCA 302	Data Communications and Computer Networks	MCA	2017
	MCA 303	Software Engineering	MCA	2017
	MCA 304	Computer Graphics	MCA	2017
	MCA 306P	Software lab (based on 301, 302 & 305)	MCA	2017
	MCA 307P	Software Engineering Lab	MCA	2017
	MCA 308P	Computer Graphics Lab	MCA	2017
	MCA 401	Data Warehousing and Data Mining	MCA	2017
	MCA 402	System Programming	MCA	2017
		Web Programming	MCA	2017
	MCA 403 A	Artificial Intelligence	MCA	2017
	MCA 403 B	Software Testing	MCA	2017
	MCA 403 C	Cyber Security	MCA	2017
	MCA 404 B	Neural Networks	MCA	2017
	MCA 404 C	Data Mining Lab	MCA	2017
	MCA 407P	System Programming Lab	MCA	2017
	MCA 408P	Minor Project (by taking case studies from the Generic Elective courses)	MCA	2017
	MCA 409P	Big data and Business Analytics	MCA	2017
	MCA 501	Cloud Computing	MCA	2017
	MCA 502	User Interface Design	MCA	2017
	MCA 503 A	Cryptography and Network Security	MCA	2017
	MCA 503 B	Mobile App Development	MCA	2017
	MCA 503 C	IT in Forensic Science	MCA	2017
	MCA 503 D	Image Processing	MCA	2017
	MCA 504 A	Multimedia System	MCA	2017
	MCA 504 B	Natural Language Processing	MCA	2017
	MCA 504 C	Software Lab (Case studies from 501)	MCA	2017
	MCA 507P	Software Lab (Case studies from 502)	MCA	2017
	MCA 508P	Major Project Work	MCA	2017
	MCA 601			

MSCS	MSCS -102C	Programming in Java & Data Structures	253	2017
	MSCS -103C	Operating Systems	253	2017
	MSCS - 107P1	Practical Core Subject Lab - I	253	2017
	MSCS - 108P2	Practical Core Subject Lab - II	253	2017
	MSCS -201C	Advanced Data Base Management System	253	2017
	MSCS -202C	Computer Networks	253	2017
	MSCS -203C	Computer Graphics	253	2017
	MSCS- 206EF	Internet Of Things	253	2017
	MSCS -301C	Data Warehousing And Data Mining	253	2017
	MSCS -302C	Web Technologies	253	2017
	MSCS -303C	Software Engineering	253	2017
	MSCS -304 A	Systems Programming	253	2017
	MSCS -304 B	Computer Algorithms	253	2017
	MSCS -304 C	UID Using .Net Technologies	253	2017
	MSCS -304 D	IT in Forensic Science	253	2017
	MSCS -304 E	Software Testing	253	2017
	MSCS -305 A	Cloud Computing	253	2017
	MSCS -305 B	Big Data Analytics	253	2017
	MSCS -305 C	Artificial Neural Networks	253	2017
	MSCS -305 D	Cyber Security	253	2017
MSCS -305 E	Mobile App Development	253	2017	
MSCS – 401	Major Project Work	253	2017	
Department of Commerce				
M.Com (Regular)	358		101	2017
		Accounting Standards and Reporting		
	358	Business Management and Policy	103	2017
		Quantitative Techniques for Business Decisions	105a	2017
	358	Business Communication Skills	106a	2017
		E-Banking Operations	206a	2017
	358	Financial Markets and Services	301	2017
	Security Analysis and Portfolio Management	303b	2017	
358	International Financial Management	401	2017	
	E-Commerce	403b	2017	
M.Com (A&F)	357		101	2017
		Accounting Standards and Reporting		
	357	Business Management and Policy	103	2017
		Quantitative Techniques for Business Decisions	105a	2017
	357	Business Communication Skills	106a	2017
		E-Banking Operations	206a	2017
	357	Financial Markets and Services	301	2017
	Security Analysis and Portfolio Management	303b	2017	
357	International Financial Management	401	2017	
	E-Commerce	403b	2017	
M.Com (FM)	355		101	2017
		Accounting Standards and Reporting		
	355	Business Management and Policy	103	2017
		Quantitative Techniques for Business Decisions	105a	2017
	355	Business Communication Skills	106a	2017
		E-Banking Operations	206a	2017
	355	Financial Markets and Services	301	2017
	Security Analysis and Portfolio Management	303b	2017	
355	International Financial Management	401	2017	
	E-Commerce	403b	2017	

Global Needs 2018-2019				
Programme Name	Programme Code	Course Name	Course Code	Year of Introduction
Archeology	114	Ancient World Civilizations.	104	2018
	114	(A) Principles and Methods of Archaeology.	105(A)	2018
Area Studies(SHAPS)	118	India and the World	SEAP 305 A	2018
Centre for Womens Studies	SVUWS	Women & Globalization	SVUWS-405A	2018
Economics	104	International Trade -Theory & Policy	204	2018
	104	Financial Institutions & Markets	402	2018
Education	299	M.Ed	Human Rights Education- 306-C	2018
History	115	History	104	2018
	115	History	105b	2018
	115	History	204	2018
	115	History	303a	2018
Law	154	Jurisprudence	BA LLB -6.4	2018
	154	Public International Law	BA LLB -7.4	2018
Performing Arts	162	Advanced Theory (T)	Core- PA-M 401-	2018
Biochemistry	204	Immunology	Core-2	2018-19
	204	Basics of immunology	Open elective-a	2018-19
	204	Genetic engineering	BCH 401	2018-19
	204	Molecular biology	BCH 302	2018-19
M.Sc. Biotechnology	264	Microbiology and Immunology	105	2017
	264	Molecular Biology	202	2017
	264	Research methodology, Biostatistics and Bioinformatics	205	2017
	264	Genetic Engineering	301	2017
	264	Practicals related to Genetic Engineering, Cell and Tissue culture & Food and Industrial Biotechnology	303P	2018
	264	Food and Industrial Biotechnology	304c	2017
	264	Plant Tissue Culture	305a	2017
	264	Environmental Biotechnology	401	2017
	264	Plant Biotechnology	402	2017
	264	Animal Biotechnology	404b	2017
	264	Pharmaceutical Biotechnology	404a	2017

M.Sc. Environmental Sciences	266	Energy and Environment	ENV-101	2018
	266	Environmental Impact Assessment, Audit and Economics	ENV-302	2018
	266	Natural Resources Conservation	ENV-306 A	2018
	266	Environmental Education	ENV-305 C	2018
	266	Global Environmental Issues	ENV-306 B	2018
M.Sc. Environmental Sciences	266	Practical-I	ENV-103	2018
	266	Practical-II	ENV-104	2018
	266	Instrumental Techniques and Applications	ENV-205	2018
	266	Practical-I	ENV-203	2018
	266	Practical-II	ENV-204	2018
	266	Waste Treatment and Management	ENV-301	2018
	266	Environmental Impact Assessment, Audit and Economics	ENV-302	2018
	266	Practical-I	ENV-303	2018
	266	Practical-II	ENV-304	2018
	266	Practical-I	ENV-403	2018
	266	Project Work and Comprehensive Viva-Voce	ENV-404	2018
	M.Sc Geology	224	Structural Geology and Geotectonics	GEO-201
M Sc Food Science Nutrition and Dietetics	230	Clinical Nutrition and Dietetics I & II	103 & 203	2018
	230	Essential of Food and Community Nutrition	107	2018
	230	Food Microbiology and Safety	202	2018
	230	Food Processing and Preservation Technology	301	2018
	230	Nutrition Assessment Techniques	306b	2018
	230	Food Safety Standards and Quality Control	401	2018
	230	Food Product Development and Marketing	402	2018
	230	Nutrition for Health and Fitness	403	2018
M.Sc. Extension Management and Communication Technology	234	Communication Technologies in Extension	401	2017
	234	Disaster management	406 B	2017

MS Food Technology	254	Food Chemistry and Analysis	FT 101	2017
	254	Food Science and Experimental Foods	FT 102	2017
	254	Technology of Horticulture produce	FT 201	2017
	254	Food Microbiology and Safety	FT 202	2017
	254	Live stock and Sea Food Technology	FT 302	2017
	254	Food Safety Standards and Quality Control	FT 401	2017
	254	Food Product Development and Marketing	FT 402	2017
	254	Food Packaging	FT 404-C	2017
M.SC. MICROBIOLOGY	270	Biological Chemistry & Analytical Techniques	IMB 101	2017
	270	Enzymology & Microbial Physiology and metabolism	IMB 102	2017
	270	Biological chemistry and analytical techniques	IMB103	2017
	270	Enzymology & Microbial Physiology practical	IMB104	2017
	270	Biological Chemistry & Analytical Techniques	IMB 101	2017
	270	Immunology	IMB201	2017
	270	Medical Microbiology	IMB 202	2017
	270	Immunology	IMB 203	2017
	270	Medical Microbiology	IMB 204	2017
	270	Basics of Virology	MB 205	2017
	270	Agricultural Microbiology	MB-305a	2017
	270	Food microbiology	MB-305b	2017
	270	a) Applied Microbiology	MB-306a	2017
	270	b) Industrial food Microbiology	MB-306b	2017
	270	Molecular Cell Biology & Technology	MB-401	2017
	270	Project	MB-404	2017
M.SC. INDUSTRIAL MICROBIOLOGY	268	Biological Chemistry & Analytical Techniques	IMB 101	2017
	268	Enzymology & Microbial Physiology and metabolism	IMB 102	2017
	268	Biological chemistry and analytical techniques	IMB103	2017
	268	Enzymology & Microbial Physiology practical	IMB104	2017
	268	Biological Chemistry & Analytical Techniques	IMB 101	2017
	268	Immunology	IMB201	2017
	268	Medical Microbiology	IMB 202	2017
	268	Immunology	IMB 203	2017
	268	Medical Microbiology	IMB 204	2017
	268	Basics of Virology	IMB 205	2017
	268	Fundamentals of Industrial Microbiology	IMB-301	2017
	268	Food Microbiology and Fermentation Technology	IMB-302	2017
	268	Fundamentals of Industrial Microbiology	IMB-303	2017
	268	Food Microbiology and Fermentation Technology	IMB-304	2017
	268	Bioprocess Engineering and Technology	IMB-305b	2017
	268	Industrial Biotechnology	IMB-306a	2017
	268	Immuno Technology and Human Health	IMB-306b	2017
	268	Downstream Processing Technology	IMB-401	2017
	268	Cell and Pharmaceutical technology	IMB-402	2017
	268	Processing Technology & Cell and Pharmaceutica	IMB-403	2017
268	Microbes in Human Welfare	IMB-406a	2017	

Physics	242	Classical Mechanics and Theory of Relativity	242	2018
	242	Solid State Physics		2018
	242	Atomic and Molecular Physics		2018
	242	Statistical Mechanics		2018
	242	EM Theory, Lasers & Modern Optics		2018
	242	Nuclear Physics		2018
	242	Physics of Semiconductor Devices		2018
	242	Applied Spectroscopy		2018
	242	Condensed Matter Physics		2018
	242	Embedded Systems		2018
	242	Photonics		2018
242	Solar Energy- Thermal and Photovoltaic Properties		2018	
M.Sc. Zoology	260	Developmental Biology	ZOO-301	2018
	260	Tools & Techniques	ZOO-305A	2018
	260	Enzymology	ZOO-305B	2018
	260	Genetic Engineering	ZOO-306B	2018
	260	Endocrinology	ZOO-405C	2018
	260	Practical - I	ZOO-103P	2018
	260	Practical - II	ZOO-104P	2018
	260	HVPE-I	ZOO-106	2018
	260	Practical - I	ZOO-203P	2018
	260	Practical - II	ZOO-204P	2018
	260	HVPE-II	ZOO-206	2018
	260	Practical - I	ZOO-303P	2018
	260	Practical - II	ZOO-304P	2018
	260	Practical - I	ZOO-403P	2018
	260	Practical - II	ZOO-404P	2018
260	Animal Behaviour & Wild Life	ZOO-405B	2018	
Animal Biotechnology	269	Metabolic Regulation & Cell Function (MRCF)	ABT- Core-101	2017
	269	Environmental Biotechnology	ABT-GE-305B	2017
	269	Animal Biotechnology and Industrial Applications	ABT-OE-306A	2017
	269	Medial Biotechnology	ABT-Core-401	2017
	269	Bioinformatics and Biostatistics	ABT-GE-305C	2017
	269	Cancer Biology	ABT-GE-305A	2018

MBA	198	Logistics Management	344	2018	
	198	International Business Management	401	2018	
	198	International Marketing	413	2018	
	198	Distribution and Supply Chain Management	415	2018	
	198	International Finance	421	2018	
MCA	MCA 106	Office 365 Essentials	MCA	2018	
	MCA 107P	Software Lab based in 101 & 103	MCA	2018	
	MCA 108P	Internet technologies Lab	MCA	2018	
	MCA 109P	PC Hardware & Office Automation Lab	MCA	2018	
	MCA 202	Data Structures using JAVA	MCA	2018	
	MCA 203	Operating Systems	MCA	2018	
	MCA 204	Advanced Database Management Systems	MCA	2018	
	MCA 205	Data Science Essentials	MCA	2018	
	MCA 206	Internet Of Things	MCA	2018	
	MCA 207P	Software Lab (based on 201 & 203)	MCA	2018	
	MCA 208P	Data Structures Lab	MCA	2018	
	MCA 209P	Advanced Database Management Systems Lab	MCA	2018	
	MCA 302	Data Communications and Computer Networks	MCA	2018	
	MCA 303	Software Engineering	MCA	2018	
	MCA 304	Computer Graphics	MCA	2018	
	MCA 306P	Software lab (based on 301, 302 & 305)	MCA	2018	
	MCA 307P	Software Engineering Lab	MCA	2018	
	MCA 308P	Computer Graphics Lab	MCA	2018	
	MCA 401	Data Warehousing and Data Mining	MCA	2018	
	MCA 402	System Programming	MCA	2018	
			Web Programming	MCA	2018
	MCA 403 A		Artificial Intelligence	MCA	2018
	MCA 403 B		Software Testing	MCA	2018
	MCA 403 C		Cyber Security	MCA	2018
	MCA 404 B		Neural Networks	MCA	2018
	MCA 404 C		Data Mining Lab	MCA	2018
	MCA 407P		System Programming Lab	MCA	2018
	MCA 408P		Minor Project (by taking case studies from the Generic Elective courses)	MCA	2018
	MCA 409P		Big data and Business Analytics	MCA	2018
	MCA 501		Cloud Computing	MCA	2018
	MCA 502		User Interface Design	MCA	2018
	MCA 503 A		Cryptography and Network Security	MCA	2018
	MCA 503 B		Mobile App Development	MCA	2018
	MCA 503 C		IT in Forensic Science	MCA	2018
	MCA 503 D		Image Processing	MCA	2018
	MCA 504 A		Multimedia System	MCA	2018
	MCA 504 B		Natural Language Processing	MCA	2018
	MCA 504 C		Software Lab (Case studies from 501)	MCA	2018
	MCA 507P		Software Lab (Case studies from 502)	MCA	2018
	MCA 508P		Major Project Work	MCA	2018
	MCA 601				

MSCS	MSCS -102C	Programming in Java & Data Structures	253	2018
	MSCS -103C	Operating Systems	253	2018
	MSCS - 107P1	Practical Core Subject Lab - I	253	2018
	MSCS - 108P2	Practical Core Subject Lab - II	253	2018
	MSCS -201C	Advanced Data Base Management System	253	2018
	MSCS -202C	Computer Networks	253	2018
	MSCS -203C	Computer Graphics	253	2018
	MSCS- 206EF	Internet Of Things	253	2018
	MSCS -301C	Data Warehousing And Data Mining	253	2018
	MSCS -302C	Web Technologies	253	2018
	MSCS -303C	Software Engineering	253	2018
	MSCS -304 A	Systems Programming	253	2018
	MSCS -304 B	Computer Algorithms	253	2018
	MSCS -304 C	UID Using .Net Technologies	253	2018
	MSCS -304 D	IT in Forensic Science	253	2018
	MSCS -304 E	Software Testing	253	2018
	MSCS -305 A	Cloud Computing	253	2018
	MSCS -305 B	Big Data Analytics	253	2018
	MSCS -305 C	Artificial Neural Networks	253	2018
	MSCS -305 D	Cyber Security	253	2018
	MSCS -305 E	Mobile App Development	253	2018
MSCS – 401	Major Project Work	253	2018	
M.Com (Regular)	358	Accounting Standards and Reporting	101	2018
	358	Business Management and Policy	103	2018
	358	Quantitative Techniques for Business Decisions	105a	2018
	358	Business Communication Skills	106a	2018
	358	E-Banking Operations	206a	2018
	358	Financial Markets and Services	301	2018
	358	Security Analysis and Portfolio Management	303b	2018
M.Com (A&F)	357	Accounting Standards and Reporting	101	2018
	357	Business Management and Policy	103	2018
	357	Quantitative Techniques for Business Decisions	105a	2018
	357	Business Communication Skills	106a	2018
	357	E-Banking Operations	206a	2018
	357	Financial Markets and Services	301	2018
	357	Security Analysis and Portfolio Management	303b	2018
M.Com (FM)	355	Accounting Standards and Reporting	101	2018
	355	Business Management and Policy	103	2018
	355	Quantitative Techniques for Business Decisions	105a	2018
	355	Business Communication Skills	106a	2018
	355	E-Banking Operations	206a	2018
	355	Financial Markets and Services	301	2018
	355	Security Analysis and Portfolio Management	303b	2018
355	International Financial Management	401	2018	
		E-Commerce	403b	2018



Global Needs 2019-2020				
Programme Name	Programme Code	Course Name	Course Code	Year of Introduction
Archeology	114	Ancient World Civilizations.	104	2019
	114	(A) Principles and Methods of Archaeology.	105(A)	2019
Area Studies(SHAPS)	118	India and the World	SEAP 305 A	2019
Centre for Womens Studies	SVUWS	Women & Globalization	SVUWS-405A	2019
Economics	104	International Trade -Theory & Policy	204	2019
	104	Financial Institutions & Markets	402	2019
Education	299	M.Ed	Human Rights Education- 306-C	2019
History	115	History	106b	2019
	115	History	403c	2019
Law	154	Jurisprudence	BA LLB -6.4	2019
	154	Public International Law	BA LLB -7.4	2019
Performing Arts	162	Advanced Theory (T)	Core- PA-M 401-	2019
Biochemistry	204	Immunology	Core-2	2019-20
	204	Basics of immunology	Open elective-a	2019-20
	204	Genetic engineering	BCH 401	2019-20
	204	Molecular biology	BCH 302	2019-20
M.Sc. Biotechnology	264	Microbiology and Immunology	105	2017
	264	Molecular Biology	202	2017
	264	Research methodology, Biostatistics and Bioinformatics	205	2017
	264	Genetic Engineering	301	2017
	264	Practicals related to Genetic Engineering, Cell and Tissue culture & Food and Industrial Biotechnology	303P	2017
	264	Food and Industrial Biotechnology	304c	2017
	264	Plant Tissue Culture	305a	2017
	264	Environmental Biotechnology	401	2017
	264	Plant Biotechnology	402	2017
	264	Animal Biotechnology	404b	2017
	264	Pharmaceutical Biotechnology	404a	2017
	264	Bioinformatics	305c	2019
	266	Energy and Environment	ENV-101	2019
	266	Environmental Impact Assessment, Audit and Economics	ENV-302	2019
266	Natural Resources Conservation	ENV-306 A	2019	
266	Environmental Education	ENV-306 B	2019	
266	Global Environmental Issues	ENV-405 C	2019	
266	Practical-I	ENV-103	2019	
266	Practical-II	ENV-104	2019	
266	Instrumental Techniques and Applications	ENV-205	2019	
266	Practical-I	ENV-203	2019	
266	Practical-II	ENV-204	2019	
266	Waste Treatment and Management	ENV-301	2019	
266	Environmental Impact Assessment, Audit and Economics	ENV-302	2019	
266	Practical-I	ENV-303	2019	
266	Practical-II	ENV-304	2019	
266	Practical-I	ENV-403	2019	
266	Project Work and Comprehensive Viva-Voce	ENV-404	2019	
M.Sc Geology	224	Structural Geology and Geotectonics	GEO-201	2019
Home Science				
M Sc Food Science Nutrition and Dietetics	230	Clinical Nutrition and Dietetics I & II	103 & 203	2019
	230	Essential of Food and Community Nutrition	107	2019
	230	Food Microbiology and Safety	202	2019
	230	Food Processing and Preservation Technology	301	2019
	230	Nutrition Assessment Techniques	306b	2019
	230	Food Safety Standards and Quality Control	401	2019
	230	Food Product Development and Marketing	402	2019
230	Nutrition for Health and Fitness	403	2019	

M.Sc. Extension Management and Communication Technology	234	Communication Technologies in Extension	401	2019
	234	Disaster management	406 B	2019
MS Food Technology	254	Food Chemistry and Analysis	FT 101	2017
	254	Food Science and Experimental Foods	FT 102	2017
	254	Technology of Horticulture produce	FT 201	2017
	254	Food Microbiology and Safety	FT 202	2017
	254	Live stock and Sea Food Technology	FT 302	2017
	254	Food Safety Standards and Quality Control	FT 401	2017
	254	Food Product Development and Marketing	FT 402	2017
M.S.C. MICROBIOLOGY	270	Biological Chemistry & Analytical Techniques	IMB 101	2017
	270	Enzymology & Microbial Physiology and metabolism	IMB 102	2017
	270	Biological chemistry and analytical techniques	IMB103	2017
	270	Enzymology & Microbial Physiology practical	IMB 104	2017
	270	Biological Chemistry & Analytical Techniques	IMB 101	2017
	270	Immunology	IMB201	2017
	270	Medical Microbiology	IMB 202	2017
	270	Immunology	IMB 203	2017
	270	Medical Microbiology	IMB 204	2017
	270	Basics of Virology	MB 205	2017
	270	Agricultural Microbiology	MB-305a	2017
	270	Food microbiology	MB-305b	2017
	270	a) Applied Microbiology	MB-306a	2017
	270	b) Industrial food Microbiology	MB-306b	2017
	270	Molecular Cell Biology & Technology Project	MB-401	2017
M.S.C. INDUSTRIAL MICROBIOLOGY	268	Biological Chemistry & Analytical Techniques	IMB 101	2017
	268	Enzymology & Microbial Physiology and metabolism	IMB 102	2017
	268	Biological chemistry and analytical techniques	IMB103	2017
	268	Enzymology & Microbial Physiology practical	IMB 104	2017
	268	Biological Chemistry & Analytical Techniques	IMB 101	2017
	268	Immunology	IMB201	2017
	268	Medical Microbiology	IMB 202	2017
	268	Immunology	IMB 203	2017
	268	Medical Microbiology	IMB 204	2017
	268	Basics of Virology	IMB 205	2017
	268	Fundamentals of Industrial Microbiology	IMB-301	2017
	268	Food Microbiology and Fermentation Technology	IMB-302	2017
	268	Fundamentals of Industrial Microbiology	IMB-303	2017
	268	Food Microbiology and Fermentation Technology	IMB-304	2017
	268	Bioprocess Engineering and Technology	IMB-305b	2017
	268	Industrial Biotechnology	IMB-306a	2017
	268	Immuno Technology and Human Health	IMB-306b	2017
	268	Downstream Processing Technology	IMB-401	2017
	268	Cell and Pharmaceutical technology	IMB-402	2017
	268	Downstream Processing Technology & Cell and Pharmaceutical technology	IMB-403	2017
268	Microbes in Human Welfare	IMB-406a	2017	
M.Sc. Zoology	260	Developmental Biology	ZOO-301	2019
	260	Tools & Techniques	ZOO-305A	2019
	260	Enzymology	ZOO-305B	2019
	260	Endocrinology	ZOO-405C	2019
	260	Genetic Engineering	ZOO-406A	2019
	260	Practical - I	ZOO-103P	2019
	260	Practical - II	ZOO-104P	2019
	260	HVPE-I	ZOO-106	2019
	260	Practical - I	ZOO-203P	2019
	260	Practical - II	ZOO-204P	2019
	260	HVPE-II	ZOO-206	2019
	260	Practical - I	ZOO-303P	2019
	260	Practical - II	ZOO-304P	2019
	260	Practical - I	ZOO-403P	2019
	260	Practical - II	ZOO-404P	2019
260	Animal Behaviour & Wild Life	ZOO-405B	2019	

Animal Biotechnology	269	Metabolic Regulation & Cell Function (MRCF)	ABT- Core-101	2017	
	269	Environmental Biotechnology	ABT-OE-306A	2019	
	269	Animal Biotechnology and Industrial Applications	ABT-GE-305B	2019	
	269	Medial Biotechnology	ABT-Core-401	2017	
	269	Bioinformatics and Biostatistics	ABT-GE-305C	2017	
	269	Cancer Biology	ABT-GE-305A	2018	
MBA	198	Logistics Management	344	2019	
	198	International Business Management	401	2019	
	198	International Marketing	413	2019	
	198	Distribution and Supply Chain Management	415	2019	
	198	International Finance	421	2019	
Computer science					
MCA	MCA 106	Office 365 Essentials	MCA	2019	
	MCA 107P	Software Lab based in 101 & 103	MCA	2019	
	MCA 108P	Internet technologies Lab	MCA	2019	
	MCA 109P	PC Hardware & Office Automation Lab	MCA	2019	
	MCA 202	Data Structures using JAVA	MCA	2019	
	MCA 203	Operating Systems	MCA	2019	
	MCA 204	Advanced Database Management Systems	MCA	2019	
	MCA 205	Data Science Essentials	MCA	2019	
	MCA 206	Internet Of Things	MCA		
	MCA 207P	Software Lab (based on 201 & 203)	MCA	2019	
	MCA 208P	Data Structures Lab	MCA	2019	
	MCA 209P	Advanced Database Management Systems Lab	MCA	2019	
	MCA 302	Data Communications and Computer Networks	MCA	2019	
	MCA 303	Software Engineering	MCA	2019	
	MCA 304	Computer Graphics	MCA	2019	
	MCA 306P	Software lab (based on 301, 302 & 305)	MCA	2019	
	MCA 307P	Software Engineering Lab	MCA	2019	
	MCA 308P	Computer Graphics Lab	MCA	2019	
	MCA 401	Data Warehousing and Data Mining	MCA	2019	
	MCA 402	System Programming	MCA	2019	
		Web Programming	MCA	2019	
	MCA 403 A				
	MCA 403 B	Artificial Intelligence	MCA	2019	
	MCA 403 C	Software Testing	MCA	2019	
	MCA 404 B	Cyber Security	MCA	2019	
	MCA 404 C	Neural Networks	MCA	2019	
	MCA 407P	Data Mining Lab	MCA	2019	
	MCA 408P	System Programming Lab	MCA	2019	
	MCA 409P	Minor Project (by taking case studies from the Generic Elective courses)	MCA	2019	
	MCA 501	Big data and Business Analytics	MCA	2019	
	MCA 502	Cloud Computing	MCA	2019	
	MCA 503 A	User Interface Design	MCA	2019	
	MCA 503 B	Cryptography and Network Security	MCA	2019	
	MCA 503 C	Mobile App Development	MCA	2019	
	MCA 503 D	IT in Forensic Science	MCA	2019	
	MCA 504 A	Image Processing	MCA	2019	
	MCA 504 B	Multimedia System	MCA	2019	
	MCA 504 C	Natural Language Processing	MCA	2019	
	MCA 507P	Software Lab (Case studies from 501)	MCA	2019	
	MCA 508P	Software Lab (Case studies from 502)	MCA	2019	
	MCA 601	Major Project Work	MCA	2019	
	MSCS	MSCS -102C	Programming in Java & Data Structures	253	2019
		MSCS -103C	Operating Systems	253	2019
		MSCS - 107P1	Practical Core Subject Lab - I	253	2019
		MSCS - 108P2	Practical Core Subject Lab - II	253	2019
		MSCS -201C	Advanced Data Base Management System	253	2019
		MSCS -202C	Computer Networks	253	2019
		MSCS -203C	Computer Graphics	253	2019
		MSCS- 206EF	Internet Of Things	253	2019
		MSCS -301C	Data Warehousing And Data Mining	253	2019
MSCS -302C		Web Technologies	253	2019	
MSCS -303C		Software Engineering	253	2019	
MSCS -304 A		Systems Programming	253	2019	
MSCS -304 B		Computer Algorithms	253	2019	
MSCS -304 C		UID Using .Net Technologies	253	2019	
MSCS -304 D		IT in Forensic Science	253	2019	
MSCS -304 E		Software Testing	253	2019	
MSCS -305 A		Cloud Computing	253	2019	
MSCS -305 B		Big Data Analytics	253	2019	
MSCS -305 C		Artificial Neural Networks	253	2019	
MSCS -305 D		Cyber Security	253	2019	
MSCS -305 E		Mobile App Development	253	2019	
MSCS - 401		Major Project Work	253	2019	

Global Needs 2020-2021				
Programme Name	Programme Code	Course Name	Course Code	Year of Introduction
Archeology	114	Ancient World Civilizations.	104	2020
	114	(A) Principles and Methods of Archaeology.	105(A)	2020
Area Studies(SHAPS)	118	India and the World	SEAP 305 A	2020
Centre for Womens Studies	SVUWS	Women Movements in National & International Perspective	SVUWS-103	2020-21
	SVUWS	Feminist Theories	SVUWS-301	2020-21
	SVUWS	Gender Identity and Leadership	SVUWS-305B	2020-21
	SVUWS	Gender Perspective and Governance	SVUWS-305C	2020-21
Economics	104	International Trade -Theory & Policy	204	2020
	104	Financial Institutions & Markets	402	2020
Education	299	M.Ed	Human Values and Professional Ethics – II -404-A-	2020
History	115	HISTROY	106b	2020
	115	HISTROY	403c	2020
Law	154	Jurisprudence	BA LLB -6.4	2020
	154	Public International Law	BA LLB -7.4	2020
Performing Arts	162	Advanced Theory (T)	Core- PA-M 401-	2020
Biochemistry	204	Immunology	Core-2	2020-21
	204	Basics of immunology	Open elective-a	2020-21
	204	Genetic engineering	BCH 401	2020-21
	204	Molecular biology	BCH 302	2020-21
M.Sc. Environmental Sciences	266	Energy and Environment	ENV-101	2020
	266	Environmental Impact Assessment, Audit and Economics	ENV-302	2020
	266	Natural Resources Conservation	ENV-306 A	2020
	266	Environmental Education	ENV-306 B	2020
	266	Global Environmental Issues	ENV-405 C	2020
	266	Practical-I	ENV-103	2020
M.Sc. Environmental Sciences	266	Practical-II	ENV-104	2020
	266	Instrumental Techniques and Applications	ENV-205	2020
	266	Practical-I	ENV-203	2020
	266	Practical-II	ENV-204	2020
	266	Waste Treatment and Management	ENV-301	2020
	266	Environmental Impact Assessment, Audit and Economics	ENV-302	2020
	266	Practical-I	ENV-303	2020
	266	Practical-II	ENV-304	2020
	266	Practical-I	ENV-403	2020
	266	Project Work and Comprehensive Viva-Voce	ENV-404	2020

M.Sc Geology	224	Structural Geology and Geotectonics	GEO-201	2020
Home Science				
M.Sc Food Science Nutrition and Dietetics	230	Clinical Nutrition and Dietetics I & II	103 & 203	2020
	230	Essential of Food and Community Nutrition	107	2020
	230	Food Microbiology and Safety	202	2020
	230	Food Processing and Preservation Technology	301	2020
	230	Nutrition Assessment Techniques	306b	2020
	230	Food Safety Standards and Quality Control	401	2020
	230	Food Product Development and Marketing	402	2020
	230	Nutrition for Health and Fitness	403	2020
M.Sc. Extension Management and Communication Technology	234	Communication Technologies in Extension	401	2020
	234	Disaster management	406 B	2020
MS Food Technology	254	Food Chemistry and Analysis	FT 101	2017
	254	Food Science and Experimental Foods	FT 102	2017
	254	Technology of Horticulture produce	FT 201	2017
	254	Food Microbiology and Safety	FT 202	2017
	254	Live stock and Sea Food Technology	FT 302	2017
	254	Food Safety Standards and Quality Control	FT 401	2017
	254	Food Product Development and Marketing	FT 402	2017
	254	Food Packaging	FT 404-C	2017
M.SC. MICROBIOLOGY	270	Biological Chemistry & Analytical Techniques	IMB 101	2017
	270	Enzymology & Microbial Physiology and	IMB 102	2017
	270	Biological chemistry and analytical techniques	IMB103	2017
	270	Enzymology & Microbial Physiology practical	IMB104	2017
	270	Biological Chemistry & Analytical Techniques	IMB 101	2017
	270	Immunology	IMB201	2017
	270	Medical Microbiology	IMB 202	2017
	270	Immunology	IMB 203	2017
	270	Medical Microbiology	IMB 204	2017
	270	Basics of Virology	MB 205	2017
	270	Agricultural Microbiology	MB-305a	2017
	270	Food microbiology	MB-305b	2017
	270	a) Applied Microbiology	MB-306a	2017
	270	b) Industrial food Microbiology	MB-306b	2017
	270	Molecular Cell Biology & Technology	MB-401	2017
270	Project	MB-404	2017	

M.SC. INDUSTRIAL MICROBIOLOGY	268	Biological Chemistry & Analytical Techniques	IMB 101	2017
	268	Enzymology & Microbial Physiology and Metabolic Engineering	IMB 102	2017
	268	Biological chemistry and analytical techniques	IMB103	2017
	268	Enzymology & Microbial Physiology practical	IMB104	2017
	268	Biological Chemistry & Analytical Techniques	IMB 101	2017
	268	Immunology	IMB201	2017
	268	Medical Microbiology	IMB 202	2017
	268	Immunology	IMB 203	2017
	268	Medical Microbiology	IMB 204	2017
	268	Basics of Virology	IMB 205	2017
	268	Fundamentals of Industrial Microbiology	IMB-301	2017
	268	Food Microbiology and Fermentation Technology	IMB-302	2017
	268	Fundamentals of Industrial Microbiology	IMB-303	2017
	268	Food Microbiology and Fermentation Technology	IMB-304	2017
	268	Bioprocess Engineering and Technology	IMB-305b	2017
	268	Industrial Biotechnology	IMB-306a	2017
	268	Immuno Technology and Human Health	IMB-306b	2017
	268	Downstream Processing Technology	IMB-401	2017
	268	Cell and Pharmaceutical technology	IMB-402	2017
	268	Downstream Processing Technology & Cell and Pharmaceutical technology	IMB-403	2017
268	Microbes in Human Welfare	IMB-406a	2017	
M.Sc. Zoology	260	Developmental Biology	ZOO-301	2019
	260	Tools & Techniques	ZOO-305A	2019
	260	Enzymology	ZOO-305B	2019
	260	Endocrinology	ZOO-405C	2019
	260	Genetic Engineering	ZOO-406A	2019
	260	Practical - I	ZOO-103P	2019
	260	Practical - II	ZOO-104P	2019
	260	HVPE-I	ZOO-106	2019
	260	Practical - I	ZOO-203P	2019
	260	Practical - II	ZOO-204P	2019
	260	HVPE-II	ZOO-206	2019
	260	Practical - I	ZOO-303P	2019
	260	Practical - II	ZOO-304P	2019
	260	Practical - I	ZOO-403P	2019
	260	Practical - II	ZOO-404P	2019
	260	Animal Behaviour& Wild Life	ZOO-405B	2019

Animal Biotechnology	269	Metabolic Regulation & Cell Function (MRCF)	ABT-Core-101	2017
	269	Environmental Biotechnology	ABT-OE-306A	2019
	269	Animal Biotechnology and Industrial Applications	ABT-GE-305B	2019
	269	Medial Biotechnology	ABT-Core-401	2017
	269	Bioinformatics and Biostatistics	ABT-GE-305C	2017
	269	Cancer Biology	ABT-GE-305A	2018
MBA	198	Logistics Management	344	2020
	198	International Business Management	401	2020
	198	International Marketing	413	2020
	198	Distribution and Supply Chain Management	415	2020
	198	International Finance	421	2020
Computer science				
MCA	MCA 102	Object Oriented Programming with Java	MCA	2020
	MCA 103	Computer Organization	MCA	2020
	MCA 104	Operating Systems	MCA	2020
	MCA 106 P	Software Lab I (based on 101 & 103)	MCA	2020
	MCA 107 P	Object Oriented Programming Lab	MCA	2020
	MCA 108 P	Operating Systems Lab	MCA	2020
	MCA 201	Computer Oriented Operations Research	MCA	2020
	MCA 202	Data Structure using Java	MCA	2020
	MCA 203	Data Communication and Computer Networks	MCA	2020
	MCA 204	Advanced Database Management System	MCA	2020
	MCA 205 B	Cyber Security	MCA	2020
	MCA 205 C	Neural Networks	MCA	2020
	MCA 206 P	Software Lab II (Based on 201 & 203)	MCA	2020
	MCA 207 P	Data Structures Lab	MCA	2020
	MCA 208 P	Advanced Database Management Systems Lab	MCA	2020
	MCA 301	Software Engineering	MCA	2020
	MCA 302	Computer Graphics	MCA	2020
	MCA 303	Web Technologies	MCA	2020
	MCA 304 A	304A.Data warehousing and Data mining	MCA	2020
	MCA 304 B	304B.Big Data Analytics	MCA	2020
	MCA 304 C	304C System Programming	MCA	2020
	MCA 305 A	305A. Cryptography and Network Security	MCA	2020
	MCA 305 B	305B.Artificial Intelligence	MCA	2020
	MCA 305 C	305C.Mobile Application Development	MCA	2020
	MCA 308 P	Software Lab III (301&302)	MCA	2020
	MCA 309 P	Web Technologies Lab	MCA	2020
	MCA 401 A	Cloud Computing	MCA	2020
	MCA 401 B	Dot Net Technologies	MCA	2020
	MCA 401 C	Software Testing	MCA	2020
	MCA 402 A	Essentials of Data Science	MCA	2020
	MCA 402 B	Deep Learning	MCA	2020
	MCA 402 C	Internet of Things	MCA	2020
	MCA 403	Major Project Work	MCA	2020

MSCS	MSCS -102C	Programming in Java & Data Structures	253	2020
	MSCS -103C	Operating Systems	253	2020
	MSCS -107P1	Practical Core Subject Lab - I	253	2020
	MSCS -108P2	Practical Core Subject Lab - II	253	2020
	MSCS -201C	Advanced Data Base Management System	253	2020
	MSCS -202C	Computer Networks	253	2020
	MSCS -203C	Computer Graphics	253	2020
	MSCS-206EF	Internet Of Things	253	2020
	MSCS -301C	Data Warehousing And Data Mining	253	2020
	MSCS -302C	Web Technologies	253	2020
	MSCS -303C	Software Engineering	253	2020
	MSCS -304 A	Systems Programming	253	2020
	MSCS -304 B	Computer Algorithms	253	2020
	MSCS -304 C	UID Using .Net Technologies	253	2020
	MSCS -304 D	IT in Forensic Science	253	2020
	MSCS -304 E	Software Testing	253	2020
	MSCS -305 A	Cloud Computing	253	2020
	MSCS -305 B	Big Data Analytics	253	2020
	MSCS -305 C	Artificial Neural Networks	253	2020
	MSCS -305 D	Cyber Security	253	2020
MSCS -305 E	Mobile App Development	253	2020	
MSCS – 401	Major Project Work	253	2020	
M.Com (Regular)	358	Accounting Standards and Reporting	101	2020
	358	Business Management and Policy	103	2020
		Quantitative Techniques for Business Decisions	105a	2020
	358	Business Communication Skills	106a	2020
		E-Banking Operations	206a	2020
	358	Financial Markets and Services	301	2020
Security Analysis and Portfolio Management		303b	2020	
358	International Financial Management	401	2020	
	E-Commerce	403b	2020	
M.Com (A&F)	357	Accounting Standards and Reporting	101	2020
	357	Business Management and Policy	103	2020
		Quantitative Techniques for Business Decisions	105a	2020
	357	Business Communication Skills	106a	2020
		E-Banking Operations	206a	2020
	357	Financial Markets and Services	301	2020
Security Analysis and Portfolio Management		303b	2020	
357	International Financial Management	401	2020	
	E-Commerce	403b	2020	
M.Com (FM)	355	Accounting Standards and Reporting	101	2020
	355	Business Management and Policy	103	2020
		Quantitative Techniques for Business Decisions	105a	2020
	355	Business Communication Skills	106a	2020
		E-Banking Operations	206a	2020
	355	Financial Markets and Services	301	2020
Security Analysis and Portfolio Management		303b	2020	
355	International Financial Management	401	2020	
	E-Commerce	403b	2020	



**Global Needs 2021-2022**

Programme Name	Programme Code	Course Name	Course Code	Year of Introduction
Archeology	114	Advanced Archaeological Theory and Research Methods	105(B)	2021
	114	(A) India's Early Cultural Contacts with other Countries	206(A)	2021
	114	(B) Early History of South East Asia	206(B)	2021
Area Studies(SEAPS)	118	Southeast Asia and World Politics	SEAP 301	2021
Centre for Womens Studies	239	Principles of Management	SVUWS-102C	2021-22
	239	Globalization: Gender Implications	SVUWS-403D	2021-22
	239	Women Movements: National & International Perspectives	SVUWS-104	2021-22
	239	Gender Based Violence: Issues and Concerns	SVUWS-205C	2021-22
	239	Human Rights with Gender Lens	SVUWS-206A	2021-22
	239	Feminist Theories(revised)	SVUWS-301	2021-22
History	115	HISTORY	205b	2021
M.Sc. Anthropology	136	Early civilizations	204-4 ( c )	2021
Immunotechnology	205	Immunology	IMT 301	2021-22
	205	Genetic engineering	IMT 401	2021-22
	205	Molecular biology	IMT 205	2021-22
M.Sc. Biotechnology	264	Microbiology and Immunology	105	2021
	264	Molecular Biology	202	2021
	264	Research methodology, Biostatistics and Bioinformatics	205	2021
	264	Genetic Engineering	301	2021
	264	Practicals related to Genetic Engineering, Cell and Tissue culture & Food and Industrial Biotechnology	303P	2021
	264	Food and Industrial Biotechnology	304c	2021
	264	Plant Tissue Culture	305a	2021
	264	Environmental Biotechnology	401	2021
	264	Plant Biotechnology	402	2021
	264	Animal Biotechnology	404b	2021
M.Sc. Environmental Sciences	264	Pharmaceutical Biotechnology	404a	2021
	266	Energy and Environment	ENV-101	2021
	266	Environmental Impact Assessment, Audit and Economics	ENV-302	2021
	266	Natural Resources Conservation	ENV-306 A	2021
	266	Environmental Education	ENV-306 B	2021
	266	Global Environmental Issues	ENV-405 C	2021
	266	Practical-I	ENV-103	2021
	266	Practical-II	ENV-104	2021
	266	Instrumental Techniques and Applications	ENV-205	2021
	266	Practical-I	ENV-203	2021
	266	Practical-II	ENV-204	2021
	266	Waste Treatment and Management	ENV-301	2021
	266	Environmental Impact Assessment, Audit and Economics	ENV-302	2021
	266	Practical-I	ENV-303	2021
	266	Occupational Health and Industrial Safety	ENV-304	2021
	266	Practical-I	ENV-403	2021
	266	Project Work and Comprehensive Viva-Voce	ENV-404	2021
MSc, Geography	228	Social and Cultural Geography	GEG – 204(C)	2021
	228	Agricultural Geography	GEG – 303(A)	2021
	228	Advanced Remote Sensing	GEG – 402	2021
	228	Environmental Geography	GEG – 103(C)	2021
	228	Climatology	GEG 201	2021
	228	Disaster Management Studies	GEG – 303(C)	2021
	228	Remote Sensing Applications	GEG = 404	2021
	228	Geographical Information System (GIS)	GEG – 302	2021
	228	Research Methodology	GEG- RS1	2021
228	Focusing on National level geospatial techniques applications on Global needs	GEG- RS1	2021	

M.Sc Geology	224	Structural Geology and Geotectonics	GEO-201	2021
M Sc Food Science Nutrition and Dietetics	230	Clinical Nutrition and Dietetics I	102	2021
	230	Essential of Food and Community Nutrition	104A	2021
	230	Food Microbiology and Safety	203A	2021
	230	Food Processing and Preservation Technology	301	2021
	230	Nutrition Assessment Techniques	303A	2021
	230	Food Safety Standards and Quality Control	401	2021
	230	Food Product Development and Marketing	402	2021
	230	Nutrition for Health and Fitness	403A	2021
M.Sc. Extension Management and Communication Technology	234	Communication Technologies in Extension	401	2021
	234	Disaster management	406 B	2021
MS Food Technology	254	Food Chemistry and Analysis	FT 101	2021
	254	Food Science and Experimental Foods	FT 103-A	2021
	254	Fruit and Vegetable Technology	FT 201	2021
	254	Food Microbiology and Safety	FT 203-A	2021
	254	Live stock and Sea Food Technology	FT 302	2021
	254	Food Safety Standards and Quality Control	FT 401	2021
	254	Food Product Development and Marketing	FT 402	2021
	254	Technology of Packaging	FT 405	2021
Mathematics/Applied Mathematics	236/238	Fuzzy sets and fuzzy logic	MA/AMA 304 C	2021
M.S.C. MICROBIOLOGY	270	Introductory Microbiology	MB 101	2021
	270	Molecular Biology	MB201	2021
	270	Recombinant DNA technology	MB 202	2021
	270	Immunology	MB 203	2021
	270	Medical Microbiology	MB 204	2021
	270	Molecular Biology and Recombinant DNA Technology	MB 205	2021
	270	Immunology and Medical Microbiology	MB 206	2021
	270	a) Industrial Microbiology	MB 303a	2021
	270	b) Downstream processing Technology	MB 303b	2021
	270	Food and Dairy Microbiology	MB 305	2021
	270	Microbial genomics and proteomics	MB 306b	2021
	270	Molecular Cell biology and Technology	MB 401	2021
	270	Environmental Microbiology	MB 402	2021
	270	a) Pharmaceutical Microbiology	MB 403a	2021
	270	b) Industrial based microbial clean Technology	MB 403b	2021
	270	Molecular Cell biology and Technology and Environmental Microbiology & elective	MB 404	2021
	270	Microbial Production of Alcoholic beverages.	MB 406b	2021
M.S.C. INDUSTRIAL MICROBIOLOGY	268	Introductory Microbiology	IMB 101	2021
	268	Molecular Biology	IMB201	2021
	268	Recombinant DNA technology	IMB 202	2021
	268	Immunology	IMB 203	2021
	268	Medical Microbiology	IMB 204	2021
	268	Molecular Biology and Recombinant DNA Technology	IMB 205	2021
	268	Immunology and Medical Microbiology	IMB 206	2021
	268	Basics of Industrial Microbiology	IMB-301	2021
	268	Bioprocessing of Industrial Microorganisms	IMB-302	2021
	268	b) Downstream Processing	IMB-303b	2021
	268	Basics of Industrial Microbiology and Bioprocessing of Industrial Microbiology	IMB-304	2021
	268	Industrial Food Microbiology	IMB-305	2021
	268	b) Industrial Biotechnology	IMB-306b	2021

	268	Animal and plant cell culture	IMB-401	2021
	268	Industrial based Microbial clean technology	IMB-402	2021
	268	a) Industrial production of Microbial product b) Industrial Microbial Technology	IMB-403	2021
	268	Animal and plant cell culture and Industrial based Microbial clean technology	IMB-404	2021
	268	Bioethics, Biosafety and Intellectual property rights	IMB-406a	2021
Physics	242	Classical Mechanics and Theory of Relativity	242	2021
	242	Solid State Physics		2021
	242	Atomic and Molecular Physics		2021
	242	Optical, Microwave and Satellite Communications		2021
	242	Statistical Mechanics		2021
	242	EM Theory, Lasers & Modern Optics		2021
	242	Nuclear Physics		2021
	242	IC fabrication Techniques		2021
	242	Introductory Quantum Mechanics		2021
	242	Physics of Semiconductor Devices		2021
	242	Applied Spectroscopy		2021
	242	Condensed Matter Physics		2021
	242	Embedded Systems		2021
	242	Advanced Quantum Mechanics		2021
	242	Physics of Advanced Materials		2021
		242	Photonics	
	242	Solar Energy- Thermal and Photovoltaic Properties		2021
	242	Vacuum and Thin Film Technology		2021
M.Sc. Zoology	260	Tools & Techniques	ZOO-104A	2021
	260	Genetic Engineering	ZOO-104B	2021
	260	Bioinformatics & Biostatistics	ZOO-203B	2021
	260	Enzymology	ZOO-204A	2021
	260	Developmental Biology	ZOO-301	2021
	260	Practical - I	ZOO-105P	2021
	260	Practical - II	ZOO-106P	2021
	260	Practical - I	ZOO-205P	2021
	260	Practical - II	ZOO-206P	2021
	260	Practical - I	ZOO-304P	2021
	260	Economic Zoology	ZOO-305	2021
	260	Practical - I	ZOO-404P	2021
	260	Principles and Practices of Aquaculture	ZOO-405	2021

Animal Biotechnology	269	Molecular Biology	ABT-201	2017	
	269	Animal Cell Culture and Stem cell Biology	ABT-202	2017	
	269	Cell biology and Immunology	ABT-203A	2017	
	269	Toxicology	ABT-204A	2021	
	269	Animal Reproduction, Breeding and Transgenic Technology	ABT-302	2017	
	269	Bioinformatics and Biostatistics	ABT-303A	2017	
	269	Animal Biotechnology and Industrial Applications	ABT-306A	2017	
	269	Cancer Biology	ABT-306B	2017	
	269	Fermentation Technology and Down streaming Process	ABT-402	2017	
	269	Drug Design and Development	ABT-403-A	2017	
	269	Advanced Genomics and Proteomics	ABT-406A	2017	
	269	Animal Cell Culture Technique	ABT-406B	2017	
MCA	MCA 102	Object Oriented Programming with Java	MCA	2021	
	MCA 103	Computer Organization	MCA	2021	
	MCA 104	Operating Systems	MCA	2021	
	MCA 106 P	Software Lab I (based on 101 & 103)	MCA	2021	
	MCA 107 P	Object Oriented Programming Lab	MCA	2021	
	MCA 108 P	Operating Systems Lab	MCA	2021	
	MCA 201	Computer Oriented Operations Research	MCA	2021	
	MCA 202	Data Structure using Java	MCA	2021	
	MCA 203	Data Communication and Computer Networks	MCA	2021	
	MCA 204	Advanced Database Management System	MCA	2021	
	MCA 205 B	Cyber Security	MCA	2021	
	MCA 205 C	Neural Networks	MCA	2021	
	MCA 206 P	Software Lab II ( Based on 201 & 203)	MCA	2021	
	MCA 207 P	Data Structures Lab	MCA	2021	
	MCA 208 P	Advanced Database Management Systems Lab	MCA	2021	
	MCA 301	Software Engineering	MCA	2021	
	MCA 302	Computer Graphics	MCA	2021	
	MCA 303	Web Technologies	MCA	2021	
	MCA 304 A	304A.Data warehousing and Data mining	MCA	2021	
	MCA 304 B	304B.Big Data Analytics	MCA	2021	
	MCA 304 C	304C System Programming	MCA	2021	
	MCA 305A	305A. Cryptography and Network Security	MCA	2021	
	MCA 305 B	305B.Artificial Intelligence	MCA	2021	
	MCA 305 C	305C.Mobile Application Development	MCA	2021	
	MCA 308 P	Software Lab III (301&302)	MCA	2021	
	MCA 309 P	Web Technologies Lab	MCA	2021	
	MCA 401 A	Cloud Computing	MCA	2021	
	MCA 401 B	Dot Net Technologies	MCA	2021	
	MCA 401 C	Software Testing	MCA	2021	
	MCA 402 A	Essentials of Data Science	MCA	2021	
	MCA 402 B	Deep Learning	MCA	2021	
	MCA 402 C	Internet of Things	MCA	2021	
	MCA 403	Major Project Work	MCA	2021	
	MSCS	MSCS -102C	Programming in Java & Data Structures	253	2021
		MSCS -103C	Operating Systems	253	2021
		MSCS - 107P1	Practical Core Subject Lab - I	253	2021
MSCS - 108P2		Practical Core Subject Lab - II	253	2021	
MSCS -201C		Advanced Data Base Management System	253	2021	
MSCS -202C		Computer Networks	253	2021	
MSCS -203C		Computer Graphics	253	2021	
MSCS- 206EF		Internet Of Things	253	2021	
MSCS -301C		Data Warehousing And Data Mining	253	2021	
MSCS -302C		Web Technologies	253	2021	
MSCS -303C		Software Engineering	253	2021	
MSCS -304 A		Systems Programming	253	2021	
MSCS -304 B		Computer Algorithms	253	2021	
MSCS -304 C		UID Using .Net Technologies	253	2021	
MSCS -304 D		IT in Forensic Science	253	2021	
MSCS -304 E		Software Testing	253	2021	
MSCS -305 A		Cloud Computing	253	2021	
MSCS -305 B		Big Data Analytics	253	2021	
MSCS -305 C		Artificial Neural Networks	253	2021	
MSCS -305 D		Cyber Security	253	2021	
MSCS -305 E		Mobile App Development	253	2021	
MSCS – 401		Major Project Work	253	2021	

M.Com (Regular)	358	Accounting Standards and Reporting	101	2021
	358	Business Management and Policy	103	2021
		Quantitative Techniques for Business Decisions	105a	2021
	358	Business Communication Skills	106a	2021
		E-Banking Operations	206a	2021
	358	Financial Markets and Services	301	2021
		Security Analysis and Portfolio Management	303b	2021
	358	International Financial Management	401	2021
358	E-Commerce	403b	2021	
M.Com (A&F)	357	Accounting Standards and Reporting	101	2021
	357	Business Management and Policy	103	2021
		Quantitative Techniques for Business Decisions	105a	2021
	357	Business Communication Skills	106a	2021
		E-Banking Operations	206a	2021
	357	Financial Markets and Services	301	2021
		Security Analysis and Portfolio Management	303b	2021
	357	International Financial Management	401	2021
	357	E-Commerce	403b	2021
M.Com (FM)	355	Accounting Standards and Reporting	101	2021
	355	Business Management and Policy	103	2021
		Quantitative Techniques for Business Decisions	105a	2021
	355	Business Communication Skills	106a	2021
		E-Banking Operations	206a	2021
	355	Financial Markets and Services	301	2021
		Security Analysis and Portfolio Management	303b	2021
	355	International Financial Management	401	2021
	355	E-Commerce	403b	2021

  
 The Director  
 NAAC Committee  
 S.V. University  
 TIRUPATI - 517 502