

*GOVERNMENT COLLEGE FOR WOMEN (A),
GUNTUR*

OUT COMES

- A. Program Outcomes*
- B. Program Specific Outcomes*
- C. Course Out comes*



PRINCIPAL
GOVT. COLLEGE FOR WOMEN (A)
GUNTUR.

GOVERNMENT COLLEGE FOR WOMEN(A), GUNTUR

Programmes Offered

S.No	Name of the Programme	Program me Code	Programme details		
1	H.E.P.	101	HISTORY	ECONOMICS	POLITICS
2	H.P.FE	106	HISTORY	POLITICS	FINANCIAL ECONOMICS
3	E.P.CE	103	ECONOMICS	POLITICS	COMMUNICATIVE ENGLISH
4	E.P.Psy	105	ECONOMICS	POLITICS	PSYCHOLOGY
5	H.ST.Soc	102	HISTORY	SPECIAL TELUGU	SOCIOLOGY
6	H.SE.TTM	104	HISTORY	SPECIAL ENGLISH	TRAVEL & TOURISM MANAGEMENT
7	B.Com(General)	201	COMMERCE	COMMERCE	COMMERCE
8	B.Com(Computers)	202	COMMERCE	COMMERCE	COMPUTERS
9	B.Com(BFI)	203	COMMERCE	COMMERCE	BANKING AND FINANCIAL INSURANCE
10	M.P.C	301	MATHEMATICS	PHYSICS	CHEMISTRY
11	M.P.Cs	302	MATHEMATICS	PHYSICS	COMPUTERS
12	M.E.Cs	305	MATHEMATICS	ELECTRONICS	COMPUTERS
13	M.St.Cs	303	MATHEMATICS	STATISTICS	COMPUTERS
14	M.St.Mm	304	MATHEMATICS	STATISTICS	MULTIMEDIA
15	M.Cs.Mm	306	MATHEMATICS	COMPUTERS	MULTIMEDIA
16	M.Cs.Cc	307	MATHEMATICS	COMPUTERS	CLOUD COMPUTING
17	B.Z.C.(TM)	401	BOTANY	ZOOLOGY	CHEMISTRY
18	B.Z.C.(EM)	409	BOTANY	ZOOLOGY	CHEMISTRY
19	B.Bt.C	406	BOTANY	BIOTECHNOLOGY	CHEMISTRY
20	B.Bc.C	404	BOTANY	BIOCHEMISTRY	CHEMISTRY
21	Z.Bc.C	405	ZOOLOGY	BIOCHEMISTRY	CHEMISTRY
22	Bt.Bc.C	407	BIOTECHNOLOG Y	BIOCHEMISTRY	CHEMISTRY
23	Mb.B.C	402	MICROBIOLOGY	BOTANY	CHEMISTRY
24	Mb.Z.C	403	MICROBIOLOGY	ZOOLOGY	CHEMISTRY

25	HS	408	HOMESCIENCE
PG Program Details			
26	M.A. Telugu	PGTL	M.A Telugu
27	M.A. Economics	PGEC	M.A. Economics
28	M.Sc Chemistry	PGCH	M.Sc Chemistry
29	M.Sc Zoology	PGZO	Msc Zoology

**DEPARTMENT-WISE
PROGRAMME OUTCOMES
Program Specific Outcomes
BA-100: B A Programmes**

After completing the B A Programme, the student

1. 101: History-Politics-Economics

P Os:

- Develops into a political critique
- Develops historical outlook in all aspects
- Learns to participate in economical surveys

P S O: Develops Critical Thinking and awareness about society and its transactions

2. 102: Sociology-Special Telugu-History

P Os:

- Develops historical outlook in all aspects
- Understands the importance of Telugu language & about them in writing prose, poetry.
- Knows the importance of Society

P S O: Develops holistic history

3. 103: Economics-Politics-Communicative English

P Os:

- Develops Functional English Language Skills
- Provides Higher Order Thinking skills
- Prepares for higher education: Extended principles of economics in day today life.

P S O: Develops professional skills to become a news reporter or a teacher or an administrator/Economist.

4. 104: History-Special English-Tourism and Travel Management

P Os:

- Creates an interest and love towards English language by exposing the learner to the richness and glory of English Language
- Develops cross-disciplinary perspective of global issues
- Prepares them for various career prospects available to the students

P S O: Develops professional skills to become a journalist/writer/teacher

5. 105: Psychology-Economics-Political Science

P Os:

- Understands the value of Economics
- Knows how to assess people
- Develops insights about political conditions

P S O: Develops professional skills of a counselor

6. 106: History-Politics-Financial Economics

P Os:

- Develops Historical knowledge by analyzing multiple cultures
- Understands Political process and critically examines the society.
- Knows about Financial instruments and Finance markets

P S O: Develops skills to become financial advisor, administrator

B Com-200: B Com Programmes

After completing the B Com Programme, the student

1. 201: B Com (General)

P Os:

- Understands the qualities of an Entrepreneur
- Develops the skills of an Accountant
- Knows how to be a Tax consultant

P S O: Develops skills to become an expert in Business and Consultancy Services

2. 202: B Com (Computers)

P Os:

- Understands the qualities of an Entrepreneur
- Develops the skills of an Accountant
- Uses computer background for accounting purpose

P S O: Develops skills to become an expert in Accounts and Tally

BSC-300,400: B Sc Programmes

After completing the B Sc Programme, the student

1. 301: Mathematics-Physics-Chemistry

P Os:

- Solves Mathematical problems
- Develops scientific outlook
- Analyzes different chemical compositions in medicines and nature

P S O: Develops skills to become a scientist or a teacher

2. 302: Mathematics-Physics-Computers

P Os:

- Develops Mathematical skills
- Practices Computer Programming
- Analyzes Physical concepts

P S O: Solves mathematical and physical problems by becoming a computer programmer/teacher

3. 303: Mathematics-Statistics-Computers

P Os:

- Develops Analytical and Mathematical skills
- Applies Statistics in different fields
- Practices Computer Programming

P S O: Helps to become a statistician or a computer programmer

4. 304: Mathematics-Statistics-Multimedia

P Os:

- Develops Mathematical skills
- Applies Statistics in different fields
- Practices Computer graphic designing

P S O: Settles as multimedia developer or a studio designer

5. 305: Mathematics-Electronics-Computers

P Os:

- Develops Mathematical skills
- Practices Computer Programming
- Designs circuits for different purposes

P S O: Develops skills to become a computer programmer

6. 306: Mathematics-Computers-Multimedia

P O:

- Develops Mathematical skills
- Applies Statistics in different fields
- Practices Computer graphic designing

P S O: Becomes a Computer programmer or statistical analyst

7. 307: Mathematics-Computers-Cloud computing

P Os:

- Develops Mathematical skills
- Applies Cloud computing techniques
- Practices Computer programming

P S O: Develops skills to become a data analyst

8. 409&401: Botany-Zoology-Chemistry

P Os:

- Develops Seed technology and Agro farms
- Practices Aqua culture and adapts management techniques in Dairy and Poultry farms
- Applies practical knowledge in chemical laboratories

P S O: Becomes an agricultural scientist or pharmaceutical scientist

9. 402: Microbiology-Botany-Chemistry

P Os:

- Understands scientific methods.
- Develops observation and critical analysis skills
- Demonstrates practical skills in the use of tools, technologies and methods common to microbiology, Botany and chemistry.

P S O:

- Learns skills required for pharmaceutical & bioprocessing industries and in the field of Agriculture
- Encourages to pursue higher education in the fields of applied life sciences.
- Becomes a microbiologist

10. 403: Microbiology-Zoology-Chemistry

P Os:

- Understands scientific methods which help them to develop observation and critical analysis skills
- Demonstrates practical skills in the use of tools, technologies and methods common to microbiology, Zoology and chemistry.

P S O:

- Learns skills required for pharmaceutical & bio processing industries and in the field of health care.
- Encourages to pursue higher education in the fields of applied life sciences.
- Becomes a microbiologist

11. 404: Botany-Biochemistry-Chemistry

P Os:

- Develops seed technology and agro farms
- Analyses samples and carryout biochemical and molecular diagnostics.
- Evaluates chemical compositions of compounds

P S O: Becomes a chemical analyst

12. 405: Zoology-Biochemistry-Chemistry

P Os:

- Develops clinical techniques in diagnostic investigations
- Analyses samples and carryout biochemical immunological and molecular diagnostics.
- Practices mechanism for chemical reactions and demonstrates them in laboratory

P S O: Becomes a Lab scientis.

13. 406: Botany-Biotechnology-Chemistry

P Os:

- Understands scientific methods and develops observation and critical thinking
- Demonstrates practical skills in the use of tools, technologies and methods common to Botany-Biotechnology chemistry.
- Able to work in Plant Biotechnology and Plant breeding laboratories.

P S O: Inspires to pursue higher education in Biotechnology and interdisciplinary courses

14. 407: Biotechnology-Biochemistry-Chemistry

P Os:

- Understands scientific methods and develops observation and critical thinking
- Demonstrates practical skills in the use of tools, technologies and methods common to Biochemistry -Biotechnology chemistry.
- Able to work in Molecular Diagnostics laboratories

P S O: Inspires to pursue higher education in Biotechnology and interdisciplinary courses

408: Home Science

P Os:

- Analyses Child psychology
- Understands the role of dietitian in society
- Improves small scale Entrepreneurship skills

P S O: Becomes a nutritional guide and child care specialist/ entrepreneur.

DEPARTMENT-WISE PG PROGRAMME OUTCOMES

PROGRAMME SPECIFIC OUTCOMES

After completing the PG Programme, the student

1. PGCH: M. Sc. Chemistry

P Os:

- Develops knowledge about fundamental aspects of all the elements of chemistry such as Organic, Inorganic, Physical and Quantum chemistry.
- Learns the practical skills which are useful in scientific research and industrial field.
- Demonstrates an understanding of major concepts of organic chemistry

P S O: Develops skills to become a teacher or researcher in chemistry/pharmaceutical/food products/material industries.

2. PGZO: M. Sc. Zoology

P Os:

- Expands their knowledge with respect to Animal diversity and various branches of applied zoology
- Inculcates awareness and concern towards surroundings, environment and biodiversity
- Develops the practical skills involved in biological techniques and scientific investigation so as to work in related fields

P S O: Develops skills required to work in aquaculture industry, school/Intermediate/UG colleges, and Diagnostic laboratories.

3. PGTE: M. A. Telugu

P Os:

- Improves listening, speaking, reading and writing skills
- Develops analytical skills
- Becomes professional in grammar and linguistics

P S O: Develops professional skills to become lecturer/teacher/writer/editor/news reader and for becoming entrepreneur like event manager

4. PGEC: M. A. Economics

P Os:

- Understands core economic terms, concepts and theories
- Develops in-depth knowledge about functioning of domestic and global economics
- Improves skills to perform economic analysis for both micro and macro economics

P S O: Applies economic analysis to everyday problems in real life, understands current events and evaluate specific policy

COURS OUT COMES

Government College for Women(A), Guntur

S.No	Programme& Code	Course	Sem	Course Code	Course Name
1	BA-100	History	I	HIS1101	ANCIENT INDIAN HISTORY
2			II	HIS2101	INDIAN HISTORY AND CULTURE
3			III	HIS3101	LATE MEDIVAL AND COLONIAL HISTORY OF INDIA
4			IV	HIS4101	SOCIAL REFORM MOMENT AND SOCIAL STRUGGLE
5			V	HIS5101	EARLY MODERN WORLD HISTORY
6				HIS5101 E1	HISTORY AND CULTURE OF ANDHRA
7			VI	HIS6101	HISTORY OF MODERN WORLD
8				HIS6101 E1	HISTORY OF MODERN ANDHRA
9		Economics	I	ECO1103	MICRO ECONOMICS-I
10			II	ECO2103	MICRO ECONOMICS-II
11			III	ECO3103	MACRO ECONOMICS-I
12			IV	ECO4103	MACRO ECONOMICS-II
13			V	ECO5103	Economic Development
14				ECO5103 E1	India &Ap economy
15			VI	ECO6103	INDIAN ECONOMY
16				ECO6103 E1	QUANTITATIVE TECHNIQUES
17		Financial Economics	I	FE1105	ECONOMIC THEORY
18			II	FE2105	MACRO ECONOMICS
19			III	FE3105	QUANTITATIVE TECHNIQUES-1
20			IV	FE4105	QUANTITATIVE TECHNIQUES-II
21			V	FE5105	FINANCIAL INSTITUTIONS AND MARKETS
22				FE5105 E1	ECONOMICS OF INSURANCE
23			VI	FE6105	FINANCIAL INSTITUTIONS AND MARKETS
24				FE6105 E1	ESSENTIALS OF GENERAL INSURANCE
25		Political Science	I	POL1102	BASIC CONCEPTS OF POLITICAL SCIENCE
26			II	POL2102	CONCEPTS THEORIES AND INSTITUTIONS
27			III	POL3102	INDIAN POLITICAL SYSTEM
28			IV	POL4102	DYNAMICS OF INDIAN GOVERNMENT
29			V	POL5102	POLITICAL THOUGHT
30				POL5102 E1	INTRODUCTION AND APPROACHES OF PUBLIC ADMINISTRATION
31			VI	POL6102	WESTERN POLITICAL THOUGHT
32				POL6102 E1	PRINCIPLES OF PUBLIC ADMINISTRATION
33		Sociology	I	SOC1109	BASIC CONCEPTS OF SOCIOLOGY

34			II	SOC2109	SOCIOLOGY OF INDIAN SOCIETY
35			III	SOC3109	SELECTED SOCIOLOGICAL THEORIES
36			IV	SOC4109	METHODS OF SOCIAL RESEARCH
37			V	SOC5109	MODERN INDIA SOCIAL CHANGES AND DEVELOPMENT, ISSUES
38				SOC5109 E1	APPLICATIONS OF SOCIOLOGY
39			VI	SOC6109	SOCIAL CHANGE LEGISLATION IN MODERN INDIA
40				SOC6109 E1	ADVANCED APPLICATIONS OF SOCIOLOGY
41		Psychology	I	PSY1110	General Psychology-1
42			II	PSY2110	General Psychology-2
43			III	PSY3110	SOCIAL PSYCHOLOGY
44			IV	PSY4110	SOCIAL PSYCHOLOGY
45			V	PSY5110	EDUCATIONAL PSYCHOLOGY
46				PSY5110 E1	ABNORMAL PSYCHOLOGY
47			VI	PSY6110	EDUCATIONAL PSYCHOLOGY
48				PSY6110 E1	ABNORMAL PSYCHOLOGY
49		Communicative English	I	CE1104	An Introduction to Language and Language Skills-I
50			II	CE2104	An Introduction to Language and Language Skills-II
51			III	CE3104	Functional Grammar for Effective Writing and Speaking
52			IV	CE4104	Writing Skills and Strategies
53			V	CE5104	An Introduction to the History of the English Language
54				CE5104 E1	An Introduction to English Language Teaching
55			VI	CE6104	English Language Teaching: Communicative Approach
56				CE6104E1	An Introduction to the Genres of English Literature
57		Special English	I	SE1107	An Introduction to English Literature -I
58			II	SE2107	An Introduction to English Literature -II
59			III	SE3107	An Introduction to English Literature -III
60			IV	SE4107	An Introduction to English Literature -IV
61			V	SE5107	An Outline of 20th century Literature
62				SE5107 E1	Glimpses of World Literature
63			VI	SE6107	An Introduction to the Genres of English Literature
64				SE6107 E1	American Literature-I
65		Special Telugu	I	ST1106	Prachina Kavithvamu, Natakamu

66			II	ST2106	Adhunika kavithvamu
67			III	ST3106	KAVI YUGAMULU (PRAGNANNAYA TO PRABANDHA)
68			IV	ST4106	KAVI YUGAMULU (DAKSHINAANDHRA)
69			V	ST5106	BALA VYAKARANAM,
70				ST5106E1	BALA VYAKARANAM,
71			VI	ST6106	Literary Criticism
72				ST6106E1	Literary Criticism
73		Travel & Tourism	I	TTM1108	Tourism Principles and practices
74			II	TTM2108	TOURISM RESOURCES OF AP
75			III	TTM3108	TOURISM POLICY PLANNING AND DEVELOPMENT
76			IV	TTM4108	TRAVEL MANAGEMENT
77			V	TTM5108	TRAVEL AGENCY AND TOURISM DEVELOPMENT
78				TTM5108 E1	GEOGRAPHY FOR TOURISM
79			VI	TTM6108	TRAVEL AGENCY AND TOURISM DEVELOPMENT
80				TTM6108 E1	AP TOURISM
81	B.Com-200	Commerce Subjects	I	FA1202	FUNDAMENTALS OF ACCOUNTING
82				BO1203	BUSINESS ORGANIZATION
83				BE1201	BUSINESS ECONOMICS-1
84			II	BE2201	BUSINESS ECONOMICS
85				BEN2203	BUSINESS ENVIRONEMT
86				FA2202	FUNDAMENTALS OF ACCOUNTING-2
87			III	CA3201	Corporate Accounting
88				BS3202	BUSINESS STATISTICS
89				BAN3203	BANKING THEORY AND PRACTICE
90			IV	BL4201	Business Law
91				ASO4202	ACCOUNTING FOR SERVICE ORGANIZATION
92				IT4205	INCOME TAX
93			V	BL5201	Business Law
94				CMA5202	Cost and management Accounting
95				AUD5203	Auditing
96				CA5204	Corporate Accounting
97				ACA5205	Advanced Corporate Accounting
98				MA5206	Management Accounting
99			VI	BL5201	Business Law
100				CMA5202	Cost and management Accounting
101				AUD5203	Auditing
102				CA5204	Corporate Accounting
103				ACA5205	Advanced Corporate Accounting
104				MA5206	Management Accounting

105		Banking & Financial Insurance	I	CAR(EM)1204	Computer Fundamentals & Data analytics
106				CAR(EM)2204	Tally
107		Computers Subjects	I	CAR1207	Computer fundamentals and photoshop
108			II	CAR2207	ERP
109			III	CAR3207	OAT
110			IV	CAR4207	E-Commerce-1
111			V	CAR5207	Multimedia with photoshop
112				CAR5207E1	E-Commerce -2
113			VI	CAR6207	HTML and dream weaver
114				CAR6207E1	Flash
115	Languages	Telugu	I	TEL1002	Old poetry, Modern Poetry and story
116			II	TEL2002	Old poetry, Modern Poetry and story, NAVALA
117			III	TEL3002	PRACHEENA KAVITHVAMU, NATAKAMU
118		English	I	ENG1001	GENERAL ENGLISH
119			II	ENG2001	GENERAL ENGLISH
120			III	ENG3001	GENERAL ENGLISH
121		Hindi	I	HIN1004	Non Detailed Grammer, Translation & Letter writing
122			II	HIN2004	Non Detailed Grammer, Translation & Letter writing
123			III	HIN3004	History of hindi literature, KavyaDeep, General Essay
124		Urdu	I	URD1005	URDU-1
125			II	URD2005	URDU-2
126			III	URD3005	URDU-3
127		Sanskrit	I	SAN1003	Prose, Poetry and Grammar-1
128			II	SAN2003	Prose, Poetry and Grammar-II
129			III	SAN3003	Drama, Upanishad, prose, Alankaras, History of Sanskrit Literature and Grammar
130	BSC-300,400	Botany	I	BOT1306	Microbial Diversity ,Algae and Fungi
131			II	BOT2306	Diversity of Archegoniate and Plant Anatomy
132			III	BOT3306	Plant taxonomy and Embryology
133			IV	BOT4306	Plant physiology and Metabolism
134			V	BOT5306	Cell biology and genetics
135				BOT5306E1	Seed technology and horticulture
136			VI	BOT6306	Plant Physiology.
137				BOT6306E1	Environmental biology and Biodiversity

138		Computer Science	I	CSC 1304	Computer fundamentals & Photoshop
139			II	CSC 2304	Programming in C
140			III	CSC3304	Programming in Java
141			IV	CSC 4304	Data Structures
142			V	CSC 5304 E1	Operating Systems
143				CSC 5304	Database management System
144			VI	CSC 6304	PHP MySQL, Apache
145				CSC 6304 E1	Software Engineering
146		Multimedia	I	MUL 1314	Graphic Designing
147			II	MUL 2314	Web Designing of basics
148			III	MUL 3314	2D Animation
149			IV	MUL 4314	Working on maya
150			V	MUL 5314	Character Animation
151				MUL 5314 E1	Advanced Character Animation
152			IV	MUL 6314	Facial Animation and blend shapes
153				MUL 6314 E1	3D animation Project
154		Cloud Computing	I	CC1317	Basics and services of Cloud Computing
155			II	CC2317	SaaS, PaaS, IaaS in Cloud computing
156		Mathematics	I	MAT1301	Differential equations
157			II	MAT2301	Three Dimensional geometry
158			III	MAT3301	Groups, Differentiation of Vectors, Differential operators
159			IV	MAT4301	Real Analysis
160			V	MAT5301	Rings, Vector space, Basis and dimension, linear transformation, inner product
161				MAT5301E1	Numerical Analysis-A
162			VI	MAT6301	Inner product spaces and Vector Integration
163				MAT6301E1	Numerical Analysis-B
164		Statistics	I	STA1305	DISCRIPTIVE STATISTICS AND PROBABILITY
165			II	STA2305	DISTRIBUTION
166			III	STA3305	THEORY OF ESTIMATION
167			IV	STA4305	TESTING OF HYPOTHESIS
168			V	STA5305	SAMPLING AND DESIGN OF EXPERIMENT
169				STA5305 E1	OPERATION RESEARCH
170			VI	STA6305	APPLIED STATISTICS
171				STA6305 E1	QUALITY AND RELIABILITY
172		Physics	I	PHY1302	Mechanics
173			II	PHY2302	Waves and Oscillations
174			III	PHY3302	Thermodynamics
175			IV	PHY4302	Optics
176			V	PHY5302	Electricity, Magnetism and

					Electromagnetics
177				PHY5302E1	Solid State Physics
178			VI	PHY6302	Elements of Modern Physics
179				PHY6302E1	Analog and Digital Electronics
180	Electronics	I		ELE1315	BASIC CIRCUIT THEORY
181		II		ELE2315	ELECTRONIC DEVICES AND CIRCUITS
182		III		ELE2315	DIGITAL ELECTRONICS
183		IV		ELE2315	ANALOG AND DIGITAL APPLICATIONS
184		V		ELE5315	MICRO PROCESSOR -1
185				ELE5315 E1	Embedded Systems-1
186		VI		ELE6315	Microprocessors-II
187				ELE6315E1	Embedded Systems-II
188	Chemistry	I		CHE1303	Inorganic and Organic chemistry
189		II		CHE2303	Physical and general chemistry
190		III		CHE3303	General and organic chemistry
191		IV		CHE4303	Inorganic and physical chemistry
192		V		CHE5303	Inorganic,organic and physical chemistry-1
193				CHE5303E2	Molecular spectroscopy and Macromolecules
194		VI		CHE6303	Inorganic,organic and physical chemistry-2
195				CHE6303E1	Qualitative and quantitative aspect analysis, separation techniques,spectrophotometry
196	Zoology	I		ZOO1307	Biology of Nonchordates
197		II		ZOO2307	Biology of chordates
198		III		ZOO3307	Cell biology , Genetics and Evolution
199		IV		ZOO4307	Embryology, physiology and ecology
200		V		ZOO5307	Animal Physiology , evolution and zoogeography
201				ZOO5307 E1	Fisheries& Aqua culture
202		VI		ZOO6307	Animal Physiology & genetics
203				ZOO6307 E1	Clinical Science and animal Biotechnology
204	Bio Chemistry	I		BC1309	Biomolecules-1
205		II		BC2309	Proteins and Enzymes
206		III		BC3309	Bioenergetics and biochemical techniques
207		IV		BC4309	Intermediary metabolism
208		V		BC5309	Molecular biology
209				BC5309E1	Endocrinology and clinical biochemistry
210		VI		BC6309	Immunology
211				BC6309E1	Genetic Engineering and

					Bioinformatics
212		Bio Technology	I	BT1310	Microbiology and cell biology
213			II	BT2310	Macromolecules, Enzymology and bioenergies
214			III	BT3310	Biophysical Techniques
215			IV	BT4310	Fundamentals of microbiology and immunology
216			V	BT5310	Molecular biology
217				BT5310E1	Plant and Animal biotechnology
218			VI	BT6310	Genetic engineering
219				BT6310E1	Industrial and Environmental biotechnology
220		Micro Biology	I	MB1308	Introduction to Microbiology and microbial diversity
221			II	MB2308	Microbial Biochemistry and Metabolism
222			III	MB3308	Microbial Psychology and Metabolism
223			IV	MB4308	Microbial genetic and molecular biology
224			V	MB5308	Immunology
225				MB5308E1	Environmental and Agricultural microbiology
226			VI	MB6308	Medical Microbiology
227				MB6308E1	Food and Industrial Microbiology
228		HOME SCIENCE	I	HS1311	Basic nutrition
229				HS1312	Human physiology
230				HS1313	Microbiology
231			II	HS2311	Food science
232				HS2312	Fundamentals of family nutrition
233				HS2313	Growth and development in life span
234			III	HS3311	Nutritional biochemistry
235				HS3312	Food preservation
236				HS3313	Extension Education
237			IV	HS4311	Housing and Interior decoration
238				HS4312	Community nutrition
239				HS4313	Diet therapy-1
240			V	HS5311	Diet therapy -2
241				HS5312	Diffusion and adoption
242				HS5313	Textile science
243				HS5314E1	Bakery and Confectionery
244				HS5315E1	Early childhood education
245				HS5316E1	Enterpreunership developmnet
246			VI	HS6311	Diet counselling
247				HS6312	Training and HRD

248				HS6313	Tye and Dye
249				HS6314E1	General Psychology
250				HS6315E1	Counselling psychology
251				HS6316E1	Resource management
252	Extra Courses	Foundation Courses	I	HV1007	Human Values and Professional Ethics
253			I	ES2008	Environmental Studies
254			II	CSS	Communication Skills and Soft Skills - I
255			II	ICT2006	ICT
256			III	CSS	Communication Skills and Soft Skills - II
257			III	ICT3006	ICT
258			IV	CSS	Communication Skills and Soft Skills - III
259			IV	LSE	Leadership Education
260			IV	ENT	Entrepreneurship
261			IV	AS	Analytical Skills
262		Add on course	I	PWD	Photoshop and Web Designing
263		Certificate Courses		CC 108 AFM	AQUARIUM FISHES & MANAGEMENT
264				CC 109 SH	SPOKEN HINDI
265				CC112SA	SOIL ANALYSIS
266				CC 102 JM	JOURNALISM
267				CC 112 WA	WATER ANALYSIS
268				CC113NG	NURSERY AND GARDENING
269				CC114ALA	ALANKARAS
270				CC 115 SM	STRESS MANAGEMENT
271				CC116 ICPS	INTEGRATED CHILD PROTECTION SCHEME
272				CC117VC	VERMICULTURE
273				CC118BSQA	BASIC SKILLS IN QUANTITATIVE APTITUDE
274				CC119CM	COMPUTATIONAL METHODS
275				CC120ECE	ENGLISH FOR COMPETITIVE EXAMINATIONS
276				CC113BFOF	BIOFERTILIZERS AND ORGANIC FARMING
277	M.Sc	Zoology	SEM-1	Z101	Structure and function of Invertebrates and vertebrates
278				Z102	Biodiversity and systematics
279				Z103	Developmental Biology
280				Z104	Molecular cell biology
281			SEM-II	Z201	Genetics and Evolution
282				Z202	Comparative animal physiology
283				Z203	Principles of ecology
284				Z204	Tools and Techniques in biology
285				NCZ 205	Concepts of Animal science

286			SEM-III	Z301	Animal biotechnology
287				Z302	Ichthyology
288				Z303	Limnology
289				Z304	Aquatic Toxicology
290				NCZ 305	Applied Zoology
291			SEM-IV	Z401	Fish Pathology
292				Z402	Immunology
293				Z403	Aquaculture
294				Z404	Acquacultural Management
295	M.A.	Economics	SEM-I	EC1.1	Micro Economic theory-1
296				EC1.2	Microeconomics
297				EC1.3	Public Finance
298				EC1.4	Evaluation of Economics Doctrines
299				NCEC1.5	Mathematical Methods
300			SEM-II	EC2.1	Micro Economic theory-II
301				EC2.2	Monetary Economics
302				EC2.3	International Economics
303				EC2.4	Public Finance Administration
304				EC2.5	Statistical Methods
305				NCEC2.6	Indian Constitution and welfare Administration
306			SEM-III	EC3.1	Economics Growth and Development
307				EC3.2	Indian Economy
308				EC3.3	Environmental Economics
309				EC3.4	Computer Applications in Economics
310				EC3.5	Labour Economics
311				EC3.6	Indian Government and Politics
312			SEM-IV	EC4.1	Indian Foreign Trade
313				EC4.2	Industrial Economics
314				EC4.3	Agricultural Economics
315				EC4.4	Economics of Infrastructure
316				EC4.5	Financial Markets and Analysis
317	M.A.	Telugu	SEM-I	T.1.1	Sampradayaka sahithyam-Natakam
318				T.1.2	Bhasha sasthra Parichayam
319				T.1.3	Telugu Sahitya charithra
320				T.1.4	Bala Vyakaranam
321				T.1.5	Adhunika kavitha Dhoranulu
322			SEM-II	T.2.1	Adhunika Kavithvamu
323				T.2.2	Charithraka Bhasha sasthramu
324				T.2.3	Sahitya Charitra
325				T.2.4	Bala Vyakaranam-2
326				T.2.5	Adhunika kavitha Dhoranulu
327			SEM-III	T.3.1	Sampradaya sahitya vimarsa
328				T.3.2	Telugu Bhasha Vikasam

329				T.3.3	Janapada Sahityam
330				T.3.4	Proudha Vyakaranam- Chandolankaralu
331				T.3.5	Telugu Sahityam- Mahilabhyudayam
332			SEM-IV	T.4.1	Telugu Samskruthi
333				T.4.2	Adhunika Bhasha Nirmanam
334				T.4.3	Telugu Navala -Kadhanika
335				T.4.4	Sanskrit
336				T.4.5	Madhyamalu- Rachana Vidhanam
337	M.Sc	Chemistry	SEM-1	CH 101	General Chemistry
338				CH 102	Inorganic Chemistry
339				CH 103	Organic Chemistry
340				CH 104	Physical Chemistry
341			SEM-II	CH201	General Chemistry
342				CH202	Inorganic Chemistry
343				CH203	Organic Chemistry
344				CH204	Physical Chemistry
345			SEM-III	CH301	Organic spectroscopy-1
346				CH302	Organic synthesis,mechanism and Nano chemistry
347				CH303	Alkaloids and Phenothiazines
348				CH304	Chemistry and natural products
349			SEM-IV	CH401	Organic spectroscopy-2
350				CH402	Organic synthesis,mechanism and Green chemistry
351				CH403	Antibiotics and drugs
352				CH404	Techniques for Modern industrial applications

UG COURSE OUTCOMES
DEPARTMENT OF ENGLISH

GENERAL ENGLISH

ENG1001: General English

A student who studies this course

- Develops an interest in improving Listening, Speaking, Reading and Writing skills of the target language
- Acquaints with various strategies of language learning
- Identifies the values inherent in the prescribed prose and poetry pieces

ENG2001: General English

A student who studies this course

- Takes challenges of Listening and Reading
- Will have a better understanding of human experience
- Receives training in moral education

ENG3001: General English

A student who studies this course

- Demonstrates competencies in Listening, Speaking, Reading and writing skills
- Utilizes the English language skills for a better understanding of the remaining subjects
- Appreciates the role and importance of Language as a means of passing on information, thoughts, emotions and feelings

COMMUNICATIVE ENGLISH

CE1104: An Introduction to Language and Language Skills-I

A student who studies this course

- Knows about the origin and Development of Human language
- Understands speech mechanism, organs of speech, place and manner of articulation and improves his pronunciation
- Interprets Language functions and uses language in different simulated

CE2104: An Introduction to Language and Language Skills-II

A student who studies this course

- Gets introduced to the elements of linguistics such as Morphology, syntax, Semantics, Stylistics
- Develops speaking skills by knowing about supra segmental factors of a language
- Understands the aspects of Academic Writing and learns to express his views in writing

CE3104: Functional Grammar for Effective Writing and Speaking

A student who studies this course

- Acquires Language skills such as asking questions, describing people and places
- Receives training in interview skills such as Telephone Conversation
- Adapts basic writing skills required for employment in the form of letter writing and Resume preparation

CE4104: Writing Skills and Strategies

A student who studies this course

- Practices writing strategies such as Note-making, summarizing and paraphrasing
- Expresses opinions and views by writing an essay or a report and will be able to expand the given idea

CE5104: An Introduction to the History of the English Language

A student who studies this course

- Knows about the history of English Language
- Understands the different periods in the development of English
- Exposes to the contribution of various writers in enriching English

CE5104E1: An Introduction to English Language Teaching

A student who studies this course

- Knows about the phenomenon of second language acquisition
- Familiarizes with aspects of Teaching English Language such as lesson planning, Audio-visual Aids and Evaluation

CE6104: English Language Teaching: Communicative Approach

A student who studies this course

- Knows about the effectiveness of Communicative Approach in the teaching of a language
- Understands activity based class room teaching such as pair work and group work
- Becomes skilled with the techniques of class room management

CE6104E1: An Introduction to the Genres of English Literature

A student who studies this course

- Understands the evolution of different genres of poetry, drama, prose and fiction
- Gets introduced to the elements of literary criticism
- Appreciates the social responsibility of literature

SPECIAL ENGLISH

SE1107: An Introduction to English Literature -I

A student who studies this course

- Acquires knowledge about the Origin and Development of English Language
- Understands the influence of various foreign languages on English
- Interprets certain literary terms such as Ballad, Epic, Romance, Ode etc.
- Gets familiarized with Early English writers

SE2107: An Introduction to English Literature -II

A student who studies this course

- Knows about Elizabethan and Jacobean Periods in the History of English Literature
- Familiarizes with Literary terms such as Simile, Metaphor and Personification etc.
- Gets introduced to William Shakespeare and other major writers of the 15th and 16th Century

SE3107: An Introduction to English Literature -III

A student who studies this course

- Knows about Restoration and Augustan Periods in the History of English Literature
- Understands Literary terms such as Satire, Mock-epic, Heroic Couplet etc.
- Enlightens to writers of the 17th and 18th Century

SE4107: An Introduction to English Literature -IV

A student who studies this course

- Knows about Romantic and Victorian Periods in the History of English Literature
- Understands Literary terms such as Biography, Autobiography and Melodrama etc.
- Acquaints with Romantic school of poetry
- Accustoms to prose writers of the Victorian Period

SE5107: An Outline of 20th century Literature

A student who studies this course

- Perceives the features of 20th century English Literature
- Understands literary terms such as Free verse, point of view etc.
- Discusses the writings of George Orwell, Philip Larkin, D H Lawrence and others

SE5107E1: Glimpses of World Literature

A student who studies this course

- Gets introduced to New Literatures produced in English in other than English speaking countries
- Develops an interest to study the famous literary works produced across the world
- Comes to know about Post Colonial Writings in English Literature

SE6107: An Introduction to the Genres of English Literature

A student who studies this course

- Understands the evolution of different genres of poetry, prose and drama
- Gets introduced to the elements of Literary Criticism
- Appreciates the social responsibility of literature

SE6107E1: American Literature-I

A student who studies this course

- Acquires knowledge about English literature of America
- Understands literary terms such as Biographical criticism, Sociological criticism, Post colonial criticism etc.
- Familiarizes with the American writers of poetry, fiction and drama

Foundation Courses / Value Added Courses:

CSS2008: Communication and Soft skills-I

A student who studies this course

- Improves in grammar and vocabulary
- Knows about Listening and Reading as Language Skills

CSS3008: Communication and Soft skills-II

A student who studies this course

- Demonstrates good speaking skills with correct pronunciation, stress and Intonation
- Knows about and participates in Group Discussion, Role-play using target language
- Performs better in Public Speaking

CSS4008: Communication and Soft skills-III

A student who studies this course

- Internalizes soft skills such as Positive Thinking, Emotional Intelligence, and aspects of Body Language
- Practises writing skills such as Paragraph writing, Paraphrasing, Summarizing and Report Writing

DEPARTMENT OF TELUGU

GENERAL TELUGU

TEL1002: Old poetry, Modern Poetry and Story

A student who studies this course

- Enjoys the classic õMahabharathamö, observes the values hidden in the stories and also in the language aspect that vary by the ages/poets/writers
- Learns about genres of time reflecting different issues of the society
- Becomes familiarised to different styles of writers and different dialects of the language

TEL2002: Old poetry, Modern Poetry and Story, Navala

A student who studies this course

- Understands qualities of prabandha yugam and effect of the luxurious living of 16th century/Sri Krishnadevaraya yugam
- Appreciates Telugu literature and understands the reflection of social issues in writings of modern poetry and short stories

TEL3002: Pracheena Kavithvamu, Natakamu

A student who studies this course

- Familiarizes to poets like pothana and koravi Goparaju and analyses the uniqueness of their poetry
- Understands all the aspects of our mother tongue and its importance for our existence

SPECIAL TELUGU

ST1106: Classical poetry and Drama

A student who studies this course

- Builds personality through study of old/classical poetry
- Develops social awareness through study of plays
- Appreciates sweetness of poetic form of literature

ST2106: Modern poetry and Satakas

A student who studies this course

- Appreciates sweetness of poetic form of literature
- Promotes awareness of moral values through study of Satakas

ST3106: History of Telugu literature (Pragnannaya to Prabandhayuga)

A student who studies this course

- Analyses the changes in literature with changing time
- Familiarizes with the writings of various writers and poets
- Understands the social milieu of the relevant times and influences of writer's creation on the social environment

ST4106: History of Telugu literature (Dakshinandhra yuga and modern literature)

A student who studies this course

- Improves the thinking towards reformations in the society, social changes, humanism and equality
- Promotes social alertness by the demonstrating various progressive and revolutionary literary work of various writers
- Understands the emergence of new aspects through the development and evolution of various forms like novels, short stories and plays

ST5106: Balavyakaranam and Alankaras

A student who studies this course

- Learns the basic concepts of grammar
- Knows about Alankaras

ST5106E1: Literary criticism

A student who studies this course

- Knows definitions of kaavya given by Indian and western Critics
- Learns about Rasa swarupam and Rasa nishta

ST5106E2: Principles of literary Criticism, Modern literary forms and Alankaras

A student who studies this course

- Improves knowledge among the students about criticism theories
- Learns about modern literary forms
- Familiarizes with Alankaras

ST6106: Linguistics and Prosody

A student who studies this course

- Understands the evolution of Telugu language
- Insights into Dravidian languages
- Develops awareness about Prosody

ST6106E1: Literary criticism

A student who studies this course

- Acquires knowledge about fine arts and modern literary Forms
- Develops awareness about Dasavidharoopakalu
- Understands the genesis of Kavya and its benefits

ST6106E2: Art of translation/Practical translation

A student who studies this course

- Practices translations with naturalness, accuracy and clarity
- Imparts practical training in translation

DEPARTMENT OF SANSKRIT**SAN1003: Prose, Poetry and Grammar-I**

A student who studies this course

- Develops Listening, Reading, Speaking and Writing skills in Sanskrit
- Appreciates ancient Sanskrit literature and its importance
- Recites Slokas from old literature
- Recites Sabdas and Dhaathus in Sanskrit grammar

SAN2003: Prose, Poetry and Grammar-I

A student who studies this course

- Develops Listening, Reading, Speaking and Writing skills in Sanskrit
- Appreciates ancient Sanskrit literature and its importance
- Recites Slokas from old literature
- Improves in grammar and vocabulary

SAN3003: Drama, Upanishad, prose, Alankaras, History of Sanskrit Literature and Grammar

A student who studies this course

- Develops Listening, Reading, Speaking and Writing skills in Sanskrit
- Appreciates ancient Sanskrit literature and its importance
- Knows about Sanskrit Dramas and Upanishads
- Knows about alankaras such as Upama, Ananvaya, Uthpreksha, etc.
- Improves in grammar and vocabulary

DEPARTMENT OF URDU**URD1005: Urdu-1**

A student who studies this course

- Develops Listening, Speaking, Reading and Writing skills in Urdu
- Appreciates Urdu literature and recites them
- Gets introduced to Navya Shivala and Faiz Ahmad Faiz poetry
- Knows about regional equality in society

URD2005: Urdu-2

A student who studies this course

- Develops fluency in writing and speaking
- Practises accuracy in prose by analyzing Behes vo Jakrar

URD3005: Urdu-3

A student who studies this course

- Gets introduced to *Dasthaan* by Shuru Khissa
- Develops positive attitude and habituate to maintain positivity in every suitable situation
- Appreciates Urdu literature and recites them

DEPARTMENT OF HINDI

HIN1004: Non Detailed Grammar, Translation & Letter writing

A student who studies this course

- Develops the skills of Hindi language
- Expands the knowledge of vocabulary
- Practices drafting personal letters

HIN2004: Non Detailed Grammar, Translation & Letter writing

A student who studies this course

- Develops the knowledge of vocabulary and grammar
- Becomes familiarized to use official terminology
- Practices drafting applications

HIN3004: History of Hindi literature, Kavya-Deep, General Essay

A student who studies this course

- Acquires the knowledge of Hindi Literature, Poets and Poetry
- Develops the knowledge of history of Hindi literature
- Inculcates the habit of thinking on general issues through essays
- Translates Hindi to English and vice-versa
- Practices drafting of official letters

DEPARTMENT OF PSYCHOLOGY

PSY1110: General Psychology-I

A student who studies this course

- Acquires knowledge about historical context of psychological study
- Analyses survey of the fields of psychology and apply psychological methods whenever necessary
- Understands the basic concepts of attention, perception, learning and personality

PSY2110: General Psychology-II

A student who studies this course

- Understands the scientific reasoning and problem solving skills
- Demonstrates fundamental knowledge and comprehension of the major concepts, theoretical perspectives, historical trends, and empirical findings to discuss how psychological principles apply to behavioral problems
- Gets aware of various concepts like Intelligence, Aptitudes, learning theories and Memory

PSY3110: Social Psychology –I

A student who studies this course

- Acquires knowledge that goes beyond mere memorization of facts and moves to an understanding human behavior
- Responds on major problems and issues in the society
- Understands the forces that create group differences

PSY4110: Social Psychology –II

A student who studies this course

- Develops competency in writing and in oral and maintain good interpersonal communication skills
- Understands the dynamics of intergroup relationships, conflict, and cooperation
- Apprehends to various leadership styles, Formation of groups and how the rumors spread

PSY5110: Educational Psychology

A student who studies this course

- Understands human nature and able to motivate, direct towards growth in conduct
- Acquires better background for understanding and encompass sympathetic attitude towards children

PSY5110E1: Abnormal Psychology

A student who studies this course

- Gets knowledge and awareness about the mind's subconscious, mind's consciousness and the reasons for human behaviour
- Practices identifying and treating some kinds of mental disorders biological diseases

PSY6110: Educational Psychology

A student who studies this course

- Becomes skilled in decision-making and problem solving
- Analyzes various personalities by using different methods of assessment techniques
- Uses necessary facts and techniques for analyzing child's behaviour to facilitate adjustment and growth of personality

PSY6110E1: Abnormal Psychology

A student who studies this course

- Assists psychologists in some kinds of therapeutic role, clinical practicing, counseling, or school settings
- Practices various therapeutic measures and implement in the society where ever necessary

DEPARTMENT OF SOCIOLOGY**SOC1109: Basic Concepts of Sociology**

A student who studies this course

- Outlooks the basic concepts in Sociology

SOC2109: Sociology of Indian Society

A student who studies this course

- Identifies Social issues and Challenges like Caste system, Gender inequality, Child labour, Illiteracy and Religious conflicts etc.from social and economic aspects

SOC3109: Selected Sociological Theories

A student who studies this course

- Gains knowledge of different social theories
- Learns the concepts like division of Labour, Suicide, Bureaucracy and Authority

SOC4109: Methods of Social Research

A student who studies this course

- Analyses the relations between concepts, theory and Facts
- Acquires knowledge about types of Research Design

SOC5109: Modern India: Social Changes and Development, Issues

A student who studies this course

- Knows the impact of British Rule on Social Change
- Expertises at the trends of Social Change in Modern India

SOC5109E1: Applications of Sociology

A student who studies this course

- Applies the participatory techniques and Counselling skills

SOC6109: Social Change – Legislations in Modern India

A student who studies this course

- Understands the Legislations in Modern India leading to Social Change
- Evaluates the Intervention Programmes and Social Issues

SOC6109E1: Advanced Applications of Sociology

A student who studies this course

- Knows the social research, Methods of Data Collection and Report Analysis

DEPARTMENT OF POLITICAL SCIENCE

POL1102: Basic Concepts of Political Science

A student who studies this course

- Recalls the basic concepts of Political Science
- Explains the theories of the origin of the state, Sovereignty, Law, Liberty and Equality, Rights and Duties etc.

POL2102: Concepts Theories and Institutions

A student who studies this course

- Summarizes concepts, theories and institutions deals with democracy, ideology
- Classifies the organs of Government

POL3102: Indian Political System

A student who studies this course

- Knows the Indian political system and salient features of Indian Constitution, Federal Government
- Analyses Centre-State relations, fundamental Rights and Duties, Parlia

POL4102: Dynamics of Indian Government

A student who studies this course

- Identifies the Socio-economic factors in Indian Politics
- Explains the functions of Election Commission, National and Regional Political parties
- Identifies the factors of National Integration, Communalism and Terrorism etc.

POL5102: Political Thought

A student who studies this course

- Explains the features of Ancient Indian Political Thought, Manu ó Varna System etc.
- Knows Kautilya's Kingship, Mandala Theory, Buddha Dharma, Sangha
- Analyses Gandhi ó Non violence, Nehru's foreign policy and Dr Ambedkar ó champion of weaker Sections etc.

POL5102E1: Introduction and Approaches of Public Administration

A student who studies this course

- Analyses the approaches of Public Administration deals with in nature, e-Governance approaches and Globalization, privatization and Liberalization etc.

POL6102: Western Political Thought

A student who studies this course

- Studies different Western political thoughts like Greek political thought, Social Contract Theories and Karl Marx Theory of Scientific Socialism etc.

POL6102E2: Principles of Public Administration

A student who studies this course

- Learns the principles of public administration, principles of organization
- Becomes skilled at Financial Administration, Public Relation and Administrative Accountability

DEPARTMENT OF ECONOMICS

ECONOMICS

ECO1103: Micro Economics-I

A student who studies this course

- Understands the outlook of micro economics and its importance
- Recognizes the economic concepts like nature of economics, wealth and welfare
- Acquires knowledge about demand

ECO2103: Micro Economics-II

A student who studies this course

- Classifies price determination
- Knows about different types of markets
- Understands theories of rent and theories of interest

ECO3103: Macro Economics-I

A student who studies this course

- Understands the outlook of macro economics and its importance
- Analyses different concepts of National income
- Gets an idea about RBI and its functioning

ECO4103: Macro Economics-II

A student who studies this course

- Recognizes Trade cycles
- Reviews the present banking system
- Identifies defects in Indian money market

ECO5103: Economic Development & Indian Economy

A student who studies this course

- Knows the basic concepts of economic growth and development
- Identifies the basic features of Indian economy
- Creates solutions for the problems like poverty, economic inequalities, unemployment and food security

ECO5103E1: India and AP Economy

A student who studies this course

- Knows the importance of agriculture in India
- Acquires knowledge about FEMA and five-year plans
- Analyzes the problems in agriculture, infrastructure, crop insurance, gender inequalities etc.

ECO5103E2: Agricultural Economics

A student who studies this course

- Understands the nature and scope of agricultural economics
- Develops the knowledge about concept of production function
- Outlines system of farming

ECO6103: Indian Economy

A student who studies this course

- Recognize the nature of agriculture in India
- Knows about types of industries
- Outlines the planning in India and develops the knowledge for competitive exams

ECO6103E1: Quantitative Techniques

A student who studies this course

- Practices quantitative techniques in Mathematics and Statistics
- Solves different problems using the learned techniques and formulae

ECO6103E2: Public Finance

A student who studies this course

- Recognizes the use of public finance
- Knows the collection of taxes and public expenditure
- Identifies the necessity for public welfare

FINANCIAL ECONOMICS

FE1105: Economic Theory

A student who studies this course

- Learns the theoretical concepts and the importance of Economics
- Outlines diminishing marginal utility
- Understands the production function

FE2105: Macro Economics

A student who studies this course

- Analyzes the concept of national income
- Understands about money multiplier
- Recognizes inflation and trade cycles

FE3105: Quantitative Techniques-I

A student who studies this course

- Learns quantitative techniques in mathematics and statistics
- Solves different problems in central tendency and regression

FE4105: Quantitative Techniques-II

A student who studies this course

- Knows basic concepts of Calculus
- Acquires knowledge about basic components of computers
- Solves different problems using the learned techniques and formulae with computer basics

FE5105: Financial Institutions and Financial Markets

A student who studies this course

- Gets introduced to finance and capital
- Acquires knowledge about commercial banks
- Recognizes the applications of financial systems

FE5105E1: Economics of Insurance

A student who studies this course

- Learns about essentials of life and health insurance
- Gets basic knowledge of premier construction
- Acquires knowledge about insurance and major risk factors

FE5105E2: The Economics of Finance

A student who studies this course

- Understands the concept of financial ratios
- Recalls security analysis
- Identifies different sources of investments

FE6105: Financial institutions and markets

A student who studies this course

- Familiarizes with banking sector of RBI
- Understands the functioning of financial institutions like IDBI, ICICI, SIDBI, IIBI, NABARD etc.
- Knows about non-banking institutions like LIC, UTI etc.

FE6105E1: Essentials of General Insurance

A student who studies this course

- Knows about the concept of insurance
- Understands the risk factors and features involved
- Constructs retirement planning

FE6105E2: Economics of Finance

A student who studies this course

- Identifies the use of public finance
- Recognizes the intro-rotational trade
- Identifies the instruments of attaining certain social objectives by means of redistribution of wealth and their reducing inequalities

DEPARTMENT OF ENVIRONMENTAL STUDIES

ES2008: Environmental Studies

A student who studies this course

- Classifies Natural resources, pollutions
- Familiarizes with Biodiversity, Environmental management, Policy, Acts, and Sustainable Development etc.
- Identifies local, national, regional, global level issues and their solutions
- Analyses cross cutting issues relevant to social issues, women and child welfare, Value education, Human rights, economic development etc.
- Identifies the measures to be taken for sustainable development by using appropriate Eco-friendly technology

DEPARTMENT OF COMMERCE

BE1201: Business Economics

A student who studies this course

- Outlines the basic principles of business Economics

FA1202: Fundamentals of Accounting

A student who studies this course

- Recalls the basics in accounting knowledge

BO1203: Business Organization

A student who studies this course

- Classifies various types of business organization and its management

BE2201: Business Economics

A student who studies this course

- Learns the basic principles of business Economics

FA2202: Fundamentals of Accounting

A student who studies this course

- Expertises at basics in accounting knowledge

BEN2203: Business Environment

A student who studies this course

- Analyses micro and macro environment in which organizations are functioning

CA3201: Corporate Accounting

A student who studies this course

- Learns about Companies Equity, Bonus shares and goodwill and their valuations

BS3202: Business Statistics

A student who studies this course

- Knows basic business data analysis and its measurements

BAN3203: Banking Theory and Practice

A student who studies this course

- Analyses functioning of Commercial Banking System and RBI

BL4201: Business Law

A student who studies this course

- Differentiates agreements and contracts, sale of goods act, consumer protection act etc.

ASO4202: Accounting for Service Organizations

A student who studies this course

- Identifies the specific accounting principles and procedures followed in various service organizations viz, electricity supply company, banking and insurance

IT4205: Income Tax

A student who studies this course

- Applies principles of taxation and its calculations in solving the problems

BL5201: Business Law

A student who studies this course

- Analyzes critically business law agreements and contracts, sale of goods act, consumer protection act etc.

CMA5202: Cost and Management Accounting

A student who studies this course

- Identifies the issues of material in factories, wages, overheads, contract accounts and process accounts

AUD5203: Auditing

A student who studies this course

- Analyzes the auditing principles and practices in various types of business organizations and to impart skills of report writing and business correspondence

CA5204: Corporate Accounting

A student who studies this course

- Defines companies' equity, bonus shares and goodwill and their valuations

ACA5205 E1: Advanced Corporate Accounting

A student who studies this course

- Differentiates human resource accounts, social responsibility accounting, inflation accounts, winding up of company

MA5206E1: Management Accounting

A student who studies this course

- Identifies management techniques like ratio analysis, funds flow, cash flow statements, capital budgeting etc.

BL6201: Business Law

A student who studies this course

- Becomes familiar with sources of business law agreements and contracts, sale of goods act, consumer protection act etc.

CMA6202: Cost and Management Accounting

A student who studies this course

- Analyses issues of material in factories, wage policies, overheads, contract accounts and process accounts

AUD6203: Auditing

A student who studies this course

- Summarizes auditing principles and practices in various types of business organizations
- Develops skills of report writing and business correspondence

CA6204: Corporate Accounting

A student who studies this course

- Analyses Companies Equity, Bonus shares and goodwill and their valuations

ACA6205 E1: Advanced Corporate Accounting

A student who studies this course

- Distinguishes human Resource Accounts, Social Responsibility Accounting, Inflation Accounts

MA6206E1: Management Accounting

A student who studies this course

- Develops skills in management techniques like ratio analysis, funds flow, cash flow statements, capital budgeting etc.

DEPARTMENT OF MATHEMATICS

MAT1301: Differential Equations

A student who studies this course

- Solves differential equations by different methods
- Identifies orthogonal trajectories

MAT2301: Analytical Solid Geometry

A student who studies this course

- Identifies skew lines and shortest distance between the lines
- Illustrates enveloping cone of a sphere
- Demonstrates inscribed sphere of a cone

MAT3301: Abstract Algebra

A student who studies this course

- Analyses nature of functions and relations
- Practices permutation groups

MAT4301: Real Analysis

A student who studies this course

- Knows about increasing sequence, decreasing sequence
- Classifies infinite series by Cauchy's test, De Moivre's test, Leibniz's test, Ratio test

MAT5301: Linear Algebra

A student who studies this course

- Labels linear independent vectors and dependent vectors
- Recognizes orthogonal vectors and operates Matrices

MAT5301E1: Numerical Analysis Part-1

A student who studies this course

- Knows interpolation of functions
- Employs data to fit Curve

MAT6301: Laplace Transform

A student who studies this course

- Defines Laplace transform and solves by integration
- Explains methods of Integration to solve Laplace transform

MAT6301E1: Numerical Analysis Part-2

A student who studies this course

- Recalls Euler's Method
- Recognizes Runge-Kutta method to solve ordinary differential equation

DEPARTMENT OF PHYSICS

PHYSICS

PHY1302: Mechanics

A student who studies this course

- Recalls the mechanics principles, Physical quantities, their representation and relations among them
- Identifies the principle of mechanics
- Solves the problems relating to mechanics
- Applies the principles in different fields like rockets

PHY2302: Waves and Oscillations

A student who studies this course

- Differentiates different types of pendulums, different wave motions and oscillations
- Memorizes formulae, principle and phenomena related waves
- Solves the problems relating to waves and oscillations
- Uses the concept in the real life

PHY3302: Thermodynamics

A student who studies this course

- Explains thermodynamical variables and potentials
- Specifies principles, experiments related to thermodynamics
- Uses the learned principles in their daily life

PHY4302: Optics

A student who studies this course

- Explains the Optics variables and potentials
- Learns the principles experiments related to wave nature of light
- Tests the learned principles in their daily life

PHY5302: Electricity, Magnetism & Electromagnetics

A student who studies this course

- Explains the principles and formulae in electricity Magnetism and electromagnetic
- Solves the problems related to above topics
- Tests learned principles and formulae in their daily life

PHY5302E1: Solid State Physics

A student who studies this course

- Designs the structural arrangement of crystals
- Discriminates different solids and their internal arrangement of atom
- Uses the learned concept in daily life

PHY6302: Modern Physics

A student who studies this course

- Designs Raman experiments, Explains DE Broglie Hypothesis and other Modern developments in Physics
- Summarizes different theories and developments in modern physics like Raman effect, Uncertainty principle

PHY6302E1: Analog and Digital Electronics

A student who studies this course

- Identifies different number systems, logic gates
- Designs different combinations of logic gates and their outcomes
- Develops electronic circuits by their own

ELECTRONICS

ELE1315: Basic Circuit Theory

A student who studies this course

- Designs basic electronic circuits
- Identifies different components involved in electronic circuit connections

ELE2315: Electronic Devices and Circuits

A student who studies this course

- Constructs the basic electronic devices used for circuit connections
- Chooses correct electronic devices as per their requirement

ELE3315: Digital Electronics

A student who studies this course

- Identifies different number systems, logic gates, registers, memory devices etc.
- Constructs different digital electronic devices involved in circuits
- Chooses correct memory devices and logic gates as per their requirement

ELE4315: Analog and Digital Applications

A student who studies this course

- Knows Op-Amps, Timers, Converters and Counters etc.
- Chooses correct applications of different Op-amps timers, Converters and Counters

ELE5315: Microprocessors-I

A student who studies this course

- Explains the Microprocessors, their internal parts and working
- Demonstrates the applications of different Microprocessors

ELE5315E1: Embedded Systems and Microcontrollers

A student who studies this course

- Differentiates Embedded Systems and Micro Controllers
- Chooses correct applications of Embedded Systems and Micro Controllers
- Designs Micro Controllers as per their requirement

ELE6315: Microprocessors-II

A student who studies this course

- Writes the programming with Microprocessors and Interrupts that occur
- Applies different Microprocessors at different situations
- Writes correct programming as per their requirement

ELE6315E1: Embedded Systems-II

A student who studies this course

- Tests the programming of Embedded Systems
- Chooses correct Programme and correct controllers as per their requirement

DEPARTMENT OF CHEMISTRY**CHE1303: Inorganic and Organic chemistry**

A student who studies this course

- Recalls fundamental aspects of inorganic and organic chemistry
- Familiarizes with nature of compounds and their chemical properties
- Exercises chemical reactions and mechanisms

CHE2303: Physical and general chemistry

A student who studies this course

- Recalls fundamental aspects of physical chemistry
- Acquires knowledge about properties of matter in different states viz, solid, liquid, gaseous and also about solutions
- Practices stereo chemistry of carbon compounds

CHE3303: Inorganic and organic chemistry

A student who studies this course

- Sketches periodic table
- Understands the properties and nature of bonding in metals
- Becomes skilled in writing mechanism for named reactions

CHE4303: Spectroscopy and physical chemistry

A student who studies this course

- Understands the techniques behind the characterization of a compound
- Knows about colligative properties of dilute solutions
- Constructs electro chemical cells

CHE5303: Inorganic, organic and physical chemistry-1

A student who studies this course

- Differentiates inorganic, organic and physical chemistry
- Knows about Co-ordination compounds and their properties
- Familiarizes with hetero cyclic compounds
- Understands thermodynamic laws and able to calculate the energy changes in different processes

CHE5303 E1: Molecular Spectroscopy and Macromolecules

A student who studies this course

- Learns spectroscopic techniques for molecules
- Gains knowledge about macromolecules

CHE5303E2: Drugs, Formulations, Green Chemistry and Material Science

A student who studies this course

- Identifies the formulation of drugs
- Understands the concepts of green chemistry and material science

CHE6303: Inorganic, Organic and Physical Chemistry-2

A student who studies this course

- Summarizes and Analyses the advanced concepts of chemistry
- Applies basic theoretical and practical knowledge in understanding the structure and reactions of Carbohydrates, Amino acids and Proteins
- Gets trained in studying the kinetics of a chemical reaction
- Familiarizes with different types of photochemical reactions

CHE6303E1: Qualitative and Quantitative Aspects Analysis, Separation Techniques, Spectrophotometry, Thermogravimetry

A student who studies this course

- Analyses qualitative and quantitative techniques
- Classifies different separation techniques
- Becomes skilled at spectrophotometry and thermogravimetry

CHE6303E2: Pesticides, Soil Chemistry, Petrochemicals

A student who studies this course

- Recognizes different pesticides
- Analyzes different types of soils
- Identifies petrochemicals

CERTIFICATE COURSES

CC112WA: Water Analysis

A student who studies this course

- Gets trained in testing the quality of water
- Estimates pollution and contaminants in water bodies

CC112SA: Soil Analysis

A student who studies this course

- Becomes skilled in testing the quality of soil
- Estimates the fertility of the soil

GENERAL ELECTIVE

GE401EC: Everyday Chemistry

A student who studies this course

- Develops analytical skills and laboratory techniques
- Uses the basic principles of chemistry in daily life

DEPARTMENT OF BIOTECHNOLOGY

BT1310: Microbiology & Cell Biology

A student who studies this course

- Specifies the general characteristics, cultural conditions of microorganisms
- Outlines functions of organelle functions
- Explains transportations through cell membrane
- Draws cell structure
- Explains DNA technology, Animal and Plant biotechnology

BT2310: Macromolecules, Enzymology and Bioenergetics

A student who studies this course

- Designs structure and explains the properties of bio molecules
- Classifies the Enzymes
- Uses the principles of Bioenergetics in designing the experiments

BT3310: Bio Analytical Techniques

A student who studies this course

- Demonstrates working of spectrometry, chromatography
- Identifies the use of Radio isotopes in diagnosis and treatment of diseases

BT4310: Fundamentals of Microbiology & Immunology

A student who studies this course

- Explains Microbial physiology, cellular and molecular components of immune system
- Designs experiments to evaluate underlying causes of diseases

BT5310: Molecular Biology

A student who studies this course

- Explains Nucleic acids and their properties, transcription, translation, protein sorting,
- Identifies gene expression of prokaryotes as well as eukaryotes which gives strong foundation for gene manipulations

BT5310E1: Animal Biotechnology & Plant Biotechnology

A student who studies this course

- Analyzes the need and procedures involved in production of transgenic animals and plants for enhancing the quality food, pharmaceuticals and health care
- Practices commercialization of plant tissue cultures and Animal reproduction and breeding

BT5310E2: Entrepreneurship Development

A student who studies this course

- Develops entrepreneurship to meet the global demand for food, chemicals and pharmaceuticals
- Identifies the inputs in the form of project formation and assessment
- Lists various funding agencies available, inventory direct and indirect raw materials and its management etc.

BT6310: Genetic Engineering

A student who studies this course

- Chooses various vectors and host systems to produce recombinants
- Examines PCR and Hybridization techniques to develop various strategies of gene cloning for lab as well as to the field

BT6310E1: Industrial Biotechnology & Environmental Biotechnology

A student who studies this course

- Identifies various methods of isolation and engineering of industrially useful micro organisms for mass production of chemicals and Pharmaceuticals
- Uses genetically modifies organisms for bioremediation, Genetic engineering for conservation of biodiversity and Ecosystems
- Identifies more research problems prevailing in the society

BT6310E2: Industrial Fermentation

A student who studies this course

- Develops skills of bio precarious technology, use of genetically engineered microorganisms for mass production of chemicals, therapeutics on commercial scale to meet the global demand
- Examines various productions at laboratory level

DEPARTMENT OF MICROBIOLOGY

MB1301: Introductory Microbiology

A student who studies this course

- Knows the history and development of microbiology as a science and how it improves the human life and learns various emerging areas of Microbiology
- Examines the principles of basic microbiological techniques
- Enhances their skills in different microbiological techniques

MB2308: Microbial Biochemistry and Metabolism

A student who studies this course

- Applies basic theoretical and practical knowledge of the principal methodologies and techniques for investigation of biomolecules
- Understands microbial growth and physiology.

MB3308: Microbial Genetics and Molecular Biology

A student who studies this course

- Understands genetic components, their functions and genetic recombination in bacteria
- Learns basic concept of gene expression in bacteria.
- Understands tools and techniques employed in genetic engineering.

MB4308: Immunology and Medical Microbiology

A student who studies this course

- Understand the basic principles of immunology and its applications in diagnosis and research.
- Identifies the normal and common pathogenic organisms associated with human infectious diseases, pathogenesis and their diagnosis

MB5308: Immunology

A student who studies this course

- Understands the cells, organs and mediators of immune system
- Applies basic principles of immunology in diagnosis and research.

MB5308 E1: Environmental and Agricultural Microbiology

A student who studies this course

- Recognizes the role of microbes in biogeochemical cycling, crop improvement by using bio fertilizers and bio pesticides, bioremediation of heavy metals, microbial degradation of natural substances and xenobiotics
- Specifies the role of microbes in solid waste and sewage management, microbial assessment of water quality

MB6308: Medical Microbiology

A student who studies this course

- Explains microbial virulence mechanisms and host response to infection
- Identifies the normal and common pathogenic organisms associated with human infectious diseases, pathogenesis and their diagnosis

MB6308E1: Food and Industrial Microbiology

A student who studies this course

- Understand the role of microorganisms in food spoilage and food processing.
- Practices mushroom cultivation.
- Gains knowledge about principles of exploitation of microorganisms and fermentation methods in industry for commercial production of chemicals and antibiotics.

DEPARTMENT OF ZOOLOGY

ZOO1307: Animal diversity- Biology of Non chordates

A student who studies this course

- Acquires knowledge about invertebrate organization, Systematics and Phylogeny of various invertebrate phyla
- Identifies the importance of individual organisms and their larvae in the process of evolution

ZOO2307: Animal Diversity- Biology of Chordates

A student who studies this course

- Understands vertebrate organization, Systematics and Phylogeny of various vertebrate phyla
- Practices identifying different vertebrate animals basing on their characters

ZOO3307: Cell biology, Genetics and Evolution

A student who studies this course

- Acquires knowledge about cell structure, functions and can identify various cell organelles
- Understands the fundamentals of genetics in day to day life and inheritance of characters from parents to offspring

ZOO4307: Embryology, physiology and ecology

A student who studies this course

- Knows about the gametes, Zygote and embryonic development in vertebrates
- Understands the structure and functioning of various systems of mammals, focusing of human physiology
- Interrelates different communities of the environment and student role in protecting the environment

ZOO5307: Animal Biotechnology

A student who studies this course

- Understands the fundamentals of Biotechnology and its applications in different fields of science
- Appreciates the concept of Genetically modified organisms, Gene Therapy, Stem Cells and their applications
- Learns the basics of practical aspects of simple molecular techniques

ZOO5307E1: Animal Husbandry

A student who studies this course

- Explains the concept of animal husbandry
- Demonstrates poultry management, dairy farm and different types of cattle breeds

ZOO6307: Animal husbandry

A student who studies this course

- Identifies and compare different breeds of poultry and cattle
- Acquires knowledge about the care and management techniques to be taken in Dairy and poultry farms
- Understands the importance of Dairy, Poultry and their importance as small scale entrepreneur units

ZOO6307E1: Animal Biotechnology

A student who studies this course

- Explains the concept of Biotechnology and its applications in modern age
- Identifies the role in gene manipulation and cloning and to learn the basics of molecular techniques

DEPARTMENT OF BOTANY

BOT1306: Microbial Diversity Algae and Fungi

A student who studies this course

- Knows different types of microbial and their classifications
- Specifies the fundamental terminology in microbiology, algae, and fungi
- Identifies microorganisms and fungi in their daily life

BOT2306: Diversity of Archegoniate and Plant Anatomy

A student who studies this course

- Classifies the Archegoniate
- Explains the Biological features of Bryophytes, Pteridophytes and Gymnosperms
- Illustrates the internal structure of plant tissues

BOT3306: Plant Taxonomy and Embryology

A student who studies this course

- Demonstrates the basic anatomy of plants
- Identifies the importance and application of embryology in agriculture

BOT4306: Plant Physiology and Metabolism

A student who studies this course

- Knows the aspects of the plant life, metabolic activities, water relation, mineral nutrition development, irritability, organisation, growth and transport processes
- Explains the physical, chemical and biological functioning of plants

BOT5306: Cell Biology and Genetics

A student who studies this course

- Uses the basic principle of inheritance at molecular cellular organism level
- Applies their knowledge of cell biology to selected examples of changes or losses in environment or physiology

BOT5306E1: Seed Technology and Horticulture

A student who studies this course

- Practices Seed technology which defines with the methods of improving physical and genetical characteristics of Seed production, processing, certification, testing and storage
- Applies horticulture techniques to develop an attitude to produce garden crops, fruits, vegetables and ornamental plant

BOT6306: Plant Physiology

A student who studies this course

- Demonstrates the physical chemical and biological functioning of plants
- Compares different patterns and habitats of plants with animals

BOT6306E1: Ecology and Environmental Biology

A student who studies this course

- Explains ecological relationships between organisms and their environment
- Identifies present day major threats to biodiversity and knows the methods of bio - diversity conservation

DEPARTMENT OF BIOCHEMISTRY**BC1309: Biomolecules**

A student who studies this course

- Demonstrates various methods available to analyse carbohydrates based on their physical and chemical properties
- Examines and predicts the lab results, Analyses the obtained results in the laboratory
- Solves the concepts of biophysical chemistry related to buffers, pH, water
- Classifies and evaluates structure and function of different biomolecules like Carbohydrates, Lipids, Nucleic Acids

BC2309: Proteins & Enzymes

A student who studies this course

- Explains the basic Structures & functions of Amino acids and proteins
- Illustrates concepts of enzymes and thereby gets insight on reactions happening inside our cells of the body
- Tests various samples of amino acids in the laboratory and writes reports

BC3309: Bioenergetics and Bioanalytical Techniques

A student who studies this course

- Relates the basic energy changes occurring in our body and energy production
- Demonstrates the basic understanding of bioanalytical techniques and designs experiments to evaluate underlying causes of research
- A department suitable techniques for isolation, separation and identification of the biomolecules.

BC4309: Intermediary Metabolism

A student who studies this course

- Categorize anabolic and catabolic reactions.
- Extends the basic understanding of metabolisms occurring in our body and energy production used in various reactions in different tissues.
- Identifies functions of biological molecules through the study of their metabolic reactions
- Analyses and elaborates the cause of metabolic disorders used for the diagnosis

BC5309: Molecular biology

A student who studies this course

- Explains the basic mechanisms of Replication, Transcription and Translation
- Examine DNA,RNA samples and design experiments for isolation, separation and estimation.

BC5309E1: Endocrinology and Clinical Biochemistry

A student who studies this course

- Evaluates basic principles and mechanisms of metabolic control of molecular signaling by hormones
- Develops skills to pursue career in clinical diagnostics.

BC5309E2: Physiology and Nutrition

A student who studies this course

- Lists, summarizes & identifies the functioning of various organs in our body.
- Analyzes the importance of biomolecules, minerals, vitamins and their role in balanced diet.

BC6309: Immunology and Microbiology

A student who studies this course

- Designs experiments to evaluate underlying causes of diseases
- Relates and outline the concepts of history and scope of Microbiology and could deal with different techniques used for the growth of bacteria

BC6309E1: Genetic Engineering and Bioinformatics

A student who studies this course

- Understands the steps in cloning, importance of cloning vectors, introduction into host cells and various techniques
- Acquire knowledge of various biological databases related to bioinformatics and design experiments to retrieve genes, proteins.

BC6309E2: Infectious and Non Infectious Diseases

A student who studies this course

- Identifies various diseases caused by microorganisms which are infectious
- Acquires knowledge in identifying and preventing various diseases caused by lifestyle disorders

DEPARTMENT OF HOME SCIENCE

HS1311: Basic Nutrition

A student who studies this course

- Differentiates the macro and micro nutrients in terms of their composition and functions
- Recognizes the requirements of food sources and deficiencies

HS1312: Human Physiology

A student who studies this course

- Knows anatomical features of all the major human organ systems
- Identifies different human organs

HS1313: Microbiology

A student who studies this course

- Explains the morphological, growth and reproductive features of various micro organisms

HS2311: Food Science

A student who studies this course

- Knows the structure, composition of cereals, pulses, milk, egg and fleshy foods
- Identifies nutritional importance of various food groups

HS2312: Fundamentals of Family Nutrition

A student who studies this course

- Recognizes the relationship between nutrient requirements, recommended dietary allowances
- Identifies dietary modifications under different physiological conditions

HS2313: Growth & Development during Life Span

A student who studies this course

- Knows various areas of growth and development from conception to adolescence

HS3311: Nutritional Biochemistry

A student who studies this course

- Analyzes the relationship between the effect of nutrients on metabolism

HS3312: Food Preservation

A student who studies this course

- Develops practical skills in various preservation methods like high concentration of sugar, salt etc.

HS3313: Extension Education for Rural Development

A student who studies this course

- Demonstrates various extension methods useful for approaching different sections of community

HS4311: Housing and Interior Decoration

A student who studies this course

- Explains fundamentals of house planning and apply skills in interior decoration

HS4312: Community Nutrition

A student who studies this course

- Develops the skills to assess the nutritional status of the community

HS4313: Diet Therapy-I

A student who studies this course

- Develops skills in planning and management of diets for the different age groups under normal/ physiological conditions keeping in mind the dietary guidelines

HS5311: Diet Therapy II

A student who studies this course

- Applies the general principles and objectives of diet therapy
- Practices disease specific dietary management guidelines and principles

HS5312: Diffusion & Adoption

A student who studies this course

- Knows various homestead technologies with reference to home science

HS5313: Textile Science

A student who studies this course

- Applies different clothing construction and surface ornamentation techniques

HS5314: Bakery & Confectionary/Food Service Management

A student who studies this course

- Understands various baking techniques
- Applies skills in baking

HS5315: Early Childhood Education/ Marriage & Family Dynamic

A student who studies this course

- Prepares Curriculum in ECE-process
- Designs different play activities in ECE centers

HS5316: Entrepreneurship Development/ Fashion Designing

A student who studies this course

- Explains different concepts in entrepreneurship
- Develops skill in formulation of project proposals

HS6311: Diet Counseling

A student who studies this course

- Identifies the problems of diet
- Suggests diet counseling for various diseases

HS6312: Training and HRD

A student who studies this course

- Appreciates the role of training objectives in planning, designing and evaluation of a programme

HS6313: Tie & Dye

A student who studies this course

- Illustrates the basic types of dyes and their methods of application

HS6314: Sociology/General Psychology

A student who studies this course

- Analyzes the basic psychological processes
- Applies these processes in everyday life

HS6315: Counseling Psychology/ Family Attire and Consumer Education

A student who studies this course

- Identifies the problems in areas of psychology by application of various tests
- Acquires the basic skills of counseling process

HS6316: Resource Management/ Event Management

A student who studies this course

- Explains the basic concepts of resource management and their management in everyday life

DEPARTMENT OF COMPUTERS

CSC1304: Computer Fundamentals & Photoshop

A student who studies this course

- Designs Newsletters, Visiting cards, Invitations, Flexes, Brochures, CD Covers, Paper Ads, etc.
- Proposes Layouts for Webpages, Packages, Event and Exhibition Stalls, Pop-Ups, Touch-ups, Color corrections, Paintings, Drawings, convert black and white photo to color

CSC2304: Programming in C

A student who studies this course

- Becomes an efficient Software developer for any Software Company
- Uses IDEs (Integrated Development Environments) for developing different Programs
- Designs, implements, tests, debugs, and documents Programs in C
- Works with any type of data structure to store data in the format the application demand

CSC3304: Object Oriented Programming Using JAVA

A student who studies this course

- Solves the real world scenarios using top-down approach
- Creates Java Applications with Graphical User Interface (GUI)
- Designs front-end applications for any project through Object-oriented concepts

CSC4304: Data Structures

A student who studies this course

- Utilizes different data structures in developing and implementing efficient algorithms
- Exploits various Data Structures like arrays, linked lists, stacks, queues, trees, and graphs in representing memory allocation algorithms
- Uses different traversal techniques for developing Search Engines

CSC5304: Data Base Management System

A student who studies this course

- Becomes skilled in designing and developing database for large volumes and varieties of data with optimized data processing techniques
- Works as a database administrator in many back-end development Projects
- Applies normalization techniques for efficient data storage techniques in various applications

CSC5304E1: Operating Systems

A student who studies this course

- Effectively Use different algorithms for Scheduling in various business processes
- Works in teams to develop operating systems
- Applies virtual memory in various front-end applications as well as in designing processes
- Solves Deadlock situations in various software processes

CSC6304: P H P, Apache, MySQL

A student who studies this course

- Gains the PHP programming skills needed to successfully build interactive, data-driven sites
- Creates Dynamic websites
- Builds interactive, data-driven pages for many front-end and back-end applications
- Designs effective search engines using cookies and sessions

CSC6304E1: Software Engineering

A student who studies this course

- Applies the Project management practices in real life projects
- Works in a team as well as independently for software projects
- Applies design and development principles in producing software systems of varying complexities using various project management tools
- Practices to identify, formulate and solve innovative engineering problems

CC1317: Basics & Services of Cloud Computing

A student who studies this course

- Utilizes various Services provided by different clouds like Amazon, Microsoft Azure, IBM, Salesforce etc.
- Makes use of both free and paid services by using debit/credit card services

CC2317: SaaS, PaaS, IaaS in Cloud Computing

A student who studies this course

- Trained to work with different clouds like Sales Cloud, Service Cloud, Marketing Cloud, Analytics Cloud, etc.
- Chooses the infrastructure, Platform and software services provided by various organizations

MUL1314: Graphic Designing

A student who studies this course

- Practices photo-editing and able to use graphics in small animations
- Creates hard copies of documents using online photography skills, create logos, design print layout using printing technologies

MUL2314: Web Designing Basics

A student who studies this course

- Accomplishes in using client side and server side scripting to develop web-based information systems
- Designs interactive and dynamic web sites
- Connects to databases as per the need of the application

MUL3314: 2D Animation

A student who studies this course

- Gets hands on experience in developing two dimensional animations
- Practices editing audio and videos in movie-making /film-making
- Works as a 2D animator in Studios

MUL4314: Working on Maya

A student who studies this course

- Practices using specialized software called MAYA to produce two dimensional or three dimensional images which in sequence creates the illusion of movement in animations
- Produces animations for film, television & video especially in the areas of modeling and texturing

MUL5314: Character Animation

A student who studies this course

- Becomes trained in animating characters using 2D and 3D technologies
- Animates biped characters in different projects related to character animation

MUL5314E1: Advanced Character Animation

A student who studies this course

- Executes animation and model characters using advanced techniques
- Creates animations of biped characters
- Becomes a mechanical animator

MUL6314: Facial Animation and Blend Shapes

A student who studies this course

- Animates facial expressions
- Works on lip-sink animation in any film-making projects

MUL6314E1: 3D ANIMATION PROJECT

A student who studies this course

- Develops projects in 3D Animation
- Develops 3D animated short films or movies

CAR1207: Computer Fundamentals & Photoshop

A student who studies this course

- Designs Newsletters, Visiting cards, Invitations, Flexes, Brochures, CD Covers, Paper Ads, etc.
- Prepares Layouts for Webpages, Packages, Event and Exhibition Stalls, Pop-Ups, Touch-ups, Color corrections, Paintings, Drawings, convert black and white photo to color

CAR3207: Office Automation Tools

A student who studies this course

- Develops automated softwares
- Works with editing tools in any front end applications

CAR4207: E-Commerce-1

A student who studies this course

- Develops new or improved innovative business process
- Develops business models that support a company's strategic objectives
- Analyzes the key business process that drives the value chain of an organization throughout the entire product life cycle
- Delivers project in a timely manner using project management tools and techniques

CAR5207: Multimedia with Photoshop

A student who studies this course

- Develops photoshop interface and use several tools for selecting parts of images to use layers, special effects to edit images
- Uses Painting tools and blending modes to create shading effects and save the images in printable web formats

CAR5207E1: E-commerce-2

A student who studies this course

- Analyzes branding & Pricing strategies
- Utilizes the effectiveness of market research
- Trained to work in projects related to E-Commerce in various Business processes

CAR6207: HTML and Dream weaver

A student who studies this course

- Designs a website using HTML
- Creates personal and /or Business websites
- Uses FTP program to upload files to a web server
- Prepares to pursue future courses in website development and design

CAR6207E1: Flash

A student who studies this course

- Practices 2D Animation for various front-end projects
- Trained to develop Interactive interfaces
- Uses flash scripting for Gaming
- Develops video games

PG COURSE OUTCOMES***DEPARTMENT OF CHEMISTRY*****CH101: General chemistry**

A student who studies this course

- Recalls fundamental aspects of General chemistry
- Acquires knowledge about analytical data, titrimetric analysis, visible spectro photometry, potentiometry and Programming in FORTRAN 77
- Understands the concept of primary standard solutions and secondary standard solutions

CH102: Inorganic Chemistry

A student who studies this course

- Recalls fundamental aspects of inorganic chemistry
- Gets knowledge about Quantum Mechanical Results, Chemistry of non- transition elements, and Metalóligand bonding.
- Sketches periodic table and acquires knowledge about hybridization, clatharate compounds &hydrogen bonding etc.

CH103: Organic Chemistry

A student who studies this course

- Develops in-depth knowledge in organic reactions & and writing mechanism
- Elaborates the concepts of aromaticity, heterocyclic compounds, conformational analysis and stereochemistry
- Expertise in writing stereochemistry of carbon compounds

CH104: Physical Chemistry

A student who studies this course

- Outlines Thermodynamics, Surface phenomena, phase equilibria and Electrochemistry
- Develops in-depth knowledge about BET Equation, measurement of EMF etc.
- Elaborates the concepts of energy changes, thermodynamic laws and different thermodynamic processes.

CH201: General chemistry

A student who studies this course

- Introduces SPECTROSCOPY both in theory and practical, which is the recent technique to analyze molecules.
- Creates awareness on Symmetry and Group theory in Chemistry.
- Understands the principle and functioning of Raman spectra and Nuclear Magnetic Resonance Spectroscopy

CH202: Inorganic Chemistry

A student who studies this course

- Knows about Non metal cages, metal clusters, organometallic complexes.
- Learns the mechanism of transition metal complex reactions & Electronic spectra of transition metal complexes
- Understands the concepts of Chiroptical properties, Cotton effect and Faraday effect.

CH203: Organic Chemistry

A student who studies this course

- Practices reactions and Aliphatic Nucleophilic substitutions, Eliminations and understands the role of protecting agents
- Creates awareness on various analytical tools used in chemical analysis and develops hands on experience in the lab courses.

CH204: Physical Chemistry

A student who studies this course

- Improves clarity on concepts of Thermodynamic laws, Statistical thermodynamics-Nernst Heat theorem, Polymer chemistry and Electrode potentials at the interface
- Introduces to Chemical kinetics and photo chemistry
- Develops skills to determine Quantum yield - Actinometry

CH301: Organic Spectroscopy-I

A student who studies this course

- Applies the knowledge of Ultraviolet spectroscopy, Infrared spectroscopy, NMR spectroscopy in structural determination of organic molecules
- Predicts IR, NMR spectral data for simple organic compounds
- Practices designing problems and characterization of compounds using spectral data

CH302: Organic Synthesis, Mechanisms and Nano Chemistry

A student who studies this course

- Introduces to the concept of Nanochemistry.
- Proposes Reaction mechanisms and appreciates the role of Oxidation-Reduction reactions in organic synthesis

CH303: Alkaloids and Phenothiaenes

A student who studies this course

- Learns about the synthesis of Cinchona alkaloids, Isoquinoline alkaloids, Ipecac alkaloids, phenothiaenes etc.
- Understands the structural elucidation of alkaloids

CH304: Chemistry of Natural Products

A student who studies this course

- Develops insight into Chemistry and synthesis of Terpenoids, Steroids, Vitamins and Hormones
- Identifies the structures and functioning of vitamins, hormones Terpenoids and Steroids

CH401: Organic Spectroscopy-II

A student who studies this course

- Learns the concepts of CMR spectroscopy, Mass spectrometry and 2D NMR spectroscopy
- Exercises elucidating structure of natural products by applying CMR, 2D NMR etc

CH402: Organic Synthesis, Mechanisms and Green Chemistry

A student who studies this course

- Introduces to eco-friendly topic GREEN CHEMISTRY which comprises environment friendly reactions
- Develops in-depth knowledge in Photochemistry and Pericyclic reactions
- Predicts the feasible pericyclic reaction and possible stereo chemistry

CH403: Antibiotics and Drugs

A student who studies this course

- Understands the concepts of Cell wall biosynthesis, inhibitors, Drugs, Medicinal chemistry and Chemotherapy
- Analyses the advanced techniques in chemotherapy of brain and cancer.
- Identifies the structure and functioning of antimalarial drugs

CH404: Techniques for Modern Industrial Applications

A student who studies this course

- Elaborates on various analytical techniques available for chemical analysis
- Learns about the Classical Methods of purification, Partition Chromatography, Gas Chromatography, Ion Exchange Chromatography and Electrophoresis.
- Classifies different separation techniques and becomes skilled at Spectrophotometry and chromatography

DEPARTMENT OF ZOOLOGY

Z101: Structure and Function of Invertebrates and Vertebrates

A student who studies this course

- Acquires knowledge about invertebrate and vertebrate organization, structure and function and Phylogeny of various invertebrate phyla
- Demonstrates the importance of individual organisms and their larvae in the process of evolution

Z102: Biology and Systematics

A student who studies this course

- Acquires knowledge about Systematics, Biodiversity Hotspots, phylogeny of various vertebrate phyla
- Identifies different vertebrate animals basing on their characters

Z103: Developmental Biology

A student who studies this course

- Acquires knowledge about embryonic development and its significance in Animal evolution
- Learns about larval formation and metamorphosis in animals

Z104: Molecular Cell Biology

A student who studies this course

- Acquires knowledge about structure and function of different Biomolecules and Vitamins.
- Differentiates stages of cell division takes place in growth of the animals

Z201: Genetics and Evolution

A student who studies this course

- Understand the concepts of inheritance and variations from parents to children.
- Develops knowledge on the concepts of blood group inheritance and interaction of genes

Z202: Comparative Animal Physiology

A student who studies this course

- Acquires knowledge about physiological processes occur in humans and other vertebrates
- Understands the role of endocrine glands and their importance in homeostasis of human health

Z203: Principles of Ecology

A student who studies this course

- Learns the sustainable development about the environment and Biodiversity
- Analyses the population densities and their influence on economy of the countries

Z204: Tools and techniques in Biotechnology

A student who studies this course

- Knows about various types of tools and techniques like microscopy, Spectroscopy, Chromatography, Electrophoresis etc.,
- Understands DNA fingerprinting, its significance and forensic analysis

Z301: Animal Biotechnology and Microbiology

A student who studies this course

- Learns about genetic engineering, rDNA technology, invitro fertilization and transgenic animals.
- Creates awareness on Gene therapy for some genetical diseases like muscular dystrophy, hemophilia, phenylketonuria and thalassemia etc.,

Z302: Ichthyology

A student who studies this course

- Learns about structure and Classification of fishes
- Identifies fish species and their structure and physiology

Z303: Limnology

A student who studies this course

- Acquires knowledge about different types of water environments and lakes
- Appreciates the significance of plankton, nekton, benthos in ponds and rivers and anthropogenic effect on lakes, their consequences and control mechanism

Z304: Aquatic Toxicology

A student who studies this course

- Develops insight into implications of various types of pollutions such as industrial, thermal, pesticide and radiation pollution
- Knows about Pollution control acts and laws existing in India

Z401: Fish pathology

A student who studies this course

- Learns about several bacterial, viral and fungal diseases of fishes
- Understands water quality and disease management in fish pond

Z402: Immunology

A student who studies this course

- Understands the role of immune system and its response to the disease causing agent
- Differentiates different types of immune cells present in our body and the reactions with antigens

Z403: Aquaculture

A student who studies this course

- Understands the scope of aquaculture in Andhra Pradesh and India
- Learns about fish and shrimp culture methods, intensive and integrated fish culture and recent development in fish culture

Z404: Aquaculture

A student who studies this course

- Learns to maintain the physical and chemical parameters and pond management in aquaculture
- Understands the techniques involved in processing and preservation of fish on various analytical techniques available for chemical analysis

DEPARTMENT OF TELUGU**T1.1: Prescribed text and Drama**

A student who studies this course

- Develops personality through study of old/classical poetry
- Extends social awareness through study of plays
- Understands the sweetness of poetic form of literature

T1.2: Introduction to general linguistics

A student who studies this course

- Understands the evolution of language
- Gains knowledge regarding classification of languages
- Develops the mechanics of sentence formation

T1.3: History of Telugu literature

A student who studies this course

- Understands the changes that took place in literature with changing time
- Knows about the writings of various writers and poets.
- Develops knowledge regarding Siva kavi yugam

T1.4: Balavyakaranam-1

A student who studies this course

- Analyses the basic concepts of Telugu grammar
- Develops advanced knowledge in grammar

T1.5: Modern trends in Telugu poetry

A student who studies this course

- Creates awareness about different forms of modern poetry
- Understands the characteristics of romantic poetry, progressive poetry etc

T2.1: Prescribed Texts-Modern Poetry

A student who studies this course

- Develops knowledge regarding the writing style of modern poets
- Knows about different forms of modern poetry

T2.2: Historical Linguistics

A student who studies this course

- Outlines the phonetic laws
- Acquires knowledge regarding semantic changes
- Understands about the Indo-Aryan, Dravidian language families

T2.3: History of Telugu Literature-II

A student who studies this course

- Develops knowledge about various literary forms (Prabandham, Yakshaganam, Satakam etc.)
- Promotes awareness regarding the emergence of new aspects through the development and evolution of various forms like novels, short stories and plays

T2.4: Balavyakaranam-II

A student who studies this course

- Develops advanced knowledge of Telugu grammar
- Grabs awareness regarding Vibhaktulu and Samasalu

T2.5: Modern Trends in Telugu Poetry

A student who studies this course

- Analyses feminist literature
- Gains in-depth knowledge about Dalit and Minority literature
- Familiarises with western poetic trends

T3.1: Literary Criticism-I

A student who studies this course

- Outlines definitions of kaavya given by Indian and western Critics and understands its genesis and benefits
- Learns about Rasa swarupam and Rasa nishta.
- Improves knowledge about fine arts and modern literary Forms.
- Develops awareness about Dasavidharoopakalu

T3.2: Evolution of Telugu language

A student who studies this course

- Understands the creation of Telugu verbs
- Develops awareness about the words absorbed into Telugu from other languages

T3.3: Folk Literature

A student who studies this course

- Classifies study of scholarly literature and folk literature
- Analyses different forms of folk songs
- Gains knowledge about different forms of folk stories

T3.4: Proudha Vyakaranam-Chandolankaralu

A student who studies this course

- Develops advanced knowledge of Telugu grammar
- Improves knowledge regarding Alankaras

- Summarises twelve types of Prasas and twenty four types of yathis

T3.5: Women Studies in Telugu Literature

A student who studies this course

- Understands the status of women in matriarchal society
- Analyses the status of women through study of classical literature
- Develops knowledge about modern literature

T4.1: Telugu Culture

A student who studies this course

- Knows about the prevalent culture during the Satavahana, kakateeya and Toorpu chalukya periods
- Understands the culture during the Vijayanagara and Golkonda kingdoms
- Analyses the prevalent culture during the British rule and in the post independence period

T4.2: Structure of Modern Telugu

A student who studies this course

- Distinguishes different dialects
- Understands about the syntax in formation of sentences
- Designs methods for modernisation of Telugu language

T4.3: Telugu Fiction and Short Story

A student who studies this course

- Knows about the attributes and characteristics of Novels and their categorisation
- Learns different styles of writing novels
- Understands the evolution and development of short stories

T4.4: Sanskrit

A student who studies this course

- Develops knowledge of Sanskrit grammar
- Familiarises with the literature of famous Sanskrit poets Valmiki, Vyasa and Kalidasa

T4.5: Writing for Media

A student who studies this course

- Practices writing news, literary reviews, editorials and conducting interviews
- Understands the importance of translation in journalism
- Creates awareness regarding the duties and responsibilities of editors

DEPARTMENT OF ECONOMICS

EC1.1: Micro Economics Theory-I

A student who studies this course

- Learns about the concept of individual decision makers
- Demonstrates the functions of consumers and producers in economic environment

EC1.2: Macro Economics

A student who studies this course

- Plans to ensure long term stable economic success
- Develops knowledge about macroeconomic goals that most central banks aim to achieve

EC1.3: Public Finance

A student who studies this course

- Understands the process of taxation with raising revenue
- Appreciates the concept of redistribution of wealth for reducing inequalities

EC 1.4: Evaluation of Economic Doctrines

A student who studies this course

- Knows about the history of Economic theories
- Develops knowledge about more specialized forms of Economic Theories

EC1.5: Mathematical Methods

A student who studies this course

- Acquires knowledge about the essential mathematical skills used in Economic Analysis
- Applies mathematical skills in formulating and analysing economic problems

EC2.1: Micro Economics Theory-II

A student who studies this course

- Develops in-depth knowledge about the principles of Economics
- Demonstrates the functions of consumers and producers within the larger economic systems

EC2.2: Monetary Economics

A student who studies this course

- Understands the concept of Price stability
- Proposes schemes for sustainable economic growth, employment and for increasing economic welfare

EC2.3: International Economics

A student who studies this course

- Learns about the economic policies of developed countries
- Emphasises the urge of improving trade relations between countries for economical growth

EC2.4: Public Finance Administration

A student who studies this course

- Learns about money management
- Understands about system budgeting for maximum control of public expenditure

EC2.5: Statistical Methods

A student who studies this course

- Develops skills in analysing and interpreting statistical data
- Relates statistical methodology to economic enquiry

EC3.1: Economic Growth and Development

A student who studies this course

- Knows about the government initiatives for full employment, price stability, economic growth and redistribution of income etc.
- Understands the need of improving living standards by raising per capita income

EC3.2: Indian Economy

A student who studies this course

- Learns about five year plans and government actions for economical growth
- Develops awareness for improving performance in agriculture

EC3.3: Environmental Economics

A student who studies this course

- Understands the relation between economic development and environmental quality
- Demonstrates various socio-economic possibilities to reduce pollution and to uplift the standards of living

EC3.4: Computer Applications in Economics

A student who studies this course

- Develops skills of using computer applications and software for solving economic problems
- Learns about quality assurance through critically evaluating procedures and results

EC3.5: Labour Economics

A student who studies this course

- Analyses individuals labour supply as the result of the optimum division of time between work and leisure
- Understands the importance of education as an investment and its influence on the current and future labour supply

EC4.1: India's Foreign Trade

A student who studies this course

- Develops insight into India's international trade policy
- Acquires knowledge about trade properties, economic growth and national development

EC4.2: Industrial Economics

A student who studies this course

- Identifies and explains economic concepts and theories related to the behaviour of economic agents, markets, industry and firm structures, legal institutions, social norms and government policies

EC4.3: Agricultural Economics

A student who studies this course

- Differentiates industrial economics and agricultural economics
- Reflects economical, social and environmental considerations
- Understands the challenges in growth when public resources allocated to agriculture are being reduced

EC4.4: Economics of Infrastructure


A student who studies this course

- Learns basic infrastructure and services at the community level
- Promotes awareness about waste management, emergency services, social welfare transport and communication facilities etc.

EC4.5: Financial Markets and Analysis

A student who studies this course

- Demonstrates economic activities in improving standards of living
- Gains knowledge about stock markets



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