



CO 2017 Onwards

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Kottayam-1



# BA – History Model 1

## SEMESTER 1

Course Code: HY1CRT01

Code	HY1CRT01
Title	PERSPECTIVES AND METHODOLOGIES IN SOCIAL SCIENCES- HISTORY
Degree	BA
Branch	HISTORY
Semester	I
Type	Core
Credits	5
Total Hours	80
Hours /week	6

CO No:	Course Outcome	Cog; level	PSO
1.	Understand the unique relevance of Social Sciences among various sciences	Understand	01
2.	Critically evaluate the role of social sciences in solving contemporary issues at regional, state and global levels	Evaluate	01,02
3.	Understand the basic principles and concepts in Social Sciences	Understand	01,13
4.	Compare the relationship between History and other Social Science disciplines	Analyse	01
5.	Identify various methodologies and approaches in History	Understand	01,13
6.	Recognise the nature and scope of History and it's epistemology	Understand	01

Course Code: HY1CMT01

Code	HY1CMT01
Title	ROOTS OF THE MODERN WORLD
Degree	BA
Branch(s)	HISTORY
Semester	1
Type	Complementary [For Sociology]
Credits	4

<b>Total Hours</b>	<b>74</b>
<b>Hours/week</b>	<b>6</b>

<b>C.O</b>	<b>Course Outcome</b>	<b>Cog: level</b>	<b>PSO</b>
1.	Describe the decline of feudalism and explain the growth of capitalism.	Remember, Understand.	1,8
2.	Identify the significance of the renaissance period in sowing the seeds of capitalism.	Analyse, Evaluate	2,9
3.	Judge the role of intellectuals in the social transformation of the middle age Europe.	Create.	2,8.
4.	Illustrate the legacy of industrial and agricultural revolutions in the collapse of feudalism and growth of capitalism.	Understand.	1,8
5.	Estimate the works of the French revolutionaries in challenging the absolute monarchies of Europe.	Apply	2.
6.	Summarise the efforts of colonialist powers to transform the ideas and cultural life of the colonies.	Understand.	2,5

**Course Code: HY1CMT02**

<b>Code</b>	<b>HY1CMT02</b>
<b>Title</b>	<b>SOCIAL FORMATIONS IN PRE-MODERN INDIA</b>
<b>Degree</b>	<b>BA</b>
<b>Branch(s)</b>	<b>HISTORY</b>
<b>Semester</b>	<b>1</b>
<b>Type</b>	<b>Complementary [For Economics]</b>
<b>Credits</b>	<b>4</b>
<b>Total Hours</b>	<b>79</b>
<b>Hours /week</b>	<b>6</b>

<b>C.O</b>	<b>Course Outcome</b>	<b>Cog: level</b>	<b>PSO</b>
1.	Examine the role of trade and urbanism in ancient India	Analyse	04
2.	Differentiate the teachings of various heterodox religions and their impact on Pre-modern India	Analyse	04,10
3	Understand various features of polity, society and economy under Aryans, Mauryans and in Tamizhakom	Understand	04, 05
4.	Develop a critical approach towards the casteism in India	Create	02,03,05

5.	Analyse the features of Indian feudalism	Analyse	04, 05
6.	Understand the technological innovations and their impact on the economy of Delhi Sultanate	Understand	10.
7.	Evaluate power structure and social formations in pre- colonial India	Evaluate	10
8.	Understand the socio-economic and religious condition of Mughal India	Understand	02,10

## SEMESTER II

**Course Code: HY2CRT02**

<b>Code</b>	<b>HY2CRT02</b>
<b>Title</b>	<b>Understanding Early India: From Hunting Gatherers to Land Grants</b>
<b>Degree</b>	<b>BA</b>
<b>Branch(s)</b>	<b>HISTORY</b>
<b>Semester</b>	<b>2</b>
<b>Type</b>	<b>Core</b>
<b>Credits</b>	<b>5</b>
<b>Total Hours</b>	<b>73</b>
<b>Hours /week</b>	<b>6</b>

CO	Course Outcome	Cog;level	PSO
1.	Identify prehistoric cultures in India	Understand	04
2.	Appraise the achievements of Harappans in the fields of urbanism and trade	Evaluate	04,05
3.	Identify the pre-harappan cultures and sites in India	Understand	04
4.	Identify various literary and archaeological sources of early India	Understand	04
5.	Compare the society, polity and economy of early and later vedic people	Analyse	04,05
6.	Understand the process of state formation in early India and in Mauryan period	Understand	04,05
7.	Compare the teachings of various heterodox sects	Analyse	04
8.	Evaluate the features of administration under Mauryans, post-Mauryans and Guptas	Evaluate	04,05

9.	Critically evaluate the growth of Feudalism	Evaluate	04,05
10.	Appraise the achievements of early India in the fields of art and architecture	Evaluate	04.05

**Course Code: HY2CMT03**

<b>Code</b>	<b>HY2CMT03</b>
<b>Title</b>	<b>TRANSITION TO THE CONTEMPORARY WORLD</b>
<b>Degree</b>	<b>BA</b>
<b>Branch(s)</b>	<b>HISTORY</b>
<b>Semester</b>	<b>2</b>
<b>Type</b>	<b>Complementary [Sociology, Economics]</b>
<b>Credits</b>	<b>4</b>
<b>Total Hours</b>	<b>70</b>
<b>Hours /week</b>	<b>6</b>

CO	Course Outcome	Cog;level	PSO
1.	Describes the end of absolute monarchy and it's continental impact	Understand	08
2.	Recognise the growth of principles of nationalism and democracy	Analyse	08
3.	Examine the cause and consequence of imperialism upon world	Analyse	08
4.	Judge Aggressive nationalism and its world wide consequences	Evaluate	08
5.	Sketch the Spread of new ideologies and its impact upon East European and Asian countries	Application	08
6.	Explain Turbulences and transitions in the world economy and it's results	Understand	08,12
7.	Identify Boons and curses of modern world	Understand	08

### SEMESTER III

**Course Code: HY3CRT03**

<b>Code</b>	<b>HY3CRT03</b>
<b>Title</b>	<b>POLITY ,SOCIETY AND ECONOMY IN PRE COLONIAL INDIA</b>
<b>Degree</b>	<b>BA</b>
<b>Branch(s)</b>	<b>HISTORY</b>
<b>Semester</b>	<b>3</b>

<b>Type</b>	<b>Core</b>
<b>Credits</b>	<b>4</b>
<b>Total Hours</b>	<b>70</b>
<b>Hours /week</b>	<b>4</b>

<b>CO</b>	<b>Course out come</b>	<b>Cog; Level</b>	<b>PSO</b>
1.	Understand the historiography of medieval India	Understand	4
2.	Identify polity, institutional structures, Economic production in precolonial India.	Analysing	4
3.	Analyse the administrative s y s t e m of medieval empires in India.	Analysing	10, 4
4.	Appraise medieval India's contributions in the field of art and architecture	Evaluate	4
5.	Recognise the importance and impact of religious movements in the political ,social fields of medieval society	Understand	4
6.	Evaluate the emergence of Regional political formations and withering away of mighty medieval empires	Evaluate	4

**Course Code: HY3CRT04**

<b>Code</b>	<b>HY3CRT04</b>
<b>Title</b>	<b>CULTURAL TRENDS IN PRE-COLONIAL KERALA</b>
<b>Degree</b>	<b>BA</b>
<b>Branch(s)</b>	<b>HISTORY</b>
<b>Semester</b>	<b>3</b>
<b>Type</b>	<b>Core</b>
<b>Credits</b>	<b>4</b>
<b>Total Hours</b>	<b>73</b>
<b>Hours /week</b>	<b>4</b>

<b>C.O</b>	<b>Course Outcome</b>	<b>Cog:level</b>	<b>PSO</b>
1.	Examine the relevance of ecology in the history of Kerala	Analyse	04,05
2	Understand various primary and secondary sources of Kerala History	Understand	04,05
3	Analyse the features of pre historic cultures of Kerala	Analyse	04,05

4	Investigate the influence of various religions on the socio-cultural life of Kerala	Create	02,04, 13
5	Discuss the impact of foreign trade contacts on the economic growth of pre-colonial Kerala	Understand	04, 12
6	Compare the changes in the status of women in Pre-colonial Kerala	Analyse	03,04,05, 11
7	Critically examine the caste system and social stratification in Pre-modern Kerala	Evaluate	02, 03, 05
8	Understand the various political systems of Pre-colonial Kerala	Understand	04, 05
9	Understand various achievements of pre-colonial Kerala society in various fields like mathematics, science etc.	Understand	04,05

## SEMESTER IV

**Course Code: HY4CRT05**

<b>Code</b>	<b>HY4CRT05</b>
<b>Title</b>	<b>MAKING OF MODERN KERALA</b>
<b>Degree</b>	<b>B A</b>
<b>Branch</b>	<b>HISTORY</b>
<b>Semester</b>	<b>4</b>
<b>Type</b>	<b>Core</b>
<b>Credits</b>	<b>4</b>
<b>Total hours</b>	<b>77</b>
<b>Hours per week</b>	<b>4</b>

CO	Course Outcome	Cog;level	PSO
1.	Critically evaluate the impact of European advent on the socio-economic life of Kerala	Evaluate	10
2.	Analyse the formation of modern Travancore and Kochi	Analyse	6
3.	Understand the socio-economic impact of Mysorean invasion	Understand	6
4.	Discuss the anti-British struggles and political movements in Kerala	Understand	6,7
5.	Develop an attitude towards caste discriminations and social evils in Kerala society	Create	3,5
6.	Understand role of various reformers and missionaries in making modern Kerala	Understand	5,6

7.	Investigate the developments and changes that took place in social, political and cultural spheres since 1956	Create	6
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**Course Code: HY4CRT06**

<b>Code</b>	<b>HY4CRT06</b>
<b>Title</b>	<b>RESEARCHING THE PAST</b>
<b>Degree</b>	<b>B A</b>
<b>Branch</b>	<b>HISTORY</b>
<b>Semester</b>	<b>4</b>
<b>Type</b>	<b>Core</b>
<b>Credits</b>	<b>4</b>
<b>Total hours</b>	<b>70</b>
<b>Hours per week</b>	<b>5</b>

CO	Course Outcome	Cog; level	PSO
1.	Identify the basic terms, concepts and categories in research	Understand	14
2.	Examine the importance of sources in History	Analyse	14
3.	Value the importance of interpreting sources in historical research and methodology of historical writing	Evaluate	14
4.	Sketch the importance of documentation in research	apply	14
5.	Understand the discipline as an intelligent knowledge system	Understand	14
6.	Identify the basic terms, concepts and categories in Research	Understand	14
7.	Examine the importance of sources in History	Analyse	14

## SEMESTER V

**CourseCode: HY5CRT07**

<b>Code</b>	<b>HY5CRT07</b>
<b>Title</b>	<b>INHERITANCE AND DEPARTURES IN HISTORIOGRAPHY</b>
<b>Degree</b>	<b>B A</b>
<b>Branch</b>	<b>HISTORY</b>
<b>Semester</b>	<b>V</b>
<b>Type</b>	<b>Core</b>



<b>Credits</b>	<b>4</b>
<b>Total hours</b>	<b>70</b>
<b>Hours per week</b>	<b>5</b>

<b>C.O</b>	<b>Course Outcome</b>	<b>Cog:level</b>	<b>PSO</b>
1.	To develop critical thinking about the nature and merits of classical Historiographical trends	Evaluate	14
2.	To develop skills in comparing western, oriental trends and notions in Historiography	Evaluate and Application	13,14
3.	Comparing interpretation shifts in the philosophy of History	Application	14
4.	Classifying classical and medieval Historiographical trends in the philosophy of History	Application	14
5.	Identifying developments in post modern Historiography	Understand	1
6.	Recognise the importance of post colonial Historiography	Understand	1
7.	Understand Historiography of marginalised sections	Understand	1

**Course Code: HY5CRT08**

<b>Code</b>	<b>HY5CRT08</b>
<b>Title</b>	<b>INDIA – NATION IN THE MAKING</b>
<b>Degree</b>	<b>B A</b>
<b>Branch</b>	<b>HISTORY</b>
<b>Semester</b>	<b>V</b>
<b>Type</b>	<b>Core</b>
<b>Credits</b>	<b>4</b>
<b>Total hours</b>	<b>70</b>
<b>Hours per week</b>	<b>5</b>

<b>C.O</b>	<b>Course Outcome</b>	<b>Cog:level</b>	<b>PSO</b>
1.	Examine and describe the impoverishment of the Indian economy in colonial period	Remember	5, 7
2.	Explain the revolt of 1857 to check the correctness of terming it the first war of independence.	Understand , analyse	1,5

3.	Illustrate the contributions of social reformers and estimate the influence of them on the growth of nationalism in India.	Understand , apply	5,7
4.	Estimate the role of Indian national congress and distinguish the functioning with other political outfits.	Apply, analyse	7,9
5.	Describe the significance of the political leadership of Mahatma Gandhi in integrating and encouraging the masses for the national movement.	Remember, evaluate	5,7
6.	Critically analyse the errors in understanding the partition as a result of communal antagonism	Evaluate, analyse.	9.

**Course Code: HY5CRT 09**

<b>Code</b>	<b>HY5CRT09</b>
<b>Title</b>	<b>STATE AND SOCIETY IN ANCIENT AND MEDIEVAL WORLD</b>
<b>Degree</b>	<b>BA</b>
<b>Branch(s)</b>	<b>HISTORY</b>
<b>Semester</b>	<b>5</b>
<b>Type</b>	<b>Core</b>
<b>Credits</b>	<b>4</b>
<b>Total Hours</b>	<b>77</b>
<b>Hours /week</b>	<b>5</b>

<b>C.O</b>	<b>Course Outcome</b>	<b>Cog:level</b>	<b>PSO</b>
1.	Identify the various stages of human evolution process	Understand	05
2.	Compare the features of different phases of stone age	Analyse	04, 05
3.	Differentiate the features and achievements of various bronze age civilizations	Analyse	03, 04,05
4.	Discuss the implications of iron technology in the life and culture of Greeks and Romans.	Understand	04, 05
5.	Appraise the achievements of iron age civilizations in the fields of democracy, economy , Philosophy and law	Evaluate	04,05
6.	Discuss the rise, growth and contributions of Christianity and Islam	Understand	03,04, 05
7.	Examine the growth of medieval towns, universities and Guilds	Analyse	04,05

**Course Code: HY5CRT 10**

<b>Code</b>	<b>HY5CRT10</b>
<b>Title</b>	<b>ENVIRONMENTAL STUDIES AND HUMAN RIGHTS IN HISTORICAL OUTLINE</b>
<b>Degree</b>	<b>BA</b>
<b>Branch(s)</b>	<b>HISTORY</b>
<b>Semester</b>	<b>5</b>
<b>Type</b>	<b>Core</b>
<b>Credits</b>	<b>4</b>
<b>Total Hours</b>	<b>72</b>
<b>Hours /week</b>	<b>5</b>

<b>C .O</b>	<b>Course Outcome</b>	<b>Cog: level</b>	<b>PSO</b>
<b>1.</b>	Recognise the importance and value of Environment and inculcate a positive attitude towards environment	Understand	2,5
<b>2.</b>	Formulate an enthusiasm to address upcoming global environmental issues	Create, application	2,5
<b>3.</b>	Examine the causes of environmental crisis in India and it's apparent relation with colonialism	Application	2,5
<b>4.</b>	Identify post colonial developmental drives and its impact on environment there by recognise the importance of unique struggles from the margins of society	Understand	5
<b>5.</b>	Recognise the legacy of Human Rights and it's value dimensions	Understand	5
<b>6.</b>	Critical Appraisal of UN's contributions in the genesis and growth of Human Rights	Evaluate	5
<b>7.</b>	Identify the efforts of Indian constitution to protect human rights	Understand	5

**Course code:HY5OCT02**

<b>Code</b>	<b>HY5OCT02</b>
<b>Title</b>	<b>SOCIAL IMPLICATIONS OF MODERN REVOLUTIONS</b>
<b>Degree</b>	<b>BA</b>
<b>Branch(s)</b>	<b>HISTORY</b>
<b>Semester</b>	<b>5</b>
<b>Type</b>	<b>Open Course</b>
<b>Credits</b>	<b>3</b>

<b>Total Hours</b>	<b>58</b>
<b>Hours /week</b>	<b>4</b>

<b>C.O</b>	<b>Course Outcome</b>	<b>Cog:level</b>	<b>PSO</b>
1.	Describe the meaning and relevance of revolutions.	Remember	2
2.	Discuss the legacy of renaissance and reformation in the social transformation of Europe.	Understand	1,8
3	Understand the impact of intellectual revolution and mercantilism	Understand	12
4	Estimate the influence of French revolution and explain its intercontinental impact.	Apply, understand.	2,5,8
5	Determine the significance of industrial revolution and agricultural revolution in bringing about capitalism	Apply, Evaluate.	1,2
6	Critically analyse the Bolshevik revolution and prove the theory of export of communism.	Create, analyse remember.	2,5
7	Critically analyse the relevance of technological revolution in the modern world	Create , Analyse	2 4

## SEMESTER IV

**Course Code: HY6CRT11**

<b>Code</b>	<b>HY6CRT11</b>
<b>Title</b>	<b>MAKING OF CONTEMPORARY INDIA</b>
<b>Degree</b>	<b>B A</b>
<b>Branch</b>	<b>HISTORY</b>
<b>Semester</b>	<b>6</b>
<b>Type</b>	<b>Core</b>
<b>Credits</b>	<b>4</b>
<b>Total hours</b>	<b>75</b>
<b>Hours per week</b>	<b>5</b>

<b>CO</b>	<b>Course Outcome</b>	<b>Cog:level</b>	<b>PSO</b>
1.	Analyse the situations that led to the partition of India	Analyse	10,7
2.	Evaluate the problems of migration and rehabilitation that followed the partition	Evaluate	2,3
3.	Appraise the efforts put forward by the nationalist leaders to achieve peace and progress in Independent India	Evaluate	4,5,7

4.	Recognise the importance of Five Year Plans and other programmes in making contemporary India.	Understand	4,5,7,
5.	Critically evaluate caste and communal threats in new and contemporary India	Evaluate	2,3,7
6.	Understand the role of NEP and Globalization in bringing progress to the nation	Understand	10
7.	Develop a sense of pride and confidence for being the citizens of India	Create	5

**Course Code: HY6CRT12**

<b>Code</b>	<b>HY6CRT12</b>
<b>Title</b>	<b>UNDERSTANDING MODERN WORLD</b>
<b>Degree</b>	<b>B A</b>
<b>Branch</b>	<b>HISTORY</b>
<b>Semester</b>	<b>6</b>
<b>Type</b>	<b>Core</b>
<b>Credits</b>	<b>4</b>
<b>Total hours</b>	<b>74</b>
<b>Hours per week</b>	<b>5</b>

CO	Course Outcome	Cog;level	PSO
1.	Understand the role of european power politics in triggering the world wars.	Understand	8
2.	Critically evaluate the socio, political transformation of colonies.	Evaluate	8,12
3.	Describe the developments during the inter war period affecting the global peace.	Remember	8,12
4.	Estimate the growth of anti colonial struggles in the succesful pursuit of decolonisation.	Apply	8,12
5.	Analyse the factors that affected the international peace during the post world war period.	Analyse	8,12

**Course Code: HY6CRT13**

<b>Code</b>	<b>HY6CRT13</b>
<b>Title</b>	<b>CAPITALISM AND COLONIALISM</b>
<b>Degree</b>	<b>B A</b>

<b>Branch</b>	<b>HISTORY</b>
<b>Semester</b>	<b>6</b>
<b>Type</b>	<b>Core</b>
<b>Credits</b>	<b>4</b>
<b>Total hours</b>	<b>70</b>
<b>Hours per week</b>	<b>5</b>

<b>CO</b>	<b>Course Outcome</b>	<b>Cog;level</b>	<b>PSO</b>
1.	Describe the emergence of capitalism and colonialism in Europe	Remember	12
2.	Summarize the related expansion of capitalism as a world system	Understand	12
3.	Examine the new wave of imperialist domination in the 19 & 20 centuries	Analyse	12
4.	Explain the emergence of finance capitalism and different theories of imperialism	Understand	12
5.	Analyse the Global Spread of imperialism	Analyse	12
6.	Appraise the positive and negative impact of imperialism	Evaluate	12
7.	Examine Nature of economic development after decolonization	analyse	12

**Course Code: HY6CRT14**

<b>Code</b>	<b>HY6CRT14</b>
<b>Title</b>	<b>GENDER IN INDIAN PERSPECTIVES</b>
<b>Degree</b>	<b>B A</b>
<b>Branch</b>	<b>HISTORY</b>
<b>Semester</b>	<b>6</b>
<b>Type</b>	<b>Core</b>
<b>Credits</b>	<b>4</b>
<b>Total hours</b>	<b>70</b>
<b>Hours per week</b>	<b>5</b>

<b>CO</b>	<b>Course Outcome</b>	<b>Cog;level</b>	<b>PSO</b>
1.	Identify the importance of gender studies	Understand	11
2.	Examine the socio historical construction in Indian society by emphasizing the plural back grounds	Analyse	11

3.	Develop an attitude to challenge the conventional social norms	Create	11
4.	Recognise how wealth, politics and power establishes gender difference	Understand	11

**Course Code: HY6CBT01**

<b>Code</b>	<b>HY6CBT01</b>
<b>Title</b>	<b>ARCHAEOLOGY IN INDIA</b>
<b>Degree</b>	<b>B A</b>
<b>Branch</b>	<b>HISTORY</b>
<b>Semester</b>	<b>6</b>
<b>Type</b>	<b>Choice Based</b>
<b>Credits</b>	<b>3</b>
<b>Total hours</b>	<b>60</b>
<b>Hours per week</b>	<b>4</b>

CO	Course Outcome	Cog;level	PSO
1	Understand the nature and scope of Archaeology both as a science and social science	Understand	15
2	Distinguish various methods adopted in Archaeology for exploration and excavation	Analyse	15
3	Understand various principles in Archaeology	Understand	15
4	Analyse the growth of Archaeology in India	Analyse	15
5	Evaluate the role of ASI and British archaeologists in India	Evaluate	15
6	Recognise importance archaeological sites and monuments in India	Understand	15
7	Develop an interest in visiting important archaeological sites	Create	15

# BA – Economics

## SEMESTER I

Course	Details
Code	EC1CRT01
Title	<b>PERSPECTIVES AND METHODOLOGY OF ECONOMICS</b>
Degree	B A
Branch(s)	ECONOMICS
Semester	I
Type	CORE
Credits	4
Total hours	108
Hours per week	6

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the basic concepts in economics and related disciplines	U	6
2	Understand the role of economics among other social sciences	U	1,6
3	Comprehend on the basic postulates of different schools of economic thought	U	6
4	Familiarise with important research techniques and tools	U	7
5	Understand the contributions of eminent economists	U	3
6	Apply different methods of research in small studies	Ap	7
7	Understand different methodological concepts in economic analysis	U	2

PSO –Program Specific Outcome; CO- Course Outcome

Cognitive Level: R- Remember, U-Understanding, Ap- Application; An- Analyse; E- Evaluate; C- Create

Course	Details
Code	EC1CMT01
Title	<b>PRINCIPLES OF ECONOMICS</b>
Degree	B.A
Branch(s)	ECONOMICS
Semester	I
Type	COMPLEMENTARY(For History)
Credits	4
Total hours	108



Hours per week	6
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CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the concepts of Microeconomics	U	1
2	Evaluate the policies adopted to solve the basic economic problems	E	2
3	Understand the features of different economic systems	U	5,6
4	Analyse and predict the behaviour of consumers and producers in a market	An	4,6&7
5	Understand about different production theories	U	5

\*PSO –Program Specific Outcome; CO- Course Outcome

Cognitive Level: R- Remember, U-Understanding, Ap- Application; An- Analyse; E- Evaluate; C-Create

## SEMESTER II

Course	Details
Code	EC2CRT02
Title	<b>MICRO ECONOMIC ANALYSIS 1</b>
Degree	B.A
Branch(s)	ECONOMICS
Semester	II
Type	CORE
Credits	5
Total hours	108
Hours per week	6

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the basic economic concepts in micro economics	U	5
2	Analyze various aspect of consumer behaviour	An	1,2
3	Build a consensus on the problems of demand and supply in the economy	C	2,4
4	Apply the concepts of utility, elasticity in real life situation	Ap	1,2,
5	Acquire skill in predicting economic problems using micro economic tool	C	1,2,4

Course	Details
Code	EC2CMT02
Title	<b>BASIC ECONOMIC STUDIES</b>

Degree	B.A
Branch(s)	ECONOMICS
Semester	III
Type	Complementary(for B.A History)
Credits	4
Total hours	108
Hours per week	6

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the elementary concepts in macro economics	U	5
2	Analyse the subject matter of public economics	An	1,2
3	Explain the financial system prevail in India	U	4,5
4	Examine the features of Indian economy from post independent era, citing the contemporary issues and reforms	Ap	1,2
5	Analyse the basic economic issues in Kerala economy	An	1,2 ,4

Course	Details
Code	EC5CRT08
Title	MICRO ECONOMIC ANALYSIS II
Degree	B.A
Branch(s)	ECONOMICS
Semester	III
Type	CORE COURSE
Credits	5
Total hours	72
Hours per week	4

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the various microeconomic concepts	U	1,5
2	Analyse the behaviour of firms in different market structures	An	4
3	Evaluate the different theories of income distributions	E	5,6
4	Evaluate the criteria for attaining general economic welfare	E	2,8
5	Understand the modern theories of pricing	U	4,5

Course	Details
Code	EC3CRT04
Title	ECONOMICS OF GROWTH AND DEVELOPMENT

Degree	B.A
Branch(s)	ECONOMICS
Semester	III
Type	CORE
Credits	4
Total hours	90
Hours per week	5

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the elementary concepts in growth and development	U	5
2	Compare various indicators of development	U	1,2
3	Interpret the theories of development and assess on its relevance today	E	4,5
4	Identify the major issues in development	Ap	1,2
5	Analyze the technique used to measure social issues like inequality, poverty etc.	An	1,2 ,7
6	Understand the human capital formation	U	1,4 ,6

Course	Details
Code	EC3CMT01
Title	<b>PRINCIPLES OF ECONOMICS</b>
Degree	B.A
Branch(s)	ECONOMICS
Semester	III
Type	COMPLEMENTARY(For B.A Sociology)
Credits	4
Total hours	108
Hours per week	6

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the concepts of Microeconomics	U	1
2	Evaluate the policies adopted to solve the basic economic problems	E	2
3	Understand the features of different economic systems	U	5,6
4	Analyse and predict the behaviour of consumers and producers in a market	An	4,6&7

5	Understand about different production theories	U	5
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Course	Details
Code	EC4CRT05
Title	<b>MACROECONOMICS I</b>
Degree	B.A
Branch(s)	ECONOMICS
Semester	IV
Type	CORE
Credits	5
Total hours	90
Hours per week	5

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Explain core concepts in economic analysis	U	1
2	Illustrate national income accounting I India	Ap	1,2,7
3	Describe the classical economic thought	U	1
4	Analyse the Keynesian economic ideology	An	1,5
5	Explain the orthodox Keynesian thoughts	U	1,5,7
6	Predict fluctuations in the economy	C	1,2,5

Course	Details
Code	EC4CRT06
Title	<b>PUBLIC ECONOMICS</b>
Degree	B.A
Branch(s)	ECONOMICS
Semester	IV
Type	CORE COURSE
Credits	5
Total hours	72
Hours per week	4

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the day to day activities of government	U	1,2
2	Evaluate the effectiveness of fiscal policy	E	2,8

3	Understand the working of local administration	U	1
4	Understand the different facets of government budget	U	1,6
5	Critically analyse the central- state relationship	An	1,8
6	Understand the various policies of government	U	1
7	Understand the different revenue sources of government	U	2

Course	Details
Code	EC2CMT04
Title	<b>BASIC ECONOMIC STUDIES</b>
Degree	B.A
Branch(s)	ECONOMICS
Semester	III
Type	Complementary(For B.A Sociology)
Credits	4
Total hours	108
Hours per week	6

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the elementary concepts in macro economics	U	5
2	Analyse the subject matter of public economics	An	1,2
3	Explain the financial system prevail in India	U	4,5
4	Examine the features of Indian economy from post independent era, citing the contemporary issues and reforms	Ap	1,2
5	Analyse the basic economic issues in Kerala economy	An	1,2 ,4

Course	Details
Code	EC5CRT07
Title	<b>QUANTITATIVE TECHNIQUES</b>
Degree	B A
Branch(s)	ECONOMICS
Semester	V
Type	CORE
Credits	4
Total hours	108
Hours per week	6

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
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1	Analyse economic facts in a mathematical format	An	9
2	Understand the basic statistical concepts	U	9
3	Evaluate the practicability of an investment decision	E	9
4	Study economic theories with ease	Ap	1,9
5	Understand graphical analysis in economic theories	U	5,9

Course	Details
Code	EC5CRT08
Title	<b>MACRO ECONOMICS II</b>
Degree	B.A
Branch(s)	ECONOMICS
Semester	V
Type	CORE COURSE
Credits	5
Total hours	108
Hours per week	5

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand about Consumption and Investment in detail	U	1,5
2	Evaluate the effectiveness of fiscal & monetary policies	E	2,8
3	Understanding the economic fluctuations	U	4
4	Analyse the impact of price changes on the economy	An	4
5	Understand the recent trends in Macroeconomics	U	5,6
6	Understand the problem of unemployment	U	1

Course	Details
Code	EC5OPT01
Title	<b>FUNDAMENTALS OF ECONOMICS</b>
Degree	B.A
Branch(s)	ECONOMICS
Semester	V
Type	OPEN COURSE
Credits	4
Total hours	72
Hours per week	4

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the basic concepts in Micro and Macroeconomics	U	1,5
2	Evaluate the actions of government authorities	E	2
3	Understand the fluctuations in economic activities	U	4
4	Understand the role of banking institutions	U	6
5	Understand the international trade relations of the country	U	1
6	Understand about Indian and Kerala economy in detail	U	1,2

Course	Details
Code	EC5CRT09
Title	ENVIRONMENTAL ECONOMICS
Degree	B A
Branch(s)	Economics
Semester	V
Type	Core
Credits	4
Total hours	90
Hours per week	5

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand important concept in environmental economics	U	5
2	Analyze the relationship between economics and environment through models and theories	An	2, 5
3	Identify the major environmental issues and suggest remedies	Ap	1,8
4	Evaluate development approaches from an environment perspective	E	1,2
5	Build environment consciousness and sustainable development approach	C	2,8
6	Listing out various human rights for the betterment of man and nature	An	2,8

Course	Details
Code	EC5CRT10
Title	INTRODUCTORY ECONOMETRICS
Degree	B.A
Branch(s)	ECONOMICS

<b>Semester</b>	V
<b>Type</b>	CORE
<b>Credits</b>	4
<b>Total hours</b>	90
<b>Hours per week</b>	4

<b>CO No.</b>	<b>Expected Course Outcomes Upon completion of this course the students will be able to:</b>	<b>Cognitive level</b>	<b>PSO No.</b>
1	Understand the basic concepts of econometrics	U	5
2	Understand the importance of econometrics in solving economic problems	U	1
3	Understand the tool of regression	U	7
4	Understand the methods of hypothesis testing	U	7
5	Understanding the major problems faced in econometric analysis	U	1
6	Application of the techniques for analysing economic theories	Ap	7

<b>Course</b>	<b>Details</b>
<b>Code</b>	EC6CRT11
<b>Title</b>	<b>QUANTITATIVE METHODS</b>
<b>Degree</b>	B.A
<b>Branch(s)</b>	ECONOMICS
<b>Semester</b>	VI
<b>Type</b>	CORE COURSE
<b>Credits</b>	4
<b>Total hours</b>	108
<b>Hours per week</b>	6

<b>CO No.</b>	<b>Expected Course Outcomes Upon completion of this course the students will be able to:</b>	<b>Cognitive level</b>	<b>PSO No.</b>
1	Understand the different methods of data collection	U	1&7
2	Analyse the data collected with the aid of various statistical tools	An	7&9
3	Evaluate and interpret the result of empirical data	E	4,7
4	Apply the measures of central tendencies while studying economic issues.	Ap	4,7
5	Understand the different methods of dispersion to do economic research	U	7
6	Create basic knowledge in correlation and regression techniques which is crucial for econometric studies.	C	7,9



7	Apply price index methods to study the expenditure pattern	Ap	9
8	Predict future trends in markets through time series analysis	C	9

Course	Details
Code	EC6CRT12
Title	International economics
Degree	B.A
Branch(s)	ECONOMICS
Semester	II
Type	CORE
Credits	4
Total hours	90
Hours per week	5

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the basic economic concepts in international economics	U	5
2	Analyze different theories of international trade and comment on its relevance today	An	1,5
3	Application of the international economic concept in contemporary times	Ap	1,5
4	Decipher the trade relation between countries	An	1,2,5
5	Explain international monetary institution and its importance	Un	5

Course	Details
Code	EC6CBT01
Title	Mathematics For Economic Analysis
Degree	B.A
Branch(s)	Economics
Semester	VI
Type	Choice Based Elective
Credits	3
Total hours	72
Hours per week	4

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
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1	Describe core concepts in mathematics	R	7
2	Understand the importance of mathematics in economics	U	7
3	Construct different optimization techniques in economic problems	Ap	7
4	Jude the applicability of investment ideas	E	1,5
5	Analyse the economic applicability of calculus	An	1,5,7

Course	Details
Code	EC6CRT13
Title	Money and Financial Markets
Degree	B.A
Branch(s)	Economics
Semester	VI
Type	Core
Credits	4
Total hours	108
Hours per week	5

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	List different components of financial markets	R	2
2	Explain the working of financial markets	U	1
3	Illustrate the working of banking systems in our country	Ap	2
4	Distinguish between different types of financial instruments	An	5
5	Judge the working of commercial banking system in India	E	5
6	Explain the working of the central bank in the country	A	2,3

Course	Details
Code	EC6CRT14
Title	Indian economy
Degree	B.A
Branch(s)	ECONOMICS
Semester	II
Type	CORE
Credits	4
Total hours	90
Hours per week	5

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the basic economic concepts in Indian economy	U	5
2	Analyze Indian economy development from post independence period	An	1,5
3	Examine different sectors and their contribution to GDP	E	1,5
4	Identify the major developmental issues prevailing in Indian economy	An	1,2,5
5	Examine Kerala model of development, analyze growth pattern and contemporary issues	E, An	5

## BA - Sociology

Course	Details
Code	SO1CRT01
Title	Methodology and Perspectives of Social Science
Degree	B A
Branch(s)	Sociology
Semester	I
Type	Core
Credits	4
Total hours	108
Hours per week	6
Course Instructor (s)	Alphonsa Kurian/Anna Thomas

CO	Course Outcomes Upon completion of this course the students will be able to:	CL	PSO
1	Understand the origins of social sciences	U	PSO2
2	Understand the differences between social science and other fields of knowledge	U	PSO1
3	Understand the epistemological issues in social science	U	PSO3
4	Explain the works of two key Indian social science researchers	U	PSO5

Course	Details
Code	SO2CRT02
Title	The Foundations of Sociology
Degree	B A
Branch	SOCIOLOGY
Semester	II
Type	CORE
Credits	5
Total hours	108
Hours per week	6
Instructor	Prof.Alphonsa Kurian/Anna Thomas

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the origins of the discipline of Sociology	U	PS01, PS02
2	Understand basic Sociological Terminologies	U	PS01, PS02
3	Familiarise the learners with the role of socialisation process	U	PS04
4	Identify the learners a basic understanding of social life.	U	PS04
5	Understand the learners about social institution	U	PS01, PS06

Course	Details
Code	SO3CRT03
Title	Classical Sociological Theories
Degree	B.A
Branch(s)	Sociology
Semester	III
Type	CORE COURSE
Credits	4
Total hours	90

<b>Hours per week</b>	5
<b>Instructor (s)</b>	Prof. Alphonsa Kurian & Dr. Reeja P. S

<b>CO No.</b>	<b>Expected Course Outcomes Upon completion of this course the students will be able to:</b>	<b>CL</b>	<b>PSO</b>
<b>1</b>	Understand the various theories of founding fathers of Sociology	U	1,5
<b>2</b>	Analyse the basic theoretical perspectives in Sociology	An	3
<b>3</b>	Evaluate the different theoretical perspectives and enable to know its scope	E	3
<b>4</b>	Evaluate the theorist's contribution to the emergence of Sociology	E	2,3
<b>5</b>	Understand the development of academic Sociology	U	2,3
<b>6</b>	Understand the development of Individualistic Methodology in Sociology	U	3,5
<b>7</b>	Identify the basic divisions in Sociological Theories	Ap	3

<b>Course</b>	<b>Details</b>
<b>Code</b>	SO3CRT04
<b>Title</b>	PRINCIPLES OF SOCIAL RESEACH
<b>Degree</b>	B A
<b>Branch</b>	SOCIOLOGY
<b>Semester</b>	III
<b>Type</b>	CORE
<b>Credits</b>	4
<b>Total hours</b>	72
<b>Hours per week</b>	5
<b>Instructor</b>	Dr. Reeja PS

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the meaning of concepts and types of social research	U	PS04
2	Understand how to formulate research problems	U	PS04
3	Determine various tools of data collection	U	PS04
4	Familiarise with various sampling methods in social research	U	PS04
5	Understand the analysis and interpretation of data	U	PS04
6	Apply various methods of research to explore social problems	Ap	PS07
7	Create a research design/plan for research studies in sociology	C	PS08

Course	Details
Code	SO3CMT01
Title	Introduction to Sociology
Degree	B A
Branch(s)	Sociology
Semester	III
Type	Complementary Course III
Credits	4
Total hours	108
Hours per week	6
Course Instructor	Anna Thomas

CO	Course Outcomes Upon completion of this course the students will be able to:	CL	PSO
1	Understand the origins of the discipline of sociology	U	PSO2
2	Understand the contemporary relevance of the discipline of sociology	U	PSO1

<b>3</b>	Understand basic sociological concepts	U	PSO3
<b>4</b>	Evaluate contemporary factors of change in modern societies	An	PSO5

Course	Details
<b>Code</b>	<b>SO4CRT05</b>
<b>Title</b>	<b>MODERN SOCIAL THEORIES</b>
<b>Degree</b>	BA
<b>Branch(s)</b>	SOCIOLOGY
<b>Semester</b>	IV
<b>Type</b>	CORE COURSE
<b>Credits</b>	4
<b>Total hours</b>	<b>90</b>
<b>Hours per week</b>	5
<b>Course Instructor</b>	Dr. Reeja P.S

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
<b>1</b>	Understand theoretical concepts on modern sociology	U	PS01, PS02
<b>2</b>	Understand various theoretical approach in sociology	U	PS02
<b>3</b>	Analyze various theoretical approach in sociology	An	PS02 & PS03

Course	Details
<b>Code</b>	SO4CRT06
<b>Title</b>	Social Structure and Change in India
<b>Degree</b>	B A
<b>Branch(s)</b>	Sociology
<b>Semester</b>	IV
<b>Type</b>	Core Course
<b>Credits</b>	4

<b>Total hours</b>	72
<b>Hours per week</b>	4
<b>Course Instructor</b>	Prof. Alphonsa Kurian/Dr Reeja PS

<b>CO</b>	<b>Course Outcomes</b> Upon completion of this course the students will be able to:	<b>CL</b>	<b>PSO</b>
<b>1</b>	Understand the historical basis of Indian Society	U	PSO2, PSO6
<b>2</b>	Understand the contemporary relevance of the various Social Institutions	U	PSO1, PSO5
<b>3</b>	Identify the basic nature and diversities of Religion in India	U	PSO6
<b>4</b>	Evaluate contemporary social change in modern societies	An	PSO5

<b>Course</b>	<b>Details</b>
<b>Code</b>	SO4CMT02
<b>Title</b>	Development of Sociological Theories
<b>Degree</b>	B A
<b>Branch(s)</b>	Sociology
<b>Semester</b>	IV
<b>Type</b>	Complementary Course IV
<b>Credits</b>	4
<b>Total hours</b>	108
<b>Hours per week</b>	6
<b>Course Instructor</b>	Anna Thomas

<b>CO</b>	<b>Course Outcomes</b> Upon completion of this course the students will be able to:	<b>CL</b>	<b>PSO</b>
<b>1</b>	Understand the historical underpinnings of sociological theories	U	PSO1
<b>2</b>	Understand the philosophy underlying sociological thoughts	U	PSO2
<b>3</b>	Understand and evaluate classical sociological theories	E	PSO2, PSO3



Course	Details
Code	SO5CRT07
Title	Industry and Society
Degree	B A
Branch(s)	Sociology
Semester	V
Type	CORE
Credits	4
Total hours	108
Hours per week	6
Instructor (s):	Prof. Alphonsa Kurian

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Analyse the scope of sociological perspective in Industrial sectors	An	1,2
2	Understand the basic industrial concepts	U	1,1
3	Identify major trade unions in India	Ap	12
4	Evaluate about the industrial dispute and its causes	E	1,7
5	Evaluate the procedure involved in industrial dispute mechanisms	E	1,7
6	Study about various theories on industrial relations	Ap	1,2
7	Understand about the Industrial Dispute Acts and its Provisions	U	1,7
8	Evaluate the importance of management and welfare provisions	E	1,7
9	Understand the working of an Human Resource Management	U	1,7

Course	Details
Code	SO5CRT08
Title	Sociology of Culture

<b>Degree</b>	B A
<b>Branch(s)</b>	Sociology
<b>Semester</b>	V
<b>Type</b>	Core
<b>Credits</b>	4
<b>Total hours</b>	90
<b>Hours per week</b>	6
<b>Course Instructor</b>	Anna Thomas

<b>CO</b>	<b>Course Outcomes</b> Upon completion of this course the students will be able to:	<b>CL</b>	<b>PSO</b>
<b>1</b>	Understand the sociological concept of culture	U	PSO2
<b>2</b>	Understand the origins of culture	U	PSO1
<b>3</b>	Understand the major methods of studying culture	U	PSO3
<b>4</b>	Understand and analyse the factors leading to cultural change	An	PSO5
<b>5</b>	Critique the various theories of socio-cultural evolution	E	POS3
<b>6</b>	Understand contemporary cultural issues	U	PSO4

<b>Course</b>	<b>Details</b>
<b>Code</b>	SO5CRT09
<b>Title</b>	CONTEMPORARY SOCIAL THEORIES
<b>Degree</b>	BA
<b>Branch(s)</b>	SOCIOLOGY
<b>Semester</b>	V
<b>Type</b>	CORE COURSE
<b>Credits</b>	4
<b>Total hours</b>	108
<b>Hours per week</b>	6
<b>Course Instructor</b>	Dr. Reeja P.S

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	To understand theoretical concepts in modern sociology	U	2,3
2	To explain modern theoretical contributions in sociology	U	3
3	To familiarize with various theorists in modern sociology	U	3

Course	Details
Code	SO5CRT10
Title	SOCIETY, ENVIRONMENT AND HUMAN RIGHTS
Degree	BA
Branch(s)	SOCIOLOGY
Semester	V
Type	CORE COURSE
Credits	4
Total hours	72
Hours per week	4
Course Instructor	Dr. Reeja P.S

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.	PO
1	Major concepts on environment	U	1,5	GPO No.1
2	Role of individual to protect environment	An	4	GPO No.3
3	Major sociological approach in environmental studies	E	5,6	GPO No.3&4
4	Familiarize major concepts on human rights	E	2,8	GPO No.1 &5
5	Compare human rights and fundamental rights	U	4,5	GPO No.5&6
6	Analyse various realms of human rights violation	An	9, 10	GPO No.5&6

Course	Details
Code	SO5OPT01

<b>Title</b>	Social Psychology
<b>Degree</b>	B A
<b>Branch(s)</b>	Sociology
<b>Semester</b>	V
<b>Type</b>	Open Course
<b>Credits</b>	3
<b>Total hours</b>	72
<b>Hours per week</b>	4
<b>Course Instructor</b>	Alphonsa Kurien/Anna Thomas

<b>CO</b>	<b>Course Outcomes</b> Upon completion of this course the students will be able to:	<b>CL</b>	<b>PSO</b>	<b>PO</b>
<b>1</b>	Understand the basics of social psychology	U	PSO2	GPO No.1
<b>2</b>	Understand the various methodological tools used in social psychology	U	PSO4	GPO No.1&2
<b>3</b>	Understand the various kinds of interaction between individuals	U	PSO2	GPO No.5
<b>4</b>	Understand the causes behind human behaviour	U	PSO8	GPO No.6

<b>Course</b>	<b>Details</b>
<b>Code</b>	SO6CRT11
<b>Title</b>	Crime and Society
<b>Degree</b>	B.A
<b>Branch(s)</b>	Sociology
<b>Semester</b>	VI
<b>Type</b>	CORE COURSE
<b>Credits</b>	4
<b>Total hours</b>	72
<b>Hours per week</b>	4
<b>Instructor (s)</b>	Anna Thomas

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	CL	PSO
1	Understand the sociological perspective on crime	U	PSO2
2	Understand various theories that explain crime	U	PSO3
3	Evaluate the various types of crime found in modern societies	E	PSO5
4	Understand and evaluate various preventive and remedial measures to curb crime	E	PSO4, PSO5

Course	Details
Code	SO6CRT12
Title	Population Studies
Degree	B A
Branch(s)	Sociology
Semester	VI
Type	CORE COURSE
Credits	4
Total hours	90
Hours per week	5
Instructor (s):	Prof. Alphonsa Kurian

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the basic concepts of population studies	U	PSO1
2	Evaluate the procedure involved in the source of population studies	E	PSO2
3	Familiarise with various theories on population studies	U	PSO2, PSO3
4	Understand the working of population dynamics in India	U	PSO5

Course	Details
Code	SO6CRT13

<b>Title</b>	Sociology of Development
<b>Degree</b>	B A
<b>Branch</b>	SOCIOLOGY
<b>Semester</b>	VI
<b>Type</b>	CORE
<b>Credits</b>	4
<b>Total hours</b>	90
<b>Hours per week</b>	5
<b>Instructor</b>	Dr. Reeja PS

<b>CO No.</b>	<b>Expected Course Outcomes Upon completion of this course the students will be able to:</b>	<b>Cognitive level</b>	<b>PSO No.</b>
<b>1</b>	To understand the concepts related to social development	U	PS02&PS09
<b>2</b>	To understand various theoretical perspective on development	U	PS09
<b>3</b>	To analyse various developmental strategies	An	PS05
<b>4</b>	To understand various discourse related to development	U	PS09
<b>5</b>	To analyse various developmental issues in present era	An	PS09

<b>Course</b>	<b>Details</b>
<b>Code</b>	SO6CRT14
<b>Title</b>	Sociology of Marginalised Sections
<b>Degree</b>	B A
<b>Branch(s)</b>	Sociology
<b>Semester</b>	VI
<b>Type</b>	Core
<b>Credits</b>	4
<b>Total hours</b>	90
<b>Hours per week</b>	5
<b>Course Instructor (s)</b>	Alphonsa Kurian/Anna Thomas

CO	Course Outcomes Upon completion of this course the students will be able to:	CL	PSO
1	Understand the sociological concepts of and perspective on marginalization and exclusion	U	PSO2, PSO5
2	Analyse and evaluate the working of marginalization and exclusion in Indian society	An, E	PSO5, PSO6
3	Understand identity-based forms of marginalization and exclusion	U	PSO5, PSO6, PSO10
4	Understand human rights violations faced by members of marginalized sections	U	PSO5, PSO6, PSO10

Course	Details
Code	SO6CBT03
Title	SOCIOLOGY OF CURRENT REALITIES
Degree	BA
Branch(s)	SOCIOLOGY
Semester	VI
Type	CHOICE BASED CORE COURSE
Credits	4
Total hours	90
Hours per week	5
Course Instructor	Dr. Reeja P.S/Alphonsa Kurian

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand basic concept on current realities of modern society	U	PSO5 & PSO6
2	Understand various areas of professionalization and analyze the impact of professionalization in social life	An	PSO5
3	Understand theoretical understanding about current realities	U	PSO5

# BA English Model 1

COURSE		DETAILS
CODE:		EN1CC01
TITLE		FINE-TUNE YOUR ENGLISH
DEGREE		BA/BSC/BCOM
BRANCH(S)		ENGLISH
YEAR/SEMESTER		1 / I
TYPE		COMMON
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	90	HOURS PER WEEK: 5

Sl no.	Course Outcomes	CL	PSO
1	Identify different parts of speech and elements of effective writing	R	3,6
2	Understand the key elements of English grammar and formal writing	U	3,6
3	Implement idiomatic language and appropriate words in communication	Ap	3,6,9
4	Integrate academic writing skills in various fields	An	3,6,9
5	Identify and rectify the common errors in English usage	An	3,6,9
6	Produce error free speech and writing with ease and confidence	C	3,6,8

COURSE		DETAILS
CODE:		EN1CC02
TITLE		PEARLS FROM THE DEEP
DEGREE		BA/BSC
BRANCH(S)		ENGLISH
YEAR/SEMESTER		1/I
TYPE		COMMON
CREDITS		3
TOTAL NO: OF CONTACT HOURS:	72	HOURS PER WEEK: 4



Sl no.	Course Outcomes	CL	PSO
1	Recognize and appreciate the aesthetics of Literature	R	1,3,5,7
2	Examine the subtleties of life expressed in various genres of Literature	R	1,3,5,7
3	Identify the various stylistic devices used in fiction	An	5,7
4	Distinguish the structural elements of various genres in Literature	An	1,3,5,7
5	Judge literary works with an imaginative perspective	E	3,5,7
6	Compose original writings with improved vocabulary	C	3,4,6

COURSE		DETAILS
CODE:		EN1CR01
TITLE		METHODOLOGY FOR STUDYING LITERATURE
DEGREE		BA
BRANCH(S)		ENGLISH
YEAR/SEMESTER		1 /I
TYPE		CORE
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	108	HOURS PER WEEK: 6

Sl no.	Course Outcomes	CL	PSO
1	To identify the major signposts in the historical evolution of literary studies from its inception to the current postcolonial realm	R	1,5
2	To categorize the various approaches to the study of literature	U	5,7
3	To use the basic skills necessary for the study of literature.	Ap	2,3
4	To apply key literary terms in the critical reading of literary texts.	Ap	5,6,7
5	To analyse and interpret the literary works in different genres of literature	An	5,7

COURSE		DETAILS
CODE:		PY1CMT01

<b>TITLE</b>	UNDERSTANDING PSYCHOLOGY	
<b>DEGREE</b>	BA	
<b>BRANCH(S)</b>	PSYCHOLOGY	
<b>YEAR/SEMESTER</b>	1/ I	
<b>TYPE</b>	COMPLEMENTARY	
<b>CREDITS</b>	4	
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 6</b>

CO No.	Course Outcome	Cognitive Level	PSO No.
1	Understand the basic concepts of psychology	U	9
2	Understand the origin of psychology and the scope of psychology	U	9
3	Identify various Methods of psychological research	U	9
4	Understanding the chief applications of the field of psychology in social and clinical setting	U	9
5	Understand various psychological disorders	U	9
6	Understand psychology in social setting	U	9
<b>COURSE</b>		<b>DETAILS</b>	
<b>CODE:</b>		EN2CC03	
<b>TITLE</b>		ISSUES THAT MATTER	
<b>DEGREE</b>		BA/BSC/BCOM	
<b>BRANCH(S)</b>		ENGLISH	
<b>YEAR/SEMESTER</b>		1 / II	
<b>TYPE</b>		COMMON	
<b>CREDITS</b>		4	
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>	

Sl no.	Course Outcomes	CL	PSO
1	Identify some of the significant cultural crisis the world faces	R	1,2
2	Understand the consequences of war, freedom of expression, cultural encroachments on minority identities, extinction of species and condition of refugees.	U	1,2,4,7

3	Interpret how contemporary issues are dealt with in articles, memoirs, short stories and poems.	Ap	1,2,4,5,7
4	Differentiate and form critical opinions on relevant issues	An	1,2,3,5,6
5	Critique the voices of dissent in literature and develop cognisant view of our times.	E	1,2,3,4,6,7
6	Create a more imaginative and impactful writing stimulated by various works of eminent writers	C	2,3,4,5,6

COURSE		DETAILS
CODE:		EN2CC04
TITLE		SAVOURING THE CLASSICS
DEGREE		BA/BSC
BRANCH(S)		ENGLISH
YEAR/SEMESTER		1 / II
TYPE		COMMON
CREDITS		3
TOTAL NO: OF CONTACT HOURS:	72	HOURS PER WEEK: 4

Sl no.	Course Outcomes	CL	PSO
1	Recognise the timeless significance of classics in literature	R	1,5,7
2	Associate and discuss the universal human condition illustrated in literature from various cultures and times.	U	1,5,7
3	Implement a reading habit that is free and appreciative	Ap	1,3,5,7
4	Evaluate the finer details of life exemplified in the selected classical texts	E	1,5,7
5	Compose cohesive and original writings in styles inspired by the masters of literature.	C	3,5,6

COURSE		DETAILS
CODE:		EN2CR02
TITLE		INTRODUCING LANGUAGE AND LITERATURE
DEGREE		BA
BRANCH(S)		ENGLISH
YEAR/SEMESTER		1 / II
TYPE		CORE

<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	108	<b>HOURS PER WEEK: 6</b>

Sl no.	Course Outcomes	CL	PSO
1	Recollect the evolution of literature from antiquity to postmodern times	R	1,7
2	Compare and contrast the diversity of genres and techniques of representation	U	1
3	Focus on the periods of literature and examine the varieties of language	An	2,7
4	Evaluate the significance of the periods of literature with special reference to language variations	E	3,5
5	Generate, design and produce narratives and research on links between film and literature	C	3,6

COURSE		DETAILS
<b>CODE:</b>		PY1CMT02
<b>TITLE</b>		PSYCHOLOGY OF INDIVIDUAL DIFFERENCES
<b>DEGREE</b>		BA
<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		1 / II
<b>TYPE</b>		COMPLEMENTARY
<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 6</b>

CO No.	Course Outcomes	Cognitive level	PSO No.
1	Understanding the key psychological processes.	U	2
2	Understand the concept of personality and the theories underlying it.	U	2
3	Understanding basic ideas regarding the concept of motivation and emotions.	U	2
4	Understanding basic concept of intelligence and theories of intelligence.	U	2

5	Understanding the basic idea regarding the concept of attention and process of attention.	U	2
6	Understanding basic concept of development and theories of development	U	2

COURSE		DETAILS
CODE:		EN3CC05
TITLE		LITERATURE AND/AS IDENTITY
DEGREE		BA/BSC
BRANCH(S)		ENGLISH
YEAR/SEMESTER		2/ III
TYPE		COMMON
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	90	HOURS PER WEEK: 5

Sl no.	Course Outcomes	CL	PSO
1	Identify how literature represents, discusses and problematizes identity	R	1,2,4,5,7
2	Understand the major issues that we encounter in our day to day life including discrimination on gender, class, caste, creed and race	U	2,5,7
3	Deconstruct the assumptions regarding the notion of perfect identity through depictions of alternate identities	An	2,4,5
4	Critique society's attitude towards its weaker members	E	2,4,5
5	Create awareness regarding the impact of human intervention in ecosystems	C	2,5,6

COURSE		DETAILS
CODE:		EN3CR03
TITLE		HARMONY OF PROSE
DEGREE		BA
BRANCH(S)		ENGLISH
YEAR/SEMESTER		2 / III
TYPE		CORE
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	72	HOURS PER WEEK: 4

Sl no.	Course Outcomes	CL	PSO
1	To identify and relate to the works of great masters of English prose	R	1,5,7
2	To examine and analyse essays produced by writers of Indian origin and of third world countries	R	1,5,7
3	To recognize eloquent expressions, brevity and aptness of voicing ideas in different styles	R	3,5,7
4	To distinguish between different prose styles of writers belonging to various ages	An	1,3,5,7
5	To evaluate and assess English prose by delving deep into various topics	E	3,4,5,7
6	To compose essays that show comprehension of style, topic and nuances of English language	C	3,6

COURSE		DETAILS
CODE:		EN3CR04
TITLE		SYMPHONY OF VERSE
DEGREE		BA
BRANCH(S)		ENGLISH
YEAR/SEMESTER		2 / III
TYPE		CORE
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	90	HOURS PER WEEK: 5

Sl no.	Course Outcomes	CL	PSO
1	To identify and relate to the range and scope of poetry across the English language	R	1, 5, 7
2	To distinguish the age and poetry associated with the age	U	1, 3, 5, 7
3	To analyse the historical and sociological implications expressed through the poetry of the age	An	1, 3, 4, 5, 7
4	To recognize the theoretical framework on which the poems are based	R	1, 4, 5
5	To enact sample poems from the text and outside the text	Ap	3, 7

6	To compose critical appreciations of the sample poems given	C	3, 4, 5, 6, 7
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COURSE		DETAILS
CODE:		EN3CM03
TITLE		EVOLUTION OF LITERARY MOVEMENTS: THE SHAPERS OF DESTINY
DEGREE		BA
BRANCH(S)		ENGLISH
YEAR/SEMESTER		2 / III
TYPE		COMPLEMENTARY
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	108	HOURS PER WEEK: 6

Sl no.	Course Outcomes	CL	PSO
1	To identify different phases in English history	R	1,5,7
2	To relate the growth of English language with English history	U	1,7
3	To understand English literature in view of historical events	U	1,5,7
4	To analyse how history, social conditions and customs moulded English writers	An	1,4,5,7
5	To critically evaluate literary movements with a historical perspective	Ap/ C	1,5,4,7

COURSE		DETAILS
CODE:		EN4CC06
TITLE		IILUMINATIONS
DEGREE		BA/BSC
BRANCH(S)		ENGLISH
YEAR/SEMESTER		2 / IV
TYPE		COMMON
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	90	HOURS PER WEEK: 5

Sl no.	Course Outcomes	CL	PSO
1	Examine the domains of various literary genres such as prose, speech, short story and poem	R	1,5,7
2	Illustrate the beauty of literature and develop a desire to relish life critically and creatively	U	1,2,3,5,6,7
3	Determine the philosophy of life and appreciate the value of being human	Ap	1,2,3,5,6,7
4	Focus upon the ironies of existence and how they become the fuel for survival	An/ E	2,3,4,5
5	Create an innovative and insightful perspective towards life	C	2,3,4,5,6

COURSE		DETAILS
CODE:		EN4CR05
TITLE		MODES OF FICTION
DEGREE		BA
BRANCH(S)		ENGLISH
YEAR/SEMESTER		2 / IV
TYPE		CORE
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	72	HOURS PER WEEK: 4

Sl no.	Course Outcomes	CL	PSO
1	Identify the elements of the genre of fiction	R	1,2,5
2	Compare British fiction with non-British fiction.	U	1,5
3	Discuss the genre of fiction	U	1
4	Deconstruct established emotional attributes to human nature.	An	5,6,7
5	Construct similar texts based on their understanding of the genre.	C	6,7

COURSE		DETAILS
CODE:		EN4CR06
TITLE		LANGUAGE AND LINGUISTICS
DEGREE		BA
BRANCH(S)		ENGLISH



<b>YEAR/SEMESTER</b>		2 / IV
<b>TYPE</b>		CORE
<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>

Sl no.	Course Outcomes	CL	PSO
1	Identify the branches of linguistics and locate the phonetic scripts.	R	1,2,3
2	Understand language scientifically	U	1,2,3
3	Implement Linguistics in your day today life	Ap	2,3
4	Differentiate between the various branches of linguistics	An	1,3
5	Discuss the various semantic changes and growth of vocabulary	Ev	1,3,7
6.	Produce transcription based sentences	C	3,9

COURSE		DETAILS
<b>CODE:</b>		EN4CM04
<b>TITLE</b>		EVOLUTION OF LITERARY MOVEMENTS: THE CROSS CURRENTS OF CHANGE
<b>DEGREE</b>		BA
<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		2 / IV
<b>TYPE</b>		COMPLEMENTARY
<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	108	<b>HOURS PER WEEK: 6</b>

Sl no.	Course Outcomes	CL	PSO
1	To identify different movements in the history of English literature	R	1,7
2	To generalize and distinguish literatures in English of other countries	U	1,7
3	To examine the trajectory of literature and revolution.	Ap	1
4	To analyse the Feminist and Dalit impact on literature	An	1,2

5	To critically evaluate the development of Latin American literature and the literature of the Third World, giving emphasis to the theoretical concept	E	1,2,7
6.	To create a critical perspective to literature and history.	C	3,6,7

COURSE		DETAILS
CODE:		EN5CROP03
TITLE		ENGLISH FOR CAREERS
DEGREE		BA/BSC/BCOM
BRANCH(S)		ENGLISH
YEAR/SEMESTER		3 / V
TYPE		OPEN COURSE
CREDITS		3
TOTAL NO: OF CONTACT HOURS:	72	HOURS PER WEEK: 4

Sl no.	Course Outcomes	CL	PSO
1	<b>Understand</b> and <b>recall</b> features of effective communication and <b>develop</b> competent interpersonal communication skills in professional clime.	U/R	1,9
2	<b>Identify</b> features of and barriers to presentation and develop skills to effectively <b>implement</b> it in formal and informal presentations.	R	3
3	<b>Recognise</b> common errors in English communication and eliminate it in daily communication.	R	1,3
4	<b>Comprehend</b> the different decorums to be maintained in the professional world and <b>categorise</b> different personality types to apply it in real life.	U	1,2,9

COURSE		DETAILS
CODE:		EN5CR07
TITLE		ACTS ON THE STAGE
DEGREE		BA
BRANCH(S)		ENGLISH
YEAR/SEMESTER		3 / V
TYPE		CORE
CREDITS		5

<b>TOTAL NO: OF CONTACT HOURS:</b>	108	<b>HOURS PER WEEK: 6</b>
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Sl no.	Course Outcomes	CL	PSO
1	To construct intellectual and aesthetic understanding of the craft and technique of theatre arts	U/C	3
2	To appreciate and critique drama as an art form	An	6
3	To differentiate between Shakespearean plays and one act plays	An	7
4	To execute theatrical knowledge of the basic areas of theatre (acting, directing, setting, tone etc) in both written and oral formats	Ap	3,4,5
5	To debate on the cultural, social and political themes of the plays	E	2,5,7

COURSE		DETAILS
<b>CODE:</b>		EN5CR08
<b>TITLE</b>		LITERARY CRITICISM AND THEORY
<b>DEGREE</b>		BA
<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		3 / V
<b>TYPE</b>		CORE
<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>

Sl no.	Course Outcomes	CL	PSO
1	To correctly state and recollect the ages, movements and history of Literature	R	1,5,7
2	To help students understand the key concepts of literary theory and criticism, and encourage them to read contemporary literature.	U	1,3,4,5
3	To apply keywords of literature in texts.	Ap	3,5,6
4	To analyse the ideas and concepts espoused, developed and explained by traditional and contemporary writers, poets and novelists	An	1,3,4,5,7
5	To rationally judge or critique a text with special reference to the skills involved in formulating and analysing an idea or concept	E	3,4,5,6,7

6	To develop skills necessary to look at texts from a critical point of view	C	2,3,5,6
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COURSE		DETAILS
CODE:		EN5CR09
TITLE		INDIAN WRITING IN ENGLISH
DEGREE		BA
BRANCH(S)		ENGLISH
YEAR/SEMESTER		3/ V
TYPE		CORE
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	90	HOURS PER WEEK: 5

Sl.no	Course Outcome	CL	PSO
1.	To list out major Indian authors writing in English	R	1,7
2.	To associate the students with the diversity of Indian culture and aesthetics in writing	U	1,2,4,5
3.	To represent the contemporary scenario of Indian writing in English	U	1,2,5
4.	To draw an outline for the overall view of Indian writing and to identify the relevant problems, trends and issues	R	1,2,4,5

COURSE		DETAILS
CODE:		EN5CREN01
TITLE		ENVIRONMENTAL SCIENCE AND HUMAN RIGHTS
DEGREE		BA
BRANCH(S)		ENGLISH
YEAR/SEMESTER		3 / V
TYPE		CORE
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	90	HOURS PER WEEK: 5

Sl no.	Course Outcomes	CL	PSO
1	To identify and recognize environmental issues and human rights violations around them	R	2,4,5

2	To understand environmental and human rights concepts and associate them with current scenario	U	1,2
3	To differentiate between sustainable development and exploitative development	U/An	2
4	To evaluate concerns of nature conservation through realistic and imaginary contexts	E	2,5,7
5	To generate creative solutions to existing environmental concerns	C	2,6,7

COURSE		DETAILS
CODE:		EN6CB04
TITLE		REGIONAL LITERATURES IN TRANSLATION
DEGREE		BA
BRANCH(S)		ENGLISH
YEAR/SEMESTER		3 / VI
TYPE		CHOICE BASED COURSE
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	72	HOURS PER WEEK: 4

Sl no.	Course Outcomes	CL	PSO
1	Introduce the students to the priceless regional literary assemblage of India for a better understanding of the unique Indian Culture	U	1,2,4,5
2	Acquire a sense of national integration through the diverse experiences represented in the regional literatures of India	An	1,2,4,5
3	Analyse the cultural heterogeneity and linguistic plurality of our country through its literatures written in regional languages.	Ap	1,2,4,5
4	Critique the accuracy of translation by comparing the original works with the translated works.	Ev	1,2,3,4,5,6
5	Inspire the students to associate with regional literatures and the relevance of it in constructing a literary culture.	C	1,2,4,5

COURSE		DETAILS
CODE:		EN6CR10
TITLE		POSTCOLONIAL LITERATURES

<b>DEGREE</b>		BA
<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		3 / VI
<b>TYPE</b>		CORE
<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>

Sl no.	Course Outcomes	CL	PSO
1	Identify the links between language, history and culture	R	1,7
2	Understand the social, political, cultural aspects of postcolonial societies	U	1,7
3	Evaluate the impact of colonialism and imperialism on native cultural identities	E	1,7
4	Apply the various theories of postcolonialism to the writings of different period	Ap	4
5	Develop interpretive skills of close reading	Ap	2,7

COURSE		DETAILS
<b>CODE:</b>		EN6CR11
<b>TITLE</b>		WOMEN WRITING
<b>DEGREE</b>		BA
<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		3 / VI
<b>TYPE</b>		CORE
<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>

Sl no.	Course Outcomes	CL	PSO
1	Retrieve the incidents that one see in society and identify the theoretical representation of the instances in the society.	R	1,7
2	Understand the various ways in which feminist ideologies are put into practice in the contemporary world.	U	1,7

3	Interpret how contemporary issues are dealt with in articles, memoirs, short stories and poems.	Ap	4
4	Differentiate and form critical opinions on relevant issues concerned to women writing.	An	2
5	Critique the skills and techniques employed by various poets and fiction writers.	E	1,7
6	Create a more imaginative and impactful writing stimulated by various works of eminent writers	C	3
7	Generate a series of poems and stories that mirror issues and raise questions pertinent to feminism.	C	3

COURSE		DETAILS
CODE:		EN6CR12
TITLE		AMERICAN LITERATURE
DEGREE		BA
BRANCH(S)		ENGLISH
YEAR/SEMESTER		3 / VI
TYPE		CORE
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	90	HOURS PER WEEK: 5

Sl no.	Course Outcomes	CL	PSO
1	Understand the tenets of American Literature and identify the main authors in the period	R	1,7
2	Compare the threads of thought in American History	U	1,7
3	Apply the various theories of literature to the writings of the period	Ap	4
4	Assess the texts culturally	An	2,7
5	Evaluate the unit of study against the cultural background.	E	1,2
6.	Recreate and enact acts from the text	C	3

COURSE		DETAILS
CODE:		EN6CR13
TITLE		MODERN WORLD LITERATURE

<b>DEGREE</b>		BA
<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		3 / VI
<b>TYPE</b>		CORE
<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>

SI no.	Course Outcomes	CL	PSO
1	To recognize variety of literatures across the world	R	1,7
2	Name the major proponents and works of modern world literatures	R	1,7
3	Discuss the thematic and stylistic structures of European and non-European fiction	U	4
4	Illustrate various features and techniques of writing fiction from the prescribed texts	U	2,7
5	To evaluate and appreciate the stylistic devices employed in the prescribed poems.	E	1,2
6.	To construct a new notion of mainstream and peripheral literatures	C	3

## BA English Model 2

COURSE		DETAILS
<b>CODE:</b>		EN1CC01
<b>TITLE</b>		FINE-TUNE YOUR ENGLISH
<b>DEGREE</b>		BA/BSC/BCOM
<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		1 / I
<b>TYPE</b>		COMMON
<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>



Sl no.	Course Outcomes	CL	PSO
1	Identify different parts of speech and elements of effective writing	R	3,6
2	Understand the key elements of English grammar and formal writing	U	3,6
3	Implement idiomatic language and appropriate words in communication	Ap	3,6,9
4	Integrate academic writing skills in various fields	An	3,6,9
5	Identify and rectify the common errors in English usage	An	3,6,9
6	Produce error free speech and writing with ease and confidence	C	3,6,8

COURSE		DETAILS
CODE:		EN1CR01
TITLE		METHODOLOGY OF LITERARY STUDIES
DEGREE		BA
BRANCH(S)		ENGLISH
YEAR/SEMESTER		1 /I
TYPE		CORE
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	108	HOURS PER WEEK: 6

Sl no.	Course Outcomes	CL	PSO
1	To identify the major signposts in the historical evolution of literary studies from its inception to the current postcolonial realm	R	1,5
2	To categorize the various approaches to the study of literature	U	5,7
3	To use the basic skills necessary for the study of literature.	Ap	2,3
4	To apply key literary terms in the critical reading of literary texts.	Ap	5,6,7
5	To analyse and interpret the literary works in different genres of literature	An	5,7

COURSE		DETAILS
CODE:		EN1CM01 (Ad)
TITLE		ENGLISH FOR BUSINESS COMMUNICATION-1
DEGREE		BA
BRANCH(S)		ENGLISH
YEAR/SEMESTER		1/ I
TYPE		COMPLEMENTARY
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	90	HOURS PER WEEK: 5

CO No:	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	Familiarization with the basics of communication.	U	9
CO2	Writing various kinds of business letters	U, AP	9
CO3	Select appropriate organizational formats and channels used in developing and presenting business messages.	U, AP	9
CO4	Communication via electronic mail, Internet, and other technologies.	U	9
CO5	Maintaining diary and writing notes.	U	9
CO6	Provide an outline to effective organizational communication	U	9

COURSE		DETAILS
CODE:		EN2VO02 (C)
TITLE		INFORMATION TECHNOLOGY AND COMPUTER APPLICATIONS
DEGREE		BA
BRANCH(S)		ENGLISH
YEAR/SEMESTER		1/ I
TYPE		VOCATIONAL
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	90	HOURS PER WEEK: 5

CO No:	Days / Hours	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	20	Familiarize students about the concepts of Information Transfer and storage theory and computer	U	10
CO2	10	Make the students aware of storage theories like reprography and Micrography	U	10
CO3	20	To have an insight about online information and retrieval methods	U	10
CO4	20	Familiarize students with CD-ROM , Email and facsimile technologies	U	10
CO5	20	To have an understanding on the concepts of National and International information systems NIS, AGRIS, NICNET, INDONET.	U	10

COURSE		DETAILS
CODE:		EN2CC03
TITLE		ISSUES THAT MATTER
DEGREE		BA/BSC/BCOM
BRANCH(S)		ENGLISH
YEAR/SEMESTER		1 / II
TYPE		COMMON
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	90	HOURS PER WEEK: 5

Sl no.	Course Outcomes	CL	PSO
1	Identify some of the significant cultural crisis the world faces	R	1,2
2	Understand the consequences of war, freedom of expression, cultural encroachments on minority identities, extinction of species and condition of refugees.	U	1,2,4,7
3	Interpret how contemporary issues are dealt with in articles, memoirs, short stories and poems.	Ap	1,2,4,5,7
4	Differentiate and form critical opinions on relevant issues	An	1,2,3,5,6
5	Critique the voices of dissent in literature and develop cognisant view of our times.	E	1,2,3,4,6,7

6	Create a more imaginative and impactful writing stimulated by various works of eminent writers	C	2,3,4,5,6
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COURSE		DETAILS
CODE:		EN2CR02
TITLE		INTRODUCING LANGUAGE AND LITERATURE
DEGREE		BA
BRANCH(S)		ENGLISH
YEAR/SEMESTER		1 / II
TYPE		CORE
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	108	HOURS PER WEEK: 6

Sl no.	Course Outcomes	CL	PSO
1	Recollect the evolution of literature from antiquity to postmodern times	R	1,7
2	Compare and contrast the diversity of genres and techniques of representation	U	1
3	Focus on the periods of literature and examine the varieties of language	An	2,7
4	Evaluate the significance of the periods of literature with special reference to language variations	E	3,5
5	Generate, design and produce narratives and research on links between film and literature	C	3,6

COURSE		DETAILS
CODE:		EN2CM02 (Ad)
TITLE		ENGLISH FOR BUSINESS COMMUNICATION 2
DEGREE		BA
BRANCH(S)		ENGLISH
YEAR/SEMESTER		1 / II
TYPE		COMPLEMENTARY
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	90	HOURS PER WEEK: 5

CO No:	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	Familiarization with the basics of communication.	U	9
CO2	Writing business letters.	U, AP	9
CO3	Improvement in the vocabulary of the students	U	9
CO4	Improvement in the verbal communication of students.	U	9
CO5	Improvement in the study skill.	U	9

CODE:		EN2VO02 (C)
TITLE		COMPUTER APPLICATIONS AND DTP (PRACTICAL)
DEGREE		BA
BRANCH(S)		ENGLISH
YEAR/SEMESTER		1 / II
TYPE		VOCATIONAL
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	90	HOURS PER WEEK: 5

CO No:	Days/ Hours	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	30	Familiarize students about the concepts pagemaker	U,Ap	PSO 10
CO2	20	Make the students aware of Ventura and its applications	U,Ap	PSO 10
CO3	20	Familiarize students with Corel draw and its practical applications	U,Ap	PSO 10
CO4	20	To have an understanding on MS-Paint and its applications	U,Ap	PSO 10

COURSE	DETAILS
CODE:	EN3CC05
TITLE	LITERATURE AND/AS IDENTITY
DEGREE	BA/BSC

<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		2/ III
<b>TYPE</b>		COMMON
<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>

Sl no.	Course Outcomes	CL	PSO
1	Identify how literature represents, discusses and problematizes identity	R	1,2,4,5,7
2	Understand the major issues that we encounter in our day to day life including discrimination on gender, class, caste, creed and race	U	2,5,7
3	Deconstruct the assumptions regarding the notion of perfect identity through depictions of alternate identities	An	2,4,5
4	Critique society's attitude towards its weaker members	E	2,4,5
5	Create awareness regarding the impact of human intervention in ecosystems	C	2,5,6

COURSE		DETAILS
<b>CODE:</b>		EN3CR03
<b>TITLE</b>		HARMONY OF PROSE
<b>DEGREE</b>		BA
<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		2 / III
<b>TYPE</b>		CORE
<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	72	<b>HOURS PER WEEK: 4</b>

Sl no.	Course Outcomes	CL	PSO
1	To identify and relate to the works of great masters of English prose	R	1,5,7
2	To examine and analyse essays produced by writers of Indian origin and of third world countries	R	1,5,7
3	To recognize eloquent expressions, brevity and aptness of voicing ideas in different styles	R	3,5,7

4	To distinguish between different prose styles of writers belonging to various ages	An	1,3,5,7
5	To evaluate and assess English prose by delving deep into various topics	E	3,4,5,7
6	To compose essays that show comprehension of style, topic and nuances of English language	C	3,6

COURSE		DETAILS
CODE:		EN3CR04
TITLE		SYMPHONY OF VERSE
DEGREE		BA
BRANCH(S)		ENGLISH
YEAR/SEMESTER		2 / III
TYPE		CORE
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	90	HOURS PER WEEK: 5

Sl no.	Course Outcomes	CL	PSO
1	To identify and relate to the range and scope of poetry across the English language	R	1, 5, 7
2	To distinguish the age and poetry associated with the age	U	1, 3, 5, 7
3	To analyse the historical and sociological implications expressed through the poetry of the age	An	1, 3, 4, 5, 7
4	To recognize the theoretical framework on which the poems are based	R	1, 4, 5
5	To enact sample poems from the text and outside the text	Ap	3, 7
6	To compose critical appreciations of the sample poems given	C	3, 4, 5, 6, 7

COURSE		DETAILS
CODE:		EN3CM03
TITLE		EVOLUTION OF LITERARY MOVEMENTS: THE SHAPERS OF DESTINY

<b>DEGREE</b>		BA
<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		2 / III
<b>TYPE</b>		COMPLEMENTARY
<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	108	<b>HOURS PER WEEK: 6</b>

Sl no.	Course Outcomes	CL	PSO
1	To identify different phases in English history	R	1,5,7
2	To relate the growth of English language with English history	U	1,7
3	To understand English literature in view of historical events	U	1,5,7
4	To analyse how history, social conditions and customs moulded English writers	An	1,4,5,7
5	To critically evaluate literary movements with a historical perspective	Ap/ C	1,5,4,7

COURSE		DETAILS
<b>CODE:</b>		EN3VO03 (Ad)
<b>TITLE</b>		BUSINESS ACCOUNTING
<b>DEGREE</b>		BA
<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		2 / III
<b>TYPE</b>		VOCATIONAL
<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>

CO No:	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	Familiarization of the basic accounting concepts.	U	8
CO2	Familiarization of the accounting principles and practices in business.	U	8
CO3	Increased awareness of the general purposes and functions of accounting.	U	8



<b>CO4</b>	Understand the various items of Assets, liabilities, Revenues and Expenses.	U	8
<b>CO5</b>	Understand Journalizing and Posting in the books of accounts.	U, AP	8
<b>CO6</b>	Check the arithmetical accuracy of the books of accounts via preparation of trial balance.	U, AP	8
<b>CO7</b>	Preparation of Financial Statements- Income Statement and Position Statement.	U, AP	8
<b>CO8</b>	Analyze, Interpret and Communicate the information contained in basic financial statements	U, AP	8

COURSE		DETAILS
<b>CODE:</b>		EN4CC06
<b>TITLE</b>		IILUMINATIONS
<b>DEGREE</b>		BA/BSC
<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		2 / IV
<b>TYPE</b>		COMMON
<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>

SI no.	Course Outcomes	CL	PSO
<b>1</b>	Examine the domains of various literary genres such as prose, speech, short story and poem	R	1,5,7
<b>2</b>	Illustratethebeautyofliteratureanddevelopadesiretoenrichlife critically and creatively	U	1,2,3,5,6,7
<b>3</b>	Determine the philosophy of life and appreciate the value of being human	Ap	1,2,3,5,6,7
<b>4</b>	Focusupontheironiesofexistenceandhowtheybecomethefuel for survival	An/ E	2,3,4,5
<b>5</b>	Create an innovative and insightful perspective towards life	C	2,3,4,5,6

COURSE		DETAILS
<b>CODE:</b>		EN4CR05
<b>TITLE</b>		MODES OF FICTION
<b>DEGREE</b>		BA

<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		2 / IV
<b>TYPE</b>		CORE
<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	72	<b>HOURS PER WEEK: 4</b>

Sl no.	Course Outcomes	CL	PSO
1	Identify the elements of the genre of fiction	R	1,2,5
2	Compare British fiction with non-British fiction.	U	1,5
3	Discuss the genre of fiction	U	1
4	Deconstruct established emotional attributes to human nature.	An	5,6,7
5	Construct similar texts based on their understanding of the genre.	C	6,7

COURSE		DETAILS
<b>CODE:</b>		EN4CR06
<b>TITLE</b>		LANGUAGE AND LINGUISTICS
<b>DEGREE</b>		BA
<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		2 / IV
<b>TYPE</b>		CORE
<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>

Sl no.	Course Outcomes	CL	PSO
1	Identify the branches of linguistics and locate the phonetic scripts.	R	1,2,3
2	Understand language scientifically	U	1,2,3
3	Implement Linguistics in your day today life	Ap	2,3
4	Differentiate between the various branches of linguistics	An	1,3
5	Discuss the various semantic changes and growth of vocabulary	Ev	1,3,7

6.	Produce transcription based sentences	C	3,9
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COURSE		DETAILS	
CODE:		EN4CM04	
TITLE		EVOLUTION OF LITERARY MOVEMENTS: THE CROSS CURRENTS OF CHANGE	
DEGREE		BA	
BRANCH(S)		ENGLISH	
YEAR/SEMESTER		2 / IV	
TYPE		COMPLEMENTARY	
CREDITS		4	
TOTAL NO: OF CONTACT HOURS:	108	HOURS PER WEEK: 6	
S/no.	Course Outcomes	CL	PSO
1	To identify different movements in the history of English literature	R	1,7
2	To generalize and distinguish literatures in English of other countries	U	1,7
3	To examine the trajectory of literature and revolution.	Ap	1
4	To analyse the Feminist and Dalit impact on literature	An	1,2
5	To critically evaluate the development of Latin American literature and the literature of the Third World, giving emphasis to the theoretical concept	E	1,2,7
6.	To create a critical perspective to literature and history.	C	3,6,7

COURSE		DETAILS	
CODE:		EN4VO04 (Ad)	
TITLE		OFFICE PROCEDURES AND PRACTICES	
DEGREE		BA	
BRANCH(S)		ENGLISH	
YEAR/SEMESTER		2 / IV	
TYPE		VOCATIONAL	
CREDITS		4	
TOTAL NO: OF CONTACT HOURS:	90	HOURS PER WEEK: 5	

CO No:	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	Functioning of an office.	U	10
CO2	Workflow in an office.	U	10
CO3	Office structure and office communication	U	10
CO4	Handling mail.	U	10
CO5	Filing and indexing.	U	10
CO6	Company Meetings.	U	10

COURSE		DETAILS
CODE:		EN5CROP03
TITLE		ENGLISH FOR CAREERS
DEGREE		BA/BSC/BCOM
BRANCH(S)		ENGLISH
YEAR/SEMESTER		3 / V
TYPE		OPEN COURSE
CREDITS		3
TOTAL NO: OF CONTACT HOURS:	72	HOURS PER WEEK: 4

Sl no.	Course Outcomes	CL	PSO
1	<b>Understand</b> and <b>recall</b> features of effective communication and <b>develop</b> competent interpersonal communication skills in professional clime.	U/R	1,9
2	<b>Identify</b> features of and barriers to presentation and develop skills to effectively <b>implement</b> it in formal and informal presentations.	R	3
3	<b>Recognise</b> common errors in English communication and eliminate it in daily communication.	R	1,3
4	<b>Comprehend</b> the different decorum to be maintained in the professional world and <b>categorise</b> different personality types to apply it in real life.	U	1,2,9

COURSE		DETAILS
CODE:		EN5CR07
TITLE		ACTS ON THE STAGE
DEGREE		BA
BRANCH(S)		ENGLISH

<b>YEAR/SEMESTER</b>		3 / V
<b>TYPE</b>		CORE
<b>CREDITS</b>		5
<b>TOTAL NO: OF CONTACT HOURS:</b>	108	<b>HOURS PER WEEK: 6</b>

Sl no.	Course Outcomes	CL	PSO
1	To construct intellectual and aesthetic understanding of the craft and technique of theatre arts	U/C	3
2	To appreciate and critique drama as an art form	An	6
3	To differentiate between Shakespearean plays and one actplays	An	7
4	To execute theatrical knowledge of the basic areas of theatre(acting,directing,setting,tone etc) in both written and oral formats	Ap	3,4,5
5	To debate on the cultural, social and political themes of the plays	E	2,5,7

<b>COURSE</b>		<b>DETAILS</b>
<b>CODE:</b>		EN5CR08
<b>TITLE</b>		LITERARY CRITICISM AND THEORY
<b>DEGREE</b>		BA
<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		3 / V
<b>TYPE</b>		CORE
<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>

Sl no.	Course Outcomes	CL	PSO
1	To correctly state and recollect the ages, movements and history of Literature	R	1,5,7
2	To help students understand the key concepts of literary theory and criticism, and encourage them to read contemporary literature.	U	1,3,4,5
3	To apply keywords of literature in texts.	Ap	3,5,6
4	To analyse the ideas and concepts espoused, developed and explained by traditional and contemporary writers, poets and novelists	An	1,3,4,5,7

5	To rationally judge or critique a text with special reference to the skills involved in formulating and analysing an idea or concept	E	3,4,5,6,7
6	To develop skills necessary to look at texts from a critical point of view	C	2,3,5,6

COURSE		DETAILS
CODE:		EN5CR09
TITLE		INDIAN WRITING IN ENGLISH
DEGREE		BA
BRANCH(S)		ENGLISH
YEAR/SEMESTER		3/ V
TYPE		CORE
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	90	HOURS PER WEEK: 5

Sl.no	Course Outcome	CL	PSO
1.	To list out major Indian authors writing in English	R	1,7
2.	To associate the students with the diversity of Indian culture and aesthetics in writing	U	1,2,4,5
3.	To represent the contemporary scenario of Indian writing in English	U	1,2,5
4.	To draw an outline for the overall view of Indian writing and to identify the relevant problems, trends and issues	R	1,2,4,5

COURSE		DETAILS
CODE:		EN5CREN01
TITLE		ENVIRONMENTAL SCIENCE AND HUMAN RIGHTS
DEGREE		BA
BRANCH(S)		ENGLISH
YEAR/SEMESTER		3 / V
TYPE		CORE
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	90	HOURS PER WEEK: 5

Sl no.	Course Outcomes	CL	PSO
1	To identify and recognize environmental issues and human rights violations around them	R	2,4,5
2	To understand environmental and human rights concepts and associate them with current scenario	U	1,2
3	To differentiate between sustainable development and exploitative development	U/An	2
4	To evaluate concerns of nature conservation through realistic and imaginary contexts	E	2,5,7
5	To generate creative solutions to existing environmental concerns	C	2,6,7

COURSE		DETAILS
CODE:		EN6CB04
TITLE		REGIONAL LITERATURES IN TRANSLATION
DEGREE		BA
BRANCH(S)		ENGLISH
YEAR/SEMESTER		3 / VI
TYPE		CHOICE BASED COURSE
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	72	HOURS PER WEEK: 4

Sl no.	Course Outcomes	CL	PSO
1	Introduce the students to the priceless regional literary assemblage of India for a better understanding of the unique Indian Culture	U	1,2,4,5
2	Acquire a sense of national integration through the diverse experiences represented in the regional literatures of India	An	1,2,4,5
3	Analyse the cultural heterogeneity and linguistic plurality of our country through its literatures written in regional languages.	Ap	1,2,4,5
4	Critique the accuracy of translation by comparing the original works with the translated works.	Ev	1,2,3,4,5,6
5	Inspire the students to associate with regional literatures and the relevance of it in constructing a literary culture.	C	1,2,4,5

COURSE		DETAILS
CODE:		EN6CR10
TITLE		POSTCOLONIAL LITERATURES
DEGREE		BA
BRANCH(S)		ENGLISH
YEAR/SEMESTER		3 / VI
TYPE		CORE
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	90	HOURS PER WEEK: 5

Sl no.	Course Outcomes	CL	PSO
1	Identify the links between language, history and culture	R	1,7
2	Understand the social, political, cultural aspects of postcolonial societies	U	1,7
3	Evaluate the impact of colonialism and imperialism on native cultural identities	E	1,7
4	Apply the various theories of postcolonialism to the writings of different period	Ap	4
5	Develop interpretive skills of close reading	Ap	2,7

COURSE		DETAILS
CODE:		EN6CR11
TITLE		WOMEN WRITING
DEGREE		BA
BRANCH(S)		ENGLISH
YEAR/SEMESTER		3 / VI
TYPE		CORE
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	90	HOURS PER WEEK: 5

Sl no.	Course Outcomes	CL	PSO
1	Retrieve the incidents that one see in society and identify the theoretical representation of the instances in the society.	R	1,7
2	Understand the various ways in which feminist ideologies are put into practice in the contemporary world.	U	1,7



3	Interpret how contemporary issues are dealt with in articles, memoirs, short stories and poems.	Ap	4
4	Differentiate and form critical opinions on relevant issues concerned to women writing.	An	2
5	Critique the skills and techniques employed by various poets and fiction writers.	E	1,7
6	Create a more imaginative and impactful writing stimulated by various works of eminent writers	C	3
7	Generate a series of poems and stories that mirror issues and raise questions pertinent to feminism.	C	3

COURSE		DETAILS
CODE:		EN6CR12
TITLE		AMERICAN LITERATURE
DEGREE		BA
BRANCH(S)		ENGLISH
YEAR/SEMESTER		3 / VI
TYPE		CORE
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	90	HOURS PER WEEK: 5

Sl no.	Course Outcomes	CL	PSO
1	Understand the tenets of American Literature and identify the main authors in the period	R	1,7
2	Compare the threads of thought in American History	U	1,7
3	Apply the various theories of literature to the writings of the period	Ap	4
4	Assess the texts culturally	An	2,7
5	Evaluate the unit of study against the cultural background.	E	1,2
6.	Recreate and enact acts from the text	C	3

COURSE		DETAILS
CODE:		EN6CR13
TITLE		MODERN WORLD LITERATURE

<b>DEGREE</b>		BA
<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		3 / VI
<b>TYPE</b>		CORE
<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	<b>90</b>	<b>HOURS PER WEEK: 5</b>

Sl no.	Course Outcomes	CL	PSO
1	To recognize variety of literatures across the world	R	1,7
2	Name the major proponents and works of modern world literatures	R	1,7
3	Discuss the thematic and stylistic structures of European and non-European fiction	U	4
4	Illustrate various features and techniques of writing fiction from the prescribed texts	U	2,7
5	To evaluate and appreciate the stylistic devices employed in the prescribed poems.	E	1,2
6.	To construct a new notion of mainstream and peripheral literatures	C	3

## BSc Mathematics

### SEMESTER 1 CORE COURSE OUTCOMES

#### MM1CRT01: FOUNDATIONS OF MATHEMATICS

Course Outcome No.	Course Outcomes	Cognitive Level	PSO No.
CO 1	To understand the basic concepts of proposition and logical operators, and get the ability to write propositions using logical operators.	Un	PSO 1,3,4
CO 2	To classify valid and invalid arguments	An	PSO 4
CO 3	To Apply logical operations to prove the theorems.	Un,Ap	PSO 3,4
CO 4	To understand the basic concepts of set theory and to Apply set properties.	Un,Ap	PSO 1,3,4
CO 5	To understand the types of relations and functions and to Apply their different properties.	Un,Ap	PSO 1,3

CO 6	To understand the fundamental concepts of polynomial functions.	Un	PSO 1
CO 7	To get an idea about division algorithm for polynomial functions, factor theorem, and remainder theorem.	Un	PSO 1
CO 8	To solve polynomial functions using theorems.	Un,Ap	PSO 1,4

### MM2CRT02: ANALYTIC GEOMETRY, TRIGNOMETRY, AND DIFFERENTIAL CALCULUS

COURSE OUTCOME NO.	COURSE OUTCOMES	Cognitive Level	PSO NO.
CO 1	To understand the tangent and normals of a conic.	Un, Ap	PSO 1
CO 2	To get an idea of Pole and Polar and conjugate diameters of Ellipse.	Un, Ap	PSO 1, 4
CO 3	To study the polar Co-ordinates and polar equation of line and circles .	Un	PSO 1
CO 4	To get an idea of polar equation of a conic..	Un, Ap	PSO 1,4
CO 5	To understand the polar equations of tangents and normals.	Un	PSO 1
CO 6	To get an idea of circular and hyperbolic functions of complex variables.	Un	PSO 1
CO 7	To explain separation of functions of complex variables into real and imaginary parts.	Un	PSO 1
CO 7	To apply C+iS method to solve summation of infinite series.	Un,Ap	PSO 1,4
CO 8	To get an idea about successive differentiation and indeterminate forms.	Un	PSO 1

### SEMESTER 3 CORE COURSE OUTCOMES MM3CRT03: CALCULUS

Course Outcome No.	Course Outcomes	Cognitive Level	Pso No.
CO 1	To get the ability to expand a function using Taylor's and Maclaurin's series.	Un,Ap	PSO 1,3
CO 2	To Apply the concepts of differential calculus in various curves.	Un,Ap	PSO1,3,4
CO 3	To understand the fundamental concepts of partial derivatives.	Un	PSO 1

CO 4	To get an idea to find saddle points, extreme values using partial derivatives.	Un,Ap	PSO 1,3,4
CO 5	To Apply various methods to find volume of solids using integral calculus.	Ap	PSO 3,4
CO 6	To understand how to find the length of an arc and length of a function.	Un,Ap	PSO 1,4
CO 7	To Apply various method to find area and volume of regions using double and triple integrals	Ap	PSO 3,4

**MM4CRT04:VECTOR CALCULUS, THEORY OF NUMBERS AND LAPLACE TRANSFORM**

COURSE OUTCOME NO.	COURSE OUTCOMES	Cognitive Level	PSO NO.
CO 1	To understand the vector equation and Parametric equations for lines and equation for a plane in space.	Un, Ap	PSO 1
CO 2	To get the idea of curvature and Directional derivatives.	Un, Ap	PSO 1, 4
CO 3	To understand the concepts of vector integration and also find path independence and conservative fields.	Un	PSO 1
CO 4	To get the idea of Green's theorem, Stokes theorem and divergence theorem	Un, Ap	PSO 1,4
CO 5	To understand fundamental concepts of congruence and learn Fermat's theorem and Wilson's theorem	Un	PSO 1
CO 6	To get an idea about Euler's phi function.	Un	PSO 1
CO 7	To understand fundamental concepts of Laplace transforms and get an idea about convolution and integral equations	Un	PSO 1

**SEMESTER 5 CORE COURSE : MM5CRT05 - MATHEMATICAL ANALYSIS**

Course Outcomes No.	Course Outcomes	Cognitive Level	PSO No.
CO 1	To understand the set of real numbers as a complete ordered field and to distinguish the properties of real numbers and other algebraic structures similar to real numbers.	Un, An	PSO 1,

CO 2	To identify different forms of numerical representation of real numbers and to characterize different types of intervals.	An	PSO 1,2
CO 3	To recognize different methods to establish the convergence of sequence and to find the limit.	Re	PSO 2,3,5
CO 4	To learn the necessary and sufficient conditions of convergence of different classes of sequences and to Apply the convergence to Approximate some irrationals.	Un, Ap	PSO 4,5
CO 5	To identify various types of convergent and divergent sequences.	Un	PSO 7
CO 6	To understand the basic concepts about infinite series and Apply different types of tests to establish the convergence or divergence of infinite series.	Un, Ap	PSO 3,5
CO 7	To categorize different classes of convergent series and learn the techniques to establish the convergence.	An	PSO 4,5
CO 8	To understand limit of a function at a point and Apply theories to find the limit of a function at a point.	Un	PSO 1,4

#### SEMESTER 5 CORE COURSE MM5CRT06: DIFFERENTIAL EQUATIONS

O NO.	COURSE OUTSOMES	COGNITIVE LEVEL	PSO NO.
CO 1	To understand fundamental concepts of differential equation and its orders.	Un	PSO 1,2
CO 2	To get an idea to form a differential equation.	Un	PSO 2,3
CO 3	To understand basics orthogonal trajectories.	Un	PSO 3,4
CO 4	To Apply various methods to solve differential equations.	Ap	PSO 2,3
CO 5	To learn the idea power series and its solutions.	Un	PSO 3,4
CO 6	To understand the basics of partial differential equations.	Un	PSO 5,7
CO 7	To identify various solution techniques to solve partial differential equations	Ap	PSO 3,5

**SEMESTER 5 CORE COURSE MM5CRT07 ABSTRACT ALGEBRA**

Course outcome number	Course outcomes	Cognitive level	PSO No:
<b>CO1</b>	To understand the fundamental concepts in Group theory and their properties	U	PSO 1
<b>CO 2</b>	To explain the various types of groups	U	PSO 1,4
<b>CO 3</b>	To solve problems related to Group Theory	Ap	PSO 4
<b>CO 4</b>	To learn the concepts of isomorphism and homomorphism for groups and rings	U	PSO 1
<b>CO 5</b>	To understand the fundamental concepts in Ring theory and their properties	U	PSO 1
<b>CO 6</b>	To solve problems related to rings.	Ap	PSO 4

**SEMESTER 5 CORE COURSE Environmental Mathematics and Human Rights**

Course Outcomes	Outcomes	Cognitive level	PSO No
CO1	To understand the human rights for an Indian citizen, women, children, prisoners etc.	Un	PSO 1,2
CO 2	To understand the applications of mathematics in nature.	Un	PSO 3,4
CO 3	To understand the role of mathematics in the beauty of nature, architecture etc.	Un	PSO 2,3,4
CO 4	To understand the issues that pollute or disturb the environment that cause the natural disasters.	Un	
CO 5	To understand how to reduce environmental disasters that are man made.	Un	

**SEMESTER 5 OPEN COURSE MM5GET02: APPLICABLE MATHEMATICS**

O NO.	COURSE OUTSOMES	COGNITIVE LEVEL	PSO NO.
CO 1	To understand basic mathematics	Un	PSO 1,2
CO 2	To get familiar with shortcut methods to solve problems	Ap	PSO 3

CO 3	To understand types of numbers and improve arithmetic skills	Un	PSO 3,1
CO 4	To enrich problem solving and reasoning skill.	Ap	PSO 3
CO 5	To get the idea of permutation and combination and solve the related problems.	Un,Ap	PSO 1,4
CO 6	To acquire knowledge in trigonometry and Apply this concepts to analyse and solve problems.	Un,Ap	PSO 1,4
CO 7	To prepare the students to approach competitive examinations.	Ap	PSO 3,4

**SIXTH SEMESTER CORECOURSE**  
**COURSE OUTCOMES MM5CRT05–REAL ANALYSIS**

CO NO.	COURSE OUTCOMES	COGNITIVE LEVEL	PSO NO.
CO 1	To understand the concept of continuous functions and its properties.	Un	PSO 1,4
CO 2	To get an idea of uniform continuity and compare it with continuity.	Un, An	PSO 1
CO 3	To understand the concept of differentiation.	Un	PSO 1
CO 4	To get an idea of mean value theorem and L'hospital rules.	Un	PSO 1,4
CO 5	To understand Riemann integration.	Un	PSO 1
CO 6	To get an idea of Riemann integrable functions and fundamental theorem of calculus.	Un, Ap	PSO 1,4
CO 7	To introduce the concepts of pointwise and uniform convergence of sequence and series.	Un, Ap	PSO 1,4
CO 8	To get an idea about how to interchange limits.	Un, Ap	PSO 1,4

**SIXTH SEMESTER CORE COURSE: MM6CRT10–GRAPH THEORY AND METRIC SPACES**

Course Outcomes No.	Course Outcomes	Cognitive Level	PSO No.
CO 1	To understand fundamental concepts of graphs and get an idea about its matrix representation.	Un, An	PSO 1
CO 2	To understand fundamental concepts of trees and their properties.	An	PSO 1,2

CO 3	To explain Chinese Postman problem and Travelling Salesman problem	Re	PSO 2,3,5
CO 4	To understand the concept of distance in an arbitrary space.	Un, Ap	PSO 4,5
CO 5	To understand the concepts open sets , closed sets, cantor sets.	Un	PSO 7
CO 6	To understand the concept of convergence and completeness	Un	PSO 3,5
CO 7	To understand Baire's Theorem and continuous mapping	Un	PSO 4,5
CO 8	To understand the fundamental properties of continuous functions and its characteristics	Un	PSO 1,4

### ComplexAnalysis

### MM6CRT11

O NO.	COURSE OUTCOMES	COGNITIVELE VEL	PSO NO.
CO 1	To understand the concept of Analytic functions and will be familiar with the elementary complex functions	Un	PSO 1,2
CO 2	To apply Cauchy Riemann equations to solve problems involving differentiability of complex functions	Ap	PSO 4
CO 3	To analyze and demonstrate examples of harmonic functions	An	PSO 3,4
CO 4	To understand the theory and techniques of complex integration	Un	PSO 1
CO 5	To understand and apply the theory of the power series expansion of analytic functions.	Un,Ap	PSO 1,4
CO 6	To identify different types of singularities and calculate residues.	Un	PSO 1
CO 7	To understand and apply fundamental theorems in complex analysis.	Un,App	PSO1,4



**MM6CRT12 :LINEARALGEBRA**

<b>COURSE OUTCOME NO.</b>	<b>COURSE OUTCOMES</b>	<b>Cognitive Level</b>	<b>PSO NO.</b>
CO 1	To understand fundamental concepts of system of linear equations and difference equation	Un	PSO 1
CO 2	To apply various method to solve system of linear equations.	Un, Ap	PSO 1, 4
CO 3	To apply various method to find rank of the matrices.	Un, Ap	PSO 1,4
CO 4	To understand fundamental concepts of vectorspace.	Un	PSO 1
CO 5	To understand the basic concepts of linear mapping and its matrix representation.	Un,Ap	PSO 1,4
CO 6	To get an idea about eigen values and eigen vectors	Un	PSO 1

**MM6CBT01 OPERATION RESEARCH**

<b>O NO.</b>	<b>COURSE OUTSOMES</b>	<b>COGNITIVE LEVEL</b>	<b>PSO NO.</b>
CO 1	To understand the basic concepts of Linear programming	Un	PSO 1
CO 2	Describe guidelines on Linear programming model formulation and examples of Linear programming.	Un,Ap	PSO 1,4
CO 3	Describe various definition and graphical method to find solutions of Linear programming problems.	Un	PSO 1
CO 4	To understand special cases in Linear programming.	Ap	PSO 4
CO 5	To learn standard form of an LPP, Simplex algorithm, Big M method and different types of Linear programming solutions and solve problems related to them.	Un,Ap	PSO 1,4
CO 6	To understand duality, standard results on duality and advantages of duality and related theorems.	Un	PSO 1
CO 7	Explain transportation problems and assignment problems and solve problems related to them.	Un	PSO 1, 3

CO 8	Learn Theory of games and different methods like Arithmetic method , Matrix method ,graphical method and linear and apply various methods to solve problems.	Un	PSO 1, 3
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**SEMESTER 1 MM1CMT01- PARTIAL DIFFERENTIATION, MATRICES,  
TRIGNOMETRY AND NUMERICALMETHODS**

COURSE OUTCOME NO.	COURSE OUTCOMES	Cognitive Level	PSO NO.
CO 1	To understand the fundamentals of partial differentiation and to distinguish various types partial differential equations.	Un	PSO 1
CO 2	To identify various solution techniques to solve some class of partial differential equations	Re	PSO 3,4
CO 3	To apply various methods to find the solution of system of linear equations, rank of a matrix and classify different types of matrices and its properties.	Ap, An	PSO 4
CO 4	To get an idea about characteristic roots and characteristic vectors of a matrix and	Un	PSO 1
CO 5	To understand Cayley Hamilton Theorem and application of theorem in different problems.	Un,Ap	PSO 1,3,7
CO 6	To understand and simplify various types of trigonometric expressions and express them in C+iS form to sum trigonometric series.	Un	PSO 1,3
CO 7	To apply numerical methods to solve algebraic as well as transcendental expressions.	Ap	PSO 3,4

**MM2CMT02– INTEGRAL CALCULUS AND DIFFERENTIAL EQUATIONS**

CO NO.	COURSE OUTCOMES	COGNITIVE LEVEL	PSO NO.
CO 1	To identify ordinary differential equations and solve them.	Un	PSO 1,4
CO 2	To study the theory of partial differential equations.	Un	PSO 1
CO 3	To study the method of obtaining partial differential equations.	Un, App	PSO 1,4

CO 4	To get an idea about how to find volumes using cross sections.	Un, App	PSO 1,4
CO 5	To understand volumes using cylindrical shells.	Un, App	PSO 1,4
CO 6	To get an idea of Arc lengths and areas of revolution.	Un, App	PSO 1,4
CO 7	To introduce the concepts of double integrals over general regions and by using this find the area of that regions .	Un, App	PSO 1,4
CO 8	To get an idea about triple integrals.	Un, App	PSO 1,4

**SEMESTER 3 MM32CMT03 VECTOR CALCULUS, ANALYTIC GEOMETRY AND  
ABSTRACT ALGEBRA**

Course outcome number	Course outcomes	Cognitive level	PSO No:
CO1	To understand the basics of vector differentiation and integration .	U	PSO 1
CO 2	To understand how vector calculus is used in finding velocity, acceleration, curvature etc. of moving particles, density, mass etc. of thin wires etc.	U, Ap	PSO 1, 4
CO 3	To understand the important theorems in vector integration : Green's theorem, Stoke's theorem and divergence theorem and solve problems using these theorems.	U, Ap	PSO 1,3,4
CO 4	To identify different conics and its properties	Re	PSO 1,4
CO 5	To solve and graph problems related to conic	Ap	PSO 4
CO 6	To understand the basic concepts in Group theory.	U	PSO 1
CO 7	To solve problems related to Group theory	Ap	PSO 3,4

**FOURTH SEMESTER**

**MM4CMT04 : FOURIER SERIES, LAPLACE TRANSFORMS AND COMPLEX  
ANALYSIS**

COURSE OUTCOME NO.	COURSE OUTCOMES	Cognitive Level	PSO NO.
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CO 1	To understand fundamental concepts of periodic functions, trigonometric series, fourier series.	Un	PSO 1
CO 2	To get an idea about power series, and solving differential equations using power series method.	Un, Ap	PSO 1, 3,4
CO 3	To understand fundamental concepts of Laplace transforms.	Un	PSO 1
CO 4	To apply various method to find Laplace transforms of different functions.	Un, Ap	PSO 1,4
CO 5	To understand the fundamental concepts of complex numbers and functions.	Un	PSO 1
CO 6	To apply CR equations to find differentiable functions.	Un,Ap	PSO 1,4
CO 7	To understand various method to find complex integration.	Un	PSO 1

## BSc Physics

### Semester I (Core)

#### PH1CRT01 -Methodology and Perspectives in Physics

Sl.No.	Course Outcome	Cognitive Level	PSO
1.	Recognize the contributions of scientists in Physics.	Remember	1
2.	Appreciate the inventions and discoveries in Physics.	Understand	1
3.	Compute the binary operations based on binary rules.	Apply	1,5
4.	Calculate different operations in vectors.	Apply	5,6
5.	Differentiate different Co-ordinate systems.	Analyze	1,5
6.	Apply the knowledge of error and precision to check the accuracy of measuring instruments.	Evaluate	4,5,6

**Semester II (Core)**  
**PH2CRT01 –Mechanics and Properties of Matter**

Sl.No.	Course Outcome	Cognitive Level	PSO
1.	Identify different types of motion.	Understand	1, 2,5
2.	Develop knowledge and understanding of Mechanical properties of matter.	Understand	1,2,5
3.	Understand the dynamics of different types of pendulum.		1,5
4.	Determine moment of inertia of symmetrical rigid bodies based on parallel and perpendicular axes theorem	Apply	1,5
5.	Differentiate different types of fluid flow.		1,2,5
6.	Understand the phenomena of surface tension and relate it to daily life.		2,5

**Semester III(Core)**  
**PH3CRT03: OPTICS, LASER & FIBER OPTICS**

Sl No.	Course Outcome	Cognitive Level	PSO No.
1	Understand the basic idea of optics- interference, diffraction, polarisation.	Understand	1
2	Illustrate the construction and working of basic optics and laser related equipments.	Understand	1,3
3	Apply the basic equations of optics in problem solving.	Apply	2,5
4	Apply the principles of optics in conducting experiments related to optics.	Apply	2,3,4,5
5	Focus on the applications of laser and fibre optics in day today life.	Analyse	6
6	Identify the cause and effects of the basic phenomena of nature based on the principles of optics.	Analyse	7

**Semester IV (Core)**  
**PH4CRT04: Semiconductor Physics**

Sl. No.	Course Outcome	Cognitive Level	PSO
1	Understand the concepts of semiconducting diodes and its applications	Understand	1
2	Execute the principles of diodes in rectifiers, filters, clippers and clampers.	Apply	1, 2, 3, 5
3	Understand the concepts of transistor configurations and its application	Understand	1
4	Execute the principle of transistor configuration for the study of oscillators and amplifiers.	Understand, Apply	1, 2, 3, 5
5	Understand FET, Op-Amp, and modulation	Understand	1
6	Calculate different parameters related to transistors, oscillators and amplifiers.	Apply	5

**SemesterV**  
**PH5CRT05- Electricity and Electrodynamics**

Sl.No.	Course Outcome	Cognitive Level	PSO
1.	Understand the difference between resistance and impedance in an a.c circuit.	Understand	1, 2
2.	Understand the concepts of flux, electric field, and magnetic field.	Understand	1, 2
3.	Compute the current and voltage in electrical circuit containing L,C,R.	Apply	2, 5, 6
4.	Simplify complex circuits using network theorems.	Apply	2, 5, 6
5.	Apply the fundamental theorems of curl and divergence in specific situations.	Apply	2, 5, 6
6.	Evaluate the electric field due to symmetric charge distribution by applying Gauss's law.	Apply	5
7.	Understand that Maxwell's equations are the base of electromagnetic theory.	Understand	5, 6

8.	Apply the Biot-Savart law and Ampere's law to compute magnetic field due to a charge distribution.	Apply	4,5
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## SemesterV

### PH5CRT06: Classical and Quantum Mechanics

Sl No.	Course Outcome	Cognitive Level	PSO No.
1	Understand the advantages of analytical mechanics over Newtonian mechanics and basic formulation of Lagrangian and Hamiltonian methods.	Understand	1
2	Understand the importance of Quantum Mechanics by the successful explanation of blackbody radiation, photoelectric effect and Compton effect where classical theory failed.	Understand	1
3	Solve simple systems using Lagrangian and Hamiltonian formulations.	Apply	2,5
4	Understand wave particle duality by illustrating Davisson Germer experiment and de Broglie hypothesis and solve problems	Understand Apply	1,5
5	Understand the basic tools for the formulation of quantum mechanics and the basic equations of quantum mechanics.	Understand	1
6	Summarize that Classical Mechanics and Quantum Mechanics are two different interpretations of same aspects.	Understand	1
7	Apply the quantum mechanical principle for normalising the wave functions and to estimate the values of eigen values and eigen functions.	Apply	5

## SemesterV

### PH5CRT07: Digital Electronics and Programming

SL.NO	COURSE OUTCOME	COGNITIVE LEVEL	PSO
1	Understand the basics of Boolean algebra and logic gates and study the methods to simplify Boolean expressions	Understand	1
2	Apply K map method to simplify Boolean expressions	Apply	5

3	Differentiate combinational logic circuits and sequential logic circuits. Apply these logics in simple circuits.	Understand Apply	1,5
4	Understand basics of C++ programming like control structures, loops , functions	Understand	1
5	Create simple programs in C++ using loops	Create	6

## SemesterV

### PH5CRT08: Environmental Physics and Human rights

Sl No.	Course Outcome	Cognitive Level	PSO
1	Understand the scope and importance of environmental studies, differentiate different types of natural resources and ecosystems.	Understand	1,2,7
2	Understand the negative impacts on nature by human beings and to create awareness.	Understand	1,2,7
3	Understand the capacity of solar power technology in replacing the non renewable sources of energy.	Understand	1,2,7
4	Understand the importance of human rights and the national and international perspectives on human rights.	Understand	1,2,7
5	Differentiate the causes of environmental pollution and to encourage the students to develop positive attitudes and values.	Analyse	6,7

## Semester V

### (Open Course) PH5OPT02 : Physics In DailyLife

Sl. No.	Course Outcome	Cognitive Level	PSO
1	Understand the fundamentals of units and dimensions and dimensional analysis	Understand	1
2	Understand the basic properties of light including basic ideas of diffraction, interference and scattering	Understand	1
3	Differentiate linear and rotational motion. Understand the forces acting in different types of motion.	Understand	1
4	Understand the working principles of electrical appliances, transformer and generator and how they are used in power generation	Understand	1



5	Understand the different phases of matter and their properties.	Understand	1
6	Understand how energy is transported in forms of light, waves heat etc and different phenomena related to it and the universe	Understand	1

## SemesterVI

### PH6CRT09 : Thermal and Statistical Physics

Sl. No.	Course Outcome	Cognitive Level	PSO
1	Recall the basic ideas of thermodynamics and to understand the laws of thermodynamics.	Remember, Understand	1
2	Understand the working of heat engine .	Understand	1
3	Explain the concepts of entropy and to derive thermodynamic relations.	Understand	1
4	Understand heat transfer mechanisms and related laws.	Understand	1
5	Apply thermodynamic laws to estimate thermodynamic variables.	Apply	5
6	Understand the basics of statistical mechanics.	Understand	1
7	Distinguish statistical distributions.	Understand	1

## SemesterVI

### PH6CRT10 : Relativity and Spectroscopy

Sl.No	Course Outcome	Cognitive Level	PSO
1	Understand the concepts of special theory of relativity and to solve problems using it	Understand , Apply	1, 5
2	Explain different atom models	Understand	1
3	Illustrate Sodium D lines, Zeeman effect and Paschen-back effect on the basis of atomic spectroscopy	Understand	1
4	Understand electronic, vibrational and rotational energy levels of molecules.	Understand	1
5	Explain Raman effect based on classical and quantum theory	Understand	1

6	Basic principles and instrumentation of NMR and ESR spectroscopy	Understand	1
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### SemesterVI

#### PH6CRT11 : Nuclear Physics, Astrophysics

Sl. No	Course Outcome	Cognitive Level	PSO
1	Understand the structure and properties of nucleus.	Understand	1, 5
2	Understand different nuclear models.	Understand	1
3	Understand different particle accelerators and counters.	Understand	1
4.	Estimate the energy of nuclear reactions	Apply	1, 5
5	Differentiate between different nuclear radiations.	Understand	1
6	Classify different types of Nuclear reactors	Understand	1
7	Categorize different elementary particles and Understand particle quantum numbers	Understand	1
8	Understand the effects of cosmic rays.	Understand	1
9	Understand the theory of birth and evolution of stars	Understand	1

### SemesterVI

#### PH6CRT12: Solid State Physics

Sl.No.	Course Outcome	Cognitive Level	PSO
1	Recall the basic solid state structures already studied	Remember	1
2	Understand the basics of Solid State Physics.	Understand	1
3	Illustrate the different crystal types and bonding in solids found in nature.	Understand	1
4	Determine the free electron theory and elementary band theory	Apply	2
5	Relevance of superconductivity, LED and photodiodes	Analyze	3
6	Problem solving in the field of solid state physics	Analyze	5
7	Organize the crystals type based on their conducting, dielectric and magnetic properties	Analyze	5

**SemesterVI****PH6CBT02 : Material Science**

SL.NO	CO	Cognitive Level	PSO
1	Explain the basic structure of materials at microscopic scales	Understand	1
2	Classifications of defects in crystalline solids	Understand	1
3	Determine the diffusion coefficient, $D$ . Using Fick's first law and Second law	Apply	5
4	Explain the property of a substance in which there is no definite relation between stress and strain.	Understand	1
5	Explain the properties ,applications and preparation of nanoparticles.	Understand	
6	Distinguish different material characterization Technique	Understand	1
7	Understand the thermal, electrical, magnetical, chemical, optical properties of materials.	Understand	1

**Semester I & II (Core Practical)****PH2CRP01 –Mechanics and Properties of Matter**

Sl.No.	Course Outcome	Cognitive Level	PSO
1.	Apply the knowledge of different types of pendulum to determine 'g'.	Understand, Apply	2,3,4,6
2.	Determine surface tension of liquid using capillary rise method.	Understand, Apply	2,3,4,6
3.	Determine moment of inertia of fly wheel.	Understand, Apply	2,3,4,6
4.	Determine the rigidity modulus of a material using static and dynamic method.	Understand, Apply	2,3,4,6
5.	Determine Young's modulus of a material by different bending methods.	Understand, Apply	2,3,4,6

**Semester III & IV (Core Practical)**  
**PH4CRP02: Optics and Semiconductor Physics**

Sl.No	Course Outcome	Cognitive Level	PSO
1	Determine optical constants of different materials using spectrometer and liquid lens	Apply	1, 2,3,4,5,6
2	Execute and analyse the characteristics of semiconductor devices.	Apply, Analyze	1,2,3,4,5
3	Execute and analyze the characteristics of semiconducting circuits	Apply, Analyze	1,2,3,4,5

**Semester V & VI Practical**  
**PH6CRP03: Electricity, Magnetism and LASER**

Sl.No.	Course Outcome	Cognitive level	PSOs
1	Estimation and calibration of basic electrical equipments.	Apply	1,3,4,5
2	Determine the magnetic field and related parameters	Apply	1,3,4,5
3	Determine basic parameters related to current	Apply	1,3,4,5
4	Verify current theorems	Analyze	1,3,4,5
5	Determine optical constants using varying experimental methods	Apply	1,3,4,5
6	Determination of Dielectric constant of a thin sheet/ a liquid	Apply	1,3,4,5

**PH6CRP04: Digital Electronics**

Sl.No.	Course Outcome	Cognitive level	PSOs
1	Verify the truth table of basic and universal gates	Analyze	1,3,4,5
2	Verification of electronic theorems and circuits	Analyze	1,3,4,5
3	Characteristic study of electronic circuits	Analyze	1,3,4,5

**PH6CRP05: Thermal Physics, Spectroscopy and C++**

Sl. No.	Course Outcome	Cognitive level	PSOs
1	Characteristic study related to thermal physics	Analyze	1,3,4,5
2	Determination of spectroscopic parameters	Apply	1,3,4,5
3	Carry out C++ programs	Apply	1,3,4,5

**PH6CRP06: Acoustics, Photonics and Advanced Semiconductor Physics**

Sl. No.	Course Outcome	Cognitive level	PSOs
1	Characteristic study of wave motion	Analyze	1,3,4,5
2	Determination of optical constants	Apply	1,3,4,5
3	Characteristic study in advanced semiconductor Physics	Analyze	1,3,4,5
4	Verification of electronic circuits	Analyze	1,3,4,5

**Semester I (complementary physics for Mathematics) PH1CMT01: Properties of Matter and Error Analysis**

Sl.No	Course Outcome	Cognitive Level	PSO
1	Understand the elastic behavior of materials	Understand	1
2	Calculate the elevation and depression of beams & rigidity modulus using different methods	Apply	5
3	Understand the basic theories of surface tension and its applications in daily life	Understand Apply	1,5
4	Solve problems to find viscosity using different methods.	Analyse	5
5	Understand the basics of error analysis and rounding off in calculations	Understand	1
6	Understand the origin of errors and how errors propagate in calculations	Understand	1

**Semester II (complementary physics for Mathematics)  
PH2CMT01: Mechanics and Astrophysics**

Sl.No	Course Outcome	Cognitive Level	PSO
1	Understand different types of pendulum and compute the acceleration due to gravity.	Understand	1
2	Identify different types of motion.	Apply	1, 2
3	Determine moment inertia of symmetric rigid bodies applying parallel and perpendicular axes theorem.	Remember, Understand Apply	1,5
4	Classify different types of waves.	Understand	1

5	Understand different phenomena related to progressive waves.	Understand	1, 5
6	Understand the basics of stellar evolution.	Understand	1

**Semester III (Complementary Physics for Mathematics)**  
**PH3CMT01: Modern Physics and Electronics**

Sl No.	Course Outcome	Cognitive Level	PSO
1	Understand and list the basic features of Bohr atom model, and the different coupling schemes.	Understand	1
2	Understand the basic properties of atomic nucleus and nuclear forces.	Understand	1
3	Understand the features of radioactivity and to compute the disintegration of radioactivity.	Understand, Apply	2,5
4	Explain the failures of classical mechanics and the emergence of quantum mechanics by illustrating black body spectrum, photo electric effect and Compton effect.	Understand	1
5	Understand the Schrodinger equations and to solve the problems related to it.	Understand, Apply	1,5
6	Explain different modes of molecular excitations.	Understand	1
7	Understand the basics of diodes and its applications.	Understand	1
8	Explain different number systems and to find the output of different logic gates and solve complex circuits using logic gates.	Understand Apply	1,5

**Semester IV (Complementary Physics for Mathematics)**  
**PH4CMT02: Optics and Electricity**

Sl. No.	Course Outcome	Cognitive Level	PSO
1	Understand the basic ideas of optics – Interference, Diffraction, Polarization.	Understand	1
2	Illustrate the principles of laser.	Understand	1
3	Understand the working principle of optic fibers and to classify it.	Understand	1
4	Explain various features of dielectrics.	Understand	1
5	Understand the basics of varying current in various circuits.	Understand	1

6	Solve the problems related to optics, laser, fiber optics, dielectrics and varying current.	Understand, Apply	1,5
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**Semester I (Complementary physics for Chemistry)**  
**PH1CMT02: Properties of Matter and Thermodynamics**

Sl.No.	Course Outcome	Cognitive Level	PSO
1	Understand the elastic behaviour of materials	Understand	1
2	Calculate the elevation and depression of beams & rigidity modulus using different methods	Apply	5
3	Understand the basic theories of surface tension and its applications in daily life	Understand Apply	1,5
4	Solve problems to find viscosity using different methods.	Analyse	5
5	Differentiate different thermodynamics processes and study the significance of laws of thermodynamics	Understand	1
6	Differentiate different thermodynamics processes and study the significance of laws of thermodynamics	Understand	1

**Semester II (Complementary physics for Chemistry)**  
**PH2CMT02: Mechanics and Superconductivity**

Sl.No	Course Outcome	Cognitive Level	PSO
1	Understand different types of pendulum and compute the acceleration due to gravity.	Understand	1,
2	Identify different types of motion.	Apply	1, 2
3	Determine moment inertia of symmetric rigid bodies applying parallel and perpendicular axes theorem.	Remember , Understand Apply	1,5
4	Classify different types of waves.	Understand	1

5	Understand different phenomena related to progressive waves.	Understand	1, 5
6	Understand the phenomena of superconductivity and its applications.	Understand	1

**Semester III (Complementary Physics for Chemistry)**  
**PH3CMT02: MODERN PHYSICS AND MAGNETISM**

Sl No.	Course Outcome	Cognitive Level	PSO
1	Understand and list the basic features of Bohr atom model, and the different coupling schemes.	Understand	1
2	Understand the basic properties of atomic nucleus and nuclear forces.	Understand	1
3	Understand the features of radioactivity and to compute the disintegration of radioactivity.	Understand, Apply	2,5
4	Explain the failures of classical mechanics and the emergence of quantum mechanics by illustrating black body spectrum, photo electric effect and Compton effect.	Understand	1
5	Understand the Schrodinger equations and to solve the problems related to it.	Understand, Apply	1,5
6	Explain different modes of molecular excitations.	Understand	1
7	Understand the basics of diodes and its applications.	Understand	1
8	Differentiate magnetic materials	Understand	1

**Semester IV (Complementary Physics for Chemistry)**  
**PH4CMT02: Optics and Solid State Physics**

Sl. No.	Course Outcome	Cognitive Level	PSO
1	Understand the basic ideas of optics – Interference, Diffraction, Polarization.	Understand	1
2	Illustrate the principles of laser.	Understand	1
3	Understand the working principle of optic fibers and to classify it.	Understand	1
4	Explain various features of dielectrics.	Understand	1
5	Understand the basics of crystallography.	Understand	1



6	Solve the problems related to optics, laser, fiber optics, dielectrics and crystallography.	Understand, Apply	1,5
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**Semester I &II (Complementary Physics Practical)  
PH2CMP01 –Complementary Physics Practical1**

Sl. No.	Course Outcome	Cognitive Level	PSO
1.	Apply the knowledge of different types of pendulum to determine 'g'.	Understand, Apply	2,3,4,6
2.	Determine surface tension of liquid using capillary rise method.	Understand, Apply	2,3,4,6
3.	Determine moment of inertia of fly wheel.	Understand, Apply	2,3,4,6
4.	Determine the rigidity modulus of a material using static and dynamic method.	Understand, Apply	2,3,4,6
5.	Determine Young's modulus of a material.	Understand, Apply	2,3,4,6

**Semester III & IV (Complementary Physics Practical)  
PH4CMP02: Complementary Physics Practical2**

Sl. No.	Course Outcome	Cognitive Level	PSO
1	Determine Young's modulus.	Apply	1,3,4,5
2	Calculate moment of inertia, rigidity modulus and acceleration due to gravity using different methods.	Apply	1,3,4,5
3	Determine the optical constants using different methods.	Apply	1,3,4,5
4	Carry out calibration of ammeter and voltmeter.	Apply	1,3,4,5
5	Execute and analyze characteristics of semiconducting devices and circuits.	Apply, Analyze	1,3,4,5
6	Calculate resistivity of given material.	Apply	1,3,4,5
7	Determine the magnetic parameters.	Apply	1,3,4,5
8	Execute and differentiate logic gates.	Apply, Analyze	1,3,4,5

# BSc Chemistry

Course Code: CH1CRT01

Course Title: General and Analytical Chemistry

Credits: 2

Programme	B.Sc Chemistry		
Semester	I		
Course Type	Core		
Instructor(s)	Mrs Jaisy Joy and Ms. Merlin Thomas		
Hrs/Week	2	Total Hours	36

CO	Course Outcomes	CL	PSO
1	Describe the methodology and evolution of Chemistry	U	PSO1
2	Discuss the periodic table and various properties associated with periodic table	U	PSO1
3	Explain the various analytical tools in Chemistry	U	PSO1
4	Apply the concepts of analytical methods in solving problems	Ap	PSO5
5	Summarize the basic ideas of chromatographic techniques	U	PSO1
6	Evaluate analytical Data	E	PSO4

Course Code: CH2CRT02 – THEORETICAL AND INORGANIC CHEMISTRY

Credits:2

Programme	B.Sc		
Semester	II		
Course Type	Core		
Instructor(s)	Mrs. Jaisy Joy, Mrs. Merlin Thomas,		

CO	Course Outcomes	CL	PSO
1	Explain different models of atom	U	PSO1

2	Discuss octet rule and its limitations	U	PSO1
3	Explain the chemistry of S,P,D and f block elements.	U	PSO1
4	Calculate radius,energy,velocity of an electron	Ap	PSO1
5	Explain the various concepts in ionic and covalent bonding	U	PSO1
6	Describe molecular orbital theory and metallic bonding	U	PSO1
7	Discuss about the different intermolecular forces	U	PSO1

**Course Code: CH2CRP01      Course Title: Volumetric Analysis**

**Credits: 2**

Programme	B.Sc Chemistry		
Semester	I &2		
Course Type	Core		
Instructor(s)	Mrs Jaisy Joy and Mrs. Merlin Thomas		
Hrs/Week	2	Total Hours	72

CO	Course Outcomes	CL	PSO
1	Determine the concentration of various solutions	Ap	PSO1
2	Estimate the amount of substance present in a given solution.	Ap	PSO1

**Course Code: CH3CRT03      Course Title: Organic Chemistry I**

**Credits: 3**

Programme	B.Sc Chemistry
Semester	III
Course Type	Core
Instructor(s)	Dr. Annu Thomas, Dr. Radhika.S

CO	Course Outcomes	CL	PSO
1	Explain the basic principles of organic reactions	U	PSO1

2	Determine the stereochemistry of compounds	Ap	PSO1
3	Describe various reaction intermediates	R	PSO1
4	Predict the category to which reaction belong to	Ap	PSO1
5	Compare reaction of aromatic and aliphatic compounds	U	PSO1
6	Solve the mechanism of various chemical reactions	Ap	PSO2
7	Name the organic compounds using IUPAC nomenclature	U	PSO1
8	Describe various pericyclic reactions	U	PSO2

**Course Code:** CH4CRT04    **Course Title:** Organic Chemistry II

**Credits:** 3

Programme	B.Sc Chemistry
Semester	IV
Course Type	Core
Instructor(s)	Dr. Annu Thomas, Dr. Radhika.S

CO	Course Outcomes	CL	PSO
1	Retrieve various synthesis methods leading to the formation of alcohols, carbonyl compounds and carboxylic acids	R	PSO1
2	Plan synthetic procedures based on rearrangements	C	PSO6
3	Write down general reactions of sulphonic acid	U	PSO1
4	Identify synthesis and reactivity of carboxylic acid derivatives	R	PSO1
5	Discuss various reactions of alcohols, phenols and ethers	U	PSO1
6	Carry out synthesis of industrially important organic compounds using aldehydes and ketones	Ap	PSO5
7	Compare reactivity of aldehydes and ketones	U	PSO1
8	Draw mechanisms of various rearrangement reactions	R	PSO1

**Course Code: CH4CRP02    Course Title: Qualitative Organic Analysis    Credits: 2**

Programme	B.Sc Chemistry
Semester	III & IV
Course Type	Core
Instructor(s)	Dr. Annu Thomas, Dr. Radhika.S

CO	Course Outcomes	CL	PSO
1	Write down chemistry of common organic reactions	U	PSO1
2	Interferences of basic organic chemical reactions	An	PSO1
3	Determine organic compounds based on functional groups	Ap	PSO2
4	Calculate physical constants of basic organic compounds	Ap	PSO2
5	Design suitable derivatives	Cr	PSO1

**Course Code: CH5CRT06    Course Title: Organic Chemistry III**

**Credits: 3**

Programme	B.Sc Chemistry
Semester	V
Course Type	Core
Instructor(s)	Mrs Jaisy Joy and Ms. Radhika S

CO	Course Outcomes	CL	PSO
1	Understand the preparation and reactions of nitro compounds	U	PSO1
2	Describe various preparation methods of amines with mechanism	U	PSO1
3	Explain the reactions of aliphatic and aromatic amines	U	PSO1
4	Use the concepts in predicting the mechanisms	Ap	PSO5
5	Define the structure, aromaticity and reactions of heterocyclic compounds	R	PSO1

6	Outline various sythetic methods for the preparations of important organic compounds from active methylene compounds	An	PSO1
7	Summarize the basic concepts, reactions and uses of carbohydrates	U	PSO1
8	Describe the structure, theraputic uses and mode of action of commonly used drugs.	U	PSO1
9	Discuss the synthesis and applications of common dyes and polymers	U	PSO1

**Course Code:** CH5CRT07      **Course Title:** Physical Chemistry I

Credits: 2

Programme	B.Sc Chemistry
Semester	V
Course Type	Core
Instructor(s)	Mrs Jaisy Joy and Ms. Anu P Nair

CO	Course Outcomes	CL	PSO
1	Describe about ideal behaviour of gases	U	PSO1
2	Understand the behaviour of real gases	U	PSO1
3	Explain about the properties of liquids	U	PSO1
4	Compare crystal structures	U	PSO1
5	Solve problems based on solids ,liquids and gaseous states	Ap	PSO5
6	Predict the lattice type from XRD data	U	PSO5
7	Understand semiconductors,superconductors and liquid crystals	U	PSO1
8	Understand the phenomenon of adsorption	U	PSO1
9	Explain about preparation and properties of colloids	U	PSO1

**Course Code:**CH5CRT08**Course Title:** Physical Chemistry II

**Credits:** 3

Programme	B.Sc Chemistry
Semester	V
Course Type	Core
Instructor(s)	Dr. Annu Thomas, Dr. Radhika.S

CO	Course Outcomes	CL	PSO
1	Explain the basic principles of UV, FT-IR, NMR, MV, Raman, ESR	U	PSO1
2	Determine the structure of compounds using above techniques	A	PSO5
3	Discuss the concepts of classical mechanics and its failure	U	PSO1
4	Define wave nature of matter	U	PSO1
5	Solve the Schrodinger wave equation for simple systems	Ap	PSO1
6	Use wave equation in spherical polar coordinates to obtain the concept of orbitals	Ap	PSO1
7	Interpret the physical picture of bonding and anti-bonding molecular orbitals	U	PSO1
8	Identify FT-IR and NMR signals of simple organic compounds	A	PSO5

**Course Code:** CH5CRT05 **Course Title:** Environment, Ecology and Human Rights

**Credits:** 3

Programme	B.Sc Chemistry
Semester	V
Course Type	Core
Instructor(s)	Ms. Sharon Maria Stephen, Mrs. Archanakumari T.S, Mrs. Merlin Thomas

CO	Course Outcomes	CL	PSO
1	Recognize different types of natural resources and associated problems that affect these resources and common resource management practice	R	PSO1
2	Illustrate the major environmental problems and causes	U	PSO5
3	Understand basic concept of green chemistry	U	PSO1
4	Generalize various environmental acts in India	U	PSO1
5	Cause and effects of population	An	PSO1
6	Distinguish different levels of poverty	U	PSO1
7	Illustrate transformation process through air, water and soil	U	PSO1
8	Identify issues and problems related to human rights	R	PSO5

**Course Code:** CH5OPT01    **Course Title:** Chemistry In Everyday Life

Credits: 3

Programme	B.Sc Chemistry		
Semester	v		
Course Type	Core		
Instructor(s)	Dr Annu Thomas & Ms Anu P Nair		
Hrs/Week	4	Total Hours	72

CO	Course Outcomes	CL	PSO
1	Classify various soaps and detergents	U	PSO1
2	Produce different types of soaps	Cr	PSO1
3	Recognize various food additives and adulterants.	R	PSO1
4	Judge various adulterants using practical procedures	E	PSO1
5	Distinguish between drugs and cosmetics	U	PSO1
6	Categorize plastics in everyday life	U	PSO1
7	Describe the chemicals in drugs	U	PSO1
8	Classify fertilizers and pesticides	U	PSO1



9	Illustrate application of nanoparticles	U	PSO1
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**Course Code:** CH6CRT09    **Course Title:** INORGANIC CHEMISTRY

Credits: 3

Programme	B.Sc Chemistry
Semester	VI
Course Type	Core
Instructor(s)	Mrs Merlin Thomas & Ms Anu P Nair

CO	Course Outcomes	CL	PSO
1	Discuss isomerism in coordination compounds	U	PSO1
2	Describe various bonding theories in coordination compounds	U	PSO1
3	Explain different types of reaction mechanism, kinetics and thermodynamics possible in coordination compounds	U	PSO1
4	Discuss the application of coordination chemistry in qualitative and quantitative analysis.	U	PSO1
5	Apply the principles of organometallic chemistry to analyse and identify the stability and reactivity of organometallic compounds	Ap	PSO1
6	Judge the structural and functional roles of metal ions in metalloproteins	E	PSO1
7	Discuss about preparation, properties and structure of boron compounds	U	PSO1
8	Discuss interhalogen compounds	U	PSO1
9	Describe noble gas compounds.	U	PSO1

**Course Code:** CH6CRT10    **Course Title:** Organic Chemistry IV    **Credits:** 3

Programme	B.Sc Chemistry
Semester	VI
Course Type	Core
Instructor(s)	Dr. Radhika.S, Mrs. Archanakumari T.S

CO	Course Outcomes	CL	PSO
1	Describe classification, structure elucidation and uses of terpenoids	U	PSO1
2	Explain isolation methods, classification, importance and structure elucidation of alkaloids	U	PSO1
3	Classify lipids (oils & fats)	U	PSO1
4	Differentiate soap and detergents	U	PSO1
5	Illustrate structure, classification and functions of vitamins and steroids	U	PSO1
6	Discuss biological functions of hormones	U	PSO1
7	Generalize classification, synthesis, properties and reactions of amino acids, proteins and polypeptides	U	PSO1
8	Describe various components of nucleic acid	U	PSO1
9	Distinguish DNA and RNA	An	PSO1
10	Mention characteristics, classification and mechanism of enzymes	R	PSO1
11	Explain molecular recognition and structural organisation of biomolecules	U	PSO1
12	Differentiate thermal and photochemical reactions	An	PSO1
13	Calculate $\lambda_{\text{max}}$ of organic compounds using UV spectroscopy	Ap	PSO2
14	Determine structure of organic compounds using NMR and Mass spectroscopy	AP	PSO2

**Course Code:** CH6CRT11 **Course Title:** PHYSICAL CHEMISTRY III

Credits: 3

Programme	B.Sc. Chemistry		
Semester	VI		
Course Type	Core		
Instructor(s)	Dr. Annu Thomas and Mrs. Jaisy Joy		
Hrs/Week	3	Total	54 hrs

CO	Course Outcomes	CL	PSO
1	Describe the basic concepts of thermodynamics such as system, Surroundings, state and path functions, types of processes	U	PSO1
2	State the Zeroth, first, second and third law of thermodynamics	R	PSO1
3	Compare real and ideal gases in terms of Joule-Thomson effect	U	PSO1
4	Understand thermochemistry	U	PSO1
5	Define the concepts of entropy as a criteria of spontaneity and equilibrium	U	PSO2
6	Recognize Gibbs and Helmholtz free energies as a criterion of equilibrium and spontaneity	R	PSO2
7	Understand the concept of chemical equilibria	U	PSO1
8	Understand the concept of acids and bases	U	PSO1
9	Describe the basic concepts in chemical kinetics	R	PSO1
10	Explain the rate expressions for chemical reactions of various orders	U	PSO1
11	Interpret theories of chemical kinetics, kinetics of complex reactions and catalysis	U	PSO1
12	Solve problems based on kinetics and hydrolysis of salts	Ap	PSO5
13	Describe the concepts in phase equilibria	U	PSO1

**Course Code:** CH6CRT12    **Course Title:** Physical Chemistry IV    **Credits:** 3

Programme	B.Sc. Chemistry
Semester	VI
Course Type	Core
Instructor(s)	Dr. Annu Thomas and Mrs. Jaisy Joy

CO	Course Outcomes	CL	PSO
1	Understand ideal and non ideal solutions in terms of Raoult's law, separation techniques of binary liquid systems, solubility of gases in liquids	U	PSO1

2	Explain chemical potential	U	PSO1
3	Calculate physical parameters using colligative properties	Ap	PSO1
4	Understand osmosis, reverse osmosis and Vant Hoff factor	U	PSO1
5	Understand symmetry, symmetry elements, point groups and construct character tables	U	PSO1
6	Describe the various aspects of electrolytic conductance	U	PSO1
7	Employ the concepts of electrolytic conductance for solving competitive level numericals	Ap	PSO5
8	Explain electrochemical cells, concentration cells and their applications	U	PSO1
9	Determine the emf measurements of various types of cells	Ap	PSO5
10	Explain the concepts in photochemistry	U	PSO1

**Course Code:** CH6CRP05      **Course Title:** Physical chemistry practicals

Credits: 3

Programme	B.Sc Chemistry		
Semester	V & VI		
Course Type	Core		
Instructor(s)	Mrs Jaisy Joy and Ms Anu P Nair		
Hrs/Week	3	Total Hours	54

CO	Course Outcomes	CL	PSO
1	Calculate the percentage composition of the mixture from viscosity measurements	Ap	PSO5
2	Determine heat of solution of salts in water and heat of neutralisation of Hcl vs.NaOH	Ap	PSO5
2	Determine the concentration of the analyte using potentiometric and conductometric method	Ap	PSO4
3	Detect the concentration of electrolyte from critical solution temperature of phenol water system	E	PSO5

4	Calculate the mass of salt hydrate by using colligative properties	Ap	PSO5
5	Determine molecular weight of the solute using colligative properties	Ap	PSO5
6	Determine the rate constant of acid hydrolysis of methyl acetate using microscale method	Ap	PSO2

**Course Code:** CH6CRP06    **Course Title:** Gravimetric analysis

Credits: 2

Programme	B.Sc Chemistry		
Semester	VI		
Course Type	Core		
Instructor(s)	Mrs Jaisy Joy and Ms Anu P Nair		
Hrs/Week	2	Total Hours	36

CO	Course Outcomes	CL	PSO
1	Estimate the mass of barium and sulphate using gravimetric method.	Ap	PSO2
2	Estimate the mass of iron using gravimetric method.	Ap	PSO2
3	Demonstrate techniques like precipitation and filtration	An	PSO5
4	Carry out drying and incineration	Ap	PSO5

**Course Code:** CH6PR01    **Course Title:** Project and industrial visit and comprehensive viva voce  
Credits: 2, Total Hrs: 54S

Programme	B.Sc Chemistry
Semester	V and VI
Course Type	Core
Instructor(s)	Mrs. Jaisy Joy, Ms. Anu P Nair

CO	Course Outcomes	CL	PSO
1	Design synthetic roots for making nanoparticle	Cr	PSO6
2	Monitor the heavy metal toxicity in the water bodies at	E	PSO6

	illickal area ,Kottayam		
3	Analyse the contents of various package food items	An	PSO6
4	Explore the students to industry through industrial visit	Ap	PSO11

**Course Code:** CH6CBT03 **Course title:** SOIL AND AGRICULTURAL CHEMISTRY

**Credits** - 3 (54 hours)

Programme	B.Sc Chemistry
Semester	VI
Course Type	Core
Instructor(s)	Ms Sharon Maria Stephen and Ms. Anu P Nair

CO	Course Outcomes	CL	PSO
1	Discuss formation of soil	U	PSO1
2	Compute various soil group	Ap	PSO1
3	Explain physical and chemical properties of soil	U	PSO1
4	Discuss various fertilizers	U	PSO1
5	Compare various pesticides, fungicides and herbicides	U	PSO1

**Course Code:** CH1CMT01 **Course Title:** Basic Theoretical and Analytical Chemistry

**Credits:**2

Programme	B.Sc Physics, Zoology, Botany, Family & Community Science, Food Science & Quality Control
Semester	I
Course Type	Complementary
Instructor(s)	Mrs. Jaisy Joy, Ms. Anu.P.Nair, Mrs. Merlin Thomas, Ms. Sharon Maria Stephen, Mrs. Archanakumari T.S

CO	Course Outcomes	CL	PSO
1	Describe various atom models	U	PSO1
2	Determine chemical bonding in different molecules	Ap	PSO1

3	Explain basic concepts of periodic table and periodicity in properties	U	PSO1
4	Apply concept of periodic properties	Ap	PSO1
5	Understand concept of equilibrium and solubility	U	PSO1
6	Discuss various volumetric methods of analysis	U	PSO1
7	Generalize different separation and purification techniques	U	PSO1
8	Represent the analytical data	U	PSO1
9	Describe various chromatographic techniques	U	PSO1

**Course Code:** **Course Title:** BASIC ORGANIC CHEMISTRY

**Credits:**2

Programme	B.Sc Physics, Zoology, Botany, Family & Community Science, Food Science & Quality Control
Semester	II
Course Type	Complementary
Instructor(s)	Mrs. Jaisy Joy, Ms. Anu.P.Nair, Mrs.Merlin Thomas, Ms. Sharon Maria Stephen, Mrs. Archanakumari T.S

CO	Course Outcomes	CL	PSO
1	Explain the basic concepts of organic chemistry	U	PSO1
2	Define reaction intermediates	R	PSO1
3	Generalize stereochemistry aspects of a chemical reaction	U	PSO1
4	Understand various polymers	U	PSO1
5	Describe the concepts of isomerism	U	PSO1
6	Illustrate the polymerisation reactions and biodegradability of polymers	U	PSO1
7	Recognize natural and synthetic rubber.	R	PSO1

**Course Code:** CH2CMP01      **Course Title:** Volumetric Analysis

**Credits:** 2

Programme	B.Sc Physics, Zoology, Botany, Family & Community Science, Food Science & Quality Control
Semester	I & II
Course Type	Complementary
Instructor(s)	Mrs. Jaisy Joy, Dr. Radhika.S, Ms. Anu.P.Nair, Mrs. Merlin Thomas, Ms. Sharon Maria Stephen, Mrs. Archanakumari T.S

CO	Course Outcomes	CL	PSO
1	Standardise various solutions	Ap	PSO2
2	Estimate the amount of substance present in a given solution	An	PSO2

**Course Code:** CH3CMT04      **Course Title:** Inorganic and Organic Chemistry

**Credits:** 3

Programme	B.Sc Zoology, Botany, Family & Community Science, Food Science & Quality Control
Semester	III
Course Type	Complementary
Instructor(s)	Mrs. Jaisy Joy, Dr. Radhika.S, Ms. Sharon Maria Stephen, Mrs. Archanakumari T.S

CO	Course Outcomes	CL	PSO
1	Understand the basics of nuclear chemistry	U	PSO1
2	Discuss structure, mode of action and therapeutic uses of commonly used drugs	U	PSO1
3	Describe chemical aspects of biological process such as photosynthesis and respiration	R	PSO1
4	List different biologically important molecules and their general functions	R	PSO1
5	Categorize different fertilizers and pesticides for	U	PSOI



	agricultural purposes		
6	Discuss structure, preparation and aromaticity of some heterocyclic compounds	U	PSOI
7	Recognize various types of food additives	R	PSOI
8	Understand composition and health effects of cosmetics	U	PSO1

**Course Code:** CH3CMT03    **Course Title:** Physical Chemistry-1

**Credits:** 3

Programme	B.Sc Physics
Semester	III
Course Type	Complementary
Instructor(s)	Ms Sharon Maria Stephen, Mrs.Merlin Thomas,Ms.Anu P Nair

CO	Course Outcomes	CL	PSO
1	Determine point group of given molecules .	Ap	PSO1
2	Describe properties of liquids.	R	PSO2
3	Discuss liquid crystal and it's classification.	U	PSOI
4	Explain theories and magnetic properties.	U	PSO1
5	Discuss various laws of solution.	U	PSO1
6	Calculations involving colligative properties .	Ap	PSO2
7	Distinguish ideal gas and real gas.	U	PSO1
8	Calculations based on gas laws and Van der Waal's equation.	Ap	PSO2
9	Describe preparation ,properties and purification of colloids.	R	PSO1
10	Describe different phase equilibrium systems.	R	PSO1

**Course Code:** CH4CMT06    **Course Title:** Advanced Bio-organic Chemistry

**Credits:** 3

Programme	B.Sc Zoology, Botany, Family & Community Science, Food Science & Quality Control
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Semester	IV
Course Type	Complementary
Instructor(s)	Mrs. Jaisy Joy, Dr. Radhika.S, Ms. Sharon Maria Stephen, Mrs. Archanakumari T.S

CO	Course Outcomes	CL	PSO
1	Describe structure, classification and uses of terpenoids and alkaloids	U	PSO1
2	Classify lipids (fats and oils)	U	PSO1
3	Differentiate soaps and detergents	U	PSO1
4	Generalize classification, synthesis and properties of aminoacids and proteins	U	PSO1
5	Write down characteristics, classification and mechanism of enzymes	An	PSOI
6	Distinguish DNA and RNA	U	PSOI
7	Recognise energy rich molecules	R	PSOI
8	Define structure, classification and properties of carbohydrates	R	PSO1
9	Carry out procedure for interconversion of carbohydrates	Ap	PSO2
10	Illustrate biological functions, classification and structure of vitamins, steroids and hormones	U	PSO1
11	List various deficiency diseases caused by vitamins, steroids and hormones	R	PSO1

**Course Code:** CH4CMT05    **Course Title:** Physical Chemistry-II

**Credits:** 3

Programme	B.Sc Physics
Semester	IV
Course Type	Complementary
Instructor(s)	Ms Sharon Maria Stephen, Mrs.Merlin Thomas,Ms.Anu P Nair

CO	Course Outcomes	CL	PSO
1	Discuss basic principles of IR, UV and rotational spectroscopy	U	PSO1
2	Describe various method of preparation of nanomaterials.	U	PSO1
3	Discuss applications of nanomaterials	U	PSO1
4	Explain kinetics of various chemical reactions	U	PSO1
5	Calculate rate constants of different chemical reactions.	Ap	PSO1
6	Discuss basics of catalysis ,photochemistry and electrochemistry	U	PSO1
7	Describe application of electrochemistry	U	PSO1

**Course Code:** CH4CMP03 **Course Title:** Organic Chemistry Practicals

**Credits:**2

Programme	B.Sc Zoology, Botany, Family & Community Science, Food Science & Quality Control
Semester	III & IV
Course Type	Complementary
Instructor(s)	Dr. Annu Thomas, Dr. Radhika.S, Ms. Anu.P.Nair, Mrs. Merlin Thomas, Ms. Sharon Maria Stephen, Mrs. Archanakumari T.S

CO	Course Outcomes	CL	PSO
1	Write down chemistry of common organic reactions	U	PSO1
2	Interferences of basic organic chemical reactions	An	PSO1
3	Determine organic compounds based on functional groups	Ap	PSO2
4	Design suitable derivatives	Cr	PSO1

**Course Code:** CH4CMP02 **Course Title:** Physical Chemistry practical's

**Credits:** 2

Programme	B.Sc Physics
Semester	III & IV
Course Type	Complementary

Instructor(s)	Mrs. Merlin Thomas, Mrs.Archanakumari T.S
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CO	Course Outcomes	CL	PSO
1	Investigate critical solution temperature	An	PSO5
2	Determine the molecular mass of a solute by Rast's method	E	PSO4
3	Determine the concentration of analyte using potentiometric and conductometric titration	E	PSO4
4	Determine the concentration of analyte using critical solution temperature	E	PSO4
5	Investigate transition temperature of analytes.	An	PSO5

## BSc Botany

COURSECODE:BO1CRT01

COURSETITLE:METHODOLOGYOFSCIENCEANDANINTRODUCTIONTO

O BOTANY

CREDITS:2+1

Programme	B.Sc. Botany
Semester	I
Course type	CORE
Instructor(s)	VANDANA P NAIR, DR. PETER K MANI

CO	Course outcomes	CL	PSO
1.	Understand the universal nature of plant science	U	PSO1
2.	Exemplify different types of classification in living kingdom	U	PSO1
3.	Interpolate the diversity in habit, habitat and organization of different groups of plants	U	PSO3
4.	organize basic skills to study Botany	A	PSO1

COURSECODE:BO3CRT03

COURSE TITLE: PHYCOLOGYANDBRYOLOGY

CREDITS:3+1

Programme	B.Sc. Botany
Semester	III

Course type	Core
Instructor(s)	ANTU MARIYA JOOSE, ARCHANA G. NAIR

CO	Course outcomes	CL	PSO
1.	Understand the evolutionary importance of algae as progenitors of land plants.	U	PSO 2
2.	Exemplify the unique and general features of algae and Bryophytes and familiarize it.	U	PSO 2
3.	Analyze the external morphology, internal structure and reproduction of different types of Algae and Bryophytes.	A	PSO 2
4.	Implementing Phycology in different fields.	AP	PSO 2
5.	Organize a field visit to any one of the ecosystems rich in Algae to experience Algal diversity.	A	PSO 3
6.	Classify Algae and Bryophytes	U	PSO 2
7.	Recognize the economic importance of Algae and Bryophytes	R	PSO 2

COURSE CODE: BO5CRT05

**COURSE TITLE: ANATOMY REPRODUCTIVE  
BOTANY AND MICROTECHNIQUE**

CREDITS: 3+1

Programme	B.Sc. Botany
Semester	V
Course type	Core
Instructor(s)	DR. PETER K MANI

CO	Course outcomes	CL	PSO
1	Understand the individual cells, tissues and structural details in plants	U	PSO 3
2.	Instantiate the knowledge of organization of tissues and anatomy of wood.	U	PSO 3
3.	Recall fruit and seed development.	A	PSO 3
4.	Understand the morphology and development of reproductive parts	U	PSO 3

5.	Interpolate the structural details of female and male reproductive parts with fertilization.	U	PSO 3
6.	Understand the details of preservation of plant specimens.	U	PSO 3
7.	Extend the data of Microtechnique for practical knowledge.	A	PSO 3

COURSECODE:BO5CRT08

COURSE TITLE: **ENVIRONMENTAL SCIENCE AND HUMANRIGHTS**

CREDITS:3+1

Programme	B.Sc. Botany
Semester	V
Course type	CORE
Instructor(s)	ANTU MARIYA JOSE

CO	Course outcomes	CL	PSO
1.	Understand the significance of Environmental Science	U	PSO6
2.	Illustrate the structure and function of ecosystems and instantiatenovel mechanisms for sustainable utilization of natural resources.	U	PSO6
3.	Understand about energy flow, biogeochemical cycles and development of ecosystems. Exemplify the extend of total biodiversity and the importance of their conservation.	U	PSO6
4.	Categorize various kinds of pollution, their impacts and control measures.	U	PSO6
5.	Determine CO <sub>2</sub> , Cl and alkalinity of water samples, Calculation of pH of soil and water samples. Calculate abundance and frequencyof plant species by quadrate methods	AP	PSO6
6.	Summarize about various environmental laws in India and the role of various movements in the protection of nature and naturalresources	U	PSO6
7.	Understand basic human rights	U	PSO6

COURSECODE:BO5CRT07

COURSE TITLE: **PLANT PHYSIOLOGY ANDBIOCHEMISTRY**

CREDITS:3+1

Programme	B.Sc. Botany
Semester	V
Course type	CORE
Instructor(s)	ARCHANA G. NAIR

CO	Course outcomes	CL	PSO
1.	Understand plant water relations.	U	PSO 6
2.	Recognize the role of nutrients in plant life. Remember the concept of photosynthesis.	R	PSO 6
3.	Compare and differentiate photosystems, photosynthetic cycles, photo- and oxidative phosphorylation. Understand electron transport chains in photosynthesis and respiration.	U	PSO 6
4.	Understand plant growth and development and stress physiology. Compare stomatal indices of hydrophytes, mesophytes and xerophytes.	U	PSO 6
5.	Carry out separation of plant pigments. Estimate plant pigments by colorimeter.	AP	PSO 6
6.	Understand the role, structure and importance of biomolecules.	U	PSO 6
7.	Estimate proteins using colorimeter.	AP	PSO 6

COURSE CODE: BO5CRT06

COURSE TITLE: **RESEARCH METHODOLOGY,  
BIOPHYSICS AND BIOSTATISTICS**

CREDITS:3+1

Programme	B.Sc. Botany
Semester	V
Course type	CORE
Instructor(s)	VANDANA P NAIR

CO	Course outcomes	CL	PSO
1)	Implement students to conduct independent research and prepare research reports.	AP	PSO4
2)	Illustrate different tools and techniques used in research work	U	PSO4
3)	Discuss basic computer skills necessary for research	U	PSO4
4)	Generalize students to have enough numerical skills for research	U	PSO4
5)	Implement students to learn and practice the literature survey aspects of projects	AP	PSO4
6)	Understand the general principles of statistical inference	U	PSO4
7)	Produce researchable hypothesis	C	PSO4

COURSECODE:BO5COPT01

COURSE TITLE: **AGRIBASEDMICROENTERPRISES**

CREDITS:3

Programme	B.Sc. Botany
Semester	V
Course type	OPEN COURSE
Instructor(s)	DR. PETER K. MANI, ANTU MARIYA JOSE, ARCHANA G. NAIR, VANDANA P. NAIR

CO	Course outcomes	CL	PSO
1.	Understand the basic opportunities in the field of plant science.	U	PSO 7
2.	Instantiate students in micropropagation techniques.	U	PSO 2
3.	Understand food preservation techniques and methods of preparation of wine, vinegar and dairy products.	U	PSO 7
4.	Recognize ornamental garden designs, different types of gardens and nurseries.	R	PSO 7
5.	Carry out mushroom cultivation	AP	PSO 7
6.	Generalize sustainable agriculture and organic farming.	U	PSO 7
7.	Express an enthusiasm and awareness about ornamental gardening	U	PSO7

COURSE CODE: BO1CMT01

COURSE TITLE: **CRYPTOGAMS, GYMNOSPERMS AND PLANT PATHOLOGY**

CREDITS:2+1

Programme	B.Sc. Botany
Semester	I
Course type	COMPLEMENTARY
Instructor(s)	ANTU MARIYA JOSE, ARCHANA G. NAIR

CO	Course outcomes	CL	PSO
	Understand the diversity of plants.	U	PSO 3
1.	Understand the identifying characters of plant types.	U	PSO 3
1.	Categorize different plant groups based on their identifying characters.	U	PSO 3
1.	Understand the economic importance of different forms of plants.	U	PSO 3
1.	Classify plant diseases based on causative organisms and symptoms.	U	PSO 3



COURSECODE:BO6CRT12

COURSE TITLE: **BIOTECHNOLOGY AND BIOINFORMATICS**

CREDITS:3+1

Programme	B.Sc. Botany
Semester	VI
Course type	CORE
Instructor(s)	VANDANA P NAIR

CO	Course outcomes	CL	PSO
1.	Extrapolate current development in the field of Biotechnology	U	PSO2
2.	Illustrate the growing aspects of Bioinformatics	U	PSO2
3.	Organize the students to carry out plant tissue culture	A	PSO2
4	Examine the vast repositories of biological data knowledge.	R	PSO2
5	Execute to access and analyze the data available in the databases	AP	PSO2
6	Instantiate students in micropropagation techniques	U	PSO2
7	Carry out DNA isolation	AP	PSO2

COURSE CODE: BO6CRT10

COURSE TITLE: **CELL AND MOLECULAR BIOLOGY**

CREDITS: 3+1

Programme	B.Sc. Botany
Semester	VI
Course type	CORE
Instructor(s)	ANTU MARIYA JOSE

CO	Course outcomes	CL	PSO
1.	Understand the ultra-structure and functioning of cell in the sub microscopic and molecular level	U	PSO
2.	Interpolate the mechanism of mitosis and meiosis	U	PSO 5
3.	Understand about different types of chromosomal aberrations. Distinguish different types of mutations and mutagenic agents.	U	PSO 5
4.	Abstract the concept of genetic material.	U	PSO 5
5.	Discuss the process of replication of DNA. Carry out elementary problems on DNA replication, transcription and genetic code	U, AP	PSO 5

6.	Understand the method of gene expression and gene regulation	U	PSO 5
7.	Instantiate the genetics of cancer	AP	PSO 5

COURSECODE:BO6CRT09

COURSE TITLE:GENETICS, PLANT BREEDINGAND HORTICULTURE

CREDITS:3+1

Programme	B.Sc. Botany
Semester	VI
Course type	CORE
Instructor(s)	ARCHANA G. NAIR

CO	Course outcomes	CL	PSO
1.	Imparting an insight into the principles of heredity	U	PSO 5
2.	Understand the patterns of inheritance in different organisms.	U	PSO 5
3.	Understand the inheritance pattern of nuclear and extra nuclear genes.	U	PSO 5
4.	Understand the methods of crop improvement.	U	PSO 5
5.	Understand the importance of horticulture in human welfare	U	PSO 5
6.	Develop skill in gardening technique among students.	U	PSO 5

COURSECODE:BO6CRT11

COURSE TITLE: ANGIOSPERM MORPHOLOGY,

TAXONOMYAND ECONOMICBOTANYCREDITS: 3+1

Programme	B.Sc. Botany
Semester	VI
Course type	CORE
Instructor(s)	VANDANA P NAIR, DR. PETER K MANI

CO	Course outcomes	CL	PSO
1	Understand the plant morphology terminologies as a foundation for plant recognition and identification.	U	3
2	Interpolate the vegetative characters of the plants	U	3
3	Analyze the methods and principles of plant systematics emphasising the classification and nomenclature.	An	4
4	Instantiate the interdisciplinary approaches to the advancement ofplant taxonomy.	An	4

5	Plan desk, lab and field based studies of angiosperm diversity, identifying morphological specialties and writing short species descriptions and illustrations.	C	4
6	Identify members of the major angiosperm families by observing their diagnostic features and economic importance.	An	4
7	Evaluate the contributions,scope and significance of ethnobotany	E	4

**COURSECODE:BO6PET01**

**COURSE TITLE:AGRIBUSINESS**

**CREDITS: 2+1**

Programme	B.Sc. Botany
Semester	VI
Course type	CORE
Instructor(s)	DR. PETER K MANI,VANDANA P NAIR,ANTU MARIYA JOSE,ARCHANA G NAIR

CO	Course outcomes	CL	PSO
1	Identify the business opportunities and details of enterpreunership in the field of plant sciences.	C	<b>PSO 7</b>
2	Familiarize the various value added products and their processing techniques.	Ap	<b>PSO 7</b>
3	Harness the opportunities and potentials in the field of Nursery management, processing technology and food sciences.	Ap	<b>PSO 7</b>
4	Instantiate the idea about the need of sustainable development and organic farming	An	<b>PSO 7</b>
5	Understand the cultivation techniques of vegetables, fruits and medicinal plants in our daily life.	U	<b>PSO 7</b>
6	Understand the scope, significance, problems and prospects of floriculture and apiculture.	An	<b>PSO 7</b>
7	Interpolate the ideas of floriculture with flower arrangement techniques and ornamental garden designing.	C	<b>PSO 7</b>
8	Develop skills in mushroom cultivation techniques	C	<b>PSO 7</b>

**COURSE CODE:BO4CRT04 COURSE TITLE:PTERIDOLOGY, GYMNOSPERMS AND PALEOBOTANY**

**CREDITS: 3+1**

Programme	B.Sc. Botany
Semester	IV

Course type	CORE
Instructor(s) )	ANTU MARIYA JOSE,ARCHANA G. NAIR

CO	Course outcomes	CL	PSO
1.	Understand the diversity in habits, habitats and organization of various groups of plants.	U	PSO 3
2.	impart an insight into the modern classifications in lower forms of plants.	U	PSO 3
3.	Understand the evolutionary trends in Pteridophytes and Gymnosperms	U	PSO 3
4.	Analyze the anatomical variations in vascular plants.	An	PSO 3
5.	Recognize the economic importance of Pteridophytes, and Gymnosperms..	R	PSO 3
6.	Understand the significance of Paleobotany and its applications.	U	PSO 3

**SEMESTER : II COURSECODE:BO2CRT02 COURSE  
TITLE:MICROBIOLOGY, MYCOLOGY AND PLANT PATHOLOGY**

CREDITS: 2+1

Programme	B.Sc. Botany
Semester	II
Course type	CORE
Instructor(s)	VANDANA P NAIR, DR. PETER K MANI

CO	Course outcomes	CL	PSO
1	Understand the world of microbes, fungi and lichens	U	PSO 1
2	Appreciate the adaptive strategies of the microbes, fungi and lichens	An	PSO 1
3	To study the economic and pathological importance of microorganisms	U	PSO 1
4	Instantiate the economic importance of fungi.	U	PSO 3
5	Understand the general characters of different types of fungi and lichen.	U	PSO 1
6	Describe the economic and ecological significance of lichens.	U	PSO 3
7	Interpolate the details of plant disease development.	An	PSO 3
8	Identify common plant diseases and devise the control measures.	U	PSO 3

**COURSECODE:BO4CMT04****COURSE TITLE: ANATOMY AND APPLIEDBOTANY****CREDITS: 3+1**

Programme	B.Sc. Botany
Semester	VI
Course type	<b>Complementary</b>
Instructor(s)	DR. PETER K MANI,VANDANA P NAIR

CO	Course outcomes	CL	PSO
1	Understand different types of plant tissues and various morphological peculiarities.	U	PSO 3
2	Subsume the anatomy of different plant organs with reference to their functions.	An	PSO 3
3	Understand the process of normal and anomalous secondary thickening in plants.	An	PSO 3
4	Identify the morphological and anatomical adaptations of plants growing in different habitats.	An	PSO 3
5	Interpret the objectives and basic knowledge of plant breeding.	U	PSO 5
6	Describe the various artificial propagation methods used in plant breeding.	Ap	PSO 5
7	Instantiate the principles, methods and applications of plant tissue culture.	Ap	<b>PSO 5</b>

## BSc Zoology

Course	Details
Code	ZY1CRT01
Title	General Perspectives In Science and Protistan Diversity
Degree	B.Sc.
Branch	Zoology
Year	1/1
Type	Core Course
Credits	2

CO No.	Expected Course outcomes	Cognitive level	PSO No.
1.	Understand the relevance of Science, scope of Zoology and the various branches of Zoology.	U	1
2.	Analyze the different methods used in scientific studies.	An	7
3.	Examine the concepts, importance and various approaches in taxonomy.	Ap	6
4.	Understand the basis of animal classification	U	1
5.	Discuss protistan diversity and its significance.	U	1
6.	Analyse various parasitic protists, their life cycle, mode of infection and pathology.	An	1
7.	Create an activity plan for prevention of vectors of parasitic protists and disease outbreaks.	C	1,8
*PSO-Program Specific Outcome; CO-Course Outcome; <b>Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C-Create</b>			

Course	Details
Code	ZY1CRP
Title	Perspectives in Science and Protistan Diversity (P)
Degree	B.Sc.
Branch	Zoology
Year/Semester	I/I
Type	Core Practical
Credits	2

CO No.	Expected Course outcomes	Cognitive level	PSO No.
1	Understand the basis of classification and identification techniques used to differentiate the organisms.	U, Ap	1,6
2	Identify the organisms using standard keys	Ap	1,6
3.	Understand and identify the protistans through microscopic and pictorial representation.	U	1,6
4.	Identification of Protistans from pond water	Ap	1,6
*PSO-Program Specific Outcome; CO-Course Outcome; <b>Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C- Create</b>			

COURSE	DETAILS
CODE	ZY1CMT01
TITLE	<b>ANIMAL DIVERSITY – NON CHORDATA (T)</b>
DEGREE/YEAR	B.SC ZOOLOGY, I SEMESTER
TYPE	<b>COMPLEMENTARY COURSE</b>
CREDITS	36 HRS

CO No.	Expected Course outcomes: <b>ANIMAL DIVERSITY - NON CHORDATA</b>	Cognitive level	PSO No.
1.	Understand the basics of taxonomical classification and the diversity of protozoans and higher invertebrates.	U	PSO-1, PSO-2, PAO-8
2.	Classify and describe the general features of Kingdom Protista with examples and to explain the parasitic protozoans.	U	PSO-1, PSO-2, PSO-8
3.	Classify and describe the salient features of acoelomates with examples by giving special reference to their morphological and ecological importance.	U	PSO-1, PSO-2, PSO-8
4.	Classify and describe pseudocoelomates with special reference to pathogenic nematodes.	U	PSO-1, PSO-2, PSO-8
5.	Understand and classify coelomates with interpretation of their evolutionary relationships.	U	PSO-1, PSO-2, PSO-8
6.	Understand the general features of minor phyla	U	PSO-1, PSO-2, PSO-8
7.	Instigate curiosity of students in the biota around them and to generate a positive attitude towards its conservation.	Ap	PSO-1, PSO-2, PSO-8
*PSO-Program Specific Outcome; CO-Course Outcome; <b>Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C- Create</b>			

COURSE	DETAILS
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TITLE	<b>ANIMAL DIVERSITY-NON CHORDATA (P)</b>
DEGREE/YEAR	B.SC ZOOLOGY, I SEMESTER
TYPE	<b>COMPLEMENTARY COURSE</b>
CREDITS	36 HRS

CO.No.	Expected course outcomes	Cognitive Level	PSO.No.
1	Use scientific drawing technique	Ap	PSO-9
2	Identify common invertebrates	U	PSO-9
3	Examine microscopic organisms	An	PSO-9
4	Carry out dissections and temporary mounting	Ap	PSO-9
*PSO-Program Specific Outcome; CO-Course Outcome; <b>Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C- Create</b>			

COURSE	DETAILS
CODE	ZY2CRT02
TITLE	<b>ANIMAL DIVERSITY – NON CHORDATA (T)</b>
DEGREE/YEAR	B.SC ZOOLOGY, II SEMESTER
TYPE	<b>CORE COURSE</b>
CREDITS	36 HRS

CO No.	Expected Course outcomes: <b>ANIMAL DIVERSITY - NON CHORDATA</b>	Cognitive level	PSO No.
1.	Understand the basics of taxonomical classification	U	PSO-1, PSO-2, PSO-8
2.	Organize the diverse fauna around them into three branches of Kingdom Animalia.	An	PSO-1, PSO-2, PSO-8
3.	Classify and describe the salient features of acoelomates with examples by giving special reference to their morphological and ecological importance.	U	PSO-1, PSO-2, PSO-8
4.	Classify and describe pseudocoelomates with special reference to pathogenic nematodes.	U	PSO-1, PSO-2, PSO-8
5.	Understand and classify coelomates with interpretation of their evolutionary relationships.	U	PSO-1, PSO-2, PSO-8



6.	Understand the general features of minorphyla	U	PSO-1, PSO-2, PSO-8
7.	Instigate curiosity of students in the biota around them and to generate a positive attitude towards its conservation.	Ap	PSO-1, PSO-2, PSO-8

\*PSO-Program Specific Outcome; CO-Course Outcome;

**Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C- Create**

COURSE	DETAILS
TITLE	<b>ANIMAL DIVERSITY-NON CHORDATA (P)</b>
DEGREE/YEAR	B.SC ZOOLOGY, II SEMESTER
TYPE	<b>CORE COURSE</b>
CREDITS	36 HRS

CO.No	Expected course outcomes	Cognitive Level	PSO.No.
1	Use scientific drawing technique	Ap	PSO-1, PSO-2
2	Identify common invertebrates	U	PSO-1, PSO-2
3	Examine microscopic organisms	An	PSO-1, PSO-2
4	Carry out dissections and temporary mounting	Ap	PSO-1, PSO-2

\*PSO-Program Specific Outcome; CO-Course Outcome;

**Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C- Create**

COURSE	DETAILS
CODE	ZY2CMTO2
TITLE	<b>CHORDATE DIVERSITY (T)</b>
DEGREE/YEAR	B.SC ZOOLOGY, II SEMESTER
TYPE	<b>COMPLEMENTARY COURSE</b>
CREDITS	36 HRS

CO No.	Expected Course outcomes: <b>CHORDATE DIVERSITY</b>	Cognitive level	PSO No.
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1.	Understand the diversity, classification and phylogeny of Chordates.	U	PSO-1, PSO-2
2.	Outline and parse the adaptive features exhibited by the vertebrates.	An	PSO-1, PSO-2
3.	Compare the anatomy and physiological peculiarities of Chordates through type study of Euphlyctis hexadactyla	U	PSO-1, PSO-2
4.	Understand the economic importance and evolutionary significance of selected Chordate groups.	U	PSO-1, PSO-2
5.	Determine the classification category of a given chordate based on the external observable features.	Ap	PSO-1, PSO-2
*PSO-Program Specific Outcome; CO-Course Outcome; <b>Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C- Create</b>			

COURSE	DETAILS
CODE	ZY2CMPO2
TITLE	<b>CHORDATE DIVERSITY (P)</b>
DEGREE/YEAR	B.SC ZOOLOGY, II SEMESTER
TYPE	<b>COMPLEMENTARY COURSE</b>
CREDITS	36 HRS

CO No.	Expected Course outcomes: <b>ANIMAL DIVERSITY – CHORDATA (P)</b>	Cognitive level	PSO No.
1.	Understand and classify the local chordate diversity.	U	PSO-9
2.	Examine the morphology, anatomy and osteology of chordates.	An	PSO-9
3.	Carry out identification of snakes using taxonomic keys.	Ap	PSO-9
4.	Carry out temporary mounting.	Ap	PSO-9
*PSO-Program Specific Outcome; CO-Course Outcome; <b>Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C- Create</b>			

COURSE	DETAILS
CODE	ZY3CRT03
TITLE	<b>ANIMAL DIVERSITY – CHORDATA (T)</b>
DEGREE/YEAR	B.SC ZOOLOGY, III SEMESTER
TYPE	<b>CORE COURSE</b>
CREDITS	54 HRS

CO No.	Expected Course outcomes: <b>ANIMAL DIVERSITY – CHORDATA (T)</b>	Cognitive level	PSO No.
1.	Understand the diversity, classification and phylogeny of Chordates.	U	PSO-1
2.	Outline and parse the adaptive features exhibited by the vertebrates.	An	PSO-1
3.	Compare the anatomy and physiological peculiarities of of Chordates through type study.	U	PSO-1
4.	Understand the economic importance and evolutionary significance of selected Chordate groups.	U	PSO-3
5.	Determine the classification category of a given chordate based on the external observable features.	Ap	PSO-7
*PSO-Program Specific Outcome; CO-Course Outcome; <b>Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C- Create</b>			

COURSE	DETAILS
TITLE	<b>ANIMAL DIVERSITY – CHORDATA (P)</b>
DEGREE/YEAR	B.SC ZOOLOGY, III SEMESTER
TYPE	<b>CORE COURSE</b>
CREDITS	36 HRS

CO No.	Expected Course outcomes: <b>ANIMAL DIVERSITY – CHORDATA (P)</b>	Cognitive level	PSO No.
1.	Undersatnd and classify the local chordate diversity.	U	1,6
2.	Examine the morphology, anatomy and osteology of chordates.	An	6
3.	Carry out identification of vertebrates using taxonomic keys.	Ap	6
4.	Use scientific drawing technique	Ap	6
*PSO-Program Specific Outcome; CO-Course Outcome; <b>Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C- Create</b>			

Course title	<b>PHYSIOLOGY AND IMMUNOLOGY</b>
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Course code	<b>ZY3CMT03</b>
Programme	<b>BSc. ZOOLOGY</b>
Semester	<b>III</b>
Course type	<b>COMPLEMENTARY</b>
Credits	<b>1</b>

<b>C O No .</b>	<b><i>Expected Course Outcomes</i></b> <i>Upon completion of this course, the students will be able to:</i>	<b>Cognitive Level</b>	<b>PSO No.</b>
1	Understand the physiology of various organ systems, including respiratory, circulatory, muscular, excretory and nervous systems with special reference to humans and their disorders.	U	<b>PSO – 3,4,5</b>
2	Describe different types of nutrition, nutritional requirements and disorders	U	<b>PSO – 3,5</b>
3	Discuss endocrine system, functions, diseases and hormone action	U	<b>PSO – 3,5</b>
4	Explain basic concepts of Immunology and antigen antibody reactions	U	<b>PSO - 3</b>
5	Identify various immune response systems, vaccines and immune disorders	An	<b>PSO – 3,5</b>

<b>Course title</b>	<b>PHYSIOLOGY AND IMMUNOLOGY- PRACTICALS</b>
Course code	
Programme	<b>BSc. ZOOLOGY</b>
Semester	<b>III</b>
Course type	<b>COMPLEMENTARY</b>
Credits	<b>1</b>

<b>CO No.</b>	<b><i>Expected Course Outcomes</i></b> <i>Upon completion of this course, the students will be able to:</i>	<b>Cognitive Level</b>	<b>PSO No.</b>
1	Develop skills in performing and interpreting various laboratory procedures to investigate blood parameters of diagnostic significance.	An	<b>PSO - 9</b>
2	Analyse the action of salivary amylase on starch.	An	<b>PSO – 9</b>

3	Acquaint with various diagnostic instruments used in physiology.	U	PSO – 9
4	Acquire skills in qualitative analysis of nutrients and obtaining results through observation of appropriate reactions and documentation.	An	PSO - 9
*PSO-Program Specific outcome; CO-Course Outcome; <b>Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C- Create</b>			

Course	Details
Code	ZY4CRT04
Title	Research Methodology, Biophysics and Biostatistics
Degree	B.Sc.
Branch	Zoology
Year/Semester	II/IV
Type	Core Course
Credits	3

CO No.	Expected Course outcomes	Cognitive level	PSO No.
1.	Understand the scientific methods followed in research process.	U	7
2.	Execute the different skills in research communication and documentation.	Ap	7
3.	Apply various statistical methods in research studies.	Ap	7
4.	Understand the principle and use of scientific instruments.	U, Ap	7
5.	Identify the ethical values to be followed in biological studies.	An	7
*PSO-Program Specific Outcome; CO-Course Outcome; <b>Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C-Create</b>			

Course	Details
Code	ZY4CRP04
Title	Research Methodology, Biophysics and Biostatistics
Degree	B.Sc.
Branch	Zoology
Year/Semester	II/IV
Type	Core Practical

Credits	2
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CO No.	Expected Course outcomes	Cognitive level	PSO No.
1.	Apply animal sampling, collection and preservation techniques.	Ap	7
2.	Determine the use of microscopes and other scientific instruments.	Ap	7
3.	Solve statistical problems using computer applications.	Ap	7
*PSO-Program Specific Outcome; CO-Course Outcome; <b>Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C-Create</b>			

COURSE	DETAILS
CODE	ZY4CMT04
TITLE	<b>APPLIED ZOOLOGY (T)</b>
DEGREE/YEAR	B.SC ZOOLOGY, IV SEMESTER
TYPE	<b>COMPLEMENTARY COURSE</b>
CREDITS	54 HRS

CO No.	Expected Course outcomes: <b>APPLIED ZOOLOGY (T)</b>	Cognitive level	PSO No.
1.	Understand the common cultivable fishes, types of aquaculture, its management and fish processing and preservation.	U	PSO-6
2.	Construct aquaculture units for for self employment	C	PSO-7
3.	Design and management of aquariums.	C	PSO-7
4.	Understand the various silkworm rearing techniques and mounting of silkworm.	U	PSO-6
5.	Usevermicomposting technique for better waste management.	Ap	PSO-7
6.	Carry out apiculture for self employment or as a hobby.	Ap	PSO-7
7.	Understand the various species of earthworms, silk worms, honey bees and be products.	U	PSO-6, PSO-8
8.	Identify diseases of fishes, earthworms, silkworms and honeybees.	U	PSO-6

\*PSO-Program Specific Outcome; CO-Course Outcome;

**Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C- Create**

COURSE	DETAILS
CODE	ZY4CMP04
TITLE	<b>APPLIED ZOOLOGY (P)</b>
DEGREE/YEAR	B.SC ZOOLOGY, IV SEMESTER
TYPE	<b>COMPLEMENTARY COURSE</b>
CREDITS	36 HRS

CO No.	Expected Course outcomes: <b>APPLIED ZOOLOGY (P)</b>	Cognitive level	PSO No.
1	Identify the types of culturable fishes, earthworms, silk worms and honey bees.	U	PSO-9
2	Determine the castes of honey bees.	Ap	PSO-9
3	Determine various bee keeping equipments	Ap	PSO-9
4	Identify bee products, silk, chandrika, natrika and vermicompost	U	PSO-9

\*PSO-Program Specific Outcome; CO-Course Outcome;

**Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C- Create**

Course	Details				
Code	ZY5CRT05				
Title	<b>ENVIRONMENTAL BIOLOGY AND HUMAN RIGHTS</b>				
Degree	B.Sc				
Branch(s)	ZOOLOGY				
Year/Semester	III/V				
Type	Core course				
Credits	3	Hrs/Week	3	Total hours	54

CO No	Expected Course Outcomes Upon completion of this course, the students will be able to:	Cognitive Level	PSO No
1	Develop knowledge on basic concepts of Environmental Sciences, types of natural resources, human impacts on it and its management practices.	R	3
2	Develop skills to utilize environment sustainably and to enrich it.	U	3
3	Understand important theories and concepts of environmental sciences, population and community, Biodiversity and its conservation.	U	3
4	Explicate environmental hazards, their risk and the socio – economical ramifications.	E	3
5	To determine the causes and potential solutions of major environmental problems.	U	3
6	Identify issues and problems relating to Human Rights.	U	3
7	Analyse country's current scenario in terms of human rights.	An	3
8	Impact awareness on various environmental acts in India.	C	3
<ul style="list-style-type: none"> <li>• PSO- Program Specific Outcome; CO- CourseOutcome;</li> <li>• Cognitive Level: R- Remember; U- Understanding; Ap- Apply;An- Analyse; E- Evaluate;</li> <li>C- Create.</li> </ul>			

Course	Details				
Code	ZY5CRP05				
Title	<b>ENVIRONMENTAL BIOLOGY AND HUMAN RIGHTS (P)</b>				
Degree	B.Sc				
Branch(s)	ZOOLOGY				
Year/Semester	III/V				
Type	Core practical				
Credits	1	Hrs/Week	2	Total hours	3 6

CO No	Expected Course Outcomes Upon completion of this course, the students will be able to:	Cognitive Level	PSO No.
1	Analyse the different soil and water quality	An	3&6



	parameters		
2	Understand the current environmental issues	U	3
3	Classify the various ecosystems and animal interactions	Ap	3
4	Identify planktons and equipments used in ecology	R	3&6
5	Create love towards nature	C	3
PSO- Program Specific Outcome; CO- Course Outcome; Cognitive Level: R- Remember; U- Understanding; Ap- Apply; An- Analyse; E- Evaluate; C- Create.			

COURSE	DETAILS
CODE	ZY5CRT07
TITLE	EVOLUTION,ETHOLOGY &ZOOGEOGRAPHY
DEGREE/YEAR	B.SC ZOOLOGY, V SEMESTER
TYPE	CORE COURSE
CREDITS	54 HRS
NAME OF THE TEACHER	DR.ELEZABETH BASIL

CO NO.	EXPECTED COURSE OUTCOME- Upon completion of this course the students will be able to ;	COGNITIVE LEVEL	PSO NO.
1	Understand the concept of unity of life,theories on the origin of organic evolution and its evidences.	U	PSO1
2.	Acquire basic skills in the observation and study of nature, rich diversity of organisms and their ecological and evolutionary significance and scientific investigation on biological origin of life from simple to more complex forms.	Ap	PSO3
3.	Describe the causes of diversification of life,concept of speciation its types and the current status of different species.	U	PSO3
4.	Understand the different tecniques used for fossilstudy with reference to geological time scale.	U	PSO2
5.	Compare animals with reference to their distribution on earth, geological parametes affecting distribution and different biogeographical realms.	U	PSO2
6.	Understands and develops skills to analyse the different behavioral patterns of animals,leaning and their sociobiology.	A	PSO7

7.	Plan and design the application of population genetics in modern evolutionary biology and in phylogeny studies.	Ap	PSO7
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COURSE	DETAILS
CODE	ZY5CRP07
TITLE	EVOLUTION, ETHOLOGY & ZOOGEOGRAPHY (P)
DEGREE/YEAR	B.SC ZOOLOGY, V SEMESTER
TYPE	COURSE COURSE
CREDITS	36 HRS
NAME OF THE TEACHER	DR.ELEZABETH BASIL

CO NO.	EXPECTED COURSE OUTCOME- Upon completion of this course the students will be able to ;	COGNITIVE LEVEL	PSO NO.
1	Identify various zoogeographical realms, endemic species and distribution of animals.	U	1
2	Understand the concept of homology, analogy and adaptive radiation.	U	3
3	Understand the route of HMS Beagle	U	1
4	Examine connecting links	An	1,3
5	Identify various stages of horse evolution	U	3
6	Identify various behavioural patterns and the use of pheromones.	U	3

Course title	<b>HUMAN PHYSIOLOGY, BIOCHEMISTRY, AND ENDOCRINOLOGY -</b>
Course code	
Programme	<b>BSc. ZOOLOGY</b>
Semester	<b>5</b>
Course type	<b>CORE</b>
Credits	<b>1</b>

CO No.	<i>Expected Course Outcome</i> Upon completion of this course, the students will be able to:	Cognitive Level	PSO No.
1	Develop skills in performing and interpreting various laboratory procedures to investigate blood parameters of diagnostic significance.	An	5

2	Identify the instruments used in Physiological analysis.	An	5
3	Acquire skills in qualitative analysis of nutrients and obtaining results through observation of appropriate reactions and documentation.	An	5
4	Develop skills in identification of amino acids and their Rf values by using chromatography.	Ap	5
5	Visualise the endocrine glands in brain and analyse the effect of hormones on heartbeat of cockroach.	An	5
*PSO-Program Specific outcome; CO-Course Outcome; <b>Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C-Create</b>			

Course title	<b>HUMAN PHYSIOLOGY, BIOCHEMISTRY, AND ENDOCRINOLOGY - PRACTICALS</b>
Course code	
Programme	<b>BSc. ZOOLOGY</b>
Semester	<b>V</b>
Course type	<b>CORE</b>
Credits	<b>1</b>

CO No.	<i>Expected Course Outcome</i> <i>Upon completion of this course, the students will be able to:</i>	Cognitive Level	PSO No.
1	Develop skills in performing and interpreting various laboratory procedures to investigate blood parameters of diagnostic significance.	An	5
2	Identify the instruments used in Physiological analysis.	An	5
3	Acquire skills in qualitative analysis of nutrients and obtaining results through observation of appropriate reactions and documentation.	An	5
4	Develop skills in identification of amino acids and their Rf values by using chromatography.	Ap	5
5	Visualise the endocrine glands in brain and analyse the effect of hormones on heartbeat of cockroach.	An	5
*PSO-Program Specific outcome; CO-Course Outcome; <b>Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C-Create</b>			

COURSE	DETAILS
CODE	ZY5OPT02
TITLE	PUBLIC HEALTH AND NUTRITION
DEGREE/YEAR	B.SC ZOOLOGY, V <sup>TH</sup> SEMESTER
TYPE	OPEN COURSE
CREDITS	72 HRS

CO NO.	EXPECTED COURSE OUTCOME- Upon completion of this course the students will be able to ;	COGNITIVE LEVEL	PSO NO.
1	Understand the role of physical activity and balanced diet in maintaining health.	U	PSO-10
2	Use Body Mass Index to determine the current state of health.	Ap	PSO-10
3	Understand the importance of yoga and meditation in daily life.	U	PSO-10
4	Describe public health, diseases and its prevention.	U	PSO-10
5	Use safety measures in daily life to promote health and well-being	Ap	PSO-10

Course title	<b>DEVELOPMENTAL BIOLOGY</b>
Course code	<b>ZY6CRT09</b>
Programme	<b>BSc. ZOOLOGY</b>
Semester	<b>VI</b>
Course type	<b>CORE</b>
Credits	<b>3</b>

CO No.	<i>Expected Course Outcomes</i> <i>Upon completion of this course, the students will be able to:</i>	Cognitive Level	PSO No.
1	Understand historical perspectives, basic concepts and theories of developmental biology.	U	PSO - 1
2	Describe fertilization, its significance, polyspermy, parthenogenesis and regeneration	U	PSO - 4
3	Compare and contrast different developmental processes like cleavage, blastulation, gastrulation, and cell differentiation in various organisms and draw diagrams of each.	U	PSO – 4

4	Differentiate between embryological development of frog and Chick.	An	PSO – 4
5	<b>Illustrate Experimental embryology and teratology</b>	U	PSO – 4
6	Understand and explain human <b>Reproductive Physiology and various processes involved in human development.</b>	U	PSO – 4
7	Discuss reproductive health and importance of sex education and critically analyse Physiological and ethological aspects of human intervention in reproduction.	U	PSO – 4
8	Analyse Embryo transfer technology, cloning, stem cell research, Prenatal diagnostic techniques and related Ethical issues.	An	PSO – 4
9	Classify placenta in mammals and discuss its functions.	U	PSO - 4
*PSO-Program Specific outcome; CO-Course Outcome; <b>Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C- Create</b>			

Course title	<b>DEVELOPMENTAL BIOLOGY – PRACTICALS</b>
Course code	<b>ZY6CRP09</b>
Programme	<b>BSc. ZOOLOGY</b>
Semester	<b>VI</b>
Course type	<b>CORE</b>
Credits	<b>1</b>

CO No.	<b>Expected Course Outcomes</b> <i>Upon completion of this course, the students will be able to:</i>	Cognitive Level	PSO No.
1	Compare blastula and gastrula of chick and frog, and identify various stages of embryonic development in chick	An	PSO-5
2	Understand various prenatal diagnostic procedures and technological application in human development	U	PSO-5
3	Carry out candling and vital staining of chick embryo and identify various developmental stages.	Ap	PSO-5

4	Carry out dissection of reproductive organs of cockroach	Ap	PSO-5
5	Identify placenta found in animals	An	PSO-5
6	Examine the reproductive capacity of fish	Ap	PSO-5

<b>COURSE</b>	<b>MICROBIOLOGY AND IMMUNOLOGY</b>
<b>CODE</b>	ZY6CRT10
<b>PROGRAMME</b>	B.SC ZOOLOGY
<b>DEGREE/YEAR</b>	VI SEMESTER
<b>TYPE</b>	CORE COURSE
<b>CREDITS</b>	54 HRS

<b>CO No.</b>	<b>Expected Course Outcomes</b> Upon completion of this course, the students will be able to:	<b>Cognitive level</b>	<b>PSO No.</b>
1	Understand the role of microbes in environment ,human health,infections and diseases and pathogenesis, transmission, prevention and control,epidemiology, symptomology,food and safety management,therapeutics, industrial application of microbes, role of microbes as decomposers, role in energy transfer and ecosystem functioning, different means of transport of microbes, bioremediation etc	<b>U</b>	<b>PSO 1,3</b>
2	Understands the history classification of microbes,our immune system,methods in microbiology, sterilization and disinfection,culture media, plating techniques and culture preservation techniques and vaccines and vaccination.	<b>U</b>	<b>PSO 3</b>
3	Applies their knowledge in operating instruments like Autoclave, Hot air oven, Bacteriological incubator,laminar flow,water bath etc, able to do culture of bacteria and fungus, microbes in living condition,plating techniques, Gram staining, Antibiotic sensitivity test and drug resistance in bacteria, determination of ABO blood groups and Rh factor.	<b>Ap</b>	<b>PSO 6</b>
4	Develop proficiency in the quantitative and qualitative estimation of microbes, microbiology laboratory techniques and safety procedures, aseptic and pure culture techniques, preparation of and viewing samples for microscopy, use appropriate methods to identify microorganisms.	<b>Ap</b>	<b>PSO 6,7</b>

5	Design and construct novel plans for dealing emerging microbial diseases, multiple drug resistant bacteria water purification techniques and waste management using microbes,	<b>Ap</b>	<b>PSO 8</b>
6	Analyse the transfer of STD, manifestation of allergic reactions, auto immune disorders, blood transfusion reactions etc	<b>An</b>	<b>PSO 9</b>

<b>COURSE</b>	<b>MICROBIOLOGY AND IMMUNOLOGY (P)</b>
<b>CODE</b>	ZY6CRP10
<b>PROGRAMME</b>	B.SC ZOOLOGY,
<b>DEGREE/YEAR</b>	VI SEMESTER
<b>TYPE</b>	CORE PRACTICAL
<b>CREDITS</b>	36

<b>CO No</b>	<b>Expected Course Outcomes</b> Upon completion of this course, the students will be able to:	<b>Cognitive Level</b>	<b>PSO No.</b>
1	Develop skills and knowledge on instrumentation and preparation of culture media and culture techniques used in microbiological studies.	Ap	6
2	Staining and identification of microbes	An	6
3	Observe motility of bacteria and understand antibiotic sensitivity	U	6
4	Analyse blood group of sample provided	An	6
5	Understand the primary and secondary lymphoid organs	U	6
<p>PSO- Program Specific Outcome; CO- Course Outcome; Cognitive Level: R- Remember; U- Understanding; Ap- Apply; An- Analyse; E- Evaluate; C- Create.</p>			

<b>Course</b>	<b>Biotechnology, Bioinformatics &amp; Molecular Biology</b>
<b>Code</b>	ZY6CRT11
<b>Programme</b>	B.Sc Zoology
<b>Year/Semester</b>	VI
<b>Type</b>	Core Course

Credits	3
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CO No.	Expected Course Outcomes	Cognitive Level	PSO No.
1.	Interpret the importance, tools, techniques, potential applications and hazards of biotechnology.	U	6
2.	Understand animal cell culture methods.	U	6
3.	Analyse the role and action of biofertilizers.	An	5
4.	Understand the principles and application of bioinformatics.	U	6
5.	Explain the genetic concept and nature of genetic material.	U	4,6
6.	Interpret gene expression and gene regulation	U	4,6
	PSO-Program Specific Outcome; CO-Course Outcome;		
	<b>Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C-Create</b>		

<b>Course</b>	Biotechnology, Bioinformatics & Molecular Biology (P)
Code	ZY6CRP11
Programme	B.Sc Zoology
Year/Semester	VI
Type	Core Course
Credits	2

CO No.	Expected Course Outcomes	Cognitive Level	PSO No.
1	Recognize and categorise the blotting techniques and DNA isolation procedure used in biotechnological applications.	R, U	6
2	Identify and summarise the characteristic features of genome sequences of organisms	U	6,7
3	Identify and comment on protein sequences	U	6,7
4	Use bioinformatic tools for macromolecule visualization.	Ap	6,7
5	Differentiate the molecular composition, structural orientation and functional significance of macromolecules. PSO-Program Specific Outcome; CO-Course Outcome; <b>Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C-Create</b>	An	6,7



<b>COURSE</b>	<b>OCCUPATIONAL ZOOLOGY . (APICULTURE, VERMICULTURE, QUAIL FARMING &amp; AQUACULTURE) (T)</b>
CODE	ZY6CRT12
DEGREE/YEAR	B.SC ZOOLOGY, VI <sup>th</sup> SEMESTER
TYPE	<b>CORE COURSE</b>
CREDITS	54 HRS

CO No.	Expected Course outcomes: <b>OCCUPATIONAL ZOOLOGY (APICULTURE, VERMICULTURE, QUAIL FARMING &amp; AQUACULTURE) (T)</b>	Cognitive level	PSO No.
1.	Understand the common cultivable fishes, types of aquaculture, its management and fish processing and preservation.	U	PSO-5
2.	Construct ornamental fish culture units for for self employment.	C	PSO-5
3.	Design and management of aquariums.	C	PSO-5
4.	Use vermiculture technique for better waste management.	Ap	PSO-5
5.	Carry out apiculture and quail farming for self employment or as a hobby.	Ap	PSO-5
6.	Understand the various species of earthworms, honey bees and be products.	U	PSO-5
7.	Identify diseases of fishes, earthworms and honeybees.	U	PSO-5
<p>*PSO-Program Specific Outcome; CO-Course Outcome;</p> <p><b>Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C- Create</b></p>			

<b>COURSE</b>	<b>OCCUPATIONAL ZOOLOGY . (APICULTURE, VERMICULTURE, QUAIL FARMING &amp; AQUACULTURE) (P)</b>
CODE	ZY6CRP12
PROGRAMME	<b>B.SC ZOOLOGY</b>
DEGREE/YEAR	VI SEMESTER
TYPE	<b>CORE COURSE</b>

CREDITS	36 HRS
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CO No.	Expected Course outcomes: <b>OCCUPATIONAL ZOOLOGY (P)</b>	Cognitive level	PSO No.
1	Identify the types of culturable fishes, earthworms and honey bees.	U	PSO-5
2	Determine the castes of honey bees.	Ap	PSO-5
3	Determine various bee keeping equipments and componenets of aquarium.	Ap	PSO-5
4	Identify bee products, silk, chandrika, natrika and vermicompost	U	PSO-5
5	Identify fish diseases and parasites	U	PSO-5
6	Determine adulteration in honey	Ap	PSO-5
7	Carry out temporary mounting and separation of cocoon.	Ap	PSO-5

\*PSO-Program Specific Outcome; CO-Course Outcome;

**Cognitive Level: R-Remember; U-Understanding; Ap-Apply; An-Analyze; E-Evaluate; C- Create**

<b>Course</b>	Nutrition,, Health and Lifestyle Management
<b>Code</b>	ZY6CBT04
<b>Title</b>	B.Sc Zoology
<b>Year/Semester</b>	III/VI
<b>Credits</b>	3

CO No.	Expected Course Outcomes	Cognitive Level	PSO No.
1	Understand the concept of health, balanced nutrition and good lifestyle practises.	U	8
2	Analyse the normal health standards and the use of devices used to measure different health parameters.	An	8
3	List the food safety laws and regulations	R	8
4	Create good life style practises, follow healthy food habits and maintain physical and mental fitness	C	8

# BSc Family and Community Science

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Identify thrust areas in Family and Community Science (Home Science) and consider career prospects	R	5
2	Select appropriate methodology for undertaking research- oriented projects	Ap E	4
3	Compose a report in the approved format for a research project	C	4
4	Identify different food groups and their functions.	R	1
5	Formulate different recipes using different cooking methods.	C, An	1,3
6	Compare the different techniques available for preparation and preservation of foods	E,An	1,2,3

Course	Details				
Code	HS1CRT01				
Title	METHODOLOGY OF HOME SCIENCE AND FOOD SCIENCE (PRACTICAL)				
Degree	BSC.				
Branch(s)	FAMILY AND COMMUNITY SCIENCE (HOME SCIENCE)				
Year/Semester	1/I				
Type	CORE				
Credits	1	Hrs/Week	2	Total Hrs	36

CO No.	Expected Course Outcomes Upon completion of this course, the students will be able to:	Cognitive Level	PSO No
1	Prepare scientific tools appropriate for different research projects	C	4
2	Choose suitable methods for data presentation in a research project	E, An	4

3	Compare components of commercially available food stuffs against claims presented by the manufacturer	E, Ap	1
4	Understand the effect of different cooking methods on the quality of foods	U, An	1
5	Understand the different stages of cookery of common foods.	U	1
6	Apply various methods to prevent food spoilage in homes	C, Ap	1

## SEMESTER II

Course	Details
Code	HS2CRT02
Title	<b>HUMAN PHYSIOLOGY &amp; MICROBIOLOGY</b>
Degree	B.SC.
Branch(s)	<b>FAMILY AND COMMUNITY SCIENCE (HOME SCIENCE)</b>
Semester	II
Type	CORE
Credits	2
Total hours	72
Hours per week	2

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Describe the working of various organ systems in the human body.	R	2
2	Explain digestion and absorption of various nutrients in the body.	U	2
3	Compare the action of different hormones and the effect of their imbalance	An, E	2
4	Understand the basic concepts of microbiology	U	2
5	Explain the different defence mechanisms in the body	U, R	2
6	Prepare commercially important products from beneficial microorganisms	C, Ap	3

Course	Details				
Code	HS2CRP02				
Title	HUMAN PHYSIOLOGY & MICROBIOLOGY (PRACTICAL)				
Degree	BSC.				
Branch(s)	FAMILY AND COMMUNITY SCIENCE (HOME SCIENCE)				
Year/Semester	1/II				
Type	CORE				
Credits	1	Hrs/Week	2	Total Hrs	36

CO No.	Expected Course Outcomes Upon completion of this course, the students will be able to:	Cognitive Level	PSO No
1	Identify microorganisms in a laboratory setting	U	2
2	Formulate and market food products using economically important microorganisms	Ap,C	3
3	Assess body health parameters such as blood pressure at home	Ap,E	2
4	Understand the working conditions in a food quality / microbiology laboratory and consider career prospects for the same	E,U	2,3

### SEMISTER III

Course	Details
Code	HS3CRT03
Title	HUMAN DEVELOPMENT
Degree	B.SC
Branch(s)	FAMILY AND COMMUNITY SCIENCE (HOME SCIENCE)
Year/Semester	2/III
Type	CORE
Credits	3
Total hours	54
Hours per week	3

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	To impart knowledge on the principles & pattern of growth & development of children from conception to old age	U	1
2	Create awareness on the factors that stimulate growth and development.	C	1
3	Analysis the different developmental stages during preschool child.	An	3
4	Create awareness on the different concerns and issues during adolescence.	C	3
5	Apply the different methods of child study.	Ap	3
6	To identify personality of children.	U	1

Course	Details
Code	HS3CRP03
Title	<b>HUMAN DEVELOPMENT- PRACTICAL</b>
Degree	B.Sc
Branch(s)	<b>FAMILY AND COMMUNITY SCIENCE (HOME SCIENCE)</b>
Year/Semester	2/III
Type	CORE
Credits	1
Total hours	36
Hours per week	2

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Assess the physical, motor, emotional, intellectual and social development of a pre-school child.	E, Ap	3
2	Develop materials to enhance overall development of a child.	C	3

3	Understand the pattern involved in the growth and development of a child from infancy to adulthood.	U	2
4	Monitor progress in physical growth of children with the help of standardised tools.	An, E	3
5	Preparation of visual aids for effective communication of messages related to child care.	C, Ap	3,4

### SEMESTER IV

Course	Details
Code	HS4CRT04
Title	<b>FAMILY DYNAMICS</b>
Degree	B.SC
Branch(s)	<b>FAMILY AND COMMUNITY SCIENCE ( HOME SCIENCE)</b>
Semester	IV
Type	CORE
Credits	3
Total hours	54
Hours per week	3

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Summarise the different aspects of marriage and the factors leading to Successful marriage	U	1, 2
2	Describe different aspects of family, family interactions and the current issues affecting family and Child Development	R	2
3	Identify the critical family situations and get equipped with coping strategies.	An	1,2
4	Understand the Needs & problems of the elderly and develop a positive attitude towards the care of the aged.	U	2

Course	Details
Code	HS4CRP04
Title	<b>FAMILY DYNAMICS</b>
Degree	B.SC
Branch(s)	<b>FAMILY AND COMMUNITY SCIENCE( HOME SCIENCE)</b>
Semester	IV
Type	CORE PRACTICAL 4
Credits	1
Total hours	36
Hours per week	2

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the problems related to old age and develop a sense of responsibility towards destitute and elderly.	U	1
2	Interact with the neglected population and develop a Sense of responsibility towards the society as a whole.	U, R	1,2
3	Prepare visual aids to create awareness on topics related to family living	C, Ap	1
4	Create technologically advanced tools for interaction and dissemination of information	C, Ap	1,2

## SEMESTER V

Course	Details
Code	HS5CRT05
Title	<b>INTERIOR DECORATION</b>
Degree	B.SC
Branch(s)	<b>FAMILY AND COMMUNITY SCIENCE (HOME SCIENCE)</b>
Semester	V
Type	CORE
Credits	4



Total hours	72
Hours per week	4

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Identify the basic elements of design	R	3
2	Select appropriate colours for home decor	E	3
3	Develop basic skills for a career option in interior decoration	Ap	3,5
4	Choose appropriate furniture and lighting for homes	An, Ap	3,5
5	Construct basic design drafts for interior decor/organization	C	3,5

Course	Details
Code	HS5CRP05
Title	INTERIOR DECORATION - PRACTICAL
Degree	B.SC
Branch(s)	FAMILY AND COMMUNITY SCIENCE (HOME SCIENCE)
Semester	V
Type	CORE
Credits	1
Total hours	36
Hours per week	2

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Select appropriate elements of design for application in home and work interiors	E	1
2	Apply suitable colour schemes in a design	Ap	2

3	Demonstration of table setting, napkin folding and flower arrangements in different shapes and styles	C, Ap	2,3
4	Evaluate interiors for their design elements	E, An	2,3
5	Create decorative arts and crafts	C, Ap	3,4

Course	Details
Code	HS5CRT06
Title	<b>HUMAN NUTRITION &amp; BIOCHEMISTRY</b>
Degree	B.SC.
Branch(s)	<b>FAMILY AND COMMUNITY SCIENCE (HOME SCIENCE)</b>
Semester	V
Type	CORE
Credits	3
Total hours	90
Hours per week	3

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the significance of maintaining a healthy lifestyle with adequate physical activity and a balanced diet	U	1
2	Identify basic nutrients present in foods	R	1
3	Outline the metabolic pathways of the different macro and micronutrients in the body	E	1
4	Assess nutritional status of individuals by scientific methods Prepare diet plans for individuals of varying ages and physical states	An C	1
5	Understand the significance of maintaining a healthy lifestyle with adequate physical activity and a balanced diet	U	1

Course	Details				
Code	HS5CRP06				
Title	HUMAN NUTRITION AND BIOCHEMISTRY - PRACTICAL				
Degree	BSc.				
Branch(s)	FAMILY AND COMMUNITY SCIENCE (HOME SCIENCE)				
Year/Semester	3/V				
Type	CORE				
Credits	1	Hrs/Week	2	Total Hrs	36

CO No.	Expected Course Outcomes Upon completion of this course, the students will be able to:	Cognitive Level	PSO No
1	Analyse various foods for their qualitative aspects	E,Ap	1
2	Assess the quality of frequently consumed food items	An	1
3	Examine food stuffs quantitatively for minerals and vitamins	E,An	1
4	Plan and formulate normal diets for various age groups	C	1,5

Course	Details
Code	HS5CRT07
Title	TEXTILE SCIENCE
Degree	B.Sc
Branch(s)	FAMILY AND COMMUNITY SCIENCE (HOME SCIENCE)
Semester	V
Type	CORE
Credits	3
Total hours	54
Hours per week	3

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Describe the production, properties and use of different textile fibers.	U	1
2	Identify and classify textile fibers using the microscopic and burning tests.	U , A p	1
3	Understand the process of yarn making and characteristics of different types of yarns.	U	1
4	Explain the different methods of fabric construction and Identify different textile weaves.	U , A n	1,5
5	Describe different methods of Textile dyeing and printing process.	U	1,3
6	Apply some basic hand printing methods on textile fabrics.	A p	3,5
7	Describe the different types of finishes and its purpose.	U	1
8	Discuss some of new trends in textiles	U	1,3,5

Course	Details
Code	HS5CRP07
Title	TEXTILE SCIENCE - PRACTICAL
Degree	B.Sc
Branch(s)	FAMILY AND COMMUNITY SCIENCE (HOME SCIENCE)
Semester	V
Type	CORE
Credits	1
Total hours	36
Hours per week	2

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Identify textile fibre by their appearance and texture	U,R	3
2	Analyze the textile fibres and test claims given by fabric manufacturers.	An	3
3	Understand the process of basic fabric construction.	Ap, U	3
4	Assess fabric quality and make wise purchase decisions.	E, An	3
5	Prepare printed fabrics by applying hand printing techniques.	C, Ap	3,5
6	Understand the current trends in textile and fashion industry	U	5

Course	Details
Code	HS5CRT08
Title	ENVIRONMENTAL STUDIES AND HUMAN RIGHTS
Degree	B.SC
Branch(s)	FAMILY AND COMMUNITY SCIENCE (HOME SCIENCE)
Semester	V
Type	CORE
Credits	4
Total hours	72
Hours per week	2

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understands the basic concept of environment and ecosystem	U	1
2	To identify the concept of biodiversity and its conservation	R	1,2
3	To recognize the environmental problems – causes, effects and management	U	1,2
4	Describe the conservation of natural resources	R	1,2

5	To create awareness on human rights	C	1
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Course	Details
Code	HS5CRT08
Title	<b>ENVIRONMENTAL STUDIES AND HUMAN RIGHTS - PRACTICAL</b>
Degree	B.SC
Branch(s)	<b>FAMILY AND COMMUNITY SCIENCE (HOME SCIENCE)</b>
Semester	V
Type	CORE
Credits	1
Total hours	36
Hours per week	2

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Explain the need for energy conservation techniques / Devices	<u>U</u>	3
2	Create awareness on waste management.	Ap	4
3	Create a beneficial product from used /old clothes	Ap	4
4	Find out the organic foods available in the market	Ap	4
5	Outline the rights of women and children in India	R, U	3

Course	Details
Code	HS5OP4
Title	<b>SELF EMPOWERMENT SKILLS</b>
Degree	B.SC.
Branch(s)	<b>FAMILY AND COMMUNITY SCIENCE (HOME SCIENCE)</b>
Semester	V
Type	OPEN COURSE
Credits	2

<b>Total hours</b>	54
<b>Hours per week</b>	3

<b>CO No.</b>	<b>Expected Course Outcomes Upon completion of this course the students will be able to:</b>	<b>Cognitive level</b>	<b>PSO No.</b>
<b>1</b>	Understand the pleasing personalities and to make them efficient in life	U	4
<b>2</b>	Understand the resource development skills.	U	2
<b>3</b>	Understand the effective communicative skills	U	2
<b>4</b>	Understand the Self-empowerment	U	5
<b>5</b>	Understand various methods to mould students as a social person	U	4
<b>6</b>	Prepare students graceful to the family and Society	C	3

## SEMESTER VI

<b>Course</b>	<b>Details</b>
<b>Code</b>	HS5CRT09
<b>Title</b>	<b>FAMILY RESOURCE MANAGEMENT</b>
<b>Degree</b>	B.SC
<b>Branch(s)</b>	<b>FAMILY AND COMMUNITY SCIENCE (HOME SCIENCE)</b>
<b>Semester</b>	VI
<b>Type</b>	CORE
<b>Credits</b>	3
<b>Total hours</b>	54
<b>Hours per week</b>	3

<b>CO No.</b>	<b>Expected Course Outcomes Upon completion of this course the students will be able to:</b>	<b>Cognitive level</b>	<b>PSO No.</b>
<b>1</b>	Develop acquire scientific skills in the management of resources	Ap	1

2	Identify the significance of resource management and thereby improve the quality of life.	R	1
3	Identify the principles of management and their application in family context.	R	1,3
4	Create awareness and need for consumer education.	C, Ap	1,3

Course	Details
Code	HS5CRP09
Title	<b>FAMILY RESOURCE MANAGEMENT -PRACTICAL</b>
Degree	B.Sc
Branch(s)	<b>FAMILY AND COMMUNITY SCIENCE ( HOME SCIENCE)</b>
Semester	V
Type	CORE
Credits	2
Total hours	36
Hours per week	2

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Develop acquire scientific skills in the management of resources	Ap	1
2	Identify the significance of resource management and thereby improve the quality of life.	R	1
3	Identify the principles of management and their application in family context.	R	1,3
4	Create awareness and need for consumer education.	C, Ap	1,3

Course	Details
Code	HS6CRT10
Title	<b>CLINICAL NUTRIYION &amp;DIETETICS</b>
Degree	B.Sc.
Branch(s)	<b>Family and Community Science (Home Science)</b>



<b>Semester</b>	VI
<b>Type</b>	CORE
<b>Credits</b>	3
<b>Total hours</b>	54
<b>Hours per week</b>	3

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Describe the different types of diets and feeding methods	R	1
2	Explain the nutritional management in various disease conditions	U	1
3	Maintain a healthy weight and manage a healthy lifestyle	Ap	1
4	Analyze the various causative factors of common illnesses	An, E	1
5	Formulate diet plans for various disease conditions	C, Ap	1
6	Understand the prevalent conditions of malnutrition in the community	U, An	1,6

Course	Details				
<b>Code</b>	HS6CRP10				
<b>Title</b>	CLINICAL NUTRITION & DIETITICS - PRACTICAL				
<b>Degree</b>	BSC.				
<b>Branch(s)</b>	FAMILY AND COMMUNITY SCIENCE (HOME SCIENCE)				
<b>Year/Semester</b>	III/VI				
<b>Type</b>	CORE				
<b>Credits</b>	2	Hrs/Week	3	Total Hrs	54

CO No.	Expected Course Outcomes Upon completion of this course, the students will be able to:	Cognitive Level	PSO No
1	Evaluate body weight status using BMI measures	E	1
2	Formulate diets for various disease conditions.	C	1

<b>3</b>	Select appropriate feeding techniques for various illnesses	An,E	1
<b>4</b>	Understand the working of a hospital dietary unit	U	1,5

Course	Details
<b>Code</b>	HS6CRT11
<b>Title</b>	<b>FASHION DESIGNING AND APPAREL PRODUCTION</b>
<b>Degree</b>	B.Sc
<b>Branch(s)</b>	<b>FAMILY AND COMMUNITY SCIENCE (HOME SCIENCE)</b>
<b>Semester</b>	VI
<b>Type</b>	CORE
<b>Credits</b>	3
<b>Total hours</b>	54
<b>Hours per week</b>	3

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
<b>1</b>	Describe the different terminologies and principles related to contemporary fashion	U	1
<b>2</b>	Explain the fundamentals of fashion designing.	U	1
<b>3</b>	Understand and use the elements and principles of design and Apply the use of pattern making for fashion and clothing	U, Ap	1,3
<b>4</b>	Knowledge in designing garments for different figure type.	U	1,5
<b>5</b>	Visualize and Apply the basic procedure in garment construction.	U, Ap	3
<b>6</b>	Explain the organisations of garment industry and marketing.	U	1
<b>7</b>	Discuss the Indian apparel market in global perspective.	U	1

Course	Details
<b>Code</b>	HS6BO11U (P)

<b>Title</b>	FASHION DESIGNING AND APPAREL PRODUCTION - PRACTICAL
<b>Degree</b>	B.Sc
<b>Branch(s)</b>	FAMILY AND COMMUNITY SCIENCE (HOME SCIENCE)
<b>Semester</b>	VI
<b>Type</b>	CORE
<b>Credits</b>	1
<b>Total hours</b>	36
<b>Hours per week</b>	3

<b>CO No.</b>	<b>Expected Course Outcomes Upon completion of this course the students will be able to:</b>	<b>Cognitive level</b>	<b>PSO No.</b>
<b>1</b>	Create new designs corresponding to one's own ideas and creativity.	C	3
<b>2</b>	Create new designs using embroidery stitches.	C	3
<b>3</b>	Apply the different sewing techniques.	Ap	3
<b>4</b>	Apply designing and stitching in two different garments.	Ap	3,5

<b>Course</b>	<b>Details</b>
<b>Code</b>	HS6CRT12
<b>Title</b>	<b>EXTENSION EDUCATION AND DEVELOPMENT COMMUNICATION</b>
<b>Degree</b>	B.Sc
<b>Branch(s)</b>	<b>FAMILY AND COMMUNITY SCIENCE (HOME SCIENCE)</b>
<b>Semester</b>	VI
<b>Type</b>	CORE
<b>Credits</b>	3
<b>Total hours</b>	54

<b>Hours per week</b>	3
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<b>CO No.</b>	<b>Expected Course Outcomes Upon completion of this course the students will be able to:</b>	<b>Cognitive level</b>	<b>PSO No.</b>
1	Explain and analyse the widening concept of extension education in India.	U, An	1
2	Discuss the need and role of home science extension in upbringing the family and society.	U	1
3	Describe the community development and its set up in India	U	1
4	Distinguish the socio cultural and economic environment of rural, urban and tribal communities.	An	1
5	Recognize the importance of rural Leadership in bringing about planned change in human behaviour for developing community	U	1
6	Plan, implement and evaluate an extension programme.	C	1
7	Describe the basics in communication and explain the different methods of approaching people.	U	4
8	Prepare and use technologically advanced visual aids in teaching and communication	Ap	4, 5

<b>Course</b>	<b>Details</b>
<b>Code</b>	HS6CRP12
<b>Title</b>	<b>EXTENSION EDUCATION AND COMMUNICATION - PRACTICAL</b>
<b>Degree</b>	B.Sc
<b>Branch(s)</b>	<b>FAMILY AND COMMUNITY SCIENCE (HOME SCIENCE)</b>
<b>Semester</b>	VI
<b>Type</b>	CORE
<b>Credits</b>	2
<b>Total hours</b>	36

<b>Hours per week</b>	2
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<b>CO No.</b>	<b>Expected Course Outcomes Upon completion of this course the students will be able to:</b>	<b>Cognitive level</b>	<b>PSO No.</b>
1	Interact with extension workers and understand their nature of work and their commitment towards the society.	U	1
2	Understand the role of community organizations.	R	1
3	Plan, implement and evaluate an extension programme for the advancement of the society.	Ap, E	2
4	Prepare and report visual aids for conveying messages related to the betterment of livelihood of the general public.	C	4
5	Analyze news articles or media content and assess their credibility.	An	4
6	Preparation of visual aids.	C	4

<b>Course</b>	<b>Details</b>
<b>Code</b>	<b>HSCBT02</b>
<b>Title</b>	<b>EARLY CHILDHOOD CARE AND EDUCATION</b>
<b>Degree</b>	B.Sc
<b>Branch(s)</b>	<b>FAMILY AND COMMUNITY SCIENCE (HOME SCIENCE)</b>
<b>Year/Semester</b>	3/VI
<b>Type</b>	CORE
<b>Credits</b>	3
<b>Total hours</b>	54
<b>Hours per week</b>	3

<b>CO No.</b>	<b>Expected Course Outcomes Upon completion of this course the students will be able to:</b>	<b>Cognitive level</b>	<b>PSO No.</b>
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1	To become aware about the role of environmental stimulation for the all round development of children.	U	1
2	To know the different early stimulation programmes	U	1,2
3	To create a positive attitude about the Care of children with special needs.	U, Ap	1
4	To make the youth aware about the safety issues of children.	U	1
5	To inspire the students with the pros and cons of pre- school education.	U	1

## B.Com Finance and Taxation

### Semester 1

#### Core Course 1: Dimensions and Methodology of Business Studies

Course Code:CO1CRT01

Instructional hours: 54

Credit:2

Teacher in charge: Ms Elizebeth Johny

Sl No	Course Outcome	PSO – CO
CO 1	To familiarize students about the concepts of business and its environment	PSO 1
CO 2	To give an insight into various models of environment analysis	PSO 1
CO 3	Make students aware of the stages and development of business in the Indian economy since independence and also introduce them to recent economic initiatives	PSO 5
CO 4	Update students with technology integration in business including E-commerce, E-business, M-commerce and E – payment systems.	PSO 1
CO 5	Make students aware of the importance of following ethics in business practices and also to familiarize them with the concepts of CSR, corporate governance and its importance	PSO 4 PSO 6
CO 6	have an understanding of business research and its importance	PSO 7

### Core Course 2: Financial Accounting 1

Course Code: CO1CRT02

Instructional hours: 90

Credit: 4

Teacher in charge: C A Reshma Rachel Kuruvilla

Sl No	Course Outcome	PSO – CO
CO 1	To familiarize the students with the basic concepts and practice of financial accounting rules	PSO 1 PSO 5
CO 2	To enable the student in preparation of financial statements of sole traders in accordance with GAAP	PSO 1 PSO 5
CO 3	To help the students in preparation of financial accounts from the incomplete records maintained by small businesses.	PSO 1 PSO 5
CO 4	Apply the financial accounting rules that exist in the area of royalty agreements.	PSO 10
CO 5	To familiarize the students about the accounting practices being followed for consignment businesses.	PSO 10
CO 6	To help students to familiarize themselves with the farm related transactions and to have awareness about farming terminologies	PSO 2 PSO 5

### Core Course 3: Corporate Regulations and Administration

Course Code: CO1CRT03

Instructional hours: 72

Credit: 3

Teacher in charge: Ms. Anju P Tom

Code	Course Outcome	PSO-CO
CO1	Recognize company as a form of business and identify various types of companies	PSO 5
CO2	Understand the provisions of Companies Act 2013 with respect to formation, administration and winding up of companies	PSO 7
CO3	Demonstrate knowledge of administration and management of companies	PSO 7
CO4	Understand the various provisions of Companies Act with respect to share capital	PSO 5, PSO 7
CO5	Basic awareness about the legal framework of company administration	PSO 2, PSO 5

### **Complimentary Course 1: Banking & Insurance**

Course Code: CO1CMT01

Instructional hours: 72

Credit: 3

Teacher in charge: Mr. Jipin V Jimmy

Sl No	Course Outcome	PSO – CO
CO 1	familiarize the students with the basic concepts and practice of Banking and Insurance.	PSO 1 PSO 5
CO 2	familiarize the students with the changing scenario of Indian banking and Insurance sector.	PSO 1 PSO 5
CO 3	make the students explore with the fundamental principles of banking and insurance.	PSO 1 PSO 5
CO 4	prepare students for a professional base in the field of banking and insurance, thus making it easier to secure jobs in these sectors.	PSO 7

## **Semester 2**

### **Core Course 4: Financial Accounting – II**

Course Code: CO2CRT04

Instructional hours: 90

Credit: 4

Teacher in charge: Mrs. Reshma Rachel Kuruvilla

Sl No	Course Outcome	PSO – CO
CO 1	To familiarize students with the basic concepts and practice of hire purchase accounting	PSO 1 PSO 5
CO 2	To enable the student in preparation of financial statements of branch accounts	PSO 1 PSO 5
CO 3	To help the students in preparation of financial accounts of partnership firms at the time of dissolution .	PSO 1 PSO 5
CO 4	Apply the financial accounting rules that exist in the area of departmental accounting	PSO 2
CO 5	To familiarize the students about the accounting practices and standards being followed for businesses.	PSO 8



### Core Course 5: Business Regulatory Framework

Course Code: CO2CRT05

Instructional hours: 72

Credit: 3

Teacher in charge: Ms. Anju P Tom

Code	Course Outcome	PSO-CO
CO1	Basic awareness about the legal framework influencing business transactions and decisions	PSO 2 PSO 5
CO2	Demonstrate the knowledge of Mercantile law	PSO 2 PSO 5 PSO 7
CO3	Understand the various legal provisions relating to special contracts.	PSO 5
CO4	Knowledge of the fundamental aspects of law of agency and Sale of goods Act 1930	PSO 5 PSO 7

### Core Course 6: Business Management

Course Code: CO2CRT06

Instructional hours: 54

Credit: 3

Teacher in charge: Ms.Elizabeth Johny

Sl No	Course Outcome	PSO – CO
CO 1	To familiarize students about the concepts of business and management	PSO 1
CO 2	To give an insight into planning function and its effective application	PSO 1 PSO 2 PSO 5
CO 3	Make students to understand how the business strategies help in effective utilization of organizational resources.	PSO 5 PSO6
CO 4	Make students aware of various leadership styles and control techniques	PSO 4 PSO 6
CO 5	To have an understanding of various managerial techniques and its importance	PSO 2 PSO 4 PSO 7

### Complementary Course 2: Principles of Business Decisions

Course Code: CO2CMT02

Credit: 3

Instructional Hours: 72

Teacher In-charge: Mr. Jipin V Jimmy

**Core Course -8: Quantitative techniques for business - I**

Sl No	Course Outcome	O – CO
CO 1	To understand the economic concepts and theories in business decision making.	PSO 1 PSO 2 PSO 5
CO 2	To understand the demand theory and to forecast short-term and long-term demand.	PSO 1 PSO 2
CO 3	To understand the theories of production and to make profitable production decisions.	PSO 2
CO 4	Explain how firms use cost analysis to make business decisions.	PSO 2
CO 5	To compare the behavior and pricing in different markets such as perfect competition, monopoly, monopolistic competition and oligopoly.	PSO 2

### Semester 3

#### Core Course 7: Corporate Accounting 1

Course Code: CO3CRT07

Instructional Hours: 90

Credit: 4

Teacher in charge: Anju P Tom

Code	Course Outcome	PSO-CO
CO1	Understand the legal aspects of shares and debentures with regard to Companies Act 2013	PSO 5
CO2	Demonstrate the treatment of various accounting issues regarding shares and debentures of a company	PSO 10 PSO 7
CO3	Understand the various aspects of final accounts of companies	PSO 5 PSO 10 PSO 7
CO4	Apply the accounting concepts in preparation of financial statements of companies	PSO 10 PSO 7
CO5	Employ problem solving skills in investment accounts	PSO 10
CO6	Understand the concept of insurance claim and calculate insurance claims	PSO 10

Course Code: CO3CRT08

Instructional Hours: 90

Credit :4

Teacher in charge: Mr.Jipin. V. Jimmy

Sl No	Course Outcome	PSO – CO
CO 1	To make the students to understand the role of statistics and quantitative techniques.	PSO 5
CO 2	To familiarize the students the basic tools in statistics.	PSO 2
CO 3	To acquaint them with the measurement of central tendency and dispersion.	PSO 2
CO 4	To make students aware of interpolation and extrapolation.	PSO 2

### **Core Course9: Financial markets and operations**

Course Code-- CO3CRT09

Credit: 3

Instructional hours: 72

Teacher In-charge: Ms. Jiny John

CO No:	Course Outcome	Cognitive Level	PSO No:
CO1	Understand the various concepts and functioning of the financial system.	R, U	PSO 1,5,8
CO2	Familiarization with the Indian financial system and the financial market operations in India.	R, U	PSO 5,8
CO3	Increased awareness of the current structure and regulation of the Indian financial services sector.	U	PSO 5,8
CO4	Understand in detail, the functioning of the Primary and the Secondary markets.	U	PSO 8
CO5	Better understanding of the trading in the Indian Financial markets.	U	PSO 8
CO6	Understand the functioning of mutual funds and their role in increasing investments in India.	U	PSO 8
CO7	Familiarization with the hedging instrument-' Derivatives'.	U	PSO 7,8
CO8	Better understanding of forwards, futures, options and Swaps	U	PSO 7,8

### Core Course 10: Marketing Management

Course Code: CO3CRT10

Instructional Hours: 54

Credit :3

Teacher in charge: Ms. Elizebeth Johny

SI No	Course Outcome	PSO – CO
CO 1	To have an understanding of the concept of marketing management and its various aspects	PSO 1
CO 2	To familiarize students with product mix, product life cycle and product development	PSO 1
CO 3	To have an understanding on the concepts of branding, brand equity and related aspects	PSO 1
CO 4	Make students aware of various pricing methods and strategies	PSO4
CO 5	Help students to understand logistics and supply chain management	PSO 5
CO 6	To have an insight about physical distribution mix and the concepts of retailing	PSO 5
CO 7	To familiarize students with recent trends in marketing	PSO 4

### Optional Core 1: Goods and Services Tax

Course Code: CO3OCT01

Instructional Hours: 90

Credit: 4

Teacher in charge: C A Reshma Rachel Kuruvilla

SI No	Course Outcome	PSO – CO
CO 1	To make the students Understand various concepts of Goods & Service Tax	PSO 3 PSO 4
CO 2	To familiarize the students about recording and analyzing the transactions for compliance under GST especially in supply chain & distribution	PSO 3 PSO 7
CO 3	To acquaint them with the technology and the flow of return filing under GST	PSO 4
CO 4	To make students aware of the “place of supply rules” and applicability of the same under GST	PSO 4
CO 5	To help students to have an awareness of GST registration and compliances in GST	PSO 2

## Semester 4

### Core Course 11: Corporate Accounting 2

Course Code: CO4CRT11

Instructional Hours: 108

Credit :4

Teacher in charge: Anju P Tom

Code	Course Outcome	PSO-CO
CO1	Understand the legal aspects relating to the accounts of insurance and banking companies, amalgamation, absorption, internal reconstruction and external reconstruction	PSO 5
CO2	Understand the various aspects of accounts of banking companies and insurance companies	PSO 5 PSO 10 PSO 7
CO3	Apply the accounting concepts in preparation of financial statements of banking and insurance companies	PSO 10 PSO 7
CO4	Demonstrate the knowledge of accounting treatment and the ability to apply them to solve problems regarding amalgamation, absorption, internal reconstruction and external reconstruction	PSO 10 PSO 7

### Core Course 12: Quantitative Techniques for Business II

Course Code: CO4CRT12

Instructional Hours: 108

Credit: 4

Teacher In-charge: Mr. Jipin V jimmy

CO No:	COURSE OUTCOME	Cognitive Level	SO No:
CO 1	The course is intended to familiarize the students to take right business decisions.	U	PSO 2
CO 2	To enable the students to apply the statistical tools like estimation, index numbers in business activities.	U	PSO 1
CO 3	The course is provided for the practical application about various time series analysis	U	PSO 4
CO 4	To enable the students to know about probability and to apply the same in business decision making	U	PSO 1

### Core Course 13: Entrepreneurship Development and Project Management

Course Code: CO4CRT13

Credits: 4

Instructional Hours: 90

Teacher In-charge: Jiny John

CO No:	COURSE OUTCOME	Cognitive Level	PSO No:
CO 1	Understanding the basics of entrepreneurship.	U	PSO 1
CO 2	Understanding the discipline of project management	U	PSO 1,7
CO 3	Develop entrepreneurial spirit among students	U	PSO 1, 4
CO 4	Empower students with sufficient knowledge to start up their venture with confidence	U	PSO 1,6
CO 5	Mould young minds to take up challenges and become employer than seeking employment and to make them aware of the opportunities and support for entrepreneurship in India	U	PSO 1

### Optional Core 2: Financial Services

Course Code: CO4OCT01

Credits:4

Instructional Hours: 90

Teacher In-charge: Reshma Rachel Kuruvilla

SI No	Course Outcome	PSO – CO
CO 1	enable the students to know about the financial markets.	PSO 3 PSO 4
CO 2	enrich the knowledge about the diverse arenas of business opportunities	PSO 3 PSO 7
CO 3	acquaint the students with the knowledge about innovative sources of finance.	PSO 4
CO 4	facilitate students in the formulation of strategies for risk management.	PSO 4

## Semester 5

### Core Course 14: COST ACCOUNTING I

Course Code: CO5CRT14

Instructional hours: 108

Credit: 4

Teacher in charge: Ms. Anju P Tom

Code	Course Outcome	PSO-CO
<b>CO1</b>	Explain the basic concepts, methods and Techniques of cost accounting	PSO 1, PSO 7, PSO 5
<b>CO2</b>	Recognize the place of cost accounting in business and management	PSO 7, PSO 5
<b>CO3</b>	Demonstrate how material and labour costs are accounted	PSO 7, PSO 10
<b>CO4</b>	Attain problem solving skills in areas of overhead allocation and absorption	PSO 7, PSO 10
<b>CO5</b>	Understand the concept of cost control with respect to cost elements	PSO 7, PSO 10
<b>CO6</b>	Prepare cost sheet and reconcile cost accounts with financial accounts	PSO 7, PSO 10

### **Core Course 15: Environment Management and Human Rights**

Course Code: CO5CRT15

Instructional hours: 90

Credit: 4

Teacher in charge: Ms. Jiny John

CO No:	COURSE OUTCOME	Cognitive Level	SO No:
CO1	Understanding the basics of Environment	U	PSO 9
CO 2	Understand the concept of environment and various resources – renewable and non-renewable.	R, U	PSO 9
CO 3	Develop sensitivity for the natural, physical and human resources in the immediate environment.	R, U	PSO 9
CO 4	Understand the environmental issues and become sensitized towards it.	R, U & AN	PSO 9
CO 5	Understand various control and prevention measures to eradicate environment problems.	U	PSO 9
CO 6	Understand the role and functions of different institutions in protecting the environment.	U	PSO 9, 5
CO 7	Increase awareness about the Human Rights in India.	R, U & AN	PSO 9
CO 8	Understand the importance of equality in the society and to increases their awareness about the prevailing human rights violation issues.	R, U & AN	PSO 9, 2

### Core Course 16: Financial Management

Course Code: CO5CRT16

Instructional hours: 90

Credit: 4

Teacher in charge: Ms. Elizabeth Johny

CO No:	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	To Familiarize the students with the basic concepts of finance and its management	U	PSO 1 PSO 2
CO 2	To Familiarize the students with the value of money over time and its uses.	U,Ap	PSO 2 PSO 5
CO 3	To have an understanding on the concepts of cost of debt, cost of equity, cost of retained earnings, leverage and its applications	U, Ap	PSO 1 PSO 2 PSO 5 PSO 7
CO 4	To make students aware of Risk factors, capital structure and its theories	U, R,An	PSO 2 PSO 5 PSO 7
CO 5	To enable the students to be capable of making investment decision	U,An, Ap	PSO 2 PSO 6
CO 6	To familiarize the students with the concept of management of working capital	U,An, Ap	PSO 2 PSO 5
CO 7	To make students aware of various types dividend policies	U, R,An	PSO 2 PSO 5 PSO7

### Optional Core 3: Income Tax Law and Practice- I

Course Code: CO5OCT01

Instructional hours: 90

Credit: 4

Teacher in charge: Ms. Reshma Rachel Kuruvilla

Sl No	Course Outcome	PSO – CO
CO 1	To familiarize the students the basic terms, concepts, conventions and principles of taxation.	PSO 3 PSO 4
CO 2	To make the students aware about the various provisions of income tax law	PSO 4
CO 3	To enable the students to familiarize with income tax calculations	PSO 4



CO 4	To determine the taxability of various persons under Income tax Act	PSO 2
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### Open Course: Fundamentals of Accounting

Course Code: CO5OP03

Instructional hours: 72

Credit: 3

Teacher in charge: Mr. Jipin V Jimmy

SI No	Course Outcome	PSO – CO
CO 1	To familiarize the students the basic terms, concepts, conventions and principles of accounting.	PSO 1 PSO 4
CO 2	To make the students aware of preparing Journal and ledger entries.	PSO 5
CO 3	To enable the students to familiarize with preparation of petty cash book and triple coloumn cash book.	PSO 5
CO 4	To familiarize the students with the preparation of Trial balance and final accounts.	PSO 5

### Semester 6

### Core Course17: Cost Accounting 2

Course Code: CO6CRT17

Instructional hours: 108

Credit: 4

Teacher in charge: Mr.Anju P Tom

Code	Course Outcome	PSO- CO
CO1	Identify the different methods and techniques of costing applicable for different types of industries.	PSO 5
CO2	Apply the methods and techniques of costing to the determination cost in various industries.	PSO 2, PSO 7 PSO 10
CO3	Assess the concept and relevance of marginal costing and Break even analysis and employ them as tools for planning and decision making	PSO 2 PSO 7, PSO 10
CO4	Understand the concept of budget and budgetary control and prepare various budgets	PSO 2 PSO 7, PSO 10

### **Core Course 18: ADVERTISEMENT AND SALES MANAGEMENT**

Course Code: CO6CRT18

Instructional Hours: 72

Credit: 3

Teacher In-charge: Mr. Jipin. V. Jimmy

CO No:	COURSE OUTCOME	Cognitive Level	PSO No:
CO 1	Understand the concepts of advertising	U	PSO1, 2
CO 2	Identify and make decisions regarding most feasible advertising appeal and media	U	PSO 2,5
CO 3	Understand the need for advertisement research	U	PSO 2, 5
CO 4	Understand the nature and importance of sales promotion, its role in marketing	U	PSO 1,2,5
CO 5	Enable the students to develop skills required for personal selling and salesmanship	U	PSO 1,2,5

### **Core Course 19: Auditing and Assurance**

Course Code: CO6CRT19

Instructional Hour:90

Credit: 4

Teacher In-charge: Ms. Jiny John

CO No:	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	Understand the basics of Auditing.	U	PSO 5,7
CO 2	Familiarization with the role that audits (both internal and external) play, their purpose, and the value that they provide.	U	PSO 5,7
CO 3	Understand the principles and procedure of auditing	U	PSO 5,7
CO 4	Enable the students to understand the duties and responsibilities of auditors and to undertake the work of auditing.	U	PSO 5,7

### **Core Course 20: Management Accounting**

Course Code: CO6CRT20

Instructional hours: 90

Credit: 4

Teacher in charge: Ms. Elizabeth Johny

CO No:	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	Familiarize the students with the basic concepts of Management accounting	U	PSO 1 PSO 2
CO 2	acquaint the students with management accounting techniques for the analysis and interpretation of financial statements	U,Ap,An	PSO 2 PSO 5
CO 3	have an understanding on ratio analysis and its applications	U, Ap,An	PSO 1 PSO 2 PSO 3 PSO 5 PSO 7
CO 4	make students aware of fund flow analysis and its preparation	U,An,Ap	PSO 2 PSO 5 PSO 7
CO 5	equip the students to interpret financial statements.	U,An, Ap	PSO 2 PSO 5 PSO 6 PSO 7
CO 6	enable the students to have a thorough knowledge on cash flow techniques in business decision making.	U,An, Ap	PSO 2 PSO 5 PSO 7

#### Optional Core 4: Income Tax Law and Practice

Course Code: CO6OCT01

Instructional hours: 90

Credit: 4

Teacher in charge: Ms. Reshma Rachel Kuruvilla

Sl No	Course Outcome	O – CO
CO 1	To familiarize the students the basic terms, concepts, conventions and principles of taxation.	O 3 O 4
CO 2	To make the students aware about the various provisions of income tax law with regard to the identification and computation of capital gains.	O 4
CO 3	To make them competent enough to do the complex calculations of tax.	O 4
CO 4	To enable the students to have an understanding about the	O 2

	assessment procedures in income tax.	
CO 5	To acquaint students with the knowledge of setoff rules and clubbing of income under income tax.	CO 3

# BSc Food Science and Quality Control

## SEMESTER- 1

### BASIC NUTRITION

Course	Details
Code	FS1CRT01
Title	BASIC NUTRITION
Degree	B.Sc.
Branch(s)	Food Science
Semester	I
Type	CORE
Credits	3
Total hours	72
Hours per week	4

### Course Outcomes

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Retrieve knowledge from foundational sciences as a basis for understanding the role of food and nutrients in health and disease.	Re	PSO1,6
2	Integrate scientific information, research, and critical thinking into evidence-based practice.	An	PSO4
3	Attribute professionalism and ethical behavior in all areas of practice.	An	PSO8
4	Infer the advocacy on issues that affect public health and nutrition policy.	U	PSO1
5	Interpret the basis for lifelong learning and interprofessional collaboration.	U	PSO8

6	Implement strategies for food access, procurement, preparation, and safety that are relevant for the culture, age, literacy level, and socio-economic status of clients and groups.	Ap	PSO1
7	Identify the food system management and leadership functions that consider sustainability in business, healthcare, community, and institutional arenas.	Re	PSO1,8,9

### **FOOD CHEMISTRY**

Course	Details
Code	FS1CRT02
Title	FOOD CHEMISTRY
Degree	B.Sc.
Branch(s)	Food Science
Semester	I
Type	CORE
Credits	3
Total hours	72
Hours per week	4

### **Course Outcomes**

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Explain properties and reactions of the proximate principles( Carbohydrates, Proteins and Lipids ) during storage and processing of food and how these influence the quality and properties of food.	U	PSO1,4
2	Explain the importance of water for food stability and quality.	U	PSO1
3	Differentiate the main classes of compounds influencing food pigments and antioxidants in food, knowledge on important sources of vitamins and minerals in food and how other quality aspects can be affected	U	PSO1
4	Interpret the role of enzymes and its mechanism of action in food	U	PSO1

### **METHODOLOGY IN DISCIPLINE OF FOOD SCIENCE**

Course	Details
Code	FS1CRT03

Title	Methodology in the Discipline of Food Science
Degree	B.Sc.
Branch(s)	Food Science
Semester	I
Type	CORE
Credits	3
Total hours	72
Hours per week	4

### **Course Outcomes**

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand some basic concepts of research and understand its methodology in relation to food science	U	PSO1,4
2	Implement and define appropriate research and its parameters	Ap	PSO1,4,6
3	Plan and design an innovative food product	C	PSO7

## **SEMESTER II**

### **FOOD COMMODITIES**

Course	Details
Code	FS2CRT04
Title	Food Commodities
Degree	B.Sc.
Branch(s)	Food Science
Semester	II
Type	CORE
Credits	3
Total hours	72
Hours per week	4

### **Course Outcomes**

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	To understand what are food commodities and the commonly consumed foods that are ingested for their nutrient properties	Re	PSO1,3
2	To understand the composition, nutrient value, processing methods, preservation and storage methods of various commodities	Re	PSO1,3,5

3	Attribute professionalism and ethical behaviour in all areas of practice of processing of foods	An	PSO9
4	Infer the advocacy on issues that affect public health and nutrition policy.	U	PSO1,8
5	Apply knowledge of various commodities into product development	U	PSO7
6	Implement strategies for food access, procurement, preparation, and safety that are relevant for the culture, age, literacy level, and socio-economic status of clients and groups.	Ap	PSO1,3,4,8,9

### FOOD PRESERVATION

Course	Details
Code	FS2CRT05
Title	Food Preservation
Degree	B.Sc.
Branch(s)	Food Science
Semester	II
Type	CORE
Credits	3
Total hours	72
Hours per week	4

### Course Outcomes

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the basic principles of food preservation processes	Re	PSO1,3
2	Understand the mechanisms of spoilage of foods and raw materials	Re	PSO1,3,4,6
3	Recognize the range of processing operations used in food preservation techniques	Re	PSO1,5
4	Recall the sources and variability of raw food material and the impact on food processing operations	U	PSO1,5
5	Compare food quality (texture, sensory, structure/appearance, etc.) to the chemical composition, processing and storage conditions	U	PSO1,3,5
6	Recognize effects of processing and storage conditions on shelf life of food	Re	PSO1,4,5

### **FOOD MICROBIOLOGY ,SANITATION AND HYGIENE**

Course	Details
Code	FS2CRT04
Title	Food Microbiology, Sanitation and Hygiene
Degree	B.Sc.
Branch(s)	Food Science
Semester	II
Type	CORE
Credits	3
Total hours	72
Hours per week	4

#### **Course Outcome**

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand causes of food borne illnesses	Re	PSO1,5
2	Explain the characteristics,growth,morphology and prevention of disease causing micro organisms , food borne illnesses and suspect foods in a commercial kitchen	Re	PSO1,4,5
3	Recognize food poisoning, chemical food poisoning, and food infection	Re	PSO1
4	Illustrate proper techniques for storing supplies and rodent control techniques	U	PSO1,3,5
5	Describe proper handling techniques for potentially hazardous foods	Re	PSO1,3,5
6	Identify proper hygienic requirements for food handlers and premises	Re	PSO1,3,5,8
7.	Identify and understand the nature of micro organisms , its media and equipment beneficial effects	Re	PSO1,3,5

### **III SEMESTER**

#### **PROCESSING TECHNOLOGY OF ANIMAL FOODS**

Course	Details
Code	FS3CRT08
Title	PROCESSING TECHNOLOGY OF ANIMAL FOODS
Degree	B.Sc.



Branch(s)	Food Science
Semester	III
Type	CORE
Credits	3
Total hours	72
Hours per week	4

### **Course Outcome**

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the types of animal foods , its processing and importance	U	PSO1
2	Describe the process of red and white meat, slaughter, explain meat structure and inspect meat parameters, Process manufactured meat products to produce variety of animal food products.	Re	PSO1
3	Identify the areas of concern in the processing of meat products, in relation to process control and export.	Re	PSO1
4	Exemplify the requirements for meat export and chemical and physiological structure of meat	U	PSO1
5	Distinguish processing techniques used to produce a variety of milk products.	An	PSO1
6	Analyse the process of harvesting, processing and storage of seafood.	An	PSO1,2,3
7	Evaluate variety of egg products produced in the food processing industry including egg structure and egg quality.	Ev	PSO1,2,3

### **SENSORY EVALUATION**

Course	Details
Code	FS3CRT09
Title	<b>SENSORY EVALUATION</b>
Degree	B.Sc
Branch(s)	Food science
Semester	III
Type	CORE
Credits	4
Total hours	72
Hours per week	4

### Course Outcome

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand ability to identify solutions to problems related to the sensory analysis of food and to apply and expand upon the theoretical concepts as presented in lectures	U	PSO1,2
2	Illustrate familiarity and competence with the practical skills and techniques used to analyse the sensory properties of food. This will include experimental planning, the preparation of suitable samples	U	PSO2,4,5,6
3	Recognize terminology, appropriate to the field of sensory analysis, correctly and contextually.	Re	PSO1
4	Explain the benefits and limitations (scientific and ethical) of the sensory evaluation of food	U	PSO1

### **FOOD PACKAGING MATERIALS AND TESTING**

Course	Details
Code	FS3CRT8
Title	<b>FOOD PACKAGING MATERIALS AND TESTING</b>
Degree	B.Sc.
Branch(s)	Food Science
Semester	III
Type	CORE
Credits	3
Total hours	72
Hours per week	4

### Course Outcome

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the types and concepts of packaging	U	PSO1
2	Interpret the role and function of packaging materials used for a range of consumer food needs and wants.	U	PSO1,8
3	Illustrate the properties of food packages to conversion technologies, processing and packaging technologies and user requirements including safety, convenience and environmental issues.	U	PSO7,8
4	Measure and evaluate the chemical, physical and mechanical properties of packages and packaging.	Ev	PSO1,3,4
5	Analyse the principles and practices of different types of packaging materials	An	PSO1,8,9

## SEMESTER IV

### PROCESSING TECHNOLOGY OF PLANT FOODS

Course	Details
Code	FS4CRT11
Title	<b>Processing Technology of Plant Foods</b>
Degree	B.Sc.
Branch(s)	Food Science
Semester	IV
Type	CORE
Credits	3
Total hours	72
Hours per week	4

#### Course Outcome

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	To understand of modern food processing and profound knowledge of plant food	U	PSO1,3,5,9
2	Understand the ability to apply the knowledge of science, microbiology and technology	U	PSO1,3,5,9
3	Determine the techniques, skills, and modern tools necessary in food processing operations	App	PSO1,3,5,9
4	Apply knowledge for production of safe food and shelf-life extension of food products	App	PSO1,3,5,8
5	Generate individually/in group(s) to the development of scientific/technological knowledge in food science and technology	Cr	PSO1,3,5,8,9

### ANALYTICAL INSTRUMENTATION

Course	Details
Code	FS4CRT12
Title	<b>Analytical Instrumentation</b>
Degree	B.Sc.
Branch(s)	Food Science
Semester	IV
Type	CORE
Credits	3

Total hours	72
Hours per week	4

### **Course Outcome**

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	To impart an understanding the basic and modern techniques in the instrumentation equipments used for analysis	Re	PSO1,3
2	An ability to apply the knowledge of science, and technology and the use of instruments in detection for presence or absence of contaminants	Re	PSO1,2,3,5
3	Understand the techniques, skills, and modern tools necessary in analytical detection during food processing operations of food samples	U	PSO1,3,5,7
4	Apply knowledge for detection of adulterants in food and shelf-life extension of food products	Ap	PSO1,3,5

### **FOOD SAFETY AND QUALITY ASSURANCE**

Course	Details
Code	FS4CRT13
Title	<b>Food Safety And Quality Assurance</b>
Degree	B.Sc.
Branch(s)	Food Science
Semester	IV
Type	CORE
Credits	3
Total hours	72
Hours per week	4

### **Course Outcome**

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the scientific concepts of chemistry and microbiology to the development, monitoring and maintenance of food safety and quality assurance systems specific to the food processing industry.	U	PSO1,5
2	Differentiate effectiveness of practical applications of food safety and quality assurance system elements in a food manufacturing environment, across the logistics chain from the farm to the consumer.	An	PSO1,5

3	Understand the law and regulations applicable to food processing from the perspective of food safety and quality assurance and their effects on operational activities in a food manufacturing facility.	U	PSO1,5
4	Understand Food safety and quality system audit tools (i.e. GFSI, ISO) that inform compliance of food processing operations to laws and regulations.	U	PSO1,5

## SEMESTER V

### FOOD ANALYSIS

Course	Details
Code	FS35CRT15
Title	<b>FOOD ANALYSIS</b>
Degree	B.Sc.
Branch(s)	Food Science
Semester	V
Type	CORE
Credits	3
Total hours	72
Hours per week	4

### Course Outcome

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the use of standard techniques of food analysis and the treatment of its calculation	U	PSO1,3,4
2	Interpret modern instrumental methods to analyse chemical and physical properties of foods	U	PSO1,3,4
3	Understand principles and methods for the proximate analyses of foods. Evaluation of test methods	U	PSO1,2,3,4
4	Estimate the use of Official Methods of Analysis of AOAC International	Ap	PSO1,2,3,4
5	Analyse the chemical and physical properties of food using Instrumental methods	A	PSO1,2,3,4
6	Applications of food analysis in research, government, trade and the food industry.	Ap	PSO1,6

### FOOD TOXICOLOGY

Course	Details
Code	FS5 CRT 16
Title	<b>FOOD TOXICOLOGY</b>
Degree	B.Sc.
Branch(s)	Food Science
Semester	V
Type	CORE
Credits	3
Total hours	72
Hours per week	4

### Course Outcome

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the definitions of toxicology and toxicity	U	PSO1
2	Recognize different types of toxic responses	Re	PSO1
3	Classify Toxicants	U	PSO1
4	Determine toxic effects of specific food toxicants	Ap	PSO1,2,4,5
5	Infer action of specific food toxicants	U	PSO1,2,4,5
6	Estimate the issues related to presence and management of food toxicity and potentially toxic compounds in our food supply	Ap	PSO1,2,4,5

### ENVIRONMENTAL STUDIES AND HUMAN RIGHTS

Course	Details
Code	FS5 CRT 17
Title	<b>ENVIRONMENTAL STUDIES AND HUMAN RIGHTS</b>
Degree	B.Sc.
Branch(s)	Food Science
Semester	V
Type	CORE
Credits	3
Total hours	72
Hours per week	4

### Course Outcome

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand Core concepts and methods from ecological and physical sciences and their application in environmental problem solving.	U	PSO1,8,9
2	Understand the basic concepts of natural resources, waste management and ecosystem	U	PSO1,8,9
3	Summarize systems concepts and methodologies to analyze and understand interactions between social and environmental processes.	An	PSO 9
4	Understand Rights for humans, laws for protection under various categories	U	PSO8
5	Understand the basic concepts of Human Rights and United Nations	U	PSO8

### **OPEN COURSE- FOOD FACTS AND PRINCIPLES**

Course	Details
Code	FS5 CRT 18
Title	<b>FOOD FACTS AND PRINCIPLES</b>
Degree	B.Sc.
Branch(s)	Food Science
Semester	V
Type	CORE
Credits	3
Total hours	72
Hours per week	4

### Course Outcome

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the various nutrients and their nutritional functions	U	PSO 1
2	Integrate the knowledge of nutritional principles and their application in disease prevention and treatment	An	PSO1,7

3	Understand the concepts and practice of hygiene and safety in food preparation and service	U	PSO 1,5
4	Design and innovate novel food products	Cr	PSO 1,7

### **FOOD ANALYSIS AND ADULTERATION TESTING PRACTICALS-I**

Course	Details
Code	FS5 CRP22
Title	<b>Food analysis and adulteration testing practicals-I</b>
Degree	B.Sc.
Branch(s)	Food Science
Semester	V
Type	CORE
Credits	2
Total hours	72
Hours per week	2.5

### **Course Outcome**

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1.	Understand the applications of various equipments, apparatus and analysis by chemical techniques in food	U	PSO1,2,3,4,5
2	Understand the mechanism and principles , procedures and calculations of various techniques employed for detection of adulterants in food and general analysis	U	PSO1,2,3,4,5
3	Identify the various chemical techniques in the analysis of foods and adulterants present if any	Re	PSO1,2,3,4,5
4	Understand the quality assessment of food products by estimation of all quality parameters	U	PSO1,2,3,4,5

### **FOOD CHEMISTRY PRACTICALS**

Course	Details
Code	FS5 CRP23
Title	<b>Food Chemistry Practicals</b>
Degree	B.Sc.
Branch(s)	Food Science



Semester	V
Type	CORE
Credits	2
Total hours	72
Hours per week	2.5

### **Course Outcome**

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the applications of various equipments, apparatus and analysis by chemical techniques in food	U	PSO1,2,4,5
2	Understand the mechanism and principles , procedures and calculations of various techniques employed for detection of adulterants in food and general analysis	U	PSO1,2,4,5
3	Understand basic preparation of solutions and buffers.	U	PSO1,2,4,5
4	Understand the functioning and principle of various instruments	U	PSO1,2,4,5
5	Identify the various chemical techniques in the analysis of foods and adulterants present if any	Re	PSO1,2,4,5
6	Understand the quality assessment of food products by estimation of all quality parameters	U	PSO1,2,4,5

### **BASIC MICROBIOLOGY PRACTICALS**

Course	Details
Code	FS5 CRP21
Title	Basic microbiology practicals
Degree	B.Sc.
Branch(s)	Food Science
Semester	V
Type	CORE
Credits	2
Total hours	72
Hours per week	7

### Course Outcome

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand and know parts of microscope, type and its principle	U	PSO1,2,3,4,5
2	Understand the theoretical concepts of related stain	U	PSO1,2,3,4,5
3	Understand different methods of staining technique	U	PSO1,2,3,4,5
4	Understand various accessories for microbiology practicals	U	PSO1,2,3,4,5
5	Illustrate various staining technique	U	PSO1,2,3,4,5
6	Understand various sterilization techniques	U	PSO1,2,3,4,5

## SEMESTER VI

### ENTREPRENEURSHIP DEVELOPMENT AND MANAGEMENT IN FOOD INDUSTRY

Course	Details
Code	FS6CRT24
Title	<b>Entrepreneurship Development and Management in Food Industry</b>
Degree	B.Sc.
Branch(s)	Food Science
Semester	VI
Type	CORE
Credits	3
Total hours	72
Hours per week	4

### Course Outcome

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand Entrepreneurship and help Innovation minors to be able to <b>sell themselves and their ideas</b> . Students master oral and visual presentation skills and establish a foundation of confidence in the skills necessary to cause others to act.	U	PSO1
2	Focus on Entrepreneurship and Innovation minors to be able	An	PSO3,8,9

	to <b>find problems worth solving</b> . Students advance their skills in customer development, customer validation, competitive analysis, and iteration while utilizing design thinking and process tools to evaluate in real-world problems and projects in management		
3	Classification and <b>mobilization of people and resources</b> . Students identify and secure customers, stakeholders, and team members through networks, primary customer research, and competitive and industry analyses in order to prioritize and pursue an initial target market in real-world projects.	U	PSO 3,8,9
4	Understand different methods to assess the attractiveness of business opportunities	U	PSO9
5	Understand what characterizes an attractive business opportunity and common pitfalls during the entrepreneurial process	U	PSO9
6	Understand the dynamics of how teams develop and function as well as the various types of conflicts that can arise during teamwork	U	PSO9
7	<b>Plan, organize, and execute a project or new venture with the goal of bringing new products and service to the market</b>	Cr	PSO9

#### FOOD ADULTERATION AND TESTING

Course	Details
Code	FS6CRT24
Title	<b>Food Adulteration and Testing</b>
Degree	B.Sc.
Branch(s)	Food Science
Semester	VI
Type	CORE
Credits	3
Total hours	72
Hours per week	4

#### Course Outcomes

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand and identify food hazards, adulteration and traceability	Re	PSO1,2,3,5

2	Understand how to validate a method to monitor chemical contaminants	Re	PSO1,2,3,5
3	Understand how to perform advanced analysis methods for food hazards, adulteration and traceability	U	PSO1,2,3,5

**CHOICE BASED COURSE**  
**COCONUT & BEVERAGE TECHNOLOGY**

Course	Details
Code	FS6CBT 26
Title	Coconut & beverage technology
Degree	B.Sc.
Branch(s)	Food Science
Semester	VI
Type	Choice Based
Credits	4
Total hours	72
Hours per week	4

**Course Outcomes**

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand convergence and synergy among numerous ongoing governmental programmes in the field of coconut and beverage development in order to bring in horizontal and vertical integration of these programmes	U	PSO 1,3,7
2	Understand adequate, appropriate, timely and concurrent attention to all the links in the production, post harvest and consumption chain of coconut, its products and beverages as well as modern and traditional technology	U	PSO 1,3,7
3.	Understand economically desirable diversification and value addition to generate skilled employment	U	PSO1,3,7
4	Generate knowledge on the origins and development of Beverage and Coconut as well as its products, its role, types, Processing, Benefits, Value addition and Harmful effects in excess	Cr	PSO 1, 7,9
5	Understand and help prepare students to meet the challenges associated with the Beverage and Coconut Industry	U	PSO1,7,9

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### ADVANCED FOOD MICROBIOLOGY PRACTICALS

Course	Details
Code	FS5 CRP29
Title	Advanced Food Microbiology Practicals
Degree	B.Sc.
Branch(s)	Food Science
Semester	VI
Type	CORE
Credits	2
Total hours	72
Hours per week	7

#### Course Outcome

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the advanced concepts of related media and cultures	U	PSO1,2,4,5
2	Understand different methods of advance staining technique	U	PSO1,2,4,5
3	Understand advanced accessories for food microbiology practicals	U	PSO1,2,4,5
4	Illustrate biochemical methods of testing	U	PSO1,2,4,5
5	Analyze Food Samples	An	PSO1,2,4,5

### FOOD ANALYSIS AND ADULTERATION TESTING PRACTICALS- II

Course	Details
Code	FS5 CRP22
Title	Food Analysis and Adulteration Testing Practicals- II
Degree	B.Sc.
Branch(s)	Food Science
Semester	VI
Type	CORE
Credits	2

Total hours	72
Hours per week	2.5

### **Course Outcome**

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the applications of various equipments, apparatus and analysis by chemical techniques in food	U	PSO1,2,3,4,5
2	Understand the mechanism and principles , procedures and calculations of various techniques employed for detection of adulterants in food and general analysis	U	PSO1,2,3,4,5
3	Identify the various chemical techniques in the analysis of foods and adulterants present if any	Re	PSO1,2,3,4,5
4	Understand the quality assessment of food products by estimation of all quality parameters	U	PSO1,2,3,4,5

### **ADVANCED FOOD CHEMISTRY PRACTICALS**

Course	Details
Code	FS5 CRP23
Title	<b>Advanced food chemistry practicals</b>
Degree	B.Sc.
Branch(s)	Food Science
Semester	VI
Type	CORE
Credits	2
Total hours	72
Hours per week	2.5

### **Course Outcome**

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the applications of various equipments, apparatus and analysis by chemical techniques in food	U	PSO1,2,4,5
2	Understand basic preparation of solutions and buffers.	U	PSO1,2,4,5
3	Understand the mechanism and principles , procedures and calculations of various techniques employed for detection of adulterants in food and general analysis	U	PSO1,2,4,5

4	Identify the various chemical techniques in the analysis of foods and adulterants present if any	Re	PSO1,2,4,5
5	Understand the quality assessment of food products by estimation of all quality parameters	U	PSO1,2,4,5

## BSc Computer Science

### SEMESTER I

COURSE	DETAILS
CODE	CS1CRT02
TITLE	METHODOLOGY OF PROGRAMMING AND C LANGUAGE
DEGREE	B.Sc.
BRANCH	COMPUTER SCIENCE
YEAR/SEMESTER	I/I
TYPE	CORE COURSE
INSTRUCTOR(S)	ATHIRADEVI R
CREDITS	4

CO NO.	COURSE OUTCOME	CL	PSO
1	DESCRIBE THE CONCEPTS OF PROGRAMMING AND PROGRAMMING LANGUAGES.	R	2
2	IDENTIFY TOKENS IN C PROGRAMMING	R	2
3	COMPARE INPUT AND OUTPUT IN C	U	2
4	IMPLEMENTING CONTROL STATEMENTS	APPLY	1
5	IMPLEMENTING ARRAY AND POINTERS	APPLY	1
6	EXECUTE FUNCTIONS (STRING HANDLING, MEMORY ALLOCATION) AND STRUCTURES	APPLY	1

COURSE	DETAILS
CODE	CS1CRP01
TITLE	METHODOLOGY OF PROGRAMMING AND C LANGUAGE
DEGREE	B.Sc.
BRANCH	COMPUTER SCIENCE
YEAR/SEMESTER	I/I

<b>TYPE</b>	<b>CORE PRATICALS</b>
<b>INSTRUCTOR(S)</b>	<b>ATHIRADEVI R</b>
<b>CREDITS</b>	<b>2</b>

CONO.	COURSE OUTCOME	CL	PSO
1	USE THE SYNTAX AND SEMANTICS OF C LANGUAGE	APPLY	1,2
2	CONSTRUCT A SOFTWARE USING C PROGRAM	CREATE	1,2
3	IMPLEMENT THE FLOW CONTROL IN C PROGRAM	APPLY	1,2
4	IMPLEMENT THE ARRAY ,STRUCTURE AND POINTER	APPLY	1,2
5	STRUCTURING THE CODE : FUNCTIONS	ANALYZE	1,2

## SEMESTER II

COURSE	DETAILS
<b>CODE</b>	<b>CS2CRT04</b>
<b>TITLE</b>	<b>COMPUTER ORGANIZATION AND ARCHITECTURE</b>
<b>DEGREE</b>	<b>B.Sc.</b>
<b>BRANCH</b>	<b>COMPUTER SCIENCE</b>
<b>YEAR/SEMESTER</b>	<b>I/II</b>
<b>TYPE</b>	<b>CORE COURSE</b>
<b>INSTRUCTOR(S)</b>	<b>ATHIRADEVI R</b>
<b>CREDITS</b>	<b>4</b>

CO NO.	COURSE OUTCOME	CL	PSO
1	Understand the functionality, organization and implementation of computer system.	U	1,3
2	Recognize the instruction codes and formats.	R	1,3
3	Examine the various addressing modes and formats of different CPUs.	U	1,3
4	Discuss the internal working of main memory, cache memory, associative memory and various modes of data transfer.	U	1,3
5	Compare the working of parallel processing and vector processing.	U	1,3



COURSE	DETAILS
CODE	CS2CRT05
TITLE	OBJECT ORIENTED PROGRAMMING USING C++
DEGREE	B.SC.
BRANCH	COMPUTER SCIENCE
YEAR/SEMESTER	I/II
TYPE	CORE COURSE
INSTRUCTOR(S)	DIVYA S
CREDITS	3

CO NO.	COURSE OUTCOME	CL	PSO
1	Understand the principles of oops concept and control structure	U	2
2	Analyse the concept of classes and object, array, functions.	A	2
3	Understand the concept of constructors, inheritance and classification.	U	2
4	Execute the concept of Pointers and virtual function	APPLY	2
5	Discuss to work with files, file pointers and its manipulations	U	2

COURSE	DETAILS
CODE	CS2CRP02
TITLE	OBJECT ORIENTED PROGRAMMING USING C++
DEGREE	B.SC.
BRANCH	COMPUTER SCIENCE
YEAR/SEMESTER	I/II
TYPE	CORE PRATICALS
INSTRUCTOR(S)	DIVYA S
CREDITS	2

CO NO.	COURSE OUTCOME	CL	PSO
1	USE THE CONCEPT OF DEFAULT ARGUMENTS AND FUNCTION OVERLOADING	APPLY	2
2	EXECUTE THE CONCEPTS OF ARRAY OF OBJECTS	APPLY	2
3	IMPLEMENT THE CONCEPT OF OPERATOR OVERLOADING	APPLY	2
4	USE THE CONCEPT OF CONSTRUCTORS AND ITS TYPES	APPLY	2

5	IMPLEMENT THE CONCEPT OF INHERITANCE	APPLY	2
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### SEMESTER III

COURSE	DETAILS
CODE	CS3CRT06
TITLE	DBMS
DEGREE	B.SC.
BRANCH	COMPUTER SCIENCE
YEAR/SEMESTER	II/III
TYPE	CORE
INSTRUCTOR(S)	VINU THADEVUS WILLIAMS
CREDITS	2

CO NO.	COURSE OUTCOME	CL	PSO
1	UNDERSTAND ABOUT DATA AND ARRANGEMENT OF DATA	U	3
2	SUMMARIZE DIFFERENT DATA LANGUAGES SCHEMES	U	2
3	ANALYSE DIFFERENT DATA MODELS DDL ,DML,DCL,TCL	A	1
4	RECOGNIZE AND INTERPRET DIFFERENT DATA MODELS ERMODEL, RELATIONAL MODEL ETC.	R	1
5	CLASSIFY DIFFERENT DBMS LANGUAGES AND COMPONENTS	U	2
6	UNDERSTAND AND IMPLEMENT DIFFERENT SQL QUERIES	U	1
7	EXECUTE AND IMPLEMENT DIFFERENT PROJECT ASPECT DEMO DATABASE	APPLY, C	4
8	EXPLAIN DIFFERENT NORMALIZATION AND INDEXING ASPECTS	U	1
9	EXPLAIN DIFFERENT TRANSACTION AND SECURITY ASPECTS OF DBMS	R	1
10	GENERATE DIFFERENT DATABASE SQL AND PLSQL BASED QUERY FORMAT	CREATE	1

COURSE	DETAILS
CODE	CS3CRT07

<b>TITLE</b>	<b>SYSTEM ANALYSIS AND DESIGN</b>
<b>DEGREE</b>	<b>B.SC.</b>
<b>BRANCH</b>	<b>COMPUTER SCIENCE</b>
<b>YEAR/SEMESTER</b>	<b>II/III</b>
<b>TYPE</b>	<b>CORE</b>
<b>INSTRUCTOR(S)</b>	<b>ATHIRADEVI R</b>
<b>CREDITS</b>	<b>2</b>

CO NO.	COURSE OUTCOME	CL	PSO
1.	IDENTIFY THE VARIOUS TYPES OF INFORMATION SYSTEM CONCEPTS AND TERMINOLOGIES	R	1
2.	UNDERSTAND THE ISSUES AND RESPONSIBILITIES OF SYSTEM ANALYST	U	1
3.	DESCRIBE THE BASIC TOOL OF SYSTEM ANALYSIS	R	1
4.	DISCUSS THE INITIAL PHASES OF SYSTEM DEVELOPMENT LIFE CYCLE	U	1
5.	EXAMINE THE DIFFERENT ISSUES RELATED TO SYSTEM DESIGN	R	1
6.	EXPLAIN A WIDE RANGE OF PROBLEMS RELATED TO THE SYSTEM DEVELOPMENT ACTIVITIES	U	1
7.	CREATE TEAM BUILDING , COMMUNICATION AND INTERVIEWING SKILLS	C	4

COURSE	DETAILS
<b>CODE</b>	<b>CS3CRT09</b>
<b>TITLE</b>	<b>DATA STRUCTURE USING C++</b>
<b>DEGREE</b>	<b>B.SC.</b>
<b>BRANCH</b>	<b>COMPUTER SCIENCE</b>
<b>YEAR/SEMESTER</b>	<b>II/III</b>
<b>TYPE</b>	<b>CORE</b>
<b>INSTRUCTOR(S)</b>	<b>ANGITHA JEESIS C</b>
<b>CREDITS</b>	<b>3</b>

CO NO.	COURSE OUTCOME	CL	PSO
	KNOWLEDGE OF ADVANCED ADT AND DATA STRUCTURES AND THEIR IMPLEMENTATIONS	U	1,2
	ABILITY TO IMPLEMENT ALGORITHMS TO PERFORM VARIOUS OPERATIONS ON DATA STRUCTURES	APPLY	1,2
	UNDERSTAND DS USED FOR REPRESENTING DATA IN MEMORY LIKE ARRAYS, LINKED LIST AND TREES	U	1,2
	UNDERSTANDING OF VARIOUS SEARCHING AND SORTING ALGORITHM INCLUDING INSERTION SORT, SELECTION SORT AND QUICK SORT	U	1,2
	DESCRIBE THE HASH FUNCTION AND CONCEPTS OF COLLISION AND ITS RESOLUTION METHODS	U	1,2
	DEMONSTRATE ADVANTAGES AND DISADVANTAGES OF SPECIFIC ALGORITHMS AND DATA STRUCTURES	APPLY	1,2

COURSE	DETAILS
CODE	CS3CRP03
TITLE	DATA STRUCTURE USING C++
DEGREE	B.SC.
BRANCH	COMPUTER SCIENCE
YEAR/SEMESTER	II/III
TYPE	CORE PRATICALS
INSTRUCTOR(S)	ANGITHA JEESIS C
CREDITS	2

CO NO.	COURSE OUTCOME	CL	PSO
1	TO DEVELOP SKILLS TO DESIGN AND ANALYZE SIMPLE LINEAR AND NON-LINEAR DATA STRUCTURE	APPLY	1
2	ABILITY TO IDENTIFY TO GAIN KNOWLEDGE IN PRATICAL APPLICATIONS OF DS	U	1
3	ABLE TO UNDERSTAND AND APPLY VARIOUS DS SUCH AS STACKS, QUEUE, TREES.	U	1

## SEMESTER IV

COURSE	DETAILS
CODE	CS4CRT10
TITLE	LINUX ADMINISTRATION
DEGREE	B.SC.
BRANCH	COMPUTER SCIENCE
YEAR/SEMESTER	II/IV
TYPE	CORE
INSTRUCTOR(S)	ATHIRADEVI R
CREDITS	4

CO NO.	COURSE OUTCOME	CL	PSO
1	Understand Unix and Linux Operating System	U	3
2	Implement and innovate commands using the basic tool kit.	APPLY	3
3	Execute the Basic Shell Commands	APPLY	3
4	Identify the skills needed for basic administration	R	3
5	Discuss Simple filter commands	U	3

COURSE	DETAILS
CODE	CS4CRT12
TITLE	COMPUTER AIDED OPTIMIZATION TECHNIQUES
DEGREE	B.SC.
BRANCH	COMPUTER SCIENCE
YEAR/SEMESTER	II/IV
TYPE	CORE
INSTRUCTOR(S)	ANSMOL GEORGE
CREDITS	4

CO NO.	COURSE OUTCOME	CL	PSO
1	Identify and develop operational research models from the verbal description of the real system	U	PSO5
2	Understand the mathematical tools that are needed to solve optimisation problems	U	PSO5
3	understand importance of optimization of industrial process management	U	PSO5
4	Apply basic concepts of mathematics to formulate an optimization problem	APPLY	PSO5
5	Analyse and appreciate variety of performance measures for various optimization problems	A	PSO5

COURSE	DETAILS
CODE	CS4CRT13
TITLE	WEB PROGRAMMING USING PHP
DEGREE	B.SC.
BRANCH	COMPUTER SCIENCE
YEAR/SEMESTER	II/IV
TYPE	CORE
INSTRUCTOR(S)	ANGITHA JEESIS C
CREDITS	4

CO NO.	COURSE OUTCOME	CL	PSO
1	UNDERSTAND,ANALYZE AND APPLY THE ROLE OF LANGUAGE LIKE HTML,CSS,JAVASCRIPT AND PHP	U,A, APPLY	1,2
2	UNDERSTAND,ANALYZE AND BUILD WEB APPLICATIONS USING PHP	U,A, APPLY	1,2
3	ACQUIRE DATABASE CONNECTIVITY WITH PHP	R	1,2
4	KNOWLEDGE OF CLIENT SIDE AND SERVER SIDE SCRIPTING LANGUAGE TO BUILD DYANMIC WEB PAGES	R	1,2

COURSE	DETAILS
CODE	CS4CRP05
TITLE	WEB PROGRAMMING USING PHP

<b>DEGREE</b>	<b>B.SC.</b>
<b>BRANCH</b>	<b>COMPUTER SCIENCE</b>
<b>YEAR/SEMESTER</b>	<b>II/IV</b>
<b>TYPE</b>	<b>CORE</b>
<b>INSTRUCTOR(S)</b>	<b>ANGITHA JEESIS C</b>
<b>CREDITS</b>	<b>2</b>

<b>CO NO.</b>	<b>COURSE OUTCOME</b>	<b>CL</b>	<b>PSO</b>
1	TO DESIGN SIMPLE WEBPAGES USING HTML TAGS AND CSS.	E	2
2	TO CREATE A DYNAMIC WEBSITE.	C	2
3	CREATING A DATABASE FOR STORE CONTENT	C	2

## SEMESTER V

<b>COURSE</b>	<b>DETAILS</b>
<b>CODE</b>	<b>CS5CRT14</b>
<b>TITLE</b>	<b>SYSTEM SOFTWARE AND OPERATING SYSTEMS</b>
<b>DEGREE</b>	<b>B.SC.</b>
<b>BRANCH</b>	<b>COMPUTER SCIENCE</b>
<b>YEAR/SEMESTER</b>	<b>III/V</b>
<b>TYPE</b>	<b>CORE</b>
<b>INSTRUCTOR(S)</b>	<b>ATHIRADEVI R</b>
<b>CREDITS</b>	<b>4</b>

<b>CO NO.</b>	<b>COURSE OUTCOME</b>	<b>CL</b>	<b>PSO</b>
1	Understand The Fundamentals Of Language Processing ,Types Of Programming Language Grammars And Macros	U	3
2	Identify Different Components Of An Assembler And Assembly Language Statements.	R	3
3	Understand Finite State Automata And Parse Tree Construction	U	3
4	Identify Different Components Of A Compiler And Their Functioning.	R	3
5	Explain Code Optimization Techniques And Linking And Relocation Concepts	U	3

6	Describe The Architecture And Components Of Operating System	R	3
7	Explain The Importance Of Process Scheduling And Synchronization.	U	3
8	Summarize The Issues In Deadlocks, Memory Management And File System.	U	3

COURSE	DETAILS
CODE	CS5CRT15
TITLE	IT AND ENVIRONMENT
DEGREE	B.SC.
BRANCH	COMPUTER SCIENCE
YEAR/SEMESTER	III/V
TYPE	CORE
INSTRUCTOR(S)	ANGITHA JEE SIS C
CREDITS	3

NO	COURSE OUTCOME	CL	PSO
1	To Create Awareness About Environmental Issues	C	4
2	To Develop An Attitude Among Students To Activities Regarding Environment Protection	APPLY	4
3	Knowledge About Search Techniques	R	4
4	Recognize The Issues Of Using It In Society And Able To Solve The Issues	A	4
5	Examine The Current And Predicted Quantities Of E-Waste Across The Globe And Investigate The Implications Of These Trends For Your Own Geographical	R	4
6	Explain Four Different Scenarios For E-Waste Disposal Around The World	U	4
7	Understand The Historical Growth Of The Idea Of Human Rights	U	4
8	Demonstrate An Awareness Of The International Context Of Human Rights	U	4
9	Analyse And Evaluate Concepts And Ideas.	A	4

COURSE	DETAILS
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<b>CODE</b>	<b>CS5CRT16</b>
<b>TITLE</b>	<b>JAVA PROGRAMMING USING LINUX</b>
<b>DEGREE</b>	<b>B.SC.</b>
<b>BRANCH</b>	<b>COMPUTER SCIENCE</b>
<b>YEAR/SEMESTER</b>	<b>III/V</b>
<b>TYPE</b>	<b>CORE</b>
<b>INSTRUCTOR(S)</b>	<b>DIVYA S</b>
<b>CREDITS</b>	<b>3</b>

<b>CO NO.</b>	<b>COURSE OUTCOME</b>	<b>Taxonomy</b>	<b>PSO</b>
CO1	Understand the basic oops concept, Java evaluation, features and implementation overview.	Create	PSO2
CO2	Know behaviour of primitive data types, operators and expressions, decision making and branching, decision making and looping	Create	PSO2
CO3	Able to understand classes and methods, array, strings and interfaces concept instead of multiple inheritances	Create	PSO2
CO4	Package of java, multithreaded programming contains synchronization, managing errors and exceptions handling.	Create	PSO2
CO5	Create Java applications with graphical user interface (GUI – AWT, Applet and Swing).	Create	PSO2
CO6	Create the Java event-handling model to respond to events arising from the GUI components	Create	PSO2
CO7	Create database connection in Java	Create	PSO2

<b>COURSE</b>	<b>DETAILS</b>
<b>CODE</b>	<b>CS5CRT17</b>
<b>TITLE</b>	<b>COMPUTER SECURITY</b>
<b>DEGREE</b>	<b>B.SC.</b>
<b>BRANCH</b>	<b>COMPUTER SCIENCE</b>
<b>YEAR/SEMESTER</b>	<b>III/V</b>
<b>TYPE</b>	<b>CORE</b>

<b>INSTRUCTOR(S)</b>	<b>VINU THADEVUS WILLIAMS</b>
<b>CREDITS</b>	<b>4</b>

<b>CO NO.</b>	<b>COURSE OUTCOME</b>	<b>CL</b>	<b>PSO</b>
1	UNDERSTAND PRINCIPLES OF SECURITY ,NEED FOR SECURITY ,THREAD AND ATTACK ASPECTS	U	3
2	ANALYSE DIFFERENT CRYPTOGRAPHY METHOD SUBSTITUTION AND TRANSPOSITION AND ITS ALGORITHMS	ANLZ	1
3	SUMMARIZE DIFFERENT CRYPTOGRAPHY TOOLS PKI DIGITAL SIGNATURE	U	2
4	UNDERSTAND DIFFERENT INTRUDERS AND INTRUSION DETECTION PREVENTION SYSTEM	U	1
5	ANALYSE DIFFERENT NETWORK SECURITY ASPECTS-EMAIL AND IP SECURITY	ANLZ	1
6	EXPLAIN DIFFERENT WEB SECURITY ASPECTS- GATEWAYS FIREWALLS,SSL LAYER SECURITY	U	1

<b>COURSE</b>	<b>DETAILS</b>
<b>CODE</b>	<b>CS5OPT02</b>
<b>TITLE</b>	<b>COMPUTER FUNDAMENTALS, INTERNET &amp; MS OFFICE</b>
<b>DEGREE</b>	<b>B.SC.</b>
<b>BRANCH</b>	<b>COMPUTER SCIENCE</b>
<b>YEAR/SEMESTER</b>	<b>III/V</b>
<b>TYPE</b>	<b>OPEN COURSE</b>
<b>INSTRUCTOR(S)</b>	<b>DIVYA S. &amp; REMYA STEPHEN</b>
<b>CREDITS</b>	<b>4</b>

<b>CO NO.</b>	<b>COURSE OUTCOME</b>	<b>Taxonomy</b>	<b>PSO</b>
CO1	Undertand History and generation of Computers Components of computer, classification of compuer, Concept of Operating System and types of Networks	Undertand	PSO3
CO2	Understand the basic concepts and applications of the Internet and World Wide Web. Also be able to create	Undertand	PSO3

	email account and send / receive emails		
CO3	Understanding basic concepts of Word processing using MS-Word	Undertand	PSO3
CO4	Understanding basic concepts of Electronic spreadsheet and various types of basic entries like Charts, formulas in it	Undertand	PSO3
CO5	Undertand how to create effective presentations and apply Designs to Enhance the looks of the Presentation.	Undertand	PSO3

## SEMESTER VI

COURSE	DETAILS
CODE	CS6CRT18
TITLE	COMPUTER GRAPHICS
DEGREE	B.SC.
BRANCH	COMPUTER SCIENCE
YEAR/SEMESTER	III/VI
TYPE	CORE PRATICALS
INSTRUCTOR(S)	ATHIRADEVI R
CREDITS	4

CO NO.	COURSE OUTCOME	CL	PSO
1	Understand the basics of computer graphics, different display devices and applications of computer graphics.	U	2
2	Identify the algorithmic development of graphics primitives like: point, line, circle, ellipse etc.	R	2
3	Implement 2D and 3D transformations on graphics objects.	APPLY	2
4	Examine 2D Viewing and different clipping methods.	R	2
5	Understand the concept of animation techniques.	U	2

COURSE	DETAILS
CODE	CS6CRT19
TITLE	BIG DATA ANALYTICS

<b>DEGREE</b>	<b>B.SC.</b>
<b>BRANCH</b>	<b>COMPUTER SCIENCE</b>
<b>YEAR/SEMESTER</b>	<b>III/VI</b>
<b>TYPE</b>	<b>CORE</b>
<b>INSTRUCTOR(S)</b>	<b>REMYA STEPHEN</b>
<b>CREDITS</b>	<b>4</b>

<b>CO NO.</b>	<b>COURSE OUTCOME</b>	<b>CL</b>	<b>PSO</b>
1	Understand what Big Data is and why classical data analysis techniques are no longer adequate	U	PSO1
2	Explaining about mining of data streams	U	PSO1
3	Understand the benefits that Big Data can offer to businesses and organisations	U	PSO3
4	Understand the security issues and history of hadoop environment	U	PSO1
5	Learn the applications using big data	U	PSO5

<b>COURSE</b>	<b>DETAILS</b>
<b>CODE</b>	<b>CS6PET01</b>
<b>TITLE</b>	<b>PYTHON AND LATEX</b>
<b>DEGREE</b>	<b>B.SC.</b>
<b>BRANCH</b>	<b>COMPUTER SCIENCE</b>
<b>YEAR/SEMESTER</b>	<b>III/VI</b>
<b>TYPE</b>	<b>CORE</b>
<b>INSTRUCTOR(S)</b>	<b>DIVYA S.</b>
<b>CREDITS</b>	<b>4</b>

<b>CO NO.</b>	<b>COURSE OUTCOME</b>	<b>Taxonomy</b>	<b>PSO</b>
CO1	To understand why Python is a useful scripting language for developers and Interpret the fundamental Python syntax and semantics	U	PSO2

CO2	Describe the Numbers, Math functions, and Strings in Python	U	PSO2
CO3	Express different Control structures in Python	U	PSO2
CO4	Determine the methods to create and manipulate Python programs by utilizing the data structures like lists,dictionaries, tuples and sets.	U	PSO2
CO5	To learn about built in functions and how to write userdefined functions and pass arguments in Python.	U	PSO2
CO6	Understand and summarize different File handling and exception handling operations in Python	U	PSO2
CO7	To understand the basic idea of structuring your documents using Latex.	U	PSO2

## COMPLEMENTARY COURSES

COURSE	DETAILS
TITLE	DISCRETE MATHEMATICS ( I )
DEGREE	B.Sc.
BRANCH	COMPUTER SCIENCE
YEAR/SEMESTER	I/I
TYPE	COMPLEMENTARY
INSTRUCTOR(S)	ANSMOL GEORGE
CREDITS	4

CO NO.	COURSE OUTCOME	CL	PSO
1	UNDERSTAND THE BASIC PROPOSITION AND PREDICATE LOGIC FOR IMPLEMENT HIGH LEVEL LANGUAGE TO COMPUTER LOGIC LANGUAGE	U/APPLY	PSO1
2	ANALYSE DIFFERENT RULES IN LOGIC TO CREATE BETTER MATHEMATICAL OPERATIONS WITH LEAST TIME	ANALYZE/ C	PSO1
3	IDENTIFY DIFFERENT SET OPERATIONS AND COLLECTION OF DATA FOR THE BETTER ARRANGEMENT OF THE COMPUTER DATABASE	R	PSO1
4	ANALYSE THE FUNCTIONS OF SET OPERATIONS FOR IMPLEMENT DIFFERENT REAL WORLD ACTIVITIES IN A COMPUTER LANGUAGE FORMAT	ANALYZE/ APPLY	PSO1

5	IDENTIFY DIFFERENT APPLICATION OF NUMBER THEORY AND PRIME FACTORISATION	R	PSO1
6	ANALYSE BASIC CRYPTOGRAPHICAL IDEAS TO IMPLEMENTING BETTR SECURITY IN COMPUTER SYSTEM	ANALYZE/ APPLY	PSO1
7	UNDERSTAND DIFFERENT DATAS AND ITS RELATIONSHIP FOR CREATING A BETTER DATABASE MANAGEMNT SYSTEM	U/C	PSO1

COURSE	DETAILS
CODE	CS1CRT01
TITLE	COMPUTER FUNDAMENTALS AND BASICS OF COMPUTER HARDWARE
DEGREE	B.Sc.
BRANCH	COMPUTER SCIENCE
YEAR/SEMESTER	I/I
TYPE	COMPLEMENTARY
INSTRUCTOR(S)	VINU THADEVUS WILLIAMS
CREDITS	4

CO NO.	COURSE OUTCOME	CL	PSO
1	Understand Introduction to Computer and Booting Process	U	PSO1
2	Explain Introduction to Computer Hardware	U	PSO1
3	Understand Expansion Slots	U	PSO1
4	Explain about Input Devices, Data Scanning Devices, Voice Recognition Device, Output Devices	U	PSO1
5	Explain Memory, Secondary memory ,PC memory Units	U	PSO1

COURSE	DETAILS
CODE	CS1CMT01
TITLE	FUNDAMENTALS OF DIGITAL SYSTEMS
DEGREE	B.Sc.

<b>BRANCH</b>	<b>COMPUTER SCIENCE</b>
<b>YEAR/SEMESTER</b>	<b>I/I</b>
<b>TYPE</b>	<b>COMPLEMENTARY</b>
<b>INSTRUCTOR(S)</b>	<b>REMYA STEPHEN</b>
<b>CREDITS</b>	<b>4</b>

<b>CO NO.</b>	<b>COURSE OUTCOME</b>	<b>CL</b>	<b>PSO</b>
1	Understand the concepts of different types of number system and its conversion from one type to another	U	PSO1
2	Summarize different types of logic gates and its digital wave forms	U	PSO1
3	Describe laws and rules of Boolean algebra and Boolean operations	U	PSO1
4	Implementing combinational logic circuit	APPLY	PSO1
5	Explain synchronous and asynchronous circuits and flip flops	U	PSO1

<b>COURSE</b>	<b>DETAILS</b>
<b>TITLE</b>	<b>DISCRETE MATHEMATICS ( II )</b>
<b>DEGREE</b>	<b>B.Sc.</b>
<b>BRANCH</b>	<b>COMPUTER SCIENCE</b>
<b>YEAR/SEMESTER</b>	<b>I/II</b>
<b>TYPE</b>	<b>COMPLEMENTARY</b>
<b>INSTRUCTOR(S)</b>	<b>ANSMOL GEORGE</b>
<b>CREDITS</b>	<b>4</b>

<b>CO NO.</b>	<b>COURSE OUTCOME</b>	<b>CL</b>	<b>PSO</b>
1	Understand and analyse different graph theory applications for the better implementation of computer algorithm	U/Analyse	PSO1
2	Implement different tree structure for the computer searching algorithm	Apply	PSO1
3	Create different switching and logic gates applications for the implementation of increase the performance of computer components	C	PSO1

4	Evaluate different matrix operations for analysing data orientation of computers	E	PSO1
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COURSE	DETAILS
CODE	CS2CRT03
TITLE	DATA COMMUNICATION
DEGREE	B.Sc.
BRANCH	COMPUTER SCIENCE
YEAR/SEMESTER	I/II
TYPE	COMPLEMENTARY
INSTRUCTOR(S)	VINU THADEVUS WILLIAMS
CREDITS	4

CO NO.	COURSE OUTCOME	CL	PSO
1	UNDERSTAND AND ANALYSE PRINCIPLES OF DATA AND SIGNALS FOR BETTER DATA TRANSMISSION	U	3
2	ANALYSE DIFFERENT TRANSMISSION MEDIA FOR CONTROL THE DATA COMMUNICATION IN EFFECTIVE MANNER	ANLZ	1
3	SUMMARIZE DIFFERENT ANALOG AND DIGITAL TRANSMISSIONS FOR PROPER COMMUNICATION	U	2
4	UNDERSTAND DIFFERENT SWITCHING TECHNOLOGY AND CABLE CONNECTION FOR COMMUNICATION IMPLEMENTATION	U	1
5	ANALYSE DIFFERENT COMPLETE DATA COMMUNICATION SCHEMES FOR BETTER DATA TRANSMISSION THROUGH COMMUNICATION CHANEL	ANLZ (COMMON)	1

COURSE	DETAILS
CODE	ST3CMT01
TITLE	STATISTICAL METHODS AND PROBBABILITY THEORY
DEGREE	B.SC.
BRANCH	COMPUTER SCIENCE
YEAR/SEMESTER	II/I



<b>TYPE</b>	<b>COMPLEMENTARY</b>		
<b>INSTRUCTOR(S)</b>	<b>ANSMOL GEORGE</b>		
<b>CREDITS</b>	<b>4</b>		
<b>CO NO.</b>	<b>COURSE OUTCOME</b>	<b>CL</b>	<b>PSO</b>
1	UNDERSTAND THE COCEPTS OF POPULATION AND SAMPLE	U	PSO5
2	UNDERSTAND DIFFERENT TYPES OF DATA, DIFFERENT TYPES OF SCALE, COLLECTION OF DATA AND DIFFERENT TYPES OF RANDOM SAMPLES	U	PSO5
3	RECOGNISE CENTRAL TENDENCY AND VARIOUS MEASURES OF CENTRAL TENDENCY	R	PSO5
4	EVALUATE MEASURES OF DISPERSIONS AND CHECK VARIABILITY AND CONSISTENCY	E	PSO5
5	EVALUATE PROBABILITIES AND CONDITIONAL PROBABILITIES	E	PSO5
6	EVALUATE EXPECTATIONS OF RANDOM SAMPLES	E	PSO5
7	APPLY SELECTED PROBABILITY DISTRIBUTIONS TO SOLVE PROBLEMS.	APPLY	PSO5
8	APPLY PROBLRM SOLVING TECHNIQUES TO SOLIVING REAL WORLD EVENTS	APPLY	PSO5
9	DEVELOP PROBLEM SOLVING TECHNIQUES NEEDED TO ACCURATELY CALCULATE PROBABILITIES	ANALYZE	PSO5
10	DESIGNS BOX PLOT	C	PSO5

<b>COURSE</b>	<b>DETAILS</b>
<b>CODE</b>	<b>CS3CRT08</b>
<b>TITLE</b>	<b>NETWORKING FUNDAMENTALS</b>
<b>DEGREE</b>	<b>B.SC.</b>
<b>BRANCH</b>	<b>COMPUTER SCIENCE</b>
<b>YEAR/SEMESTER</b>	<b>II/III</b>
<b>TYPE</b>	<b>COMPLEMENTARY</b>
<b>INSTRUCTOR(S)</b>	<b>REMYA STEPHEN</b>
<b>CREDITS</b>	<b>4</b>

<b>CO NO.</b>	<b>COURSE OUTCOME</b>	<b>CL</b>	<b>PSO</b>
1	Know the basic of networks and connections in network	U	PSO2
2	Learn the network types reference model and layers in network	U	PSO2

3	Summarize the different types of protocols such as RPP, DHCP, ARP, RAP	U	PSO2
4	Understand the routing algorithm and protocols that are used in network communication.	U	PSO1
5	Explain various information security techniques to safe guard the valuable information from one end to another	U	PSO4

COURSE	DETAILS
CODE	CS4CRT11
TITLE	MICROPROCESSORS AND ASSEMBLY LANGUAGE PROGRAMMING
DEGREE	B.SC.
BRANCH	COMPUTER SCIENCE
YEAR/SEMESTER	II/IV
TYPE	COMPLEMENTARY
INSTRUCTOR(S)	REMYA STEPHEN
CREDITS	4

CO NO.	COURSE OUTCOME	CL	PSO
1	Learn 8085architecture and programming in assembly language	U	PSO3
2	Understand the basic concepts of interfacing memory and peripheral devices to a microprocessor	U	PSO3
3	Know the procedures and operations in 8086	U	PSO3
4	Explain various advanced processor architectures	U	PSO3
5	Explain 80286 microprocessor	U	PSO3

COURSE	DETAILS
CODE	CS4CRP04
TITLE	MICROPROCESSORS AND ASSEMBLY LANGUAGE PROGRAMMING
DEGREE	B.SC.
BRANCH	COMPUTER SCIENCE
YEAR/SEMESTER	II/IV
TYPE	COMPLEMENTARY PRATICALS

<b>INSTRUCTOR(S)</b>	<b>REMYA STEPHEN</b>
<b>CREDITS</b>	<b>2</b>

CO NO.	COURSE OUTCOME	CL	PSO
1	Learn assembling and disassembling of PC	U	PSO1
2	Experience with Assembly Language programming	U	PSO1
3	Study interfacing of peripheral devices with 8086 microprocessor.	U	PSO3
4	Understand techniques for faster execution of instructions and improve speed of operation and performance of microprocessors.	U	PSO1
5	Learn fundamentals of designing embedded systems	U	PSO5

## B.Com Computer Application

### SEMESTER 1

#### Core Course 1: DIMENSIONS AND METHODOLOGY OF BUSINESS STUDIES

Course Code: CO1CRT01

Instructional hours: 54

Credit:2

Teacher in charge: Mrs Jini Jacob

Sl No	Course Outcome	PSO – CO
CO 1	To familiarize students about the concepts of business and its environment	PSO 1
CO 2	To give an insight into various models of environment analysis	PSO 1
CO 3	Make students aware of the stages and development of business in the Indian economy since independence and also introduce them to recent economic initiatives	PSO 5
CO 4	Update students with technology integration in business including E-commerce, E-business, M-commerce and E – payment systems.	PSO 1
CO 5	Make students aware of the importance of following ethics in business practices and also to familiarize them with the concepts of CSR, corporate governance and its importance	PSO 4 PSO 6
CO 6	To have an understanding of business research and its importance	PSO 7

#### Core Course 2: FINANCIAL ACCOUNTING 1

Course code : CO1CRT03

Instructional Hours: 90

Credit : 4

Teacher In charge :Ms. Harsha Thomas

CO NO.	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	Explain the basic financial accounting concepts	R,U	PSO1, PSO4
CO2	Prepare final accounts of sole trader	AP	PSO10, PSO7
CO3	Prepare final accounts from incomplete records	AP	PSO10, PSO7
CO4	Able to maintain books under royalty accounts	AP	PSO10, PSO7
CO5	Prepare accounts for consignment	AP	PSO10, PSO7
CO6	Able to maintain books under farm accounting	AP	PSO10, PSO7

### **Core Course 3: CORPORATE REGULATIONS AND ADMINISTRATION**

Course Code: CO1CRT01

Instructional hours : 72

Credit : 3

Teacher in charge: Ms. Chinnumol Sasindran

Code	Course Outcome	PSO-CO
<b>CO1</b>	Recognize company as a form of business and identify various types of companies	PSO 5
<b>CO2</b>	Understand the provisions of Companies Act 2013 with respect to formation, administration and winding up of companies	PSO 7
<b>CO3</b>	Demonstrate knowledge of administration and management of companies	PSO 7
<b>CO4</b>	Understand the various provisions of Companies Act with respect to share capital	PSO 5, PSO 7
<b>CO5</b>	Basic awareness about the legal framework of company administration	PSO 2, PSO 5

### **Complementary course 1: BANKING & INSURANCE**

Course Code: CO1CMT01

Credit: 3

Instructional Hours: 72

Teacher In-charge: Ms. Ashna Varkey

SI No	Course Outcome	PSO – CO
CO 1	To familiarize the students with the basic concepts and practice of Banking and Insurance.	PSO 1 PSO 5
CO 2	To familiarize the students with the changing scenario of Indian banking and Insurance sector.	PSO 1 PSO 5

CO 3	To make the students explore with the fundamental principles of banking and insurance.	PSO 1 PSO 5
CO 4	To prepare students for a professional base in the field of banking and insurance, thus making it easier to secure jobs in these sectors.	PSO 7

## SEMESTER II

### Core Course 4: FINANCIAL ACCOUNTING II

Course Code: CO2CRT04

Credit: 4

Instructional Hours: 90

Teacher In charge: Ms. Harsha Thomas

CO NO.	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	Able to make necessary journal entries in the books of records under hire purchase method	U, R, AP	PSO 2 PSO 7 PSO10
CO2	To familiarize the concept of branch account & prepare accounts of branches	U, R, AP	PSO 2 PSO 7 PSO10
CO3	Prepare departmental accounts	U, AP	PSO 2 PSO 7 PSO10
CO4	Prepare financial statements for partnership firm on dissolution of the firm	U, AP	PSO2 PSO7 PSO10
CO5	To make them aware about accounting standards	U, R	PSO2 PSO7 PSO10

### Course 5: Business Regulatory Framework

Course Code: CO2CRT05

Credit: 3

Instructional Hours: 72

Teacher In-charge: Ms. Chinnu mol Sasindran

Code	Course Outcome	PSO-CO
CO1	Basic awareness about the legal framework influencing business transactions and decisions	PSO 2 PSO 5
CO2	Demonstrate the knowledge of Mercantile law	PSO 2 PSO 5 PSO 7
CO3	Understand the various legal provisions relating to special contracts.	PSO 5
CO4	Knowledge of the fundamental aspects of law of agency and Sale of goods Act 1930	PSO 5 PSO 7

#### Core Course -6: BUSINESS MANAGEMENT

Course Code: CO2CRT06

Credit: 3

Instructional Hours: 54

Teacher In-charge: Ms. Aleena Joseph

CO No:	COURSE OUTCOME	Cognitive Level	PSO No:
CO 1	Basic knowledge and understanding about business management concept	U	PSO 1 PSO 5
CO 2	Understanding functional areas of business & management and how these functions are leveraged in organizations	U	PSO 1 PSO 5
CO 3	Understanding the process and types of plans and barriers for effective planning	U	PSO 1 PSO 5
CO 4	Understanding the techniques of effective coordination,	U	PSO 1 PSO 5
CO 5	Understanding the concepts and theories of leadership and motivation	U	PSO 1 PSO 5
CO 6	Understanding various management techniques	U	PSO 1 PSO 5

#### Complementary Course 2: PRINCIPLES OF BUSINESS DECISIONS

Course Code: CO2CMT02

Credit: 3

Instructional Hours: 72

Teacher In-charge: Ms. Ashna Varkey

Sl No	Course Outcome	PSO – CO
CO 1	understand the economic concepts and theories in business decision making.	PSO 1 PSO 2 PSO 5
CO 2	understand the demand theory and to forecast short-term and long-term demand.	PSO 1 PSO 2
CO 3	understand the theories of production and to make profitable production decisions.	PSO 2
CO 4	plain how firms use cost analysis to make business decisions.	PSO 2
CO 5	compare the behavior and pricing in different markets such as perfect competition, monopoly, monopolistic competition and oligopoly.	PSO 2

### SEMESTER III

#### Core Course 7: CORPORATE ACCOUNTING 1

Course Code: CO3CRT07

Instructional Hours: 90

Credit :4

Teacher in charge: Mr. AnilKumar

Code	Course Outcome	PSO-CO
CO1	Understand the legal aspects of shares and debentures with regard to Companies Act 2013	PSO 5
CO2	Demonstrate the treatment of various accounting issues regarding shares and debentures of a company	PSO 10 PSO 7
CO3	Understand the various aspects of final accounts of companies	PSO 5 PSO 10 PSO 7
CO4	Apply the accounting concepts in preparation of financial statements of companies	PSO 10 PSO 7
CO5	Employ problem solving skills in investment accounts	PSO 10
CO6	Understand the concept of insurance claim and calculate insurance claims	PSO 10

### **Core Course 8: QUATITATIVE TECHNIQUES FOR BUSINESS- I**

Course Code:CO3CRT08

Instructional Hours: 90

Credit: 4

Teacher in Charge: Ms.ANSMOL GEORGE

SI No	Course Outcome	PSO
CO 1	To make the students to understand the role of statistics and quantitative techniques.	PSO 5
CO 2	To familiarize the students the basic tools in statistics.	PSO 2
CO 3	To acquaint them with the measurement of central tendency and dispersion.	PSO 2
CO 4	To make students aware of interpolation and extrapolation.	PSO 2

### **Core Course 9: FINANCIAL MARKETS& OPERATIONS**

Course code :CO3CRT09

Instructional Hours: 72

Credit: 3

Teacher in charge : Ms.Harsha Thomas

CO No:	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	Understand the various concepts and functioning of the financial system.	R, U	PSO 1,5,8
CO2	Familiarization with the Indian financial system and the financial market operations in India.	R, U	PSO 5,8
CO3	Increased awareness of the current structure and regulation of the Indian financial services sector.	U	PSO 5,8
CO4	Understand in detail, the functioning of the Primary and the Secondary markets.	U	PSO 8
CO5	Better understanding of the trading in the Indian Financial markets.	U	PSO 8
CO6	Understand the functioning of mutual funds and their role in increasing investments in India.	U	PSO 8
CO7	Familiarization with the hedging instrument-' Derivatives'.	U	PSO 7,8
CO8	Better understanding of forwards, futures, options and Swaps	U	PSO 7,8

### **Core Course 10: MARKETING MANAGEMENT**

Course Code:CO3CRT10



Instructional Hours: 54

Credit: 3

Teacher in Charge: Mrs Jini Jacob

Sl No	Course Outcome	PSO – CO
CO 1	To have an understanding of the concept of marketing management and its various aspects	PSO 1
CO 2	To familiarize students with product mix, product life cycle and product development	PSO 1
CO 3	To have an understanding on the concepts of branding, brand equity and related aspects	PSO 1
CO 4	Make students aware of various pricing methods and strategies	PSO4
CO 5	Help students to understand logistics and supply chain management	PSO 5
CO 6	To have an insight about physical distribution mix and the concepts of retailing	PSO 5
CO 7	To familiarize students with recent trends in marketing	PSO 4

**Optional Course : INFORMATION TECHNOLOGY FOR BUSINESS**

Course Code: CO3OCT02

Instructional Hours: 90

Credit: 1

Teacher in Charge: Mrs. ANGITHA JEESIS C

NO	COURSE OUTCOME	CL	PSO
1	Gain knowledge on hardware and software and its recent development	R	5
2	Understand data processing system and networking concepts	U	5
3	Able to understand the types of computer system and generations of computer	U	5
4	Define and analyze the principles of e-commerce and basis of www	A	5
5	Acquire about the crimes and protection of security in internet	R	5
6	Apply html tags for designing webpages	APPLY	5

## SEMESTER IV

### Core Course 11: CORPORATE ACCOUNTING II

Course Code: CO4CRT11

Credit: 4

Instructional Hours: 108

Teacher In-charge: Ms. Chinnu mol Sasindran

Code	Course Outcome	PSO-CO
<b>CO1</b>	Understand the legal aspects relating to the accounts of insurance and banking companies, amalgamation, absorption, internal reconstruction external reconstruction and liquidation of companies	PSO 5
<b>CO2</b>	Understand the various aspects of accounts of banking companies and insurance companies	PSO 5 PSO 10 PSO 7
<b>CO3</b>	Apply the accounting concepts in preparation of financial statements of banking and insurance companies	PSO 10 PSO 7
<b>CO4</b>	Demonstrate the knowledge of accounting treatment and the ability to apply them to solve problems regarding amalgamation, absorption, internal reconstruction, external reconstruction and liquidation of companies.	PSO 10 PSO 7

### Core Course 12: QUANTITATIVE TECHNIQUES FOR BUSINESS II

Course Code: CO4CRT12

Credit: 4

Instructional Hours: 108

Teacher In-charge: Ms. Ansmol George

CO No:	COURSE OUTCOME	Cognitive Level	PSO No:
CO 1	The course is intended to familiarise the students to take right business decisions.	U	PSO 2
CO 2	To enable the students to apply the statistical tools like estimation, index numbers in business activities.	U	PSO 1
CO 3	The course is provided for the practical application about various time series analysis	U	PSO 4
CO 4	To enable the students to know about probability and to	U	PSO 1

	apply the same in business decision making		
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**Core Course 13: Entrepreneurship Development and Project Management**

Course Code: CO4CRT13

Credit: 4

Instructional Hours: 90

Teacher In-charge: Ms. Harsha Thomas

CO No:	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	Understanding the basics of entrepreneurship.	U	PSO 1
CO 2	Understanding the discipline of project management	U	PSO 1,7
CO 3	Develop entrepreneurial spirit among students	U	PSO 1, 4
CO 4	Empower students with sufficient knowledge to start up their venture with confidence	U	PSO 1,6
CO 5	Inspire young minds to take up challenges and become employer rather than seeking employment and to make them aware of the opportunities and support for entrepreneurship in India	U	PSO 1

**Optional Core II : INFORMATION TECHNOLOGY FOR OFFICE**

Course Code: CO4OCT02

Credits: 4

Instructional Hours: 90

Teacher- In- Charge: Mrs. Angitha Jeesis C

CO .NO	COURSE OUTCOME	CL	PSO
1	Create, edit, save, and print documents to include documents with lists and tables.	C	5,7
2	Create documents and templates, add text into documents using various methods, and apply different formatting styles to characters and paragraphs.	C	5,7
3	Examine slide show presentation concepts and explore the Microsoft office power point environment	A	5,7
4	To create future excel spreadsheets with ease and comfort	C	5,7
5	To develop formulas to simplify calculations	APPLY	5,7

## SEMESTER V

### Core Course 14: COST ACCOUNTING-I

Course Code: CO5CRT14

Instructional hours : 90

Credit : 4

Teacher in charge : Mrs. Jini Jacob

Code	Course Outcome	PSO-CO
CO1	Explain the basic concepts, methods and Techniques of cost accounting	PSO 1, PSO 7, PSO 5
CO2	Recognize the place of cost accounting in business and management	PSO 7, PSO 5
CO3	Demonstrate how material and labour costs are accounted	PSO 7, PSO 10
CO4	Attain problem solving skills in areas of overhead allocation and absorption	PSO 7, PSO 10
CO5	Understand the concept of cost control with respect to cost elements	PSO 7, PSO 10
CO6	Prepare cost sheet and reconcile cost accounts with financial accounts	PSO 7, PSO 10

### Core Course 15: ENVIRONMENT MANAGEMENT AND HUMAN RIGHTS

Course Code: CO5CRT15

Instructional Hours: 90

Credit: 4

Teacher In-charge: Ms. Aleena Joseph

CO No:	COURSE OUTCOME	Cognitive Level	PSO No:
CO 1	Understanding the basics of Environment	U	PSO 9
CO 2	Understand the concept of environment and various resources – renewable and non-renewable.	R, U	PSO 9
CO 3	Develop sensitivity for the natural, physical and human resources in the immediate environment.	R, U	PSO 9
CO 4	Understand the environmental issues and become sensitized towards it.	R, U & An	PSO 9
CO 5	Understand various control and prevention measures to eradicate environment problems.	U	PSO 9
CO 6	Understand the role and functions of different institutions in protecting the environment.	U	PSO 9, 5

CO 7	Increase awareness about the Human Rights in India.	R, U & An	PSO 9
CO 8	Understand the importance of equality in the society and to increases their awareness about the prevailing human rights violation issues.	R, U & An	O 9, 2

### Core Course 16: FINANCIAL MANAGEMENT

Course Code: CO5CRT16

Instructional Hours:

Credit: 4

Teacher In-charge: Mrs. Tintu Jobin

CO No:	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	Familiarize the students with the basic concepts of finance and its management	U	PSO 1,2
CO 2	Familiarize the students with the value of money over time and its uses.	U,Ap	PSO 2,5
CO 3	have an understanding on the concepts of cost of debt, cost of equity, cost of retained earnings, leverage and its applications	U, Ap	PSO 2,5
CO 4	make students aware of Risk factors, capital structure and its theories	U, R,An	PSO 2,5
CO 5	enable the students to be capable of making investment decision	U,An, Ap	PSO 2
CO 6	familiarize the students with the concept of management of working capital	U,An, Ap	PSO 2,5
CO 7	make students aware of various types dividend policies	U, R,An	PSO 2,5

### Optional Course III: COMPUTERISED ACCOUNTING

Course Code: CO5OCT02

Instructional Hours:90

Credit: 4

Teacher In-charge: Ms. Chinnu mol Sasindran

SI No	Course Outcome	PSO - CO
CO 1	To introduce the students about the basics of tally	PSO 3 PSO 4
CO 2	To provide practical knowledge about inventory and tax related problems solving in tally	PSO 3

		PSO 10
CO 3	To make the students explore with the payroll access in tally	PSO 3 PSO 4
CO 4	Develop the students about application of tally as an accounting software	PSO 3

**Open Course : FUNDAMENTALS OF ACCOUNTING**

Course code: CO5OP03

Instructional Hours: 72

Credit: 3

Teacher in charge: Ms. Harsha Thomas

CO No.	Course Outcome	PSO - CO
CO 1	To familiarize the students the basic terms, concepts, conventions and principles of accounting.	PSO 1 PSO 4
CO 2	make the students aware of preparing Journal and ledger entries.	PSO 5
CO 3	To enable the students to familiarize with preparation of petty cash book and triple column cash book.	PSO 5
CO 4	To familiarize the students with the preparation of Trial balance and final accounts.	PSO 5

**Open Course : FUNDAMENTALS OF ACCOUNTING**

Course code: CO5OP03

Instructional Hours: 72

Credit: 3

Teacher in charge: Ms. Harsha Thomas

CO No.	Course Outcome	PSO - CO
CO 1	To familiarize the students the basic terms, concepts, conventions and principles of accounting.	PSO 1 PSO 4
CO 2	To make the students aware of preparing Journal and ledger entries.	PSO 5
CO 3	To enable the students to familiarize with preparation of petty cash book and triple column cash book.	PSO 5
CO 4	To familiarize the students with the preparation of Trial balance and final accounts.	PSO 5

## SEMESTER VI

### Core Course 17: COST ACCOUNTING- II

Course Code: CO6CRT18

Credit: 4

Instructional Hours: 108

Teacher In-charge: Mrs. Jini Jacob

Code	Course Outcome	PSO-CO
CO1	Identify the different methods and techniques of costing applicable for different types of industries.	PSO 5
CO2	Apply the methods and techniques of costing to the determination cost in various industries.	PSO 2 PSO 7 PSO 10
CO3	Assess the concept and relevance of marginal costing and Break even analysis and employ them as tools for planning and decision making	PSO 2 PSO 7, PSO 10
CO4	Understand the concept of budget and budgetary control and prepare various budgets	PSO 2 PSO 7, PSO 10

### Core Course 19: ADVERTISEMENT AND SALES MANAGEMENT

Course Code: CO6CRT18

Credit: 3

Instructional Hours: 72

Teacher In-charge: Mrs. Tintu Jobin

CO No:	COURSE OUTCOME	Cognitive Level	PSO No:
CO 1	Understand the concepts of advertising	U	PSO1, 2
CO 2	Identify and make decisions regarding most feasible advertising appeal and media	U	PSO 2,5
CO 3	Understand the need for advertisement research	U	PSO 2, 5
CO 4	Understand the nature and importance of sales promotion, its role in marketing	U	PSO 1,2,5
CO 5	Enable the students to develop skills required for personal selling and salesmanship	U	PSO 1,2,5

### Core Course 19: AUDITING AND ASSURANCE

Course Code: CO6CRT19

Credit: 4

Instructional Hour:90

Teacher In-charge: Ms. Chinnu mol Sasindran

CO No:	COURSE OUTCOME	Cognitive Level	PSO No:
CO 1	Understand the basics of Auditing.	U	PSO 5,7
CO 2	Familiarization with the role that audits (both internal and external) play, their purpose, and the value that they provide	U	PSO 5,7
CO 3	Understand the principles and procedure of auditing	U	PSO 5,7
CO 4	Enable the students to understand the duties and responsibilities of auditors and to undertake the work of auditing.	U	PSO 5,7

### **Core Course 20 : MANAGEMENT ACCOUNTING**

Course Code: CO6CRT20

Credit: 4

Instructional Hour:90

Teacher In-charge: Ms. Aleena Joseph

CO No:	COURSE OUTCOME	Cognitive Level	PSO No:
CO 1	Understand the basic concepts and tools of management accounting	U	PSO 1,2, 5,7,10
CO 2	Compare and contrast financial and managerial accounting	U, Ap	PSO 1,2, 5,7,10
CO 3	Knowledge about the types of financial statements and the techniques of analysis	U	PSO 1,2, 5,7,10
CO 4	Employ various techniques of analysis of financial statements and to draw conclusions from them	Ap	PSO 1,2, 5,7,10
CO 5	Analyse an organisations performance using trend analysis and ratio analysis	R, An	PSO 1,2, 5,7,10
CO 6	Identify cash flows resulting from operating, investing and financing activities.	R, Ap	PSO 1,2, 5,7,10
CO 7	Prepare a statement of cash flow and fund flow	U, R, Ap	PSO 1,2, 5,7,10



CO 8	Develop the ability to collect, analyze, and communicate information to make more effective planning and control decisions.	U, Ap	PSO 1,2, 5,7,10
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#### Optional Core IV: SOFTWARE FOR BUSINESS AND RESEARCH

Course Code: CO6OCT02

Credit: 4

Instructional Hour:90

Teacher In-charge: Mr. Vinu Thadevus Williams

CO NO.	COURSE OUTCOME	CL	PSO
1	Understand principles of different data analysis schemes	U	1
2	Analyse different the software spss for better data analysis and research application	An	1
3	Summarize different data transformation schemes	U	1
4	Analyse different different lib.office writer operations and functions for better calculation in business implementation and research studies	An	1
5	Analyse different lib.office calc operations and functions for better calculation in business implementation	An	1
6	Explain different ideas and related to software implementation for business and research studies	U	1
7	Apply different spss and libre office writer and calc implementation for better research implementation and business studies.	Ap	1

## BA English Model III

SEMESTER:1

### METHODOLOGY OF HUMANITIES AND LITERATURE

Course	Details
Course Code	ENCR1
Title	Methodology of Humanities and Literature
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	1
Type	Core
Credits	4
Hours	90

SL	COURSE OUTCOME	CL	PSO
1	Understand language and meanings are shaped by culture and context.	Understand	PSO8 PSO9 PSO6
2	Interpret the impact of language changes in relation to class, race, gender etc	Understand	PSO8 PSO9 PSO6
3	Focus on how audience and purpose affect the structure and content of texts.	Analyze	PSO8 PSO9 PSO6
4	Compare and contrast how natural and social science and humanities explore reality.	Understand	PSO8 PSO9 PSO6
5	Identify different narrative modes of thinking.	Analyze	PSO8 PSO9 PSO6

#### HISTORY OF ENGLISH LITERATURE TILL ROMANTIC PERIOD

Course	Details
Course Code	ENCJ1
Title	History of English Literature till Romantic Period
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	1
Type	Core
Credits	4
Hours	90

CL	COURSE OUTCOME	CL	PSO
1	Recall and define the major events of history of English literature.	Remember	PSO5 PSO6
2	Summarize the characteristics of different literary ages.	Understand	PSO4
3	Draw complex connections between text and their historical context, cultural environment, and literary history.	Apply	PSO9
4	Compare and contrast the various ages to appreciate ambiguity and complexity	Analyse	PSO5 PSO6 PSO7
5	Analyse the influence of every age on its literary output.	Analyse	PSO5 PSO6 PSO7

### READING AND COMPREHENSION

Course	Details
Course Code	ENCJ2
Title	Reading and Comprehension
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	1
Type	Core
Credits	4
Hours	90

### INTRODUCTION TO JOURNALISM AND PRINT MEDIA

Course	Details
Course Code	ENCJ3
Title	Introduction to Journalism and Print Media
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	1
Type	Core
Credits	4
Hours	90

CL	COURSE OUTCOME	CL	PSO
1	Integrate Critical thinking skills while generating, consuming and evaluating messages in relevant communication contexts	Analyze	PSO3 PSO5 PSO7
2	Understand the working patterns of various print media platforms.	Understand	PSO2
3	Understand the theory, methods, and practice of gathering information and writing news.	Understand	PSO1 PSO2
4	Identify the technical terms and jargons of media writing.	Remember	PSO2
5	Analyze the features that characterize the historical development of media.	Analyze	PSO1 PSO2

## PUBLIC RELATIONS

Course	Details
Course Code	ENCJ4
Title	Public Relations
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	1
Type	Core
Credits	4
Hours	90

SL	COURSE OUTCOME	CL	PSO
1	Analyze numerous media channels for public comment about a company and its products	Analyze	
2	Identify the professional and social requirements of business	Analyze	
3	Apply strategic messaging to communicate with the audience and successfully reach the objective	Apply	
4	Recognise the advantages and responsibilities of PR in the modern world	Remember	
5	Understand the role of women in public relations	Understand	

## SEMESTER: 2

### EDITING AND FUNDAMENTALS OF MEDIA WRITING

Course	Details
Course Code	ENCJ5
Title	Editing and Fundamentals of Media Writing
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	2
Type	Core
Credits	4

Hours	90
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CL	COURSE OUTCOME	CL	PSO
1	Integrate critical thinking skills while generating consuming and evaluating messages in relevant communication contexts	Analyze	PSO7
2	Understand the structure of newsroom operation	Understand	PSO4
3	Compare and contrast the characteristics of all forms of media writing	Understand	PSO2
4	Recognize writing that delivers accurate clear and concise information to a mass audience	Remember	PSO1 PSO2
5	Understand the process of editing for various platforms	Understand	PSO3
6	Describe the elements of news and news values	Understand	PSO1 PSO2 PSO3

#### ENGLISH LITERATURE FROM THE VICTORIAN TO THE POSTMODERN AGE

Course	Details
Course Code	ENCJ6
Title	English Literature from the Victorian to the Postmodern age
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	2
Type	Core
Credits	4
Hours	90

CL	COURSE OUTCOME	CL	PSO
1	Recall and define the major events of history of English literature.	Remember	PSO5 PSO6
2	Summarize the characteristics of different literary ages.	Understand	PSO4

3	Draw complex connections between text and their historical context, cultural environment, and literary history.	Apply	PSO9
4	Compare and contrast the various ages to appreciate ambiguity and complexity	Analyse	PSO5 PSO6 PSO7
5	Analyse the influence of every age on its literary output.	Analyse	PSO5 PSO6 PSO7

### REMEDIAL ENGLISH GRAMMAR

Course	Details
Course Code	ENCJ7
Title	Remedial English Grammar
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	2
Type	Core
Credits	4
Hours	90

CL	COURSE OUTCOME	CL	PSO
1	Understand the key elements of English grammar and formal writing.	Understand	PSO4
2	Identify different parts of speech and elements of effective writing.	Remember	PSO4
3	Implementation of idiomatic language and specific words in communication.	Apply	PSO4
4	Integrate effective use of tenses in academic writing	Analyse	PSO4
5	Identify the common errors and confusions in English grammar	Analyse	PSO4

### CONVERSATIONAL SKILLS

Course	Details
Course Code	ENCJ8
Title	Conversational Skills
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	2
Type	Core

Credits	4
Hours	90

CL	COURSE OUTCOME	CL	PSO
1	Interpret the methodologies and their results in the context of the overall aim of understanding the nature of language.	Understand	PSO4
2	Recognise advance vocabulary for effective communication.	Remember	PSO4
3	Understand the basic nature, branches, and history of linguistic enquiry.	Understand	PSO4
4	Find coherence in the general standard of pronunciation.	Analyse	PSO4
5	Understand the role of communication in personal & professional success	Understand	PSO4

#### INTERPERSONAL SKILLS

Course	Details
Course Code	ENCJ9
Title	Interpersonal Skills
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	2
Type	Core
Credits	4
Hours	90

CL	COURSE OUTCOME	CL	PSO
1	Recognize the significance of interpersonal skills	Remember	PSO4
2	Determine the oral skills and the body language used for effective group discussion	Analyze	PSO4
3	Apply public speaking skills and speaking healthy positive competition	Apply	PSO4
4	Identify effective declamatory skills	Analyze	PSO4

**SEMESTER 3 LITERATURE AND INFORMATICS**

Course	Details
Course Code	ENCR3
Title	Literature and Informatics
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	3
Type	Core
Credits	4
Hours	90

SL	COURSE OUTCOME	CL	PSO
1	Recognize the new opportunities in the IT Industry.	Understand	PS04
2	Comprehend the various ICT Skills.	Understand	PSO2
3	Identify the threats that the IT Industry faces	Remember	PSO5 PSO8

**READING PROSE**

Course	Details
Course Code	ENCR4
Title	Reading Prose
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	3
Type	Core
Credits	4
Hours	90

SL	COURSE OUTCOME	CL	PSO
1	Exemplify suitable intonation, stress, and punctuation of the text.	Understand	PS04
2	Comprehend the various types of prose writing	Understand	PSO5 PSO6



3	Identify the difference between personal and impersonal essays.	Remember	PSO7
4	Relate and reflect on the perspectives of the text.	Apply	PSO5 PSO9
5	Critique the diverse genres and styles of prose	Evaluate	PSO6

### CREATIVE WRITING

Course	Details
Course Code	ENCJ10
Title	Creative Writing
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	3
Type	Core
Credits	4
Hours	90

SL	COURSE OUTCOME	CL	PSO
1	Identify the structure, style and types of various creative literary genres	Remember	PSO7
2	Recognize the elements needed to produce a piece of creative writing.	Remember	PSO7
3	Explain revision suggestions to enhance interpretative ability.	Understand	PSO7
4	Capture and generate ideas for creative writing	Understand	PSO7
5	Produce stories, poems, or literary nonfiction work that are original and relevant.	Create	PSO9

### BUSINESS WRITING

Course	Details
Course Code	ENCJ11
Title	Business Writing
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism

Semester	3
Type	Core
Credits	4
Hours	90

CL	COURSE OUTCOME	CL	PSO
1	Understand the structure and pattern of various forms of professional writing	Understand	PSO6
2	Identify the principles and concepts in Business Journalism	Remember	PSO11
3	Produce Professional workplace documents	Create	PSO11
4	Comprehend the ethics and working patterns of business communication.	Understand	PSO11
5	Compare the structure of different types of business letters.	Understand	PSO11

### BASIC WORD PROCESSING

Course	Details
Course Code	ENCJ12
Title	Basic Word Processing
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	3
Type	Common
Credits	4
Hours	90

CO NO.	COURSE OUTCOME	CL	PSO
1	Understand how to develop a word document	Understand	PSO1
2	Understand and implement the steps to develop a power point presentation	Understand Apply	PSO1
3	Understand various features to develop an Excel worksheet.	Understand	PSO1
4	Distinguish between the various softwares and their applications.	Analyze	PSO7

5	Describe the ethical norms governing the use of Information Technology.	Understand	PSO3 PSO8
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## SEMESTER: 4

### READING POETRY

Course	Details
Course Code	ENCR5
Title	Reading Poetry
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	4
Type	Core
Credits	4
Hours	90

CL	COURSE OUTCOME	CL	PSO
1	Understand the representation of poetry in various periods of the English tradition	Understand	PSO7
2	Determine the rhyme, rhythm, and style of poem	Apply	PSO7
3	Instantiate cultural diversity by introducing them to poetry from a variety of cultures throughout the world	Understand	PSO6 PSO7
4	Critique the quality of the poems of writers	Evaluate	PSO8
5	Compare and contrast the writing styles of poets of different ages.	Analyse	PSO5

### READING FICTION

Course	Details
Course Code	ENCR6
Title	Reading Fiction
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	4
Type	Core

Credits	4
Hours	90

CL	COURSE OUTCOME	CL	PSO
1	Compare and contrast the features of European and non-European fiction	Understand	PSO5
2	Examine the discontents of modern man and woman portrayed in the prescribed novels on the areas of art life sex and morality	Remember	PSO5 PSO6
3	Describe the major trends in fictional writing.	Understand	PSO6
4	List the influences on the various fictional write up	Remember	PSO6
5	Examine the various narrative techniques used in the prescribed novels	Remember	PSO5 PSO6

#### TRANSLATION: THEORY AND PRACTICE

Course	Details
Course Code	ENCJ14
Title	Translation: Theory and Practice
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	2
Type	Core
Credits	4
Hours	90

SL	COURSE OUTCOME	CL	PSO
1	Describe the theories of translation	Remember	PSO6
2	Identify the difference between source language and target language	Analyze	PSO6 PSO7
3	Produce translation on different literary and non-literary texts	Create	PSO6 PSO7 PSO8
4	Analyze the problems of translation in journalism and print media	Analyze	PSO7 PSO8
5	Differentiate the principles underlying the translation of different genres	Analyze	PSO6 PSO8

### RADIO AND TELEVISION JOURNALISM

Course Code	ENCJ15
Title	Radio and Television Journalism
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	2
Type	Core
Credits	4
Hours	90

CL	COURSE OUTCOME	CL	PSO
1	Understand the growth of radio and television in India	Understand	PSO1 PSO2 PSO3
2	Differentiate between types of radio	Understand	PSO1 PSO2 PSO3
3	Create scripts for radio and television programme	Create	PSO1 PSO2 PSO3
4	Identify central issues that can be a matter of news bulletin	Analyze	PSO1 PSO2 PSO3
5	Identify the working pattern of news hours	Remember	PSO1 PSO2 PSO3

### SEMESTER: 5

#### READING DRAMA

Course	Details
Course Code	ENCR7
Title	Reading Drama
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	5
Type	Core
Credits	4
Hours	90

SL	COURSE OUTCOME	CL	PSO
1	Discuss and interpret the various contexts in which the action takes place.	Understand	PSO7
2	Describe the relationship between character, setting and plot.	Understand	PSO5 PSO6
3	Understand the psychological status of characters	Understand	PSO5 PSO7
4	Deconstruct the existing norms of drama.	Apply	PSO5
5	Distinguish the various narrative technique in plays	Analyse	PSO7

#### LANGUAGE AND LINGUISTICS

Course	Details
Course Code	ENCR8
Title	Language and Linguistics
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	5
Type	Core
Credits	4
Hours	90

SL	COURSE OUTCOME	CL	PSO
1	Infer the various processes involved in the generation of meaning	Understand	PSO10
2	Examine linguistic diversity and variability across societies	Remember	PSO10
3	Analyze sounds, words and sentence structures of the language	Analyze	PSO10
4	Understand the complexity of language as a communication system shaped by biological, cultural and social factors.	Understand	PSO10
5	Identify the methodologies used by linguists in qualitative and quantitative analysis of the patterns of language use	Analyze	PSO10

## LITERARY CRITICISM: THEORY AND PRACTICE

Course	Details
Course Code	ENCR9
Title	Literary Criticism: Theory and Practice
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	5
Type	Core
Credits	4
Hours	90

SL	COURSE OUTCOME	CL	PSO
1	development of literary criticism and theory from traditional to formalistic mode	Understand	PSO5
2	Remember the postulates of literary theories.	Remember	PSO6
3	Implement selected theories to specific literary texts.	Apply	PSO6 PSO8
4	Distinguish between western and eastern literary theories.	Evaluate	PSO6 PSO7
5	Identify the political and contextual development of literary studies.	Analyse	PSO6

## POSTCOLONIAL LITERATURES

Course	Details
Course Code	ENCR10
Title	Postcolonial Literatures
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	5
Type	Core

Credits	4
Hours	90

SL	COURSE OUTCOME	CL	PSO
1	Analyze the histories and the presence of colonial mentalities and ways of life in post-colonial locations	Analyze	PSO8
2	Examine the historical discourses of race and ethnicity in a variety of colonial and post-colonial contexts	Remember	PSO7 PSO8
3	Determine the issues of identity and responsible factors for identity formation in the prescribed texts	Apply	PSO5 PSO8
4	Identify the social political cultural aspects of post-colonial societies	Analyze	PSO7 PSO8
5	Examine the links between language history and culture	Remember	PSO5 PSO6

#### OPEN COURSE- ENGLISH FOR CAREERS

Course	Details
Course Code	ENOJ3
Title	English for Careers
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	5
Type	Open Course
Credits	4
Hours	72

SL	COURSE OUTCOME	CL	PSO
1	Illustrate the governing principles of grammar	Understand	PSO4
2	Identify the techniques used for effective composition.	Remember	PSO4
3	Carry out group discussions.	Apply	PSO4



4	Outline a resume integrating their education skills, experiences, and measurable achievements.	Analyse	PS04
5	Appropriate evaluation of soft skills	Evaluate	PS04

## SEMESTER: 6

### WOMEN'S WRITING

Course Code	ENCR11
Title	Women Literature
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	6
Type	Core
Credits	4
Hours	90

CL	COURSE OUTCOME	CL	PSO
1	Analyze the ways in which societal institutions and power structure impact the life of women	Analyze	PSO8 PSO9
2	Understand gender and women's studies as an academic field of study with major concepts	Understand	PSO5 PSO9
3	Attribute feminist theoretical perspectives in problem solving	Analyze	PSO5 PSO6 PSO7
4	Compare and contrast global, regional and local issues and their relationship to women's experience and human rights	Understand	PSO7 PSO8
5	Illustrate various features and techniques employed in poetic art and fictional Prose	Apply	PSO6 PSO7

### INDIAN WRITING IN ENGLISH

Course Code	ENCR12
Title	Indian Writing In English
Degree	B.A

<b>Branch</b>	English Triple Main- Literature, Communication and Journalism
<b>Semester</b>	6
<b>Type</b>	Core
<b>Credits</b>	4
<b>Hours</b>	90

CL	COURSE OUTCOME	CL	PSO
1.	Identify the issue of national identity in various texts.	Remember	PSO5
2.	Examine the unique cultures prevalent in India.	Remember	PSO7 PSO7 PSO8
3.	Compare and contrast the writing style of Indian and Non-Indian	Understand	PSO7 texts.
4.	Determine the artistic and innovative use of language employed by the writers.	Apply	PSO8
5.	Find the specificity of Indian writing in English.	Analyse	PSO6

#### COMPARITIVE LITERATURE

<b>Course Code</b>	ENCR13
<b>Title</b>	Comparative Literature
<b>Degree</b>	B. A
<b>Branch</b>	English Triple Main- Literature, Communication and Journalism
<b>Semester</b>	6
<b>Type</b>	Core
<b>Credits</b>	4
<b>Hours</b>	90

CL	COURSE OUTCOME	CL	PSO
1	Identify various methods employed and shared features of various literatures to make comparative and contrastive analysis of literary texts.	Analyse	PSO8 PSO9
2	Analyse national literatures in the context of a globalizing world, and the texts with their cultural and historical contexts.	Analyse	PSO8 PSO9

3	Compare and contrast literature of different part of the world	Understand	PSO8 PSO9
4	Recall major theories and proponents, key words and components of comparative literature	Remember	PSO6
5	Critique the significance of comparative studies between the given texts	Apply	PSO8 PSO9

#### MASS MEDIA, ADVERTISING, REPORTING AND PHOTO JOURNALISM

Course Code	ENCJ16
Title	Mass Media, Advertising, Reporting And Photo Journalism
Degree	B. A
Branch	English Triple Main- Literature, Communication and Journalism
Semester	6
Type	Core
Credits	4
Hours	90

SL	COURSE OUTCOME	CL	PSO
1	Understand the rules governing different types of reporting and different concepts of media	Understand	PSO1 PSO2
2	Recognize the basic concepts of advertising and its development	Remember	PSO2 PSO3
3	Understand the history and parameters regarding photo journalism	Apply	PSO1 PSO2 PSO3 PSO8
4	Create new electronic media content, design newspaper, print, and media advertisement	Create	PSO1 PSO2 PSO3
5	Understand the working pattern of various form, copy writing skills and so on.	Understand	PSO1

# MSc Mathematics

## COURSE OUTCOMES FIRST SEMESTER M.Sc MATHEMATICS

Course	Details
Code	ME010101
Title	Abstract Algebra
Degree	M.Sc.
Branch	Mathematics
Year/Semester	1 <sup>st</sup> Year / 1 <sup>st</sup> Semester
Type	Core

### ME010101 ABSTRACT ALGEBRA

CO NO.	COURSE OUTCOMES	Cognitive Level	PSO NO.
CO 1	To understand the finitely generated abelian group and its fundamental theorem and fundamental homomorphism theorem	Un	PSO 1
CO 2	To understand group action on a set and to apply G sets to counting	Un, Ap	PSO 1,2,4
CO 3	To understand isomorphism theorems and use them to verify that groups are isomorphic	Un,Ap	PSO 1,4
CO 4	To understand the concepts of Sylow p subgroup and the statement of Sylow theorems	Un	PSO 1,4
CO 5	To apply Sylow theorems to analyse the structure of groups of small order	Ap	PSO 1,2,4
CO 6	To understand and apply Fermat's Little theorem and Euler's theorem	Un,Ap	PSO 1,4
CO 7	To understand and apply division algorithm for polynomial rings	Un,Ap	PSO 1,4
CO 8	To understand and explain the structures of non commutative rings and strictly skew field	Un,An	PSO 1,,2,4
CO 9	To understand factor rings and prime and maximal ideal	Un	PSO 1,4

- Ap-Apply Un-Understand An-Analyze

**ME010102 Linear Algebra**

Course	Details
Code	<b>ME010102</b>
Title	<b>Linear Algebra</b>
Degree	M.Sc.
Branch	Mathematics
Year/Semester	1 <sup>st</sup> Year / 1 <sup>st</sup> Semester
Type	Core

CO NO.	COURSE OUTSOMES	COGNITIVEL EVEL	PSO NO.
CO 1	To understand Vector spaces, subspaces , basis dimension and related theorems	Un	PSO 1
CO 2	To understand more about Linear Transformations, isomorphism, linear functional and how to prove related theorems	Un,Ap	PSO 1,4
CO 3	To understand determinants and its properties	Un	PSO 1
CO 4	To apply various properties determinants for proving theorems	Ap	PSO 4
CO 5	To learn more about characteristic values , rootsand apply it to solve related problems	Un,Ap	PSO 1,4
CO 6	To understand Annihilating polynomials, invariant subspaces ,direct sums and related theorems	Un	PSO 1

- Ap-Apply Un-Understand An-Analyze

Course	Details
Code	<b>ME010104</b>
Title	<b>Real Analysis</b>
Degree	M.Sc.
Branch	Mathematics
Year/Semester	1 <sup>st</sup> Year / 1 <sup>st</sup> Semester
Type	Core

COURSE OUTCOM E NO.	COURSE OUTCOMES	Cognitiv e Level	PSO NO.
CO 1	To understand the fundamental concepts of bounded variation, total variation and their characterisation	Un	PSO 1

	theorems.		
CO 2	To apply properties of bounded variation to characterise rectifiable curves.	Un,Ap	PSO 1,2,4
CO 4	To understand the basic concepts of Riemann-Stieltjes integrals and their properties.	Un	PSO 1
CO 5	To get an ability to check whether a function is Riemann-Stieltjes integrable or not.	Un,Ap	PSO 1,4
CO 6	To understand the fundamental concepts of Point wise convergence and uniform convergence of sequence of functions.	Un	PSO 1
CO 7	To apply various method to check the uniform continuity of a sequence of functions.	Un,Ap	PSO 1,4
CO 8	To understand the fundamental concepts of power series expansion and apply to define exponential and logarithmic functions and their properties.	Un,Ap	PSO 1,2,4
CO 9	To understand fundamental concepts of equicontinuous families of functions.	Un	PSO 1

- Ap-Applied      Un-Understand

Course	Details
Code	<b>ME010105</b>
Title	<b>Graph Theory</b>
Degree	M.Sc.
Branch	Mathematics
Year/Semester	I <sup>st</sup> Year / 1 <sup>st</sup> Semester
Type	Core

CO NO.	COURSE OUTCOMES	Cognitive Level	PSO NO.
<b>CO1</b>	To understand graphs and directed graphs in detail, to prove basic theorems and to find its basic applications in real world.	Un	PSO 1, 4
<b>CO 2</b>	To understand the basic graph classes, graph operators, associated matrices etc.	Un	PSO 1,2
<b>CO 3</b>	To understand various parameters associated with graphs and to prove the relations between them.	Un	PSO 1
<b>CO 4</b>	To understand planar graphs, graph colouring and to prove related famous theorems .	Un	PSO 1,2

<b>CO 5</b>	To understand how graph theory is used to solve optimization problems, communication networks, puzzles, games etc.	Un, Ap	PSO 1,2
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- Ap-ApplyUn-Understand

#### ME010201 : ADVANCED ABSTRACT ALGEBRA

Course	Details
Code	<b>ME010201</b>
Title	<b>ADVANCED ABSTRACT ALGEBRA</b>
Degree	M.Sc.
Branch	Mathematics
Year/Semester	I <sup>st</sup> Year / 2 <sup>nd</sup> Semester
Type	Core

COURSE OUTCOME NO.	COURSE OUTCOMES	Cognitive Level	PSO NO.
CO 1	To get an idea about extension of finite fields, Unique Factorisation Domain and Euclidean domain.	Un	PSO 1,2,4
CO 2	To understand basic concepts of Gaussian integers and multiplicative norms.	Un	PSO 1,2
CO 3	To understand fundamental concepts of automorphism of fields and splitting fields.	Un	PSO 1,2
CO 4	To understand fundamental concepts of Galois Theory and its illustration.	Un	PSO 1,2
CO 5	To get an idea about cyclotomic extension.	Un	PSO 1,2

- Un-Understand

Course	Details
Code	<b>ME010202</b>
Title	<b>AdvancedTopology</b>
Degree	M.Sc.
Branch	Mathematics
Year/Semester	I <sup>st</sup> Year / 2 <sup>nd</sup> Semester
Type	Core

CO NO.	COURSE OUTCOMES	COGNITIVE	PSO NO.
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		LEVEL	
CO 1	To apply the basic ideas of separation axioms	Ap	PSO 4
CO 2	To understand apply Urysohn's lemma	Un,Ap	PSO 1,4
CO 3	To understand basic concepts related to product topology.	UN	PSO 1,2
CO 4	To learn the concept of evaluation function	Un	PSO 1
CO 5	To identify whether a given property is productive	Un	PSO 1,2
CO 6	To understand the notion of Nets and it's convergence	Un	PSO 1,2
CO 7	To understand and apply fundamental theorems .	Un,App	PSO 1,4

**NAME OF THE COURSE : ME010203 NUMERICAL ANALYSIS WITH PYTHON**

Course	Details
Code	<b>ME010203</b>
Title	<b>NUMERICAL ANALYSIS WITH PYTHON</b>
Degree	M.Sc.
Branch	Mathematics
Year/Semester	I <sup>st</sup> Year / 2 <sup>nd</sup> Semester
Type	Core

Course Outcomes No.	Course Outcomes	Cognitive Level	PSO No.
CO 1	To Introduce the basics of Python 3 software. To familiarise different mathematical functions, parameters , operations in Python 3.	Un,	PSO 1, 2
CO 2	To understand symbols, symbolic operations, expression, Solving expressions.	Un ,Ap	PSO 2,3
CO 3	To introduce curve plotting using SymPy.	Un	PSO 2
CO 4	To apply python 3 to solve problems on factor finder, summing a series, solving single variable inequalities.	Ap	PSO 2,5
CO 5	To apply python 3 to find the continuity, differentiability of a function at a point, Maxima and minima of a function, area	Ap	PSO2,5



	between the curves.		
CO 6	To develop programmes to check the continuity of a function, area under the curve, length of a curve etc..	Cr	PSO 7
CO 7	To understand the concept of Interpolation, polynomial Interpolation, various methods.	Un	PSO 4,5
CO 8	To understand different methods of finding the roots of an algebraic or transcendental expressions	Un	PSO 3,5
CO 9	To apply different numerical methods to find the roots of various algebraic as well s transcendental expressions.	Ap	PSO 1,4
CO 10	To apply python 3 to check the approximation of solutions using different numerical methods.	Ap	PSO 4,7

Un- Understand, Ap- Apply, Cr- Create,

Course	Details
Code	<b>ME010204</b>
Title	<b>COMPLEX ANALYSIS</b>
Degree	M.Sc.
Branch	Mathematics
Year/Semester	I <sup>st</sup> Year / 2 <sup>nd</sup> Semester
Type	Core

CO NO.	COURSE OUTSOMES	GNITIVE LEVEL	PSO NO.
CO 1	To understand the concept of Riemann Sphere and stereographic projections.	Un	PSO 1,2,3
CO 2	To get an idea of conformal mapping and its properties.	Un	PSO 1,2,4
CO 3	To understand the fundamental theorems on complex integration.	Un	PSO 1,2,4
CO 4	To get an idea of index point and also express it by using Cauchy's integral formula.	Un	PSO 1,3,4
CO 5	To demonstrate differentiation under the sign of integration.	Un	PSO 1,3,4
CO 6	To get an idea of singularities.	Un, Ap	PSO 1,2,3,4

CO 7	To introduce the concepts of chains and cycles and express Cauchy's theorems on homological aspects.	Un, Ap	PSO 1,2,4
CO 8	To get an idea of residues and by using this find the definite integrals.	Un,Ap	PSO 1,3,4

Ap: Apply Un: Understand

Course	Details
Code	<b>ME010205</b>
Title	<b>Measure Theory and Integration</b>
Degree	M.Sc.
Branch	Mathematics
Year/Semester	1 <sup>st</sup> Year / 2 <sup>nd</sup> Semester
Type	Core

COURSE OUTCOME NO.	COURSE OUTCOMES	Cognitive Level	PSO NO.
CO 1	To understand drawback of Riemann integration and how to overcome this drawback using Lebesgue integration.	Un	PSO 1
CO 2	To implement the new concept "measure" of a set for doing Lebesgue integration.	Un	PSO 1
CO 3	To evaluate Lebesgue integral of functions by approximating the known Riemann integrals of the same functions.	Un	PSO1,4
CO 4	To prove various equalities and inequalities of Lebesgue integrals as generalisations of Riemann integrals	Un	PSO 1
CO 5	To integrate functions which are not Riemann integrable.	Un	PSO 1, 7

Un: Understand, Ap: Apply

Course	Details
Code	<b>ME010301</b>
Title	<b>ADVANCED COMPLEX ANALYSIS</b>
Degree	M.Sc.
Branch	Mathematics
Year/Semester	2 <sup>nd</sup> Year / 3 <sup>rd</sup> Semester
Type	Core

CO No.	COURSE OUTCOMES	COGNITIVE LEVEL	PSO NO.
CO 1	To understand the harmonic functions, subharmonic functions and to prove the famous theorems related to these functions	Un	PSO 1
CO 2	To understand the Dirichlet's problem and its solution briefly	Un	PSO 1
CO 3	To understand the concept of power series and its convergence, absolute convergence and uniform convergence	Un	PSO 1,7
CO 4	To understand the Riemann Zeta function, its product development and its zeroes	Un	PSO 1
CO 5	To understand the Normal families of functions and its relations to a compact set	Un	PSO 1
CO 6	To understand that any simply connected region is topologically equivalent to an open unit disk - Riemann mapping theorem	Un	PSO 1
CO7	To learn how to extend Riemann mapping to the boundary of a simply connected domain using polygons	Un	PSO 1

#### ME010302 PARTIAL DIFFERENTIAL EQUATIONS

Course	Details
Code	ME010302
Title	PARTIAL DIFFERENTIAL EQUATIONS
Degree	M.Sc.
Branch	Mathematics
Year/Semester	2 <sup>nd</sup> Year / 3 <sup>rd</sup> Semester
Type	Core

Course Outcomes No.	Course Outcomes	Cognitive Level	PSO No.
CO 1	To understand the solutions of first order partial differential equations and orthogonal trajectories of a system of curves on a surface.	Un	PSO 1,4
CO 2	To apply various methods to solve first order linear differential equations, pfaffian differential forms.	Ap	PSO 1,2

CO 3	To apply methods to solve non linear partial differential equations of first order.	Ap	PSO 1,2,4
CO 4	To understand Charpit's method, Jacobi's method	Un	PSO 1
CO 5	To understand the origin of second order equations	Un	PSO1
CO 6	To apply various methods to solve equations with variable coefficients .	Ap	PSO 1,2,4
CO 7	To solve the non linear equations of second order and find elementary solutions of Laplace equations.	Ap	PSO 1,4

Un- Understand, Ap- Apply, Cr- Create

### ME010303 : MULTIVARIATE CALCULUS AND INTEGRAL TRANSFORMS

Course	Details
Code	ME010303
Title	MULTIVARIATE CALCULUS AND INTEGRAL TRANSFORMS
Degree	M.Sc.
Branch	Mathematics
Year/Semester	2 <sup>nd</sup> Year / 3 <sup>rd</sup> Semester
Type	Core

CO NO.	COURSE OUTCOMES	GNITIVE LEVEL	PSO NO.
CO 1	To learn Weirstrass theorem, Fourier integral theorem more theorems regarding integral transforms.	Un	PSO 1,2
CO 2	To get an idea about multivariate differential calculus.	Un	PSO 1,4
CO 3	To understand different types of derivatives & Jacobian matrix.	Un	PSO 1,2
CO 4	To understand more about implicit functions.	Un	PSO 1,5
CO 5	To learn Mean value theorem for differentials, proof of Stokes theorem.	Un, Ap	PSO 1,4
CO 6	To understand primitive mapping, partitions and change of variables	Un	PSO 1,4

Un – Understand, Ap – Apply

### ME010304 - FUNCTIONAL ANALYSIS

Course	Details
Code	ME010304
Title	FUNCTIONAL ANALYSIS
Degree	M.Sc.
Branch	Mathematics
Year/Semester	2 <sup>nd</sup> Year / 3 <sup>rd</sup> Semester
Type	Core

CO NO.	COURSE OUTCOMES	COGNITIVE LEVEL	PSO NO.
CO 1	To understand the basic ideas of of the theory of Normed space ,Banach Space.	Un	PSO 1,2
CO 2	To understand the basic ideas of of the theoryInner product space, Hilbert Space.	Un	PSO 1,2
CO 3	To Understand the concept of Linear Operators Defined On Banach space and inner product space.	Un	PSO 2
CO 4	To apply the ideas from linear algebra and the theory of metric space in functional analysis.	Ap	PSO 4
CO 5	To understand and apply fundamental theorems in Banach space including Hahn-Banach theorem	Un, Ap	PSO 2,4
CO 6	To understand the basic theory of bounded linear operators.	Un	PSO 2
CO 7	To apply Zorn's lemma in the theory of Hilbert space.	Ap	PSO 4

Course	Details
Course Code	ME010305
Name of the Course	Optimization Techniques
Hourse Per Week	5
Credit	4

CO No	Course Outcome	Cognitive Level	PSO No
CO 01	Describe the basic concepts of Linear, Integer Programing Problem	Un	PSO 1
CO 02	Apply the basic methods of IPP for solving IPP	Ap	PSO 2,

			PSO 5
CO 03	Use sensitivity analysis to study the effect of changes in solved LP Problems	Ap	PSO 2, PSO 5
CO 04	Analyze the basic flow and potential problems using algorithms	An	PSO 2
CO 05	Describe the importance of iterative procedures in solving the Non-linear programming methods	C	PSO 4
CO 06	Solve the basics of the Game theoretic problems	Ap	PSO 2, PSO 5

Re – Remember, Un – Understand, Ap – Apply, An – Analyze

Course	Details
Code	<b>ME010401</b>
Title	<b>SPECTRAL THEORY</b>
Degree	M.Sc.
Branch	Mathematics
Year/Semester	2 <sup>nd</sup> Year / 4 <sup>th</sup> Semester
Type	Core

COURSE OUTCOME NO.	COURSE OUTCOMES	Cognitive Level	PSO NO.
CO 1	To understand the reflexive spaces and the Category theorem	Un	PSO 1
CO 2	To understand various types of convergence and the relation between them.	Un	PSO 1
CO 3	To understand the important theorems in operator theory and to prove them.	Un	PSO 1
CO 4	To understand self adjoint and compact linear operators and their properties	Un	PSO 1,7
CO 5	To understand the spectrum of bounded and closed linear operators.	Un	PSO 1
CO 6	To understand the spectral properties in a Banach Algebra.	Un	PSO 1

Un: Understand, Ap: Apply

**ME010402: ANALYTIC NUMBER THEORY**

CO NO.	COURSE OUTCOMES	COGNITIVE LEVEL	PSO NO.
CO 1	To understand the various types of arithmetic functions.	Un	PSO 1
CO 2	To get the idea of Dirichlet multiplication and by using this find the Dirichlet product of arithmetical functions.	Un, Ap	PSO 1, 4
CO 3	To understand the averages of arithmetical functions.	Un	PSO 1
CO 4	To get the idea of Chebyshev's functions, using this derive prime number theorem.	Un	PSO 1
CO 5	To understand the concepts of congruences and by using this find the inverses of field elements.	Un, Ap	PSO 1, 4
CO 6	To learn the Chinese remainder theorem and find its application.	Un	PSO 1
CO 7	To get an idea of primitive roots and reduced residues systems.	Un	PSO 1
CO 8	To understand the geometric representation of partitions and derive the Euler's pentagonal - number theorems	Un	PSO 1

Un: Understand, Ap: Apply

Course	Details
Code	<b>ME800401</b>
Title	<b>DIFFERENTIAL GEOMETRY</b>
Degree	M.Sc.
Branch	Mathematics
Year/Semester	2 <sup>nd</sup> Year / 3 <sup>rd</sup> Semester
Type	Core

**COURSE OUTCOMES**

Course Outcomes No.	Course Outcomes	Cognitive Level	PSO No.
CO 1	To understand the concept of graph, level sets, orientable surfaces in $\mathbb{R}^{n+1}$ and sketch different level sets, graphs, vector fields.	Un, App	PSO 1, 2, 7

CO 2	To understand different types of vector fields and to find the maximal integral curve of a smooth vector fields.	Un ,App	PSO 2,4
CO 3	To understand the Gauss map, Geodesics, Parallel transport of a vector fields defined on a surface.	Un	PSO 3,4
CO 4	To categorize the different forms of derivatives of a vector field and to characterise compact oriented n surface using gauss maps.	App, An	PSO 2,3
CO 5	To understand the Weingarten map, curvature of a plane curve, Arc length of a plane curve and 1 forms.	Un	PSO 1,4
CO 6	To generalize the curvature of a plane curve to the curvature of an arbitrary surface.	Ap	PSO 3,4
CO 7	To understand different forms of curvature on an n surface and interrelate them.	Un	PSO 3,7
CO 8	To understand different forms of surfaces and explain the local equivalence of different forms of surfaces and establish the inverse function theorem on n surfaces.	Un	PSO 2, 7

Ap-Apply

Un-Understand

### ME800402 ALGORITHMIC GRAPH THEORY

Course	Details
Code	ME800402
Title	ALGORITHMIC GRAPH THEORY
Degree	M.Sc.
Branch	Mathematics
Year/Semester	2 <sup>nd</sup> Year / 3 <sup>rd</sup> Semester
Type	Core

CO No.	Course Outcomes	Cognitive level	PSO No.
CO 1	To understand the fundamentals of graphs and algorithms.	Un,Ap	PSO 1,7
CO 2	To remember sorting algorithms, greedy algorithms and representing graphs in a computer.	Re	PSO 2,4
CO 3	To understand the properties of trees, depth first search and breadth first search algorithms.	Un	PSO 3,4



CO 4	To get an idea of weighted graphs center and median of graphs.	Un	PSO 2,3
CO 5	To understand the concept of networks, maximum flow minimum cut theorem and algorithms.	Un	PSO 1,4
CO 6	To understand Menger's theorem.	Un	PSO 3,5
CO 7	To get an idea of matchings and block designs	Un	PSO 4,7

Re – Remember, Un – Understand, Ap – Apply, An – Analyze

Course	Details
Code	MT04E02
Title	COMBINATORICS
Degree	M.Sc.
Branch	Mathematics
Year/Semester	2 <sup>nd</sup> Year / 4 <sup>th</sup> Semester
Type	Core

### **COURSE OUTCOMES**

Course OutcomesNo.	Course Outcomes	Cognitive Level	PSO No.
CO 1	To understand the concept of Permutation, Combination, Circular permutation, The injection and bijection principles.	Un,	PSO 1, 2,8
CO 2	To apply the concepts of permutation and combination to solve various types of problems.	Un ,Ap	PSO 2,4,8
CO 3	To understand Pigeonhole principle, Ramsey numbers.	Un	PSO 3,4
CO 4	To apply Pigeonhole principle and Ramsey numbers to solve different types of practical problems.	Ap	PSO 2,3
CO 5	To understand the principle of inclusion and exclusion , Sterling numbers, Derangements.	Un	PSO 1,4
CO 6	To categorize different types of sterling numbers and apply it to solve different problems .	Un,Ap	PSO 3,4,7

CO 7	To understand different generating functions and the concept of recurrence relations	Un	PSO 2,4
CO 8	To apply different generating functions to model problems and to solve recurrence relation problems.	Ap	PSO 2,3, 7

Ap-Apply

Un-Understand

## MA English

COURSE		DETAILS
CODE:		PC 1
TITLE		CHAUCER AND THE ROOTS OF ENGLISH
DEGREE		M A
BRANCH(S)		ENGLISH
YEAR/SEMESTER		I/I
TYPE		CORE
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	90	HOURS PER WEEK: 5

Sl no.	Course Outcomes	CL	PSO
1	To give an outline of the major works of poetry, prose and drama in ancient and medieval literature.	R	1, 2, 3
2	To describe and relate the personal experiences of a people living in a society very different from our own.	U	1, 2, 3
3	Examine and distinguish the features of the Anglo-Saxon Literatures	E	1, 2, 3, 5
4	To compare and contrast the contemporaries of Chaucer with Chaucer.	U	1, 2, 5
5	Describe and analyze the varied oeuvre of Geoffrey Chaucer and assess his contribution to English language and literature	An	2, 3, 4, 5, 6

COURSE		DETAILS
CODE:		PC 2
TITLE		WRITINGS OF THE RENAISSANCE

<b>DEGREE</b>		M A
<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		I/I
<b>TYPE</b>		CORE
<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>

Sl no.	Course Outcomes	CL	PSO
1	Describe and demonstrate the major developments in the literature, thought and culture of the Renaissance period.	U	1, 3
2	Analyse closely the socio-politico-cultural, linguistic and literary context of the texts.	An	3
3	Discuss in detail on William Shakespeare and the plays by Christopher Marlowe, Ben Jonson and Thomas Kyd and a close reading of the representative poetry of the period	E	2, 3, 5
4	Application of the recent theoretical interventions like New Historicism or Cultural Materialism	Ap	4, 5, 6
5	Critically analyse the representative works of Renaissance period.	An	4, 5, 6

<b>COURSE</b>		<b>DETAILS</b>
<b>CODE:</b>		PC 3
<b>TITLE</b>		REVOLUTION AND THE ENLIGHTENMENT
<b>DEGREE</b>		M A
<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		I/I
<b>TYPE</b>		CORE
<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>

Sl no.	Course Outcomes	CL	PSO
1	Understand and familiarize the 17 <sup>th</sup> Century Literature	Un	1, 2

2	Analyze the cultural and social upheavals	An	2, 3
3	Analyse and Evaluate the progress of Enlightenment	Ap	2, 3, 5
4	Discuss the political and social themes present in the literary texts.	E	3, 5
5	Understand the Civil War	Un	1, 3

COURSE		DETAILS
<b>CODE:</b>		PC 4
<b>TITLE</b>		LITERARY CRITICISM AND ACADEMIC WRITING
<b>DEGREE</b>		M A
<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		I/I
<b>TYPE</b>		CORE
<b>CREDITS</b>		
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>

Sl no.	Course Outcomes	CL	PSO
1	Identify the major critical movements including prominent theorists and critics, important schools and movements, and the historical and cultural context	R	1, 3
2	Demonstrate an understanding of key concepts in literary criticism.	U	1, 2
3	Evaluate and analyse the strengths and limitations of varied critical arguments.	E	2, 5
4	Define and apply specific critical concepts and terms to literary and cultural texts familiarise the students with research and academic writing.	Ap	4, 5
5	Identify and analyse the relationship between literature and social context.	An	3, 5

COURSE		DETAILS
<b>CODE:</b>		PC 5
<b>TITLE</b>		INDIAN ENGLISH LITERATURE

<b>DEGREE</b>		M A
<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		I/I
<b>TYPE</b>		CORE
<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>

Sl no.	Course Outcomes	CL	PSO
1	Trace the evolution of Indian short stories and fictions.	R	1, 3
2	Identify quotes from the poems and dramas prescribed in this course and provide reference to the context	U	2, 3
3	Describe the various aspects of Indian English short stories, novels, poetry, dramas	E	2, 3,
4	Critically appreciate Indian English short story, poetry and dramas prescribed in this course	An	2, 3, 5

<b>COURSE</b>		<b>DETAILS</b>
<b>CODE:</b>		PC 6
<b>TITLE</b>		LITERATURE OF THE NINETEENTH CENTURY
<b>DEGREE</b>		M A
<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		I/II
<b>TYPE</b>		CORE
<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>

Sl no.	Course Outcomes	CL	PSO
1	To familiarize the students with 18 <sup>th</sup> and 19 <sup>th</sup> century literature	R	1, 3
2	Examine the art and textsofthe Romantic ageand identify the nature of style and expression	U	1, 3, 5
	Identify the features employed in Victorian fiction and		

3	poetry	An	2, 3, 5
4	Re reading of the literary works of the Romantic and Victorian period	Ev	4, 5, 6

COURSE		DETAILS
CODE:		PC 7
TITLE		MODERNISM IN CONTEXT
DEGREE		M A
BRANCH(S)		ENGLISH
YEAR/SEMESTER		I/II
TYPE		CORE
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	90	HOURS PER WEEK: 5

Sl no.	Course Outcomes	CL	PSO
1	Introduce students to the changed literary perspectives in the twentieth century.	R	1, 3
2	Create a new notion of the various modern literary movements	C	1, 3, 4, 6
3	To critique the differences in approach of the modern works against the earlier literary works.	Ap	3, 5
4	Motivate the students to attempt critical evaluation of modernist literary techniques	An	2, 5
5	Develop a new aesthetics towards modern literary and artistic works	C	3, 4

COURSE		DETAILS
CODE:		PC 8
TITLE		DIMENSIONS OF THE POSTMODERN
DEGREE		M A
BRANCH(S)		ENGLISH
YEAR/SEMESTER		I/II
TYPE		CORE
CREDITS		4

<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>
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Sl no.	Course Outcomes	CL	PSO
1	Recognise the tenets of postmodernism and the problematics of its definition.	R	1, 5
2	Examine the art and texts of the age and identify the nature of style and expression	An	1, 3
3	Identify the features employed in fiction and theatre and also its engagement with poetry	U	2, 5
4	Evaluate the experimental nature of the works	E	2, 3, 5
	introduced in the syllabus		

COURSE		DETAILS
<b>CODE:</b>		PC 9
<b>TITLE</b>		LANGUAGE AND LINGUISTICS
<b>DEGREE</b>		M A
<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		I/II
<b>TYPE</b>		CORE
<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>

Sl no.	Course Outcomes	CL	PSO
1	Locate and understand the language and its functions.	R	1
2	Locate and identify the phonetic scripts	R	1
3	Understand the morphological processes,	U	1
4	Discuss the semantic changes in language	E	1
5	Create transcription based sentences	C	1

COURSE		DETAILS
<b>CODE:</b>		PC 10
<b>TITLE</b>		THEORIES OF KNOWLEDGE
<b>DEGREE</b>		M A
<b>BRANCH(S)</b>		ENGLISH

<b>YEAR/SEMESTER</b>		I/II
<b>TYPE</b>		CORE
<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>

Sl no.	Course Outcomes	CL	PSO
1	Introduce various theories necessary for the appreciation of literature	U	1, 5
2	Evaluate key events that led to changes in philosophical notions	E	1, 3
3	Understand and discuss political theory, narrative theories and discourses on power present in the essays	U	3, 5
4	Create an interest in theory to analyse and evaluate the progress of criticism	An	3, 4

COURSE		DETAILS
<b>CODE:</b>		PC 11
<b>TITLE</b>		American Literature
<b>DEGREE</b>		M A
<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		II/II1
<b>TYPE</b>		CORE
<b>CREDITS</b>		4
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>

Sl no.	Course Outcomes	CL	PSO
1	Introduce students to the glorious masterpieces of American Literature and unique style of writing .	R	1, 2, 5
2	Deconstruct and understand the relevance of American literary pattern	An	1, 5
3	To critique the differences in approach of the American literary works against the European.	Ap	3, 5



4	Motivate the students to attempt critical evaluation of American civilization and culture as revealed in the works.	E	1, 3, 5
5	Inspire the students to make explorations into contemporary American literature	C	2, 3, 5

COURSE		DETAILS
CODE:		PC 12
TITLE		CULTURAL STUDIES
DEGREE		M A
BRANCH(S)		ENGLISH
YEAR/SEMESTER		II/III
TYPE		CORE
CREDITS		4
TOTAL NO: OF CONTACT HOURS:	90	HOURS PER WEEK: 5

Sl no.	Course Outcomes	CL	PSO
1	Understand and recognise the inception, production, distribution and consumption of cultural processes and artefacts.	U	1, 3
2	Focus and distinguish between the terms, analytical techniques and interpretative strategies commonly employed in Cultural Studies.	R	1, 5
3	Analyse texts from a cultural studies perspective.	An	2, 3, 5
4	Create an aptitude to explore interdisciplinary approaches in Cultural Studies	Ap	4, 6

COURSE		DETAILS
CODE:		PC 13
TITLE		GENDER STUDIES
DEGREE		M A
BRANCH(S)		ENGLISH
YEAR/SEMESTER		II/III
TYPE		CORE
CREDITS		4

<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>
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Sl no.	Course Outcomes	CL	PSO
1	To define and recollect the key terms and concept in Gender Studies.	R	1, 5
2	To understand and explain how gender is a very complicated issue controlling our daily affairs including the performances of reading and writing.	U	3, 5
3	To apply knowledge gained from understanding gender relations to examine culture and social relations of the present day	Ap	3
4	Organise, compare and contrast the different perspectives on gender in critical theories	An	3, 5
5	To evaluate and weigh the differences of gender relations in novels, poems, plays and stories	E	2, 3, 5
6	To create gender awareness in society by critically examining and re-writing classics which thrive on gender bias.	C	3, 4, 5

COURSE		DETAILS
<b>CODE:</b>		PC 14
<b>TITLE</b>		MODES OF FICTION
<b>DEGREE</b>		M A
<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		II/III
<b>TYPE</b>		CORE
<b>CREDITS</b>		
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>

Sl no.	Course Outcomes	CL	PSO
1	To generalize and abstract the various modes of fiction across centuries, continents and languages.	U	1, 5
2	To describe various schools, influences and narrative devices in fiction.	R	1, 3, 5

3	Interpret the major theoretical perspectives in narratives and apply them in various modes of fiction	An	3, 5
4	Analyse the distinguishing features of women writers in narrative fiction.	An	2, 3, 5
5	To critique and evaluate individual fictional narratives.	E	2, 4, 5

COURSE		DETAILS
CODE:		PC 15
TITLE		TEXT AND PERFORMANCE
DEGREE		M A
BRANCH(S)		ENGLISH
YEAR/SEMESTER		II/III
TYPE		CORE
CREDITS		
TOTAL NO: OF CONTACT HOURS:	90	HOURS PER WEEK: 5

Sl no.	Course Outcomes	CL	PSO
1	Recognise the aspects of the various genres of literature	R	1, 5
2	Determine the style and construct of classical theatre	U	1, 5
3	Examine the various interfaces employed between the verbal and visual medium	E	5
4	Identify re-readings of classical pieces of literature and their performances in the visual media	U	3, 5
5	Evaluate the possibilities and workings of movies based on the movies that is part of the syllabus	An	2, 5

COURSE		DETAILS
CODE:		PC 16
TITLE		LITERATURE AND EMPIRE
DEGREE		M A
BRANCH(S)		ENGLISH
YEAR/SEMESTER		II/IV
TYPE		CORE
CREDITS		

<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>
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Sl no.	Course Outcomes	CL	PSO
1	To generalize the students about the discursive nature of colonialism, post-colonialism and new forms of imperialism.	U	1, 3, 5
2	To describe the various counter-discursive impulses of post-colonial theory, narratives and performance texts.	E	3, 5
3	Critically read, interpret, and write about the critical/theoretical practices based on the colonial experiences through representative texts.	Ap	3, 5
4	Analyse and distinguish the internal forms of colonization	An	5
5	To critique and evaluate the contemporary issues in the context of post colonial theoretical premise.	C	3, 5

COURSE		DETAILS
<b>CODE:</b>		PE 02
<b>TITLE</b>		SHAKESPEARE ACROSS CULTURES
<b>DEGREE</b>		M A
<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		II/IV
<b>TYPE</b>		ELECTIVE
<b>CREDITS</b>		
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>

Sl no.	Course Outcomes	CL	PSO
1	To identify various Shakespearean adaptations in different genres	R	2, 3, 5
2	To understand Shakespeare from a variety of critical positions such as race, gender and nation	U	2, 3, 5
3	To critically analyse the film adaptations of Shakespearean texts	An	3, 5

4	To deconstruct Shakespearean plays focusing on structures of power, notably conspicuous absences, and ethnic intolerance.	Ap	4, 5
5	To construct a text/enact a play critiquing the imperial overtones in Shakespeare.	C	4, 6

COURSE		DETAILS
CODE:		PE 03
TITLE		STUDYING TRANSLATIONS: ASPECTS AND CONTEXTS
DEGREE		M A
BRANCH(S)		ENGLISH
YEAR/SEMESTER		II/IV
TYPE		ELECTIVE
CREDITS		3
TOTAL NO: OF CONTACT HOURS:	90	HOURS PER WEEK: 5

Sl no.	Course Outcomes	CL	PSO
1	Understand the various theories governing translation	U	1, 3, 5
2	Recognize the various types of translation and milestones in the process of translation	R	5
3	Compare and contrast the models of translation on the basis of their merits and demerits	E	5
4	Translate works from source language to target language	Ap	5, 6
5	Find coherence in translated works of regional language	An	6

COURSE		DETAILS
CODE:		PE 09
TITLE		MODERN EUROPEAN FICTION
DEGREE		M A
BRANCH(S)		ENGLISH
YEAR/SEMESTER		II/IV

<b>TYPE</b>		ELECTIVE
<b>CREDITS</b>		3
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>

Sl no.	Course Outcomes	CL	PSO
1	To introduce the student to a selection of European fiction spanning the second half of the nineteenth century and the twentieth century.	R	1, 3, 5
2	To understand the socio-political changes and their impact on European fiction.	U	3, 5
3	To acquire basic knowledge of the literary style of some of the prominent European writers.	U	2, 3, 5
4	To familiarize and interpret the various concepts of Modernism, Realism and the Theatre of the Absurd through critical evaluation of the prescribed Texts.	E	1, 3, 5

COURSE		DETAILS
<b>CODE:</b>		PE 10
<b>TITLE</b>		<b>ENGLISH LANGUAGE TEACHING (ELT)</b>
<b>DEGREE</b>		M A
<b>BRANCH(S)</b>		ENGLISH
<b>YEAR/SEMESTER</b>		II/IV
<b>TYPE</b>		ELECTIVE
<b>CREDITS</b>		3
<b>TOTAL NO: OF CONTACT HOURS:</b>	90	<b>HOURS PER WEEK: 5</b>

Sl no.	Course Outcomes	CL	PSO
1	To introduce the basic concepts of English language teaching	R	1, 3
2	To understand a historical overview of the theories of ELT and learning theories	U	1, 3
3	To identify the techniques of teaching	U	5

4	To analyse the approaches to teaching literature in an ELT classroom	An	5
5	To familiarize with the process of evaluation of English language papers.	U	1, 3

## MSc Home Science (Child Development & Behavior Science)

### COURSE OUTCOMES

Course	Details
Code	HSCD1CT01
Title	ADVANCED STUDY IN CHILD DEVELOPMENT
Degree	M.Sc
Branch(s)	Home Science (Branch XA Child Development and behaviour science)
Semester	I
Type	Main
Credits	4
Total hours	78
Hours per week	5

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:
1	Aware of the recent trends in research in child development with development of affinity for research and carry out research in the area of child and adolescent development.
2	Develop an interest in specific areas in child development.
3	Formulate hypotheses and carry out research in child development
4	Aware of the stages of child development from prenatal development to adolescence.
5	Examine the role of environmental factors in prenatal development
6	Identify the teratogens affecting prenatal development in the Kerala context.

7	Gain knowledge in the infant screening and assessment tests available in Kerala.
8	Aware on temperamental difference in children and conduct a class for parents/teachers.
9	The course offers deeper understanding of child and adolescent development
10	The course offers deeper understanding career choice.
11	Aware on governmental programmes for adolescents in Kerala.

Course	Details
Code	HSCD1CT02
Title	<b>EARLY CHILDHOOD CARE AND EDUCATION</b>
Degree	M.Sc.
Branch(s)	Child Development
Semester	I
Credits	4
Total hours	72
Hours per week	5

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:
1	Develop insight into the process of child development and learning and to gain knowledge and insight regarding principles of early childhood education.
2	Plan and implement such tasks as shall meet children's need for education and development
3	Describe the process of child centered curriculum development
4	Apply an understanding of teacher roles in early childhood classrooms
5	It aims to define developmentally appropriate practices in relation to activities, material and equipment in early childhood education centres.
6	The aim of the course is to prepare the students to interact meaningfully with young children in contemporary India
7	It would help students to select, plan, implement and evaluate developmentally appropriate learning experiences for children



8	The principles of developing educational materials for children using various art and craft medium is emphasized.
9	Importance of story as an educational method, preparation of puppets and various other developmentally appropriate educative materials and their care and maintenance are emphasized.
10	Recognize that play, in concert with adult planning, guidance, support, and follow-up, is a vital experience of early development and promotes development of the child
11	To conduct activities in early childhood education and to work efficiently with parents and community.

Course	Details
<b>Code</b>	HSCD1CT0
<b>Title</b>	ADOLESCENCE :DEVELOPMENT AND CHALLENGES
<b>Degree</b>	M.Sc
<b>Branch(s)</b>	Home Science (Branch XA Child Development and behaviour science)
<b>Semester</b>	I
<b>Type</b>	Main
<b>Credits</b>	4
<b>Total hours</b>	78
<b>Hours per week</b>	5

	<b>Expected Course Outcomes</b> <b>Upon completion of this course the students will be able to:</b>
<b>1</b>	To gain knowledge regarding the growth spurt of adolescents
<b>2</b>	To understand the development and characteristics of adolescents
<b>3</b>	To make the students aware of the current issues confronting adolescents

Course	Details
<b>Code</b>	HSCD1CT04
<b>Title</b>	NUTRITION THROUGH LIFECYCLE
<b>Degree</b>	M.Sc

<b>Branch(s)</b>	Home Science (Branch XA Child Development and behaviour science)
<b>Semester</b>	I
<b>Type</b>	Main
<b>Credits</b>	4
<b>Total hours</b>	78
<b>Hours per week</b>	5

	<b>Expected Course Outcomes</b> <b>Upon completion of this course the students will be able to:</b>
<b>1</b>	Understand the human nutrient requirements of both macro and micronutrients.
<b>2</b>	Comprehend the basis of computation of the ICMR Recommended Dietary Allowances of the various nutrients for Indians for adults.
<b>3</b>	Learn the additional nutritional requirements and associated dietary modifications to be made to meet the physiological demands during pregnancy and lactation
<b>4</b>	Study the care and nutritional requirements of infants, pre-schoolers, giving emphasis to
<b>5</b>	Familiarise with the recent concerns in the field of nutrition such as foetal programming, pregnancy and lactation in the age of AIDS, adolescent pregnancy, mother and Baby friendly initiatives

<b>Course</b>	<b>Details</b>
<b>Code</b>	HSCD1CP05
<b>Title</b>	<b>EARLY CHILDHOOD CARE AND EDUCATION- INTERNSHIP AND PRACTICAL</b>
<b>Degree</b>	M.Sc.
<b>Branch(s)</b>	Child Development
<b>Semester</b>	I
<b>Credits</b>	2
<b>Total hours</b>	72
<b>Hours per week</b>	5

	<b>Expected Course Outcomes</b> <b>Upon completion of this course the students will be able to:</b>
1	To acquire skills in planning, organizing and implementing programme in a preschool (rural and urban)
2	To familiarize students with community and parents regarding ECCE.
3	To develop skills in organizing community and parental awareness programmes in rural and urban areas relating to early childhood.

<b>Course</b>	<b>Details</b>
<b>Code</b>	HSCD2CT06
<b>Title</b>	EDUCATION OF CHILDREN WITH SPECIAL NEEDS I
<b>Degree</b>	M.Sc
<b>Branch(s)</b>	Home Science (Branch XA Child Development and behaviour science)
<b>Semester</b>	II
<b>Type</b>	Main
<b>Credits</b>	4
<b>Total hours</b>	78
<b>Hours per week</b>	5

<b>CO No.</b>	<b>Expected Course Outcomes</b> <b>Upon completion of this course the students will be able to:</b>
1	To enable students to become aware of the various impairments that affect children
2	Learn the special education methods that can be employed.
3	To become aware of the categories of children with special needs, their problems
4	To gain information on the causes and prevention of disabilities.

<b>Course</b>	<b>Details</b>
<b>Code</b>	HSCD2CT07
<b>Title</b>	CHILD RIGHTS AND WELFARE
<b>Degree</b>	M.Sc.
<b>Branch(s)</b>	Child Development

<b>Semester</b>	II
<b>Credits</b>	4
<b>Total hours</b>	72
<b>Hours per week</b>	5

<b>C O No</b>	<b>Expected Course Outcomes Upon completion of this course the students will be able to:</b>
1	To understand the situation of children in India and to know the challenges faced by children.
2	To create an awareness and sensitivity to children"s rights.
3	To make students aware of the welfare programs/ services for children.
4	To review the legislations pertaining to children
5	Learn to correlate child sex ratio and gender issues.
6	Develop an understanding about schemes, benefits and development programme at national and state level.
7	Appreciate the role of NGOs in advocating and protecting child rights.

<b>Course</b>	<b>Details</b>
<b>Code</b>	HSCD2CT08
<b>Title</b>	<b>MENTAL HEALTH IN DEVELOPMENTAL PERSPECTIVES</b>
<b>Degree</b>	M.Sc.
<b>Branch(s)</b>	Child Development and Behaviour Science
<b>Semester</b>	II
<b>Credits</b>	4
<b>Total hours</b>	72
<b>Hours per week</b>	5

<b>CO No.</b>	<b>Expected Course Outcomes Upon completion of this course the students will be able to:</b>
1	To understand the importance of mental health in different stages.
2	To develop skill for promoting mental health across the life span
3	To identify mental health issues in the community and sensitising its members
4	To develop skills of organising school mental health programme.

5	The course aims to enhance the understanding of infant, early childhood and adolescent mental health and promote the skills necessary to support social emotional development of young children and adolescents.
6	Understand the concept and significance of mental health of children and adolescents and its the relevance in the present scenario.
7	Examine the status of mental health of children and adolescents in India.
8	Investigate the programmes developed by governmental and nongovernmental agencies to promote mental health in children.
9	Critically evaluate the risk factors to mental health of children in infancy, toddlerhood, early childhood, middle childhood and adolescence.
10	Develop skills in organizing mental health programmes for the Community

Course	Details
<b>Code</b>	HSCD2CT09
<b>Title</b>	RESEARCH METHODS AND STATISTICS
<b>Degree</b>	M.Sc
<b>Branch(s)</b>	Home Science (Branch XA Child Development and behaviour science)
<b>Semester</b>	II
<b>Type</b>	Main
<b>Credits</b>	4
<b>Total hours</b>	78
<b>Hours per week</b>	5

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:
1	Understand the significance of research methods.
2	Explore the types, tools and methods of research
3	Develop the ability to construct data gathering instruments appropriate to the research design.
4	Appreciate and understand importance of writing scientifically.
5	Develop competence in writing and abstracting skills.
6	Explain the concept of population, sample and other concepts linked with sampling.
7	Familiarize with the procedures for classification, tabulation and graphical representation of data.

8	Understand the types and characteristics of research design
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Course	Details
Code	HSCD2CP10
Title	CHILD RIGHTS AND WELFARE
Degree	M.Sc.
Branch(s)	Child Development
Semester	II
Credits	2
Total hours	90
Hours per week	5

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:
1	To develop a critical appraisal of important theoretical approaches in the study of Child Development
2	To acquaint students with various methods for studying children
3	To understand the situation of children in India and to know the challenges faced by children.

Course	Details
Code	HSCD3CT11
Title	THEORIES OF CHILD DEVELOPMENT AND BEHAVIOUR
Degree	M.Sc
Branch(s)	Home Science (Branch XA Child Development and behaviour science)
Semester	III
Type	CORE
Credits	4
Total hours	90
Hours per week	5

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:
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1	Aware of major theories in child development that will provide a framework for the presentation of physical, cognitive, social and emotional development from conception through adolescence.
2	To help students predict and understand child development and behaviour
3	To develop critical appraisal of important theoretical approaches in the study of child development.
4	Aware on the practical application of theory in child development and to promote research.
5	Examine theories of child development from different perspectives: psychoanalytic, learning, cognitive, ethological, contextual system perspective etc.
6	Apply theoretical knowledge in promoting research in child development. Call for further theoretical and research enquiry.
7	Plan intervention programmes based on theoretical knowledge in child and adolescent development.
8	Application of theories to face challenges faced in educational and care settings.

Course	Details
<b>Code</b>	HSCD3CT12
<b>Title</b>	METHODS AND TECHNIQUES OF CHILD STUDY
<b>Degree</b>	M.Sc
<b>Branch(s)</b>	Home Science (Branch XA Child Development and Behaviour Science)
<b>Semester</b>	III
<b>Type</b>	Main
<b>Credits</b>	4
<b>Total hours</b>	90
<b>Hours per week</b>	5

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:
1	Demonstrate the ability to identify and formulate issues critically.
2	Autonomously and creatively plan and use appropriate methods of studying children.
3	Undertake tasks within predetermined time frames.

4	Identify the personal need for further knowledge.
5	Explore the different standardized tests used for studying the various domains of Development.

Course	Details
Code	HSCD3CT13
Title	EDUCATION OF CHILDREN WITH SPECIAL NEEDS II
Degree	M.Sc.
Branch(s)	Child Development
Semester	III
Credits	4
Total hours	90
Hours per week	5

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:
1	To become informed about the special education strategies available for challenged children
2	To be informed about the characteristics of children with special needs
3	To be aware of the role of parents and teachers in educating children with specialneeds
4	The aim of the course is to provide knowledge about the causes of various impairments that affect the children,the special education methods that can be employed and the prevention of disabilities.
5	Define areas of exceptionality and special education
6	Identifies exceptionality as to genetic environmental causes
7	Describes the availability of screening and assessment instruments.
8	Identifies individuals and their roles in developing and implementing educational and family service plans.
9	Explore appropriate community resources and referrals for individual children and families.
10	Gather information on resources available in the community
11	Identify agencies that advocates for children with special needs and their families.



12	Create/modify environments, equipment materials, supplies and experiences to meet individual needs of all children.
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Course	Details
Code	HSCD3CT14
Title	SCIENTIFIC WRITING AND PROJECT FORMULATION
Degree	M.Sc.
Branch(s)	Child Development
Semester	III
Credits	4
Total hours	90
Hours per week	5

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:
1	To be able to appreciate and understand importance of writing scientifically.
2	To develop competence in writing and abstracting skills
3	To orient the students about the basic concepts, constructs and principles in scientific approach to research.
4	To help the learners understand the fundamentals of research process.
5	To make use the knowledge of research methodology to conduct their own research and process,
6	To analyze and interpret the data in order to make it verifiable and draw necessary conclusions.
7	Understand the significance of research methods.
8	Explore the types, tools and methods of research
9	Develop the ability to construct data gathering instruments appropriate to the research design.
10	Familiarize with the procedures for classification, tabulation and graphical representation of data.
11	Familiarize with the concepts of reliability and validity in research

Course	Details
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<b>Code</b>	<b>HSCD3CP15</b>
<b>Title</b>	<b>SPECIAL EDUCATION AND REHABILITATION STRATEGIES</b>
<b>Degree</b>	M.Sc.
<b>Branch(s)</b>	Child Development
<b>Semester</b>	III
<b>Credits</b>	2
<b>Total hours</b>	72
<b>Hours per week</b>	5

<b>CO No.</b>	<b>Expected Course Outcomes Upon completion of this course the students will be able to:</b>
1	To gain experience in planning and executing educational programmes for children with special needs
2	To interact with parents of disabled children and understand their special needs and problems.
3	To spread awareness in the community regarding the causative factors and strategies for management and prevention of disabilities.

<b>Course</b>	<b>Details</b>
<b>Code</b>	<b>HSCD4ET01</b>
<b>Title</b>	<b>GERONTOLOGY AND CARE OF THE ELDERLY</b>
<b>Degree</b>	M.Sc.
<b>Branch(s)</b>	Child Development
<b>Semester</b>	IV
<b>Credits</b>	4
<b>Total hours</b>	90
<b>Hours per week</b>	5

<b>CO No.</b>	<b>Expected Course Outcomes Upon completion of this course the students will be able to:</b>
1	To make the students aware of the issues facing the elderly in India

2	To know the theoretical frame work in the study of ageing
3	To impart necessary skills for making effective interventions for care of elderly.

Course	Details
<b>Code</b>	HSCD4ET02
<b>Title</b>	GUIDANCE AND COUNSELLING
<b>Degree</b>	M.Sc
<b>Branch(s)</b>	Home Science (Branch XA Child Development and Behaviour science)
<b>Semester</b>	IV
<b>Type</b>	Main
<b>Credits</b>	4
<b>Total hours</b>	90
<b>Hours per week</b>	5

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:
1	Equip the students with the knowledge on meaning and goals of counselling .
2	Examine the scope of counselling for children with reference to Indian scenario.
3	Critically analyse the concepts, scope and theories that govern the process of guidance and counselling.
4	Describe the fundamental principles of guidance and counselling.
5	Become Aware on the different perspectives/theories of counselling
6	Examine the innovative approaches to counselling, focusing on the approaches to be followed for child and adolescent counselling.
7	Coordinate and communicate with various stakeholders in the process of guidance and counselling.

Course	Details
<b>Code</b>	HSCD4ET04
<b>Title</b>	WOMEN'S STUDIES
<b>Degree</b>	M.Sc

<b>Branch(s)</b>	Home Science (Branch XA Child Development and Behaviour science)
<b>Semester</b>	IV
<b>Type</b>	Main
<b>Credits</b>	4
<b>Total hours</b>	90
<b>Hours per week</b>	5

	<b>Expected Course Outcomes</b> Upon completion of this course the students will be able to:
<b>1</b>	To create an awareness among the students about the status of women in India.
<b>2</b>	To familiarize with the issues and problems of women
<b>3</b>	To motivate students to work for the betterment of women

<b>Course</b>	<b>Details</b>
<b>Code</b>	HSCD4ET04
<b>Title</b>	ENTREPRENEURSHIP MANAGEMENT
<b>Degree</b>	M.Sc
<b>Branch(s)</b>	Home Science (Branch XA Child Development and Behaviour science)
<b>Semester</b>	IV
<b>Type</b>	Main
<b>Credits</b>	4
<b>Total hours</b>	90
<b>Hours per week</b>	4

<b>CO No.</b>	<b>Expected Course Outcomes</b> Upon completion of this course the students will be able to:
<b>1</b>	Understanding on the concept of entrepreneurship.
<b>2</b>	Identification of prospective entrepreneurial opportunities
<b>3</b>	Awareness on procedures and documents to start an enterprise.
<b>4</b>	Know how of the subsidy and benefits for women entrepreneur.

5	Ability to do market analysis.
6	Development of a project proposal for funding.
7	Maintain the accounts and manage the finance

Course	Details
Code	HSCDEP05
Title	GUIDANCE AND COUNSELLING PRACTICALS
Degree	M.Sc
Branch(s)	Home Science (Branch XA Child Development and Behaviour Science)
Semester	IV
Type	Main
Credits	4
Total hours	90
Hours per week	5

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:
1	To gain an understanding of the emotional problems confronting children and adults.
2	To develop the skills of the students in offering guidance and counselling for and parents/adults.
3	To develop skills in organizing programmes related to preventive /facilitative / developmental counselling.

## M.Com Finance & Taxation

### SEMESTER I

#### SPECIALISED ACCOUTING

Course Code: CM010101

Credit: 4

Instructional Hours: 90

Teacher in charge: Mr. Anil Kumar

SI No	Course Outcome	Cognitive Level	PSO – CO
CO 1	theoretical and practical aspects of major Accounting Standards	U, Ap	PSO 1,4,6
CO 2	knowledge in valuation of goodwill and shares and comparing the real value with market price; identifying mispricing	Ap	PSO 1,4,6
CO 3	termination of purchase consideration; preparation of post amalgamation financial statements	Ap	PSO 1,4,6
CO 4	understanding about NBFC's, provisioning norms and concept of NAV	E	PSO 1,4,6
CO 5	acquaint with the theoretical aspects of emerging areas in accounting	U	PSO 1,4,6

### ORGANISATIONAL BEHAVIOUR

Course Code:CM010102

Credit: 3

Instructional Hours: 90

Teacher In-charge: Mrs. Tintu Jobin

SI No	Course Outcome	Cognitive Level	PSO – CO
CO 1	basic understanding about the concepts of organisation behaviour	U	PSO 1,4,6
CO 2	very good understanding about individual behaviour, personality and motivation	U	PSO 1,4,6
CO 3	partial understanding about group behaviour and leadership related to organisational behaviour	U	PSO 1,4,6
CO 4	solid knowledge base of the learner regarding change management and deal with stress	U	PSO 1,4,6
CO 5	partial knowledge about the role of organisational culture and conflict on organisational behaviour	U	PSO 1,4,6

### MARKETING MANAGEMENT

Course Code: CM010103

Credit: 4

Instructional Hours: 90

Teacher in Charge: Ms Aleena Joseph

SI No	Course Outcome	Cognitive Level	PSO – CO
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CO 1	Basic understanding about concepts like customer centricity, CRM, value chain and customer delight	U	PSO 1,4,6
CO 2	Understanding about the market segmentation process and its application in marketing strategies	U, E	PSO 1,4,6
CO 3	Develop an idea about consumer behaviour and its impact	U	PSO 1,4,6
CO 4	Understanding about product line, product mix, brand equity, brand identity, brand personality and brand image	U, E	PSO 1,4,6
CO 5	Develop sound ideas regarding services marketing and service quality	U	PSO 1,4,6

### MANAGEMENT OPTIMISATION TECHNIC

Course Code: CM010104

Credit: 4

Instructional Hours: 90

Teacher In-charge: Ms. Chinnu Mol Sasindran

Sl No	Course Outcome	Cognitive Level	PSO – CO
CO 1	Develop theoretical understanding about various business optimisation models	U	PSO 1
CO 2	Ability to develop linear programming models for business problems and solve the same	Ap, E	PSO 3 PSO 5
CO 3	Application of LPP in the areas of transportation and assignment	U	PSO 3 PSO 5
CO 4	Develop decision making skills under uncertainty risk and replacement of asset	Ap, E	PSO 3 PSO 5
CO 5	Understand and apply network analysis techniques for project implementation	U, Ap	PSO 5

### METHODOLOGY FOR SOCIAL SCIENCE RESEARCH

Course code: CM010105

Credit: 4

Instructional Hours: 90

Teacher in-charge: Ms. Ashna Varkey

Sl.No	Course Outcome	PSO-CO
CO 1	Develop a thorough understanding about the basic concepts of social science research	PSO 3

CO 2	After completing this module, the learner should be able to formulate a research design	PSO 3
CO 3	After studying the theoretical aspects of sampling design, the students should be able to draw a sampling design.	PSO 3
CO 4	Detailed knowledge about the instrument development, it's validation and different forms of scaling	PSO 3
CO 5	Understand the technique of research reporting.	PSO 3

## SEMESTER II

### ADVANCED CORPORATE ACCOUNTING

Course Code: CM010201

Instructional hours : 90

Credit : 4

Teacher in charge : Anil Kumar K.K

Code	Course Outcome	PSO-CO
CO1	Prepare consolidated financial statements of group companies.	PSO 2,4,6
CO2	Preparation of the financial statements of public utility companies and deal with the disposal of surplus.	PSO 2,4,6
CO3	Develop and awareness on the procedure of bankruptcy under the recent Bankruptcy Procedure Code.	PSO 2,4,6
CO4	Familiarising the learner with the accounting procedures of liquidation of companies and preparation of various statements required as per the Companies Act	PSO 2,4,6
CO5	Basic understanding about the preparation of accounts of some special lines of business like shipping, hospitals and hotels	PSO 2,4,6

### HUMAN RESOURCE MANAGEMENT

Course code: CM010202

Credit: 3

Instructional Hours:90

Teacher -in- charge : Mrs. Jini Jacob & Ms. Harsha Thomas

CO NO.	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	Basic concepts of HRM and performance appraisal.	U,R	PSO1,4,6



CO2	Understanding about human resource development, stress management and worklife management.	U,R	PSO1,4,6
CO3	knowledge about various aspects of training.	U,R	PSO1,4,6
CO4	Understanding about various aspects of industrial relations so as to evaluate the real cases of industrial relations.	U,R	PSO1,4,6
CO5	Understanding about HR outsourcing HR accounting and HR audit.	U,R	PSO1,4,6

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### INTERNATIONAL BUSINESS AND FINANCE

Course Code: CM010203

Credit: 4

Instructional Hours: 90

Teacher in charge: Ms. Aleena Joseph

CO NO.	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	Familiarisation with globalisation, internationalisation of business and the international business environment	U	PSO 6 PSO 7 PSO 8
CO2	Understanding about theories of international trade, trade barriers and trade blocks.	U	PSO 6 PSO 7 PSO 8
CO3	Imparting idea about various economic institutions related to international trade.	U	PSO 6 PSO 7 PSO 8
CO4	Achieve high level knowledge about various aspects of international monetary system.	U	PSO 6 PSO 7 PSO 8
CO5	Develop an understanding about the international investment environment.	U	PSO 6 PSO 7 PSO 8

### QUANTITATIVE TECHNIQUES

Course code:CM010204

Credit: 4

Instructional Hours: 90

Teacher in-charge: Ms. Ashna Varkey

Sl.No	Course Outcome	PSO-CO
CO 1	This course intends to give understanding about the applications of quantitative techniques	PSO 3 PSO5
CO 2	After learning this course, the student should be in a position to identify appropriate parametric test for testing the hypotheses	PSO 3 PSO5
CO 3	The learner should be equipped with the skills to identify the most suitable non-parametric test for testing a hypothesis.	PSO 3 PSO5
CO 4	The learner should be equipped with the skills to apply the principles of SQC	PSO 3 PSO5

### STRATEGIC MANAGEMENT

Course Code: CM010205

Instructional Hours: 90

Credit: 4

Teacher In-charge: Mrs. Tintu Jobin

O No:	COURSE OUTCOME	Cognitive Level	PSO No:
CO 1	derstanding about the theoreticalfoundations of strategic management.	U	PSO 1,4,6
CO 2	derstanding about various models of vironmental and internal analysis.	U	PSO 1,4,6
CO 3	velopment of an idea about the strategy mulation process at the corporate level.	U	PSO 1,4,6
CO 4	miliarization with various tools strategicplanning and evaluation.	U	PSO 1,4,6
CO 5	derstanding about the modes of plementation and control of strategies	U	PSO 1,4,6

### SEMESTER III

#### STRATEGIC FINANCIAL MANAGEMENT

Course Code: CM010301

Credit: 5

Instructional Hours :108

Teacher in charge:

CO	COURSE OUTCOME	COGNITIVE	PSO NO:
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NO.		LEVEL	
CO1	Learn the theoretical foundations of financial management and financial management decisions.	U,R	PSO1,4,6
CO2	Evaluate the feasibility of different options regarding discount, credit period etc related to current assets and current liabilities and estimate working capital requirements	U,R,AP,E	PSO1,4,6
CO3	Evaluate long term proposals and evaluate the risk associated with long term investment.	U,R,AP,E	PSO1,4,6
CO4	Evaluate the decisions regarding leasing of capital assets.	U,R,AP,E	PSO1,4,6
CO5	Evaluate and Compare the performance of business entities	U,R,AP,E	PSO1,4,6

### INCOME TAX- LAW AND PRACTICE

Course Code: CM010302

Credit: 4

Instructional Hours: 126

Teacher in - charge:

Sl No	Course Outcome	PSO – CO
CO 1	understanding of basic concepts and terms of Income Tax.	PSO 4 PSO 6
CO 2	Students should be able to compute incomes under the head of Salary and House Property.	PSO 4 PSO 6
CO 3	give detailed knowledge to compute income under the head of Profit and Gains from business and profession.	PSO 4 PSO 6
CO 4	determine the income under the head of Capital Gains and Income from other Sources.	PSO 4 PSO 6
CO 5	compute the Gross Total Income and Total Income.	PSO 4 PSO 6
CO 6	prepare the students to compute taxability of Individual and Hindu Undivided Family.	PSO 4 PSO 6

### SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT

Course code:CM010303

Credit: 4

Instructional Hours: 108

Teacher in-charge:

Sl.No	Course Outcome	Cognitive level	PSO-CO
CO 1	Able to understand the concepts of investments, different types of investments, views of investment and process of investment and apply the theoretical knowledge in investment information for selecting the securities.	U,Ap	PSO 1,4,6
CO 2	Understanding the types of risk in security market and Applying various tools for the valuation of bonds as well as economic indicators to predict the market.	U,Ap	PSO 1,4,6
CO 3	Understand the tools of technical analysis, analyse the patterns and trends in the market by using various tools and enable to take investment decisions after understanding market efficiency level also.	U,Ap	PSO 1,4,6
CO 4	Applying Modern portfolio theories and construct optimum portfolios	U,Ap	PSO 1,4,6
CO 5	Revising constructed portfolios as per risk and return association by using different strategies.	U	PSO 1,4,6

### INDIRECT TAX LAWS (Group I)

Course Code: CM800301

Credit : 4

Instructional hours : 108

Teacher in charge :

Code	Course Outcome	PSO-CO
CO1	Understanding the basic concept of the Goods and Service Tax	PSO 4, 6
CO2	Develop a clear idea about the levy and collection of tax and tax credit	PSO4, 6
CO3	Develop the knowledge about the provisions regarding registration, preparations of books of accounts and filing of returns under the Act	PSO4, 6
CO4	Understand about the powers of GST authorities regarding inspection, search and seizure	PSO4, 6
CO5	Basic understanding about the Customs Law in India	PSO4, 6

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### LOGISTICS AND SUPPLY CHAIN MANAGEMENT (Group II)

Course code: CM810301

Credit: 4

Instructional Hours: 108

Teacher in-charge:

Sl.No	Course Outcome	Cognitive level	PSO-CO
CO 1	To have an understanding on the concept of logistics, the elements involved, logistics management and principles	U	PSO 1,4,6
CO 2	Learner should be able to have an idea regarding various demand forecasting techniques	Ap	PSO 1,4,6
CO 3	After learning the module, there shall be an understanding on transportation process and major documents involved in air and ocean logistics management	U	PSO 1,4,6
CO 4	To get a clear idea on supply chain management, its process and evaluate the strategies involved	U,Ap	PSO 1,4,6
CO 5	To have an idea regarding warehousing, its importance and analyse the role of computers in modern day warehousing	U	PSO 1,4,6
CO 6	To have an overview on various trends and developments taking place in the field of logistics and supply chain management	U	PSO 1,4,6

## SEMESTER IV

### ADVANCED COST AND MANAGEMENT ACCOUNTING

Course Code: CM010401

Credit : 4

Instructional hours : 108

Teacher in charge :

Code	Course Outcome	PSO-CO
CO1	Apply activity based absorption methods instead of conventional absorption method.	PSO 3
CO2	Apply the marginal costing principles in decision making situations of businesses.	PSO 3, PSO 5 PSO 6
CO3	Understand the concepts of standard costing, and the process of cost control through it.	PSO 5 PSO 4 PSO 3

<b>CO4</b>	Deal with the practical issues related to transfer pricing	PSO 2 PSO 3, PSO 5
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### INCOME TAXES ASSESSMENT AND PROCEDURES

Course Code:CM010402

Credit: 4

Instructional Hours: 126

Teacher in - charge:

SI No	Course Outcome	PSO – CO
CO 1	prepare the students to compute taxability of firms, AOP/BOI.	PSO 4 PSO 6
CO 2	prepare the students to compute taxability of companies	PSO 4 PSO 6
CO 3	prepare the students to compute taxability of co operative societies and trusts.	PSO 4 PSO 6
CO 4	enable the students to be acquainted with the procedures to be followed for compliance with IT Act	PSO 4 PSO 6
CO 5	the help the students in framing strategies for proper tax planning and management	PSO 4 PSO 6

### DERIVATIVES & RISK MANAGEMENT(Group I)

Course code : CM800401

Credit : 4

Instructional Hours:108

Teacher in charge :

CO No:	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	Knowledge about the derivative market in India, its evolution, types, players, risks involved and basic quantitative Foundations	U,R	PSO 9
CO2	Analyze the implications of Risk in the perception of individuals and Institutions and measurement of risks	U,R,AN	PSO 9
CO3	Understand and explain the concept of forward market and its function	U ,R	PSO 9
CO4	Analyse the operation and pricing of various types of futures	AN	PSO 9
CO5	Understand the concepts and methodology of option trading and apply the models of pricing the option contracts	U,R,AP	PSO 9

CO6	Develop an idea of exchanges through swaps	U,R	PSO 9
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### **RETAIL and RURAL MARKETING (Group II)**

Course code:CM810401

Credit: 4

Instructional Hours: 108

Teacher in-charge:

Sl.No	Course Outcome	PSO-CO
CO 1	Understanding on the concept and structure of retail marketing and its status in India	PSO 1, 4,6
CO 2	Idea regarding the various formats prevailing in retail sector and the setting up and functioning of retail stores	PSO 1, 4,6
CO 3	Understand the marketing mix available for retail marketing and the various aspects of HRM applicable for retailing	PSO 1, 4,6
CO 4	Develop an idea on emerging trends of retailing in India	PSO 1, 4,6
CO 5	understanding regarding rural markets and marketing, its structure in India and the process and importance of agricultural marketing	PSO 1, 4,6
CO 6	Understand the elements of marketing mix applicable in rural marketing, the role of FMCG in rural markets and also the emerging trends in rural markets in India	PSO 1, 4,6

### **PERSONAL INVESTMENT AND BEHAVIOURAL FINANCE (Group I)**

Course code:CM800402

Credit: 4

Instructional Hours: 108

Teacher in-charge:

Sl.No	Course Outcome	PSO-CO
CO 1	Understand the meaning and significance of Financial literacy, Financial Discipline & Financial Competency, the role of family and parents in financial socialisation	PSO 1,4,6
CO 2	Understand and Evaluate the Significance of savings on financial destiny and its relationship with Consumerism and to understand the different elements/steps in Personal Financial Planning to attain Financial Well Being and Evaluate the different retail investment avenues.	PSO 1,4,6

CO 3	Know the meaning of Behavioural Finance, its evolution and related theories	PSO 1,4,6
CO 4	To understand different Heuristics, Biases and other Irrational Investment Behaviours	PSO 1,4,6
CO 5	Understand the relationship between biases and to adopt techniques to lower the impact of biases	PSO 1,4,6

### INTERNATIONAL MARKETING (Group II)

Course code: CM810402

Credit: 4

Instructional Hours: 108

Teacher In charge:

CO NO.	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	Understanding on international marketing and environment.	U, R	PSO 1,4
CO2	To understand the various aspects in connection with product planning and development in international scenario.	U, R	PSO 1,4
CO3	Get an idea regarding Segmentation, targeting, positioning in global market and international pricing strategies	U, R	PSO 1,4
CO4	Acquaintance with international logistics, mode of entry and promotional measures	U, R	PSO 1,4
CO5	Develop an understanding regarding research in international marketing and terms of payments as well as inco terms	U, R	PSO 1,4
CO6	Get an overview on risk in international market, aspects of international marketing and global e marketing	U, R	PSO 1,4

## M.Com 2

### SEMESTER I

#### ADVANCED FINANCIAL ACCOUNTING – I

Course Code: AF01C01

Credit: 4

Instructional Hour: 90

Teacher in charge:



CO NO.	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	Understand the methods of valuation of goodwill and share	R,U	PSO 1,2,4,6
CO2	Acquaint with the amalgamation and reconstruction procedures of companies	R,U,AP	PSO 1,2,4,6
CO3	Understand the proceedings of insolvency of an individual and international reporting standards.	R,U,AP	PSO 1,2,4,6
CO4	Knowledge about human resource accounting	R,U,AP	PSO 1,2,4,6

### PRINCIPLES OF MANAGEMENT & ORGANISATIONAL BEHAVIOUR

Course code : PM01C02

Credit : 4

Instructional Hour : 90

Teacher in charge : Ms.Chinnu mol Sasindran

Sl No	Course Outcome	Cognitive Level	PSO – CO
1	Basic understanding about the concepts of Management of a firm	U	PSO 1,4,6
2	Very good understanding about individual behaviour, personality and motivation	U	PSO 1,4,6
3	Partial understanding about group behaviour and leadership related to organisational behaviour	U	PSO 1,4,6
4	Understand about the various principles of management and functions	U	PSO 1,4,6
5	Partial knowledge about the role of organisational culture and conflict on organisational behaviour	U	PSO 1,4,6

### FINANCIAL MANAGEMENT PRINCIPLES

Course code: FM01C03

Credit: 4

Instructional Hour: 90

Teacher in charge: Ms.Harsha Thomas

CO NO.	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	To familiarize the students with the basic concepts of finance and its management	U,R	PSO1,4,6
CO2	To familiarize the students with the value of money over time & its uses	U,R,AP	PSO1,4,6
CO3	Understanding the concepts of cost of capital & its	U,R,AP	PSO1,4,6

	application		
CO4	To make students aware of risk factors , capital structure & its theories	U,R	PSO1,4,6
CO5	Understanding the students regarding capital budgeting & its calculation methods	U,R,AP	PSO1,4,6
CO6	To have an understanding regarding the concept of leverage & its applications	U,R,AP	PSO1,4,6

#### RESEARCH METHODOLOGY

Course code: RM01C04

Credit : 4

Instructional Hour: 90

Teacher in charge: Ms.Parvathy G. Krishnan

Sl.No	Course Outcome	PSO-CO
CO 1	Develop a thorough understanding about the basic concepts of social science research	PSO 3
CO 2	After completing this module, the learner should be able to formulate a research design	PSO 3
CO 3	After studying the theoretical aspects of sampling design, the students should be able to draw a sampling design.	PSO 3
CO 4	Detailed knowledge about the instrument development, it's validation and different forms of scaling	PSO 3
CO 5	Understand the technique of research reporting.	PSO 3

#### QUANTITATIVE TECHNIQUES

Course code: QT01C05

Credit: 4

Instructional Hours: 90

Teacher in-charge: Anusha R Nair

Sl.No	Course Outcome	PSO-CO
CO 1	This course intends to give understanding about the applications of quantitative techniques	PSO 3 PSO 5
CO 2	After learning this course, the student should be in a position to identify appropriate parametric test for testing the hypotheses	PSO 3 PSO 5
CO 3	The learner should be equipped with the skills to identify the most suitable non-parametric test for testing a hypothesis.	PSO 3 PSO 5

CO 4	The learner should be equipped with the skills to apply the principles of SQC	PSO 3 PSO 5
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## SEMESTER II

### ADVANCED FINANCIAL ACCOUNTING II

Course code: AF02C06

Credit: 4

Instructional Hours: 90

Teacher in-charge:

CO NO.	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	Understand the proceedings of the preparation of consolidated balance sheet	R,U	PSO 1,2,4,6
CO2	Knowledge about accounting of public utility undertakings	R,U,AP	PSO 1,2,4,6
CO3	Knowledge about liquidation proceedings of companies	R,U,AP	PSO 1,2,4,6
CO4	To familiarize accounting of specialized type of business	R,U,AP	PSO 1,2,4,6
CO 5	Acquaint with the theoretical aspects of green accounting	U	PSO 1,2,4,6

### STRATEGIC MANAGEMENT

Course code: SM02C07

Credit: 4

Instructional Hours: 90

Teacher in-charge: Mrs .Tintu Jobin

CO No:	COURSE OUTCOME	Cognitive Level	PSO No:
CO 1	Understanding about the theoretical foundations of strategic management.	U	PSO 1, 4
CO 2	Understanding about various models of environmental and internal analysis.	U	PSO 1,4
CO 3	Development of an idea about the strategy formulation process at the corporate level.	U	PSO 1,4
CO 4	Familiarization with various tools strategic planning and evaluation.	U	PSO 1,4
CO 5	Understanding about the modes of implementation and control of strategies	U	PSO 1,4

## FINANCIAL MANAGEMENT STRATEGIES

Course code: FM02C08

Credit: 4

Instructional Hours: 90

Teacher in-charge: Ms.Harsha Thomas

CO NO.	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	To familiarize the students with the concept of management of working capital	U,R,AP	PSO 1,4,6
CO2	To make students aware about the concept of inventory & level of inventory	U,R,AP	PSO 1,4,6
CO3	To have an understanding regarding receivables & its management	U,R,AP	PSO 1,4,6
CO4	Understanding the students about the term cash , its sources & about its application	U,R,AP	PSO 1,4,6
CO5	To make students aware of various types dividend policies	U,R,AP	PSO 1,4,6

## HUMAN RESOURCE MANAGEMENT

Course code: HR02C09

Credit: 4

Instructional Hours: 90

Teacher in-charge: Ms. Parvathy G . Krishnan

CO No:	COURSE OUTCOME	Cognitive Level	PSO No:
CO 1	Basic concepts of HRM and performance appraisal.	U	PSO 1,4,6
CO 2	Understanding about human resource planning	U	PSO 1,4,6
CO 3	Knowledge about various principles of HRD	U	PSO 1,4,6
CO 4	Understanding about employee motivation techniques	U	PSO 1,4,6
CO 5	Understanding about different leadership styles	U	PSO 1,4,6

## OPERATIONS RESEARCH

Course code: OR02C10

Credit: 4

Instructional Hours: 90

Teacher in-charge: Mrs. Anusha R Nair

SI No	Course Outcome	PSO – CO
CO 1	Develop theoretical understanding about various business optimisation models	PSO 3 PSO 4
CO 2	Ability to develop linear programming models for business problems and solve the same	PSO 3 PSO 1
CO 3	Application of LPP in the areas of transportation and assignment	PSO 3 PSO 4
CO 4	Develop decision making skills under uncertainty risk and avoid unnecessary wasting of time	PSO 3

### SEMESTER III

#### MANAGEMENT ACCOUNTING

Course Code: MA02C11

Credit: 4

Instructional Hours: 90

Teacher In charge: Mr. Anil Kumar

CO NO.	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	Providing an indepth understanding about theoretical aspects ,nature &scope of management accounting	R,U	PSO1 PSO2 PSO4 PSO6
CO2	Providing clear picture about theoretical and pratical aspects of financial statement	R,U,AP	PSO2 PSO4 PSO6
CO3	Depth understanding about theoretical and pratical aspects of ratio	R,U,AP	PSO2 PSO4 PSO6
CO4	Application of fund flow ,cash flow & working capital estimation	R,U,AP	PSO2 PSO4 PSO6
CO5	Theoretical & application about inflation accounting	R,U,AP	PSO2 PSO4 PSO6

## DIRECT TAXES LAW AND PRACTICE

Course Code: DT02C12

Credit: 4

Instructional Hours: 90

Teacher in - charge: Ms. Ashna Varkey

SI No	Course Outcome	PSO – CO
CO 1	understanding of basic concepts and terms of Income Tax.	PSO 4 PSO 6
CO 2	Students should be able to compute incomes under the head of Salary and House Property.	PSO 4 PSO 6
CO 3	give detailed knowledge to compute income under the head of Profit and Gains from business and profession.	PSO 4 PSO 6
CO 4	determine the income under the head of Capital Gains and Income from other Sources.	PSO 4 PSO 6
CO 5	compute the Gross Total Income and Total Income.	PSO 4 PSO 6
CO 6	prepare the students to compute taxability of Individual and Hindu Undivided Family.	PSO 4 PSO 6

## INTERNATIONAL BUSINESS

Course Code: IB03C13

Credit: 4

Instructional Hours: 90

Teacher in charge: Ms. Aleena Joseph

CO NO.	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	Familiarisation with globalization, internationalization of business and the international business environment	U	PSO1,PSO4 &PSO7
CO2	Understanding about the theories of international trade and trade barriers	U	PSO7
CO3	Knowledge about various economic institutions related to international trade	U	PSO7
CO4	Knowledge about various aspects of international monetary system	U	PSO7
CO5	Understanding about international investment environment	U	PSO7

## CORPORATE GOVERNANCE

Course code :CGO3C14

Credit: 4

Instructional Hours: 90

Teacher In charge: Mrs. Jini Jacob & Ms. Harsha Thomas

CO NO.	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	Develop an understanding of the underlying concepts of corporate governance, business ethics & CSR which are relevant to the contemporary business ethics	R&U	PSO1,PSO4 &PSO7
CO2	Understanding the different regulatory processes essential to the principles of corporate governance	R&U	PSO7
CO3	To familiarize the students regarding corporate excellence & cultural diversity management in the organisation	R&U	PSO7
CO4	Understand the definition of ethics & the importance and role of ethical behaviour in the business world today	R&U	PSO7
CO5	Able to define corporate image ,steps for building corporate image , quality work life & related terms	R&U	PSO7

### **BUSINESS ENVIRONMENT**

Course Code: BE03C15

Credit: 4

Instructional Hours: 90

Teacher In-charge: Mrs. Tintu Jobin

Sl No	Course Outcome	Cognitive Level	PSO – CO
CO 1	familiarize the students with the basic concepts of business	U	PSO 1,7
CO 2	familiarize the students with the nature of business environment and its components	U	PSO 1,6,7
CO 3	make the students aware about the relationship between environment and business	U	PSO 1,6,7
CO 4	familiarize the students with economic, socio - cultural, political and technological environment	U	PSO 1,6,7
CO 5	make the students aware about the relationship between government and business	U	PSO 1,6,7
CO 6	identify and evaluate the complexities of business environment and their impact on the business	U	PSO 1,6,7

### **SEMESTER IV**

#### **ADVANCED COST ACCOUNTING**

Course Code: AC04C16

Credit : 3

Instructional hours : 90

Teacher in charge :Chinnu mol Sasindran

Code	Course Outcome	PSO-CO
<b>CO1</b>	Identify the different methods and techniques of costing applicable for different types of industries.	PSO 3
<b>CO2</b>	Apply the methods and techniques of costing to the determination cost in various industries.	PSO 3, PSO 5 PSO 6
<b>CO3</b>	Assess the concept and relevance of marginal costing and Break even analysis and employ them as tools for planning and decision making	PSO 5 PSO 4 PSO 3
<b>CO4</b>	Understand the concept of budget and budgetary control and prepare various budgets	PSO 2 PSO 3, PSO 5

#### **DIRECT TAXES ASSESSMENT AND PROCEDURES**

Course Code: DT04C17

Credit: 4

Instructional Hours: 90

Teacher in - charge: Ms. Ashna Varkey

SI No	Course Outcome	PSO - CO
CO 1	prepare the students to compute taxability of firms, AOP/BOI.	PSO 4 PSO 6
CO 2	prepare the students to compute taxability of companies	PSO 4 PSO 6
CO 3	prepare the students to compute taxability of co operative societies and trusts.	PSO 4 PSO 6
CO 4	enable the students to be acquainted with the procedures to be followed for compliance with IT Act	PSO 4 PSO 6
CO 5	the help the students in framing strategies for proper tax planning and management	PSO 4 PSO 6

#### **M.COM FINANCE (Group I)**

##### **INTERNATIONAL FINANCE**

Course Code: IF04E01

Credit: 3

Instructional Hours: 90



Teacher in charge: Ms. Aleena Joseph

CO NO.	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	Knowledge about ways and means of raising international finance.	U	PSO 8
CO2	Describe international financial environment in the context of international fund flows, international financial markets, and international financial agencies, and how they affect multinational corporations	U	PSO 8
CO3	Imparting idea about various economic institutions related to international trade.	U	PSO 8
CO4	Achieve high level knowledge about various aspects of international monetary system	U	PSO 8
CO5	Develop an understanding about the international investment environment.	U	PSO 8
CO 6	Understand the relationship among inflation, interest rate, and exchange rates using the interest rate parity, the purchasing power parity and the international Fisher effect theories	U	PSO 8

### FINANCIAL MARKETS & DERIVATIVES

Course code:FM04E02

Credit: 3

Instructional Hours: 90

Teacher In charge: Harsha Thomas

CO NO.	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	Familiarization with the indian financial system & the financial market operations in India	R, U	PSO4,6,9
CO2	Understand the various concepts & functioning of the financial system	R, U	PSO4,6,9
CO3	Understand in detail the functioning of the primary & secondary markets.	R, U	PSO4,6,9
CO4	Familiarization with the hedging instrument -'Derivatives'	R, U	PSO4,6,9
CO5	Acquire knowledge of how forward contract, future contracts, swaps & options work, how they are used and how they are priced	U, R, AP	PSO4,6,9

### SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT

Course Code : SA04E03

Instructional Hours :90

Credit : 3

Teacher In-Charge: Mrs. Tintu Jobin

CO No:	COURSE OUTCOME	Cognitive Level	PSO No:
CO 1	Understand the environment of investment and risk return framework	U	PSO 1,4,6
CO 2	Gain knowledge about security analysis	U	PSO 1,4,6
CO 3	Understand different techniques of evaluating the investment	U	PSO 1,4,6
CO 4	Create an awareness about portfolio theories	U	PSO 1,4,6
CO 5	Ability to select and evaluate portfolios with capital market theory and associated models	U	PSO 1,4,6

**M.COM TAXATION (Group II)**  
**RETAIL MANAGEMENT**

Credit: 4

Instructional Hours: 90

Teacher In charge: Jini Jacob

CO NO.	COURSE OUTCOME	Cognitive Level	PSO No:
CO1	Understand the concept of retailing	U	PSO 1,4,6
CO2	Identify & make decisions regarding most feasible buying decision & retail management segmentation	U	PSO 1,4,6
CO3	Understand the retail organisation structure	U	PSO 1,4,6
CO4	Understand the retail channel, pricing , communication mix	U	PSO 1,4,6
CO5	Enable the students to develop skills required for web based retailing electronic payment system	U	PSO 1,4,6

**INDIRECT TAX LAW**

Credit: 4

Instructional hours: 108

Teacher in charge: Anil Kumar K.K

Code	Course Outcome	PSO-CO
<b>CO1</b>	Understanding the basic concept of the Goods and Service Tax	PSO4,6
<b>CO2</b>	Develop a clear idea about the levy and collection of tax and tax credit	PSO4,6

<b>CO3</b>	Develop the knowledge about the provisions regarding registration, preparations of books of accounts and filing of returns under the Act	PSO4,6
<b>CO4</b>	Understand about the powers of GST authorities regarding inspection, search and seizure	PSO4,6
<b>CO5</b>	Basic understanding about the Customs Law in India	PSO4,6

### **CORPORATE TAX PLANNING AND MANAGEMENT**

Credit : 3

Instructional hours : 90

Teacher in charge : Anil Kumar K.K

<b>Code</b>	<b>Course Outcome</b>	<b>PSO-CO</b>
<b>CO1</b>	Understanding the basic concept of Tax Planning	PSO4,6
<b>CO2</b>	Develop the knowledge about management decision	PSO4,6
<b>CO3</b>	A clear idea about Transfer pricing	PSO4,6
<b>CO4</b>	Develop an idea about Business restructuring	PSO4,6
<b>CO5</b>	Basic understanding about special tax provision	PSO4,6

## **MSW**

<b>Course</b>	<b>Details</b>
<b>Code</b>	SW010101
<b>Title</b>	<b>Social sciences for social work</b>
	MSW
<b>Branch</b>	Social work
<b>Semester</b>	I
<b>Type</b>	CORE
<b>Credits</b>	3
<b>Total hours</b>	54
<b>Hours per week</b>	3

<b>CO No.</b>	<b>Expected Course Outcomes Upon completion of this course the students will be able to:</b>	<b>Cognitive level</b>	<b>PSO No.</b>
1	Understand basic concepts of sociology and its different dimensions	U	1
2	Apply the concepts of sociology in Social Work practice	AP	1,6
3	Analyze different dimensions of prevailing social issues in	An	6

	India		
4	Recognize the linkage of social issues and the design of social work interventions	R	6
5	Understand basic economic concepts and the economic situation in India	U	1
6	Appraise the effect of national/global economy on social life in a society	E	1

Course	Details
<b>Code</b>	SW010102
<b>Title</b>	<b>Human growth and development</b>
	MSW
<b>Branch</b>	Social work
<b>Semester</b>	I
<b>Type</b>	CORE
<b>Credits</b>	3
<b>Total hours</b>	54
<b>Hours per week</b>	3

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Demonstrate knowledge of the major influences in human development	C	1
2	Explain the structure and function of the brain	R	1
3	Understand the developmental changes in various developmental stages across the life span	U	1
4	Analyse the importance of developmental psychology in social work practice and be able to link with real life situations	An	1
5	Able to identify the use of theoretical concepts in lifespan stages in social work practice	R	1
6	Understand the theories related to human development.	U	1

Course	Details
<b>Code</b>	SW010103

<b>Title</b>	<b>History ,philosophy,and fields of social work</b>
	MSW
<b>Branch</b>	Social work
<b>Semester</b>	I
<b>Type</b>	CORE
<b>Credits</b>	3
<b>Total hours</b>	54
<b>Hours per week</b>	3

CO No.	Expected Course Outcomes Upon completion of this course the students will be able to:	Cognitive level	PSO No.
1	Understand the history of social work approaches with respect to underlying ideologies and philosophies	U	2
2	Appreciate social work as a profession and to recognize the need and importance of Social Work Education, Training and Practice.	U	2
3	Identify the importance of professional values and ethics in social work practice	R	2
4	Understand different fields of social work intervention and the issues and concerns of social work practice in India.	U	6
5	Understand the social movements and role of social reformers in social welfare	U	2
6	Understand the present issues faced by social work profession	U	3