

## **BA History**

### **Program Outcomes (POs)**

- Remember and obtain a wider knowledge of World History, Indian History, Regional History, Archaeology, Tourism, Journalism, and Computer application in History
- Understand the political, social and cultural facets of the world and develop their historical knowledge.
- Apply his knowledge in the field of Politics, Education and Research.
- Analyze the causes for changes in the course of history.
- Evaluate the role of leaders in society
- Create an environment conducive to peaceful co-existence
- Acquire modern skills, aptitude and potentialities of most creative mode in history.
- Worthy intellectual attitude will be developed among students.
- Appreciate the achievements and values of their own times

### **Program Specific Outcomes (PSOs)**

- Learn and understand history with the ability to know the different historical times of world and acquire knowledge of culture, events, facts, terminologies, conventions and methodology.
- Expand their vision to recognize the diversity of human experience in ethnicity, caste, class, religion, sex and make them work towards Universal Brotherhood.
- Equip with the essentialities of their chosen career.
- Acquire the knowledge of world cultures and their inter-connections with multi-cultural sensitivity.
- Recognize and evaluate the achievements of man in history and progress of ideas.
- Develop practical skills which help in the study and understanding of historical events.
- Install the feeling of patriotism in the hearts of the pupils.
- Analyze the relationship between the past and the present is lively presented in the history.
- Evaluate and recognize the values of History
- Equip to appear for competitive Examinations.

## B.A HISTORY

S.NO	COURSE	COURSE OUTCOME	
<b>Semester I</b>			
1.	<b>Core 1:</b> History of India upto 647 A.D	On the successful completion of the course, student will be able to:	
1		Recall the basic concepts and distinguish the different sources for the study of Indian History.	K1
2		Understand the importance of geography for history.	K2
3		Explain the teachings of Buddha and Mahavira.	K3
4		Realize the importance of Unity in Diversity.	K4
5		Evaluate the career of Asoka, Chandragupta, Kanishka, Harsha.	K5
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create	
2.	<b>Core 2:</b> History of India from 647 AD to 1526 AD	On the successful completion of the course, student will be able to:	
1		Know the Arab Invasion of Sind.	K1
2		Understand the effects of Arab and Turkish invasions.	K2
3		Illustrate the Muslim dynasties that ruled Delhi in the Medieval period.	K3
4		Analyze the social and cultural impact of period.	K4
5		Evaluate and differentiate the various dynasties of Delhi Sultanate.	K5
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create	
3.	<b>Allied 1:</b> Constitutional History of India From 1773 AD. to 1892 AD.	On the successful completion of the course, student will be able to:	
1		Understand the provisions of Charter Acts.	K2
2		Analyze the Government of India Acts passed by the British government.	K4
3		Learns about the historical evolution of the Indian Constitution.	K3
4		Remember the Queen's Proclamation guaranteed to the Indians.	K1
		Know the Indian councils as the law making bodies.	K3
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create	
<b>Semester II</b>			
4.	<b>Core 3:</b> History of India From 1526 AD to 1707 AD	On the successful completion of the course, student will be able to:	
1		Remember the important historical developments of mughal rule.	K1
	2	Classify and compare the regimes of different dynasties and	K2

			recognize and articulate about the diversity of historical experience.	
		3	Apply and accept the concept of religious harmony and its significance to India	K3
		4	Analyze the drawbacks of political and religious animosities of the period.	K4
		5	Evaluate the contributions of Mughals.	K5
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
5.	<b>Core 4:</b> History of India from 1707 AD to 1858 AD	On the successful completion of the course, student will be able to:		
		1	Remember the British Administrators and their reforms.	K1
		2	Understand the colonial wars and their impact.	K2
		3	Apply the constitutional provisions to understand the present political developments.	K3
		4	Analyze the role of Dalhousie in modernization in India.	K4
		5	Evaluate the social reforms and changes in Indian society.	K5
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
6.	<b>Allied 2:</b> Constitutional History of India from 1892 to 1950 AD	On the successful completion of the course, student will be able to:		
		1	Describe the constitutional development of India since 1892.	K1
		2	Understand the changes in home government, Bicameral legislature and provincial autonomy.	K2
		3	Acquire the knowledge of Government of India act of 1935 as the Federal system of Government.	K3
		4	Analyze the proposals of Mount Patten and the impact of partition of India.	K4
			Recognize the importance of Republican constitution of India	K5
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		

### Semester III

7.	<b>Core 5:</b> History of India from 1858 A.D to 1947 A.D	On the successful completion of the course, student will be able to:		
		1	Remember the historical events after Queen's Proclamation.	K1
		2	Understand the factors responsible for emergence of Nationalism.	K2
		3	Apply the principles of Ahimsa and Satyagraha.	K3
		4	Evaluate the importance to Independence.	K5
		5	Analyze the impact of Colonialism.	K4
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
8.	<b>Core 6:</b> History of India from 1947 A.D to 2000A.D	On the successful completion of the course, student will be able to:		
		1	List out the important events after the post Independence period of India.	K1
		2	Understand the foreign policy of India.	K2
		3	Apply the ideals of national leader towards a better society.	K3
		4	Analyze the economic developments during the congress ministries.	K4
		5	Evaluate the National Front government and Kargil war.	K5
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
9.	<b>Allied :</b> Principles of Government	On the successful completion of the course, student will be able to:		
		1	Understand the meaning and different types of constitution.	K2
		2	Gain knowledge about the working of legislature.	K3
		3	Know the Indian Judicial System.	K1
		4	Realize that all citizens are equal in front of law.	K4
		5	Evaluate the working of Indian Constitution.	K5
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>		
10.	<b>Skill Based Subject – I</b> Origin and Growth of Tourism	On the successful completion of the course, student will be able to:		
		1	Know about the meaning and concepts of Tourism.	K1
		2	Classify the types of tourism.	K3
		3	Understand the establishments of WTO, PATA, ITDC, TTDC etc.,	K2
		4	Analyze the qualities of a Tourist Guide.	K4
		5	Evaluate the contribution of tourism to the development of economy.	K5
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>		

### Semester IV

11.	<b>Core 7:</b> History of Tamilnadu upto 1336 A.D	On the successful completion of the course, student will be able to:		
		1	Remember the social and economic development of people from the Sangam Age.	K1
		2	Understand and recognize the administration of the Pallavas and art of making sculpture during that period.	K2
		3	Understand the development of art in ancient Tamilagam.	K2
		4	Analyse the impact of Malik Kafur's invasion.	K3
		5	Apply the ideas and culture of Tamils in their life.	K5
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		
12.	<b>Core 8:</b> History of Tamilnadu from 1336 A.D to 1977 A.D	On the successful completion of the course, student will be able to:		
		1	Remember the historical events of the period.	K1
		2	Understand the Nayak Rule in Tamil Nadu.	K2
		3	Evaluate the establishment of the British rule in Tamil Nadu and evaluate the role of Tamils in Freedom movement	K5
		4	Analyze the rise of various Political Parties and contribution of leaders.	K4
		5	Create interest on Art and Literature of Tamil Nadu.	K6
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		
13.	<b>Allied :</b> Indian Constitution	On the successful completion of the course, student will be able to:		
		1	Understand the evolution of Indian Constitution.	K2
		2	Get interest on Politics, voting right, secularism, equality and citizenship.	K5
		3	Familiarizes the significance of fundamental rights and duties.	K1
		4	Highlight the powers of state executive.	K4
		5	Acquire knowledge about the functions of Election Commission.	K3
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		
14.	<b>Skill Based Subject- II</b> History and Disaster Management	On the successful completion of the course, student will be able to:		
		1	Remember the important disasters in history and evolution of Disaster Management in India.	K1
		2	Understand the social and economic effects of destructions of disasters.	K2
		3	Assess the importance of prevention and preparedness before disasters.	K3
		4	Identify the issues of Global warming, climate change and pollution.	K4
		5	Judge the role of NDMA, SDMA, NDRF, Fire service and Rescue Force and youth during disaster.	K5

		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create															
<b>Semester V</b>																	
15.	<b>Core 9:</b> History of Europe From 1789A.D to 1945 A.D	<p>On the successful completion of the course, student will be able to:</p> <table border="1"> <tr> <td>1</td> <td>Remember about social movements in Europe and the formation of nation states.</td> <td>K1</td> </tr> <tr> <td>2</td> <td>Understand about the expansion of imperial powers, the process of colonization, and democratic.</td> <td>K2</td> </tr> <tr> <td>3</td> <td>Provide opportunities for debates, discussion in small groups, quiz programs and activities requiring to act out the important European events.</td> <td>K3</td> </tr> <tr> <td>4</td> <td>Analyze the causes for outbreak of the two world wars.</td> <td>K4</td> </tr> <tr> <td>5</td> <td>Evaluate the efforts of UNO in promoting world peace.</td> <td>K5</td> </tr> </table> <p><b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create</p>	1	Remember about social movements in Europe and the formation of nation states.	K1	2	Understand about the expansion of imperial powers, the process of colonization, and democratic.	K2	3	Provide opportunities for debates, discussion in small groups, quiz programs and activities requiring to act out the important European events.	K3	4	Analyze the causes for outbreak of the two world wars.	K4	5	Evaluate the efforts of UNO in promoting world peace.	K5
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16.	<b>Core 10:</b> History of England from 1603 A.D to 1945 A.D	<p>On the successful completion of the course, student will be able to:</p> <table border="1"> <tr> <td>1</td> <td>Gain the knowledge of glorious revolution and its effects.</td> <td>K1</td> </tr> <tr> <td>2</td> <td>Understand the Constitutional development of England.</td> <td>K2</td> </tr> <tr> <td>3</td> <td>Analyze the importance of development of Cabinet system and it relation with English monarchs.</td> <td>K4</td> </tr> <tr> <td>4</td> <td>Evaluate the impact of Industrial and Agrarian revolution.</td> <td>K5</td> </tr> <tr> <td>5</td> <td>Know the role of England in World Wars.</td> <td>K1</td> </tr> </table> <p><b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create</p>	1	Gain the knowledge of glorious revolution and its effects.	K1	2	Understand the Constitutional development of England.	K2	3	Analyze the importance of development of Cabinet system and it relation with English monarchs.	K4	4	Evaluate the impact of Industrial and Agrarian revolution.	K5	5	Know the role of England in World Wars.	K1
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17.	<b>Core 11:</b> History of USA upto 1865 A.D	<p>On the successful completion of the course, student will be able to:</p> <table border="1"> <tr> <td>1</td> <td>Understand about the effects of the colonization of USA.</td> <td>K2</td> </tr> <tr> <td>2</td> <td>Analyze the causes and significance of American War of Independence.</td> <td>K4</td> </tr> <tr> <td>3</td> <td>Infer the making of American Constitution.</td> <td>K2</td> </tr> <tr> <td>4</td> <td>Perceive various democratic practices.</td> <td>K4</td> </tr> <tr> <td>5</td> <td>Dissent the system of slavery and racism.</td> <td>K4</td> </tr> </table> <p><b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create</p>	1	Understand about the effects of the colonization of USA.	K2	2	Analyze the causes and significance of American War of Independence.	K4	3	Infer the making of American Constitution.	K2	4	Perceive various democratic practices.	K4	5	Dissent the system of slavery and racism.	K4
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18.	<b>Core 12:</b> India and Her Neighbours	<p>On the successful completion of the course, student will be able to:</p> <table border="1"> <tr> <td>1</td> <td>Understand the features of India’s foreign policy.</td> <td>K2 K5</td> </tr> <tr> <td>2</td> <td>Identify the problems and challenges of India with neighbouring countries.</td> <td>K1 K5</td> </tr> <tr> <td>3</td> <td>Get the knowledge of the role of Indira Gandhi in the liberation of Bangladesh.</td> <td>K4</td> </tr> </table>	1	Understand the features of India’s foreign policy.	K2 K5	2	Identify the problems and challenges of India with neighbouring countries.	K1 K5	3	Get the knowledge of the role of Indira Gandhi in the liberation of Bangladesh.	K4						
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		4	Evaluate the ethnic issues of Sri Lanka.	
		5	Analyze the role of various organizations in maintaining good relations with neighbouring countries.	
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		
19.	<b>Elective – I</b> Archaeology	On the successful completion of the course, student will be able to:		
		1	Understand the importance of Archaeology.	K2
		2	Apply the method of Exploration and Excavation in their Research.	K3
		3	Analyze the Archaeological Artefacts.	K4
		4	Remember and Integrate the knowledge of archaeology in studying history.	K1
		5	Create more Interest on Archaeological sites of Tamil Nadu.	K6
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		
20.	<b>Skill Based Subject- III</b> Computer Application in History – I	On the successful completion of the course, student will be able to:		
		1	Remembers the components of computers.	K1
		2	Understand the utilization of input and output devices.	K2
		3	Apply the knowledge of computer in the practical utilization.	K3
		4	Analyze various tools and operations of Computer.	K4
		5	Kindle interest on Internet of Things.	K6
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		
<b>Semester IV</b>				
21.	<b>Core 13:</b> World History from 1945 A.D to 2000A.D	On the successful completion of the course, student will be able to:		
		1	Know the role of UNO in establishing World Peace.	K1
		2	Understand the nature of the balance of power, regional alliances, the UNO and its achievements.	K2
		3	Analyze the causes for world wars and conditions of peace.	K4
		4	Understand the Cold War between capitalist and communist blocks.	K2
		5	Evaluate the need for disarmament to world peace.	K5
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		
22.	<b>Core 14:</b> History of USA	On the successful completion of the course, student will be able to:		
		1	Remember the important historical events in the U.S.A.	K1

	1865 A.D to 1990 A.D	2	Understand the sufferings of Negroes and support against apartheid.	K2
		3	Apply the reforms of F. D. Roosevelt.	K3
		4	Analyze the merits and demerits of the foreign policy of the U.S.A.	K4
		5	Evaluate the role of U.S.A. in the Cold War.	K5
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		
23.	<b>Core 15:</b> Applied History for Civil Service Examinations	On the successful completion of the course, student will be able to:		
		1	Remember the Indian and global events in history.	K1
		2	Understand history subject and opt it as an optional subject in civil service examination.	K2
		3	Apply the acquired knowledge to successfully qualify in civil service examination.	K3
		4	Scrutinize all the fact and information for competitive examinations.	K4
		5	Evaluate his/her capability of answering to multiple choice questions in competitive exam.	K5
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		
24.	<b>Elective II</b> Introduction to Journalism and Mass Communication	On the successful completion of the course, student will be able to:		
		1	Remember the historical significance of journalism in Indian freedom struggle.	K1
		2	Understand the importance, functions & scope of communication and media.	K2
		3	Apply their knowledge in News writing; News editing and choose careers in Journalism and Mass media.	K3
		4	Analyze more about newspapers, editing pages.	K4
		5	Create more interest on various national and international news agencies.	K6
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		
25.	<b>Elective III</b> Tourism in Tamilnadu	On the successful completion of the course, student will be able to:		
		1	Remember the significance of tourist places in Tamil Nadu.	K1
		2	Learn about the Architecture and Sculpture of the Temples in Tamil Nadu.	K2
		3	Highlight the significance of Hill Stations and commercial cities of Tamil Nadu.	K2
		4	Get motivated to choose a career in tourism.	K3
		5	Analyze the Eco-tourist spots in Tamil Nadu.	K4
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		



26.	<b>Skill Based Subject-IV</b> Computer Application in History – II (Practical)	On the successful completion of the course, student will be able to:		
		1	Remember short cut keys and learn the speedy operation of computers	K1
		2	Understand the utilization of internet.	K2
		3	Apply his computer knowledge in searching educational resources.	K3
		4	Analyze the concept of working of M.S. Office, M.S Word and Excel.	K4
		5	Able to create Web pages.	K6
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		

# **MA History**

## **Program Outcomes (POs)**

- Acquire mastery of the historical knowledge of the diversity of human experience in political, social, cultural, economic, scientific fields and events over a period of time and space.
- Understand the similarities, differences and interconnections of different histories of the world and acquire multicultural sensitivity by exploring the past in different angles.
- Demonstrate mastery of information literacy through writing about the Indian History, World History, History of Tamil Nadu, Archaeology, Museology and Tourism.
- Communicate historical knowledge, interpretations, and arguments clearly in oral presentations and history projects.
- Illustrate an attitude of research of social relevance and develop a secular, scientific approach towards history
- Analyze the political, social and cultural aspects of different times, regimes and dynasties.
- Compare and contrast different events, ideas, thoughts, philosophies and institutions of history to construct a coherent narrative.
- Identify and appreciate the contributions of civilizations, empires and nation states.
- Recognize and evaluate the achievements of man in history and progress of ideas
- Develop worthy intellectual attitude and will acquire the modern skills, aptitude and potentialities of most creative mode in history.

## **Program Specific Outcomes (PSOs)**

- To acquire mastery of the knowledge in history and its various political and social structures, cultures, specific events, facts, terminologies, conventions, and methodology
- To obtain a deep understanding of history with the ability to comprehend the facts and principles of different historical times and make an advance exploration in specific historical topics.

- To assess the values of unity in diversity and construct a humanitarian approach towards society to become better citizens of their nation and world.
- To analyze the history of different societies, civilizations, cultures and their interconnection and classify, compare and contrast the events, facts, concepts, ideas and philosophies.
- To evaluate and recognize the values of history
- To integrate their learning from different fields of history to develop a scientific, secular approach towards history and advance arguments in support of right historical contention.
- To equip with the essentialities of their choice of chosen career.

## M.A HISTORY

S.NO	COURSE	COURSE OUTCOME		
<b>SEMESTER I</b>				
1.	CORE 1: Social and Cultural History of India upto 1206 A.D.	On the successful completion of the course, student will be able to:		
		1	Remember and follow clues, traces left by people who lived in the past.	K1
		2	Understand the problems of their times, their legacy, literature, inventions and discoveries that slowly transformed human societies.	K2
		3	Apply the concepts for contemplation and promoting universal brotherhood and harmony.	K3
		4	Analyze the impact of foreign invasions on society and culture.	K4
		5	Evaluate the contribution of Jainism and Buddhism to Indian Culture	K5
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>		
2.	CORE 2: History of the Delhi Sultanate from 1206 A.D. to 1526 A.D.	On the successful completion of the course, student will be able to:		
		1	Continue to enhance their knowledge through independent work and practice.	K1
		2	Understand the administration and disintegration of Delhi Sultanate.	K2
		3	Apply their knowledge and critical understanding of history to a greater extent.	K3
		4	Act autonomously for planning and executing research and writing.	K4
		5	Critically evaluate the current research, practice, and debate in Medieval history. of India	K5
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>		
3.	CORE 3: History of the Mughals from 1526 A.D to 1773 A.D	On the successful completion of the course, student will be able to:		
		1	Recall the political condition of India as gleaned from Babur Nama.	K1
		2	Summarize the contribution of Sher Shah to Mughal administration.	K2
		3	Recognize the importance of Akbar's Policy in consolidation of the Mughal Rule.	K3

		4	Understand the development of Art and Architecture during the period of Shah Jahan.	K2
		5	Evaluate Aurangzeb and his policies.	K5
		6	Analyse the factors leading to the establishment of British rule in India.	K4
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		
4.	CORE – 4 Constitutional History of India from 1773 A.D. to 1950 A.D.	On the successful completion of the course, student will be able to:		
		1	Remember the provisions of Charter Acts and Government of India Acts passed by the British government and learn about the historical evolution of the Indian Constitution of 1950.	K1
		2	Understand the origin and development Republican Government of India.	K2
		3	Analyze the historical background of the constitution.	K4
		4	Evaluate the importance of Fundamental Rights and Duties.	K5
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		
5.	CORE – 5 History of Indian National Movement since 1885 A.D.	On the successful completion of the course, student will be able to:		
		1	Acquire in depth knowledge of freedom struggle in India.	K1
		2	Understand the factors leading to the rise of nationalism and trace the emergence of Indian National Congress.	K2
		3	Contribute to the society by learning principles of non- violence, sathyagraha, service, sacrifice and patriotism.	K3
		4	Analyse the implications of Colonialism and Communalism.	K4
		5	Evaluate the importance of communal harmony.	K6
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		

6.	Elective I - Epigraphy	On the successful completion of the course, student will be able to:	
		1	Remember the important inscriptions of India. K1
		2	Understand the meaning and evolution of Epigraphy. K2
		3	Identify ancient scripts and also find out new inscriptions. K3
		4	Demonstrate the ability to apply his knowledge in recognizing the scripts. K4
		5	Evaluate the importance of inscriptions in the study of history. K5
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>	
<b>SEMESTER II</b>			
7.	CORE – 6 Social and Cultural History of Tamil Nadu from Sangam Age to 1800 A.D.	On the successful completion of the course, student will be able to:	
		1	Infer the sources available to study the ancient Tamil History and discuss the cultural life during Sangam Age. K1
		2	Outline the development of education, religion and architecture during Pallava period. K2
		3	Assess the influence of temple on social and cultural life of Cholas. K3
		4	Evaluate the economic life of Pandiyas and spread of Islam in Tamil Nadu. K5
		5	Compare, contrast and inspect the changes in architecture and development of literature during Pallava, Chola, Pandya, Vijayanagar and Nayaks periods. K4
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>	
8.	CORE – 7 Social and Cultural History of Tamil Nadu from 1800 A.D. to 1916 A.D.	On the successful completion of the course, student will be able to:	
		1	Recall the sources, facts, events, ideas and personalities. K1
		2	Understand and acquire an indepth knowledge of the social life in Tamil Nadu during 19 <sup>th</sup> Century. K2
		3	Apply a humanitarian approach towards all social problems. K3

		4	Analyze the impact of western system of education in Tamil Nadu.	K4
		5	Evaluate and appreciate the role of reforms movements.	K5
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
9.	CORE – 8 Panchayat Raj	On the successful completion of the course, student will be able to:		
		1	Remember the facts, terms and history of Panchayat Raj system in Tamilnadu.	K1
		2	Understand the origin of Panchayat Raj System in India.	K2
		3	Analyse the functioning of Panchayat Raj system in Independent India.	K4
		4	Evaluate the contributions of self governing institutions for upliftment of the rural masses.	K5
		5	Judge the working of Panchayat Raj system in India at its grass root level and the benefit of welfare schemes.	K5
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>				
10.	CORE – 9 History of KonguNadu	On the successful completion of the course, student will be able to:		
		1	Remember the historical events that happened in Kongu region.	K1
		2	Understand the history of Kongu Nadu under the rule of various dynasties.	K2
		3	Construct an idea about Kongu region as a distinct part of Tamil Nadu in its culture.	K3
		4	Identify the important cities and towns and analyze their historical significance.	K4
		5	Evaluate and recognize economic development of Kongu Nadu.	K5
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>				
11.	CORE-10 Contemporary History of India from 1947 A.D. to 2014 A.D.	On the successful completion of the course, student will be able to:		
		1	Recall the political events since Independence.	K1
		2	Understand the Centre - State Relations and rise of regional parties.	K2
		3	Assess the significance of popular movements after Independence.	K3
		4	Analyse the reservation policy, New Economic policy and the impact of Science & Technology.	K4
		5	Evaluate the major issues that challenge Indian democracy.	K5

		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
12.	Elective II – Principles and Methods of Archaeology	On the successful completion of the course, student will be able to:		
		1	Master the archaeological aspects of Pre-historical cultures and contribution of various archaeological experts.	K1
		2	Identify and understand key themes and concepts in Archaeology and its development.	K2
		3	Apply his knowledge to find out archaeological sites and artifacts.	K3
		4	Analyze the origin and nature of National and State Department of Archaeology in India.	K4
		5	Evaluate excavation, dating methods and other techniques used in Archaeology.	K5
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>		
<b>SEMESTER III</b>				
13.	CORE – 11 History of Ancient Civilization up to 476 A.D. (Excluding India)	On the successful completion of the course, student will be able to:		
		1	Acquire the knowledge of the early History of the World.	K1
		2	Understand the impact of geographical features on history.	K2
		3	Identify and construct an idea about the tools used by the Stone Age men.	K3
		4	Compare and contrast the society and culture of different civilization.	K4
		5	Recognise the contribution of different civilizations.	K5
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>		
14.	CORE – 12 History of Medieval Civilization from 476 A.D. to 1453 A.D.	On the successful completion of the course, student will be able to:		
		1	Remember and think critically about the development of nationalities and people politically, socially, and economically in medieval times.	K1
		2	Understand the changing social and political role of religions in Medieval society and how mixing of religion with politics leads to fragmentation of polity and society.	K2
		3	Analyze the assimilation and transformation of culture and science and acquire the historical awareness of human experience in relation to place and time.	K4
		4	Trace the evolution of political systems and religions and	K5



		evaluate their contribution to world civilization.		
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		
15.	CORE – 13 Historiography: Theory and Methods	On the successful completion of the course, student will be able to:		
		1	Remember the various definitions and terminologies of History.	K1
		2	Understand the meaning of history and acquire the knowledge of history of historiography.	K2
		3	Apply the concepts of history in future historical research and will offer explanations about analytical historical writings.	K3
		4	Able to extract the evidence from primary and secondary sources to evaluate them in historical context.	K4
		5	Create an idea of recent trends in historiography.	K5
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		
16.	CORE – 14 History of Far East from 1800 A.D. to 1989 A.D.	On the successful completion of the course, student will be able to:		
		1	Remember the historical events and interpret them in historical context.	K1
		2	Understand the impact of world wars on China and Japan, Rise of Communism in China and the ideological impact, emergence of China and Japan in Modern world.	K2
		3	Analyze the interconnection of global events and their effect on nations.	K4
		4	Evaluate the causalities of wars and the good fortune of peace that made Japan an economic power.	K5
<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create				
17.	CORE – 15 Social and Cultural History of Tamil Nadu from 1916 A.D. to 2001 A.D.	On the successful completion of the course, student will be able to:		
		1	Remember the important leaders and reformers of the period of study.	K1
		2	Understand the contribution of Dravidian Movement to establish social justice.	K2
		3	Assess the role of Kamaraj in the field of education and its impact.	K3
		4	Compare and contrast the society and culture of various periods of history in Tamil Nadu.	K4

18.		5	Judge the importance of social welfare measures.	K5
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
	Elective III – Interview Skills and Techniques	On the successful completion of the course, student will be able to:		
		1	Remember the etiquette and mannerism.	K1
		2	Understand the meaning and nature of interviews.	K2
		3	Apply the soft skills and the knowledge acquired in real life situations.	K3
		4	Analyse and Identify the strengths and weakness.	K4
		5	Recognize the importance of the Interview skills and Techniques.	K5
		6	Write a good application and curriculum vitae.	K6
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
<b>SEMESTER IV</b>				
19.	CORE – 16 International Relations and Diplomacy from 1914 A.D. to 1991 A.D.	On the successful completion of the course, student will be able to:		
		1	Recall the political events and their effects on international relations.	K1
		2	Understand the concept of balance of power.	K2
		3	Explain the rise of dictatorship and it evil effects on world politics.	K3
		4	Analyze the historical background of international relations between two World Wars.	K4
		5	Evaluate the importance of world peace.	K5
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>		
20.	CORE – 17 Project and Viva Voce	On the successful completion of the course, student will be able to:		
		1	Remember the process of doing research and acquire knowledge of selection of topic, collection and analysis of sources.	K1
		2	Understand the methodology of research.	K2
		3	Apply the acquired knowledge in future research studies.	K3
		4	Compare and contrast different types of sources.	K4

21.		5	Evaluate the sources on the basis of their closeness to truth and derive a conclusion.	K5	
		6	Document the project.		
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>			
	Special Elective – 1 Women Studies	On the successful completion of the course, student will be able to:			
		1	Remember the important social legislations concerning Women.	K1	
		2	Understand the ideals of feminism.	K2	
		3	Apply his wisdom in promotion of women’s rights.	K3	
		4	Analyze the importance of the multidimensional role of women in society.	K4	
		5	Extend support in the creation of an erudite society respecting human rights.	K5	
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>			
22.	Special Elective – 2 Journalism and Mass Communication	On the successful completion of the course, student will be able to:			
		1	To remember the role of press in obtaining, preserving and exercising freedom of expression and thought.	K1	
		2	To understand the course of Indian journalism.	K2	
		3	To apply the tools of journalism and mass communication.	K3	
		4	To analyze the components and genuinity of the news and social media.	K4	
		5	To create news agency or to take up freelance journalism.	K5	
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>			
23.	Elective IV – Temple Art and Architecture of Tamilnadu	On the successful completion of the course, student will be able to:			
		1	Remember the important temples of Tamilnadu.	K1	
		2	Understand the art and architectural features of the temples of various dynasties.	K2	
		3	Choose temple study as a subject for research.	K3	
		4	Differentiate the art and architecture of different dynasties and period.	K4	
		5	Evaluate the skill of artisans in producing the marvels of temple art and architecture.	K5	
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>			

## B.A. ECONOMICS

### Programme Specific Objectives (PSO) For Under Graduate Degree in Economics

- PSO 1: **Knowledge of Economic System:** An ability to understand economic theories and functioning of basic micro- economic and macro-economic system
- PSO 2: **Statistical and Mathematical skills:** Acquaint with collection, organization, tabulation and analysis of empirical data. Ability to use basic mathematical and statistical tools to solve real economic problems.
- PSO 3: **Econometric Application:** Acquaint with basic and applied econometric tools and methods used in Economics. The aim of this course is to provide foundation in applied econometric analysis and develop skills required for empirical research in Economics. It also covers statistical concepts of hypothesis testing, estimation and diagnostic testing of simple and multiple regression model.
- PSO 4: **Development Perspectives:** Defining the developmental policies designed for developed and developing economics. The course also acquaints with the measurement of development, with the help of theories along with the conceptual issues of poverty and inequalities.
- PSO 5: **Environmental strategy and Management:** This course emphasizes on environmental problems emerging from economic development, Economic principles are applied for valuation of environmental damages, tools for evaluation of environmental projects such as cost-benefit analysis and environmental assessments.
- PSO 6: **Perspectives on Indian Economy:** Acquaint with basic issue of Indian economy and learn the basic concepts of monetary analysis and financial marketing in Indian Financial markets. This course reviews major trends in economic indicators and policy debates in India in the post-independence period.

## **Programme Outcome (PO) For Under Graduate Degree in Economics**

- PO 1:** Creation of knowledge in fundamentals of Economics, application of Economics with the help of Mathematics, Statistics and Computer Applications is a strong foundation for UG Students.
- PO 2:** Train the students to understand the concepts and theories in Economics to practical problems solving in the realworld.
- PO 3:** Decision making and evaluate the solutions for useful complex economic issues and train the students to meet the specified needs to resolve complex economic problems.
- PO 4:** Train the students in Industrial, Agricultural and Service sector economics. This will be helpful for them to get into the concern sector for their Job Oriented goals.
- PO 5:** Create knowledge and select the issues to adopt the techniques to understand resource allocation and Macro Economic policies in Indian Economy.
- PO 6:** By way of getting complete knowledge in Economics may helpful for them to commit for the professional Ethics and responsibilities taken by them in their professional Career.
- PO 7:** Students of undergraduate in Economics are practiced for Basic knowledge in Economics, Mathematics, Statistics and Accountancy. This type of getting knowledge may helpful to students to clear any kind of basic Competitive Examinations.
- PO 8:** Knowledge in Economics and creation of domain knowledge will be effectively served to the students to understand the Society, Societal complex problems and for attainment of Comprehensive Solutions.

## M.A. ECONOMICS

<b>Program Outcomes (POs)</b>	
On successful completion of the <b>M.A Economics</b> program	
PO1	Identify the standard level of growth and development of the economy of the country and to determine and frame planning policies.
PO2	Identify and formulate the research design, analyze data and be able to unite the research report and provide valid inferences.
PO3	Understand the concepts of national income, macroeconomic variables such as multiplier, consumption, investment and general equilibrium.
PO4	To gain mathematical knowledge for better understanding of economic concepts and theory and ability to apply the knowledge in the formulation and validation of economic theories.
PO5	Understand and apply the knowledge of the industrial economics on location, efficiency, productivity and industrial policies
PO6	Frame monetary policies, understand and analyze the value of money, cashbalance, capital markets and banking system and hence improve the ability to compare central bank function with that of the othercountries.
PO7	To understand how the individuals and firms allocate their scarce resources and to provide training andemployment.
PO8	Improve the ability to formulate theories and economic models to test and validate the concepts with practical knowledge.
PO9	Used to estimate the specific figures which enable them to predict future economically oriented events.
PO10	Engage effectively with computer knowledge especially Windows, LINUX and other software and to analyze and interpret the data.

<b>Program Specific Outcomes (PSOs)</b>	
After the successful completion of <b>M.A Economics</b> program, the students are expected to	
PSO1	To apply economic theories and to expand the problem-solving acumen.
PSO2	They will be taught the applications of theories in analyzing current economic problems
PSO3	Conscious about the socio-economic environment, both domestic and international and its implications on business.
PSO4	The students of Economics can easily crack the competitive examinations and can become successful in getting employment opportunities.
PSO5	Open up research opportunities in the national level premier educational institutes.
PSO6	The character building of students and makes them responsible citizens.
PSO7	The students are exposed to national and international problems and hence they will have a thorough understanding of national and international economic events.
PSO8	To understand the importance of inclusion, development and sustainability in order to resolve related local, national and global issues.
PSO9	To foster a spirit of scientific inquiry and creativity.
PSO10	To geared up for advanced level of studies.

## BACHELOR OF ECONOMICS

S.NO	COURSE	COURSE OUTCOME		
1.	Core 1: MICRO ECONOMICS-I	On the successful completion of the course, student will be able to:		
		1	To improve the knowledge of students on the basics of Micro Economics	K1
		2	To analyze the economic relationship between the variables.	K2
		3	To enhance the skills of students in the measurement of variables and relationship.	K3
		4	To improve the attitude of students towards economic laws.	K4
		5	To generate an interest in the application of economics for business decision, planning and forecasting.	K6
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
2.	Core 2: AGRICULTURAL ECONOMICS	On the successful completion of the course, student will be able to:		
		1	To improve the knowledge of students on the status of agricultural sector.	K1
		2	To encourage the skills of students in the measurement of productivity.	K2
		3	To stimulate the students in the applications of Agricultural economics in pricing.	K3
		4	To engage the students in the analysis of debt crisis in the farm sector.	K4
		5	To prepare on proactive attitude towards the internal and external changes in the agricultural sector.	K6
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
3.	ALLIED PAPER – I History of India 1600 – 1857 AD.	On the successful completion of the course, student will be able to:		
		1	Remember the British Administrators and their reforms	K1
		2	Understand the colonial wars and their impact.	K2
		3	Apply the constitutional provisions to understand the present political developments.	K3
		4	Analyze the role of Dalhousie in modernization in India.	K4
		5	Evaluate the social reforms and changes in Indian society	K6
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
<b>Semester II</b>				
4.	Core 3: MICRO ECONOMICS-II	On the successful completion of the course, student will be able to:		
		1	To improve the knowledge of students on the markets and competition.	K1
		2	To analyze the business decision process.	K2
		3	To improve the skill of students in the findings of market equilibria	K3
		4	To motivate the students improving their attitude towards the logics of factor pricing.	K4

		5	To enhance the applicability of ideas and concepts	K6
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		
5.	Core paper :4 HISTORY OF ECONOMIC DOCTRINE :	On the successful completion of the course, student will be able to:		
		1	To create knowledge on the evaluation of economic ideas.	K1
		2	To increase a positive attitude towards economic ideas.	K2
		3	To make the analytical interest in the Marxian Economics.	K3
		4	To understand the application of economic theories.	K4
		5	To enhance the applicability of ideas and concepts	K5
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		
6.	Allied Paper 2 : HISTORY OF INDIA 1858 – 1964 AD	On the successful completion of the course, student will be able to:		
		1	Remember the historical events after Queen’s Proclamation.	K1
		2	Understand the factors responsible for emergence of Nationalism.	K2
		3	Apply the principles of Ahimsa and Satyagraha.	K3
		4	Evaluate the importance to Independence.	K4
		5	Analyze the impact of Colonialism	K6
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		



<b>Semester III</b>				
7.	Core 5: MACRO ECONOMICS-I	On the successful completion of the course, student will be able to:		
		1	Understand the evolution of Macro Economics and also know the difference between micro and macroeconomics.	K1
		2	Examine the various concepts of National income Accounting and issues related to measurement of National income, and also develop an environmental concern in economic activities	K2
		3	Comprehend the classical theory of output, employment and income and consumption function	K3
		4	Apply the knowledge to understand the Consumption function and theories of consumption function.	K4
		5	Gain the knowledge about various concepts of investment, determinants of investment, role of MEC.	K6
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
8.	Core 6: STATISTICAL METHODS	On the successful completion of the course, student will be able to:		
		1	To get knowledge of method of collecting data.	K1
		2	To understand the skill of draw the various diagram and graphical representation.	K2
		3	To improve the analytical skill of measures of Central Tendency.	K3
		4	To analyse the Correlation and Regression.	K4
		5	To acquire the knowledge on index numbers.	K5
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
9.	Allied Paper 3: BUSINESS MANAGEMENT FOR ECONOMICS	On the successful completion of the course, student will be able to:		
		1	To get the knowledge of nature and functions of management.	K1
		2	To acquire skill of various management planning.	K2
		3	To know the forecasting techniques and decision making.	K3
		4	To acquire knowledge of manpower planning, motivation theory and communication Barriers and importance.	K4
		5	To understand the importance of leadership in business scenario	K5
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		

10	PART – IV SKILLS BASED SUBJECT PAPER - I: FINANCIAL ACCOUNTING	On the successful completion of the course, student will be able to:		
		1	To recall the basic accounting principles and techniques	K1
		2	To get knowledge of double entry system, Journals, Ledger and trial balance.	K2
		3	To understand the ideas of bank reconciliation statement.	K3
		4	To get application knowledge of preparing final accounts.	K4
		5	To enhance the application knowledge of Single Entry System, Income & Expenditure Account and Balance Sheet.	K5
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
<b>Semester IV</b>				
11.	Core 7: MACRO ECONOMICS – II	On the successful completion of the course, student will be able to:		
		1	To Explain the principle of Multiplier and Accelerator, Super Multiplier.	K1
		2	To Attain the knowledge in classical and Keynesian theories of income and employment.	K2
		3	To Analyze the various phases of trade cycle and the theories of trade cycles.	K3
		4	To Understand the working conditions of product and money market, Shift in IS and LM curves.	K4
		5	To Explain the Economic role of monetary and fiscal policies in developing Economy.	K5
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
	Core 8: MATHEMATI CAL ECONOMICS	On the successful completion of the course, student will be able to:		
		1	To create the fundamental knowledge in Mathematics.	K1
		2	To encourage the students to understand the concepts.	K2
		3	To train the students in the analysis of economics issues.	K3
		4	To help the students to calculate the changes in basic economic variables	K4
		5	To prepare students in decision making.	K6
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		

13.	Allied 4: COMPUTER APPLICATIONS IN ECONOMICS	On the successful completion of the course, student will be able to:		
		1	To improve the knowledge of students in computer.	K1
		2	To encourage the students to acquire knowledge on the basic concepts of computer in economics.	K2
		3	To provide knowledge on business applications.	K3
		4	To provide the students to develop computer skills and its applications in economics and business.	K4
		5	Useful to students to get practical knowledge for their employment purposes.	K6
		<b>K1</b> – Remember; <b>K2</b> – Understand; <b>K3</b> – Apply; <b>K4</b> – Analyze; <b>K5</b> – Evaluate; <b>K6</b> – Create		
14.	Part IV – Skill Based Subject II- TRADE DOCUMENTATION	On the successful completion of the course, student will be able to:		
		1	To help the students to know about the importance of international trade and licensing.	K1
		2	To understand the necessary knowledge on shipping procedures.	K2
		3	To know about the basic export and import documents.	K3
		4	Make the students to gain knowledge on basic export procedures	K4
		5	To help the students to search for jobs in export industries	K6
		<b>K1</b> – Remember; <b>K2</b> – Understand; <b>K3</b> – Apply; <b>K4</b> – Analyze; <b>K5</b> – Evaluate; <b>K6</b> – Create		

<b>Semester V</b>				
15.	Core 9: MONETARY ECONOMICS	On the successful completion of the course, student will be able to:		
		1	To help the students to know about the importance of money in the economy.	K1
		2	Make to learn about theories of money.	K2
		3	To acquaint the students with the working of money and financial markets	K3
		4	To encourage the students to learn about the role of money in different business situations.	K4
		5	Help the students to know about the importance of banking system in the economy	K6
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
16.	Core 10: INDIAN ECONOMIC DEVELOPMENT AND POLICIES	On the successful completion of the course, student will be able to:		
		1	Understand the new economic reforms and the schemes of central and state Government	K1
		2	Assessing the role and growth of agriculture and its impact on rural development	K2
		3	Examining the population growth in India and its impact on the economy	K3
		4	To measure the infrastructural facilities and its role in economic development	K4
		5	To analyze the problems of the regional economy	K6
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
17.	Core 11: INTERNATION AL ECONOMICS	On the successful completion of the course, student will be able to:		
		1	To understand the basic concepts of International Trade	K1
		2	To evaluate and apply the comparative cost theory	K2
		3	To examine the balance of payments and the terms of trade in an economy	K3
		4	To analyse the exchange rate of the economy	K4
		5	To assess the functioning of the international financial institutions	K6
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
18.	Core 12: ENTREPRENEURS HIP DEVELOPMENT	On the successful completion of the course, student will be able to:		
		1	To acquire the knowledge regarding characteristics of an entrepreneur	K1
		2	To develop an interest in entrepreneurial activity	K2

		3	To equip them with entrepreneurial skills for self-employment	K3
		4	To assess the training and financial facilities available for entrepreneurs	K4
		5	To understand the business correspondence and communication	K6
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
19.	PART - IV SKILL BASED SUBJECT PAPER III- COMPUTER SYSTEM – I – THEORY	On the successful completion of the course, student will be able to:		
		1	To understand the basic concepts of computer	K1
		2	To analyse the input devices of the computer	K2
		3	To examine the output devices of a computer	K3
		4	To work practically with tally ERP	K4
		5	To enable students to work on different kinds types of vouchers	K6
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
<b>Semester VI</b>				
20.	Core 13: FISCAL ECONOMICS	On the successful completion of the course, student will be able to:		
			To create knowledge on the scope of fiscal economics	K1
		2	To analyze public revenue and the impact of taxation	K2
		3	To assess the impact of public expenditure	K3
		4	To understand public debt and the budgetary procedure	K4
		5	Application of fiscal instruments on the economy	K5
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
21.	Core 14: INDUSTRIAL ECONOMICS	On the successful completion of the course, student will be able to:		
		1	To understand the factors determining the size of the firm	K1
		2	To examine the factors affecting the location of an industry	K2
		3	To understand the impact of industrial finance	K3
		4	To evaluate the Industrial policies	K4
		5	To assess the Industrial Productivity.	K5
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		

22.	Core 15: ENVIRONMENTAL ECONOMICS	On the successful completion of the course, student will be able to:		
		1	To familiarize with the theories of environmental economics.	K1
		2	To examine the practical environmental problems and offer solutions.	K2
		3	To analyze the regulations and prohibition measure to protect the environment	K3
		4	To assess India's environmental policies.	K4
		5	To measure the government activity against environmental problem	K6
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
23.	Elective – I: AUDITING	On the successful completion of the course, student will be able to:		
		1	Ability to perform the analysis of various types of audit.	K1
		2	To understand the audit procedure and audit programmes.	K2
		3	To analyze the vouching and impersonal ledgers.	K4
		4	To gain knowledge and to evaluate Verification and valuation of assets and liabilities.	K3
		5	To construct the knowledge of Rights and duties of company Auditor – Liabilities of company Auditor.	K6
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
24.	Elective – III: ACCOUNTANCY FOR ECONOMICS	On the successful completion of the course, student will be able to:		
		1	To understand the time value of money	K1
		2	To analyse the financial statement and the comparative statement analysis	K2
		3	To assess the fund flow statement	K3
		4	To examine the accounting ratios	K4
		5	To evaluate the elements of cost	K6
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		

25.	PART – IV SKILL BASED SUBJECT PAPER IV: COMPUTER SYSTEM - II	On the successful completion of the course, student will be able to:		
		1	To understand MS office Basics To analyze MS Word	K1
		2	To evaluate and work with MS Excel	K2
		3	To work with MS Power Point	K3
		4	To understand MS Access	K4
		5	To understand MS office Basics	K5
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		

## MASTER OF BUSINESS ECONOMICS

S.NO	COURSE	COURSE OUTCOME	
<b>Semester I</b>			
1.	Core Paper. 1	On the successful completion of the course, student will be able to:	
	ADVANCED MICRO ECONOMICS-I	1	To understand the economic theories and concepts. K1
		2	To understand about the demand potentials. K2
		3	To analyze the production and cost. K3
		4	To gain knowledge and to evaluate the price and the output for various markets. K4
		5	To construct the knowledge of policy decision. K6
			<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create
2.	Core Paper. 2	On the successful completion of the course, student will be able to:	
	ECONOMIC DEVELOPME NTAND POLICIES	1	Create the knowledge about the economic theories and growth models. K1
		2	Provide an illustration of Indian economy. K2
		3	Construct the knowledge of economic planning and growth. K3
		4	To critically evaluate the current economic issues. K4
		5	To construct a critical study on the development of the economic scenario. K5
			<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create
3.	Core Paper .3	On the successful completion of the course, student will be able to:	
	MARKETING MANAGEMENT	1	To understand about market planning and market environment. K1
		2	To know about consumer behaviour in the context of market segmentation. K2
		3	To expose with product promotion branding and pricing techniques K3
		4	To express the various channels of distribution. K4
		5	To gain knowledge on marketing strategies and consumer rights. K6
			<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create
4.	Core Paper. 4	On the successful completion of the course, student will be able to:	
	QUANTITATIVE TECHNIQUES FOR MANAGERIAL DECISIONS	1	To understand the various quantitative techniques in managerial practices. K1
		2	To apply the mathematical tools to test and formulate the economic theories. K2
		3	To analyze the various techniques of derivatives and their applications. K4



		4	To analyze the quantitative tools for managerial decision.	K5
		5	To understand the practical knowledge of decision making.	K6
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
5.	Elective Paper. 1  TAMIL NADU ECONOMY	On the successful completion of the course, student will be able to:		
		1	To improve the knowledge of students on the markets and competition.	K1
		2	To analyze the business decision process.	K2
		3	To improve the skill of students in the findings of market equilibria	K3
		4	To motivate the students improving their attitude towards the logics of factor pricing.	K4
		5	To enhance the applicability of ideas and concepts	K6
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
<b>SEMESTER -II</b>				
6.	Core Paper. 5  ADVANCED MICRO ECONOMICS-II	On the successful completion of the course, student will be able to:		
		1	To understand basic concepts of micro economics and acquire analytical skills to analyse Problems of economic policy.	K1
		2	To understand the theoretical arguments.	K2
		3	To analyse various theories of distribution.	K3
		4	To gain knowledge of the optimal conditions and principles.	K4
		5	To construct the economic models as an approach.	K6
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
7.	Core Paper. 6  MACRO ECONOMICS	On the successful completion of the course, student will be able to:		
		1	To understand the sectoral flow of national income in the economy.	K1
		2	To evaluate a critical insight on classical and Keynesian macroeconomics models.	K2
		3	To evaluate critically on consumption function and investment function.	K3
		4	To know the contributions of Friedman, Phelps and Phelps in uncertainty.	K4
		5	To construct the sound knowledge of macroeconomics policy.	K5
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		

8.	Core Paper. 7  AGRICULTURAL ECONOMICS	On the successful completion of the course, student will be able to:		
		1	To understand the nature and scope of agricultural economics.	K1
		2	To understand the various land reforms and the importance of land policies.	K2
		3	To familiarize with production functions in agriculture and productivity.	K3
		4	To analyse agriculture marketing functions.	K4
		5	To construct the role of capital and rural credit.	K6
		<b>K1</b> – Remember; <b>K2</b> – Understand; <b>K3</b> – Apply; <b>K4</b> – Analyze; <b>K5</b> – Evaluate; <b>K6</b> – Create		
<b>Semester III</b>				
9.	Core Paper. 8  ECONOMETRICS	On the successful completion of the course, student will be able to:		
		1	To demonstrate the econometrics models.	K1
		2	Understand the nature and scope of econometrics as a social science	K2
		3	Use appropriate tests to detect autocorrelation	K4
		4	Evaluating the simultaneous equation model	K5
		5	To develop the skills of selecting appropriate data and estimate an econometric model.	K6
		<b>K1</b> – Remember; <b>K2</b> – Understand; <b>K3</b> – Apply; <b>K4</b> – Analyze; <b>K5</b> – Evaluate; <b>K6</b> – Create		
10.	Core Paper. 9  INDUSTRIAL ECONOMICS	On the successful completion of the course, student will be able to:		
		1	To understand the scope of industrial economics and motives of the organizational firm.	K1
		2	To evaluate economic theories of location and their importance.	K2
		3	To investigate the scope and significance of industrial productivity.	K3
		4	To examine the concentration of economic power and the application of industrial policies.	K4
		5	To evaluate the industrial backwardness and regional disparities.	K6
		<b>K1</b> – Remember; <b>K2</b> – Understand; <b>K3</b> – Apply; <b>K4</b> – Analyze; <b>K5</b> – Evaluate; <b>K6</b> – Create		
11.	Elective Paper. 2  ENTREPRENEURIAL DEVELOPMENT	On the successful completion of the course, student will be able to:		
		1	. To understand the importance and characteristics of entrepreneurs	K1

		2	To analyse knowledge of the sources of business ideas.	K2
		3	To motivate the women entrepreneurs in the present scenario of the economy.	K3
		4	To be familiar with the objectives of training and finance.	K4
		5	To be analysed with the objectives of training and finance.	K6
<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>				
<b>Semester III</b>				
12.	Core Paper. 10  MONETARY THEORY AND POLICES	On the successful completion of the course, student will be able to:		
		1	To gain sound knowledge in monetary theories and banking practices.	K2
		2	To evaluate India's monetary problems	K5
		3	To examine role and functions of commercial and central banks	K4
		4	To gain the knowledge about the Monetary system of LDCs.	K2
		5	To analyse the recent development in the monetary economics.	K1
<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>				
13.	Core Paper. 11  RESEARCH METHODOLOGY	On the successful completion of the course, student will be able to:		
		1	To get knowledge of method of collecting data.	K1
		2	To understand the skill of draw the various diagram and graphical representation.	K2
		3	To improve the analytical skill of measures of Central Tendency.	K3
		4	To analyse the Correlation and Regression.	K4
		5	To acquire the knowledge on index numbers.	K5
<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>				
14.	Core Paper. 12  COMPUTER APPLICATIONS IN ECONOMICS	On the successful completion of the course, student will be able to:		
		1	To become familiar with basic knowledge on computer with languages and operating packages	K1
		2	To draw distributive tables, graphs, and trend lines.	K3
		3	To estimate the parameters of data analysis and interpret it.	K4
		4	To use word processing in computers	K5
<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>				

15.	Core Paper.13 ENVIRONMENTAL ECONOMICS	On the successful completion of the course, student will be able to:		
		1	To familiarize with the theories of environmental economics.	K1
		2	To examine the practical environmental problems and offer solutions.	K4
		3	To analyze the regulations and prohibition measure to protect the Environment	K5
		4	To assess India's environmental policies.	K4
		5	To measurement the government activity against environmental problem	K2
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
16.	Core Paper. 14 LABOUR ECONOMICS	On the successful completion of the course, student will be able to:		
		1	Demonstrate a sound understanding of the core concepts and tools of labour economics and Policy.	K2
		2	To apply economic principles of labour market and contemporary academic Literature	K1
		3	To evaluate the nature jobs in social and economic environments	K4
		4	Critically evaluate government policies affecting work and jobs.	K5
		5	To identify and utilise the labour welfare legislation in India.	K6
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
17.	Elective Paper. 3 FINANCIAL MARKETS	On the successful completion of the course, student will be able to:		
		1	To conversant with the theory and practice of different financial institutions and Markets.	K1
		2	To understand and analyse the interconnection between the monetary forces and real Forces.	K2
		3	To familiar with the role and limitations of money market and capital market	K4
		4	To understand the Indian markets	K3
		5	To shape and influence the monetary and related policies both at the national and international levels	K5

		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
<b>Semester IV</b>				
18	Core Paper. 15  PUBLIC ECONOMICS	On the successful completion of the course, student will be able to:		
		1	To understand the theoretical aspects of public economics and its applications.	K1
		2	To analyze the efficient allocation for public goods.	K2
		3	To analyze policy applications on welfare assistance.	K3
		4	To critically analyze fiscal policies and its implication in Indian economy.	K4
		5	To discuss the implications of policy for efficiency, equity and growth.	K5
		6	To discuss the implications of policy for efficiency, equity and growth	K6
		K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		
19	Core Paper. 16  INTERNATIONAL ECONOMICS	On the successful completion of the course, student will be able to:		
		1	To develop a systematic knowledge on composition, direction and consequences of International trade.	K1
		2	To understand the processes of international economic relations as the part of global Market economy.	K2
		3	To acquire skills on the various aspects of exchange rate.	K3
		4	To aware about international financial markets, balance of payments and the trade Balance, and the capital flow.	K4
		5	To evaluate the role of international institutions on trade practices.	K5
		K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		
20	Core Paper. 17  HUMAN RESOURCE MANAGEMENT	On the successful completion of the course, student will be able to:		
		1	To analyze human resource planning and forecasting techniques.	K4
		2	To investigate and interpret the key procedures in recruitment and selection.	K2
		3	To describe and analyze about the training and development.	K3
		4	To illustrate the essential features of human resource information system.	K1
		5	To evaluate employee self-analysis and reflect upon personal improvement.	K5
		6	To evaluate significant contemporary issues in human	K6

		resource management.		
		K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		
21	Elective Paper. 4	On the successful completion of the course, student will be able to:		
	EXPORT PROCEDURE	1	To understand the concepts of custom clearance in international business.	K2
		2	To know about the process of international customs clearance operations.	K1
		3	To evaluate the global business environment in terms of economic and legal aspects.	K5
		4	To analyse the principles of international business and strategies adopted by firms to for exporting products globally.	K4
		5	To examine the shipment formalities and procedures.	K3
			K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create	

**PROVIDENCE COLLEGE FOR WOMEN**  
**DEPARTMENT OF MATHEMATICS**

B.Sc Mathematics 2022-2023

<b>Program Specific Outcomes (PSOs)</b>	
After the successful completion of <b>B. Sc. Mathematics</b> program, the students are expected to	
PSO1	Maintain a core of mathematical and technical knowledge that is adaptable to changing technologies and provide a solid foundation for extended learning.
PSO2	Identify the applications of Mathematics in other disciplines and society.
PSO3	Develop an in-depth knowledge in Mathematics appreciating the connections between theory and its applications.
PSO4	Demonstrate their mathematical modeling ability, problem solving skills, creative talent and power of communication necessary for various kinds of employment.
PSO5	Develop mathematical aptitude and the ability to think abstractly.
PSO6	Learn independently and improve one's performance.
PSO7	Students are equipped to appear competitive examinations.

<b>Program Outcomes (POs)</b>	
On successful completion of the <b>B. Sc. Mathematics</b> program	
PO1	Students are empowered with analytical and logical skills-to formulate results and construct mathematical argument.
PO2	Ability to organize, analyze and interpret data accurately in both academic and non -academic context.
PO3	Demonstrate effective communication of mathematical ideas and creative thinking skills to facilitate solving real world problems as a team and independently.
PO4	Appreciate and identify the connections between Mathematics and other disciplines.
PO5	Competency to obtain employment in education, public and private sectors.
PO6	Identify the area of interest for extended learning from the understanding gained from the domain and allied areas of Mathematics.
PO7	Develop mathematical aptitude and make critical observations.
PO8	Enrich them with innovative ideas to face global challenges.
PO9	Instill a sense of responsibility in tackling professional and social issues ethically.
PO10	Trigger their passion for research in unexplored areas of Mathematics.

**B.Sc MATHEMATICS - Course outcome - 2021-2022**

S.No	Course	Course Outcome			
1	Core 1 : CLASSICAL ALGEBRA	Semester I			
		On the successful completion of the course, student will be able to:			
		CO1	Know the concept of Binomial, Exponential, Logarithmic application to summation of series.	K1	
		CO2	Acquire a clear knowledge regarding methods to find an	K2	
		CO3	Apply the appropriate tests to find the convergence or	K3	
		CO4	Apply Descartes's rule of signs to find the number of	K3	
		CO5	Analyze the relation between roots and coefficients of the	K4	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>					
2	Core 2 : CALCULUS	On the successful completion of the course, student will be able to:			
		CO1	Identify areas in Mathematics and other fields where	K1	
		CO2	Understand the concepts of Evolutes and Envelopes, curvature and evolutes.	K2	
		CO3	Apply the concept of change of variables in double and	K3	
		CO4	Apply double, triple integral to find the area and volume	K3	
		CO5	Apply the Beta and gamma function to solve the multiple	K4	
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>			
3	Core 3 : ALLIED PHYSICS I	Semester I			
		On the successful completion of the course, student will be able to:			
		1	Understand and define the laws involved in gravitation and	K2	
		2	Develop the knowledge about heat and thermodynamics, sound	K3	
		3	Understand the concept of properties of matter and to recognize their applications in various real problems.	K4	
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyse; K5 - Evaluate; K6 - Create</b>			
		K4			
4	Core 4 : ANALYTICAL GEOMETRY	Semester II			
		On the successful completion of the course, student will be able to:			
		CO1	Gain knowledge about the regular geometrical figures and properties.	K1	
		CO2	Describe the geometric concepts.	K2	
		CO3	Find equation to tangent, normal at a point on a conic	K3	
		CO4	Analyze condition of tangency and find the tangent plane to	K4	
		CO5	Analyze conics to explain natural phenomenon	K4	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>					
5	Core 5 : TRIGONOMETRY, VECTOR CALCULUS	On the successful completion of the course, student will be able to:			
		CO1	Know the expansion of trigonometric functions and	K1	
		CO2	Acquire the basic knowledge of vector differentiation and	K2	
		CO3	Determine and apply the important quantities associated with vector fields such as the divergence, curl and scalar potential.	K3	



	CALCULUS AND FOURIER SERIES	CO4	Understand and find Fourier series of a given periodic	K3	
		CO5	Examine line integral, surface integral, volume integral and inter-relations among them .	K4	
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>			
6	Core 6 : ALLIED PHYSICS II	On the successful completion of the course, student will be able to:			
		1	Acquire knowledge on basic concepts of photoelectric effect and fission, fusion and to get clear idea on wave mechanics.	K1	
		2	Understand the features of Nuclear forces, photoelectric cells, semiconductor diodes, and their fundamental concepts.	K2	
		3	Understand the concept of Laser properties, digital electronics and to recognize their applications in real life.	K4	
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>			
7	Core 7 : ALLIED PHYSICS - LAB	On the successful completion of the course, student will be able to:			
		1	attain skill to understand the usage of basic laws and properties of the materials given.	K3	
		2	analyze the characteristics of various diodes and construct	K4	
		3	acquire the knowledge of the potentiometer and apply it for	K5	
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 -</b>			
8	Core 8 : DIFFERENTIAL EQUATIONS AND LAPLACE TRANSFORMS	<b>Semester III</b>			
		On the successful completion of the course, student will be able to:			
		CO1	Acquire knowledge to solve Differential and Partial	K1	
		CO2	Solve higher order linear differential equations.	K2	
		CO3	Expose differential equation as a powerful tool in solving problems in Physical and Social sciences.	K3	
		CO4	Demonstrate competency to solve linear PDE by	K3	
		CO5	Analyze the concepts of Laplace transforms and inverse solve ODE with constant coefficients.	K4	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>					
9	Core 9 : STATICS	On the successful completion of the course, student will be able to:			
		CO1	Remember the various laws.	K1	
		CO2	Understand the concepts of forces and moments.	K2	
		CO3	Understand the concepts of equilibrium.	K2	
		CO 4	Apply the concepts of forces and moments.	K3	
		CO 5	Analyze the basics of coplanar forces, equilibrium of forces acting on a rigid body and solve the problems.	K4	
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>			
	Core 10 : ALLIED	On the successful completion of the course, student will be able to:			
		1	Understand the properties metals and their conductivity, the synthesis and applications of boron compounds.	K1-K4	
		2	Understand about silicones fuels gases and their industrial The theory behind colours and dyes, their preparation and dyeing.	K2-K4, K6	

10	ALLIED CHEMISTRY I	3	Understand the bonding and structure of various hydrocarbons and electronic effects. Appreciate the optical properties of the compounds nature itself	K1-K4	
		4	Explain the chemistry behind toiletries and cleaning agents.	K2-K5	
		5	Understand the kinetics behind chemical reactions and the nature	K1-K3	
		K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create			
11	Core 11: OPERATIONS RESEARCH I	CO 1	Understand the basic concepts and application of fields.	K1	
		CO 2	Know principles of construction of mathematical models of	K2	
		CO 3	Analyze the relationship between a linear program and its	K3	
		CO 4	Apply techniques constructively to make effective problems in industry.	K3	
		CO 5	Build and solve transportation problems.	K4	
		K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;			
12	Core 12: DYNAMICS	<b>SEMESTER IV</b>			
		On the successful completion of the course, student will be able to:			
		CO 1	Remember the basic kinematics and dynamic concepts.	K1	
		CO 2	Describe the differential equation of Central Orbits .	K2	
		CO 3	Apply the concepts of projectiles to solve problems relating to the motion of a projectile.	K3	
		CO 4	To understand & apply the concepts of composition of simple harmonic motion in two directions.	K3	
		CO 5	Understand impulsive forces and analyze loss of K.E due to impact.	K4	
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;					
13	Core 13: PROGRAMMING IN C	On the successful completion of the course, student will be able to:			
		CO 1	Remember the importance of C language and datatypes.	K1	
		CO 2	Understand the basic structure, operators and statements of	K2	
		CO 3	Understand decision control statements, loop control	K2	
		CO 4	Apply the concepts of data types, operators, expressions, control statements, arrays, character arrays and strings to	K3	
		CO 5	Read, understand and trace the execution of programs written	K4	
		K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;			
14	Core 14: ALLIED CHEMISTRY II	On the successful completion of the course, student will be able to:			
		1	Appreciate the role of metals in biological system and their	K1-K3	
		2	Understand about the importance of paints and the need for the bad face of war.	K2-K5	
		3	Understand the importance of polymers and rubbers in our day to	K1-K4	
		4	Appreciate the need for fertilizers and insecticides in the	K2-K5	
		5	Understand the importance of electrochemistry and energy	K2-K4	
		K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create			

15	Core 15: ALLIED CHEMISTRY -- LAB	On the successful completion of the course, student will be able to:		
		1	Estimate the amount of ion present in the given solution through volumetric analysis	K1-K6
		2	Find the groups/elements and characters present in the given substance through qualitative analysis	K1-K6
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
16	Core 16: OPERATIONS RESEARCH - PAPER II	On the successful completion of the course, student will be able to:		
		CO 1	Identify the importance of stocks, the reasons for holding determine the optimal order quantity for models .	K1
		CO 2	Explain the various costs related to inventory system.	K2
		CO 3	Apply game theory concepts to articulate real-world analyzing and practicing strategic decisions .	K3
		CO 4	Apply and extend queueing models to analyze real world	K4
		CO 5	Build and solve assignment model.	K4
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>		
17	Core 17: REAL ANALYSIS I	<b>SEMESTER V</b>		
		On the successful completion of the course, student will be able to:		
		CO 1	Remember the basic topological properties of subsets of the	K1
		CO 2	Understand the fundamental properties of the real numbers and analyze the real number system.	K2
		CO 3	Learn the concept of limits, sequence, continuity, convergent sequence in metric spaces appreciating the	K2
		CO 4	Have the proficiency in the formulation and construction of proofs of basic results in real analysis.	K3
		CO 5	Demonstrate skills in communicating Mathematics and learn basic techniques and examples in analysis to be well	K4
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>		
18	Core 18: COMPLEX ANALYSIS I	On the successful completion of the course, student will be able to:		
		CO1	Learn techniques of complex analysis effectively to	K1
		CO 2	Recognize the simple and multiple connected domains.	K2
		CO 3	Investigate a function for its analyticity and find it series	K3
		CO 4	Examine the relationship between conformal mapping and	K4
		CO 5	Compute contour integrals directly and by the fundamental	K4
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>		
19	Core 19: MODERN ALGEBRA - I	On the successful completion of the course, student will be able to:		
		CO 1	Recall the properties and extend group structure to finite	K1
		CO 2	Explain the concepts of homomorphism, isomorphism and	K2
		CO 3	Demonstrate abstract thinking capacity and ability to prove	K3
		CO 4	Compare features of different algebraic structures.	K4
		CO 5	Examine the properties of algebraic structures and their role	K4
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>		

20	Core 20: DISCRETE MATHEMATICS	<p>On the successful completion of the course, student will be able to:</p> <table border="1"> <tbody> <tr> <td>CO 1</td> <td>Assimilate various graph theoretic concepts and familiarize with their applications.</td> <td>K1</td> </tr> <tr> <td>CO 2</td> <td>Know and understand about partially ordered sets, Boolean algebra, lattices and their types.</td> <td>K2</td> </tr> <tr> <td>CO 3</td> <td>Apply Karnaugh map for simplifying the Boolean</td> <td>K3</td> </tr> <tr> <td>CO 4</td> <td>Demonstrate the skill to construct simple mathematical</td> <td>K4</td> </tr> <tr> <td>CO 5</td> <td>To achieve greater accuracy, clarity of thought and</td> <td>K4</td> </tr> </tbody> </table> <p><b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b></p>	CO 1	Assimilate various graph theoretic concepts and familiarize with their applications.	K1	CO 2	Know and understand about partially ordered sets, Boolean algebra, lattices and their types.	K2	CO 3	Apply Karnaugh map for simplifying the Boolean	K3	CO 4	Demonstrate the skill to construct simple mathematical	K4	CO 5	To achieve greater accuracy, clarity of thought and	K4	
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21	Core 21: OPERATIONS RESEARCH – PAPER III	<p>On the successful completion of the course, student will be able to:</p> <table border="1"> <tbody> <tr> <td>CO 1</td> <td>Know the concept of simulation and simulate a queueing</td> <td>K1</td> </tr> <tr> <td>CO 2</td> <td>Understand the overall approach of dynamic programming.</td> <td>K2</td> </tr> <tr> <td>CO 3</td> <td>Solve nonlinear programming problems using Lagrange Kuhn-Tucker conditions.</td> <td>K2</td> </tr> <tr> <td>CO 4</td> <td>Apply concepts in optimal scheduling</td> <td>K3</td> </tr> <tr> <td>CO 5</td> <td>To formulate a model for solving the intractable problems.</td> <td>K4</td> </tr> </tbody> </table> <p><b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b></p>	CO 1	Know the concept of simulation and simulate a queueing	K1	CO 2	Understand the overall approach of dynamic programming.	K2	CO 3	Solve nonlinear programming problems using Lagrange Kuhn-Tucker conditions.	K2	CO 4	Apply concepts in optimal scheduling	K3	CO 5	To formulate a model for solving the intractable problems.	K4	
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24	Core 24: MODERN ALGEBRA - II	On the successful completion of the course, student will be able to:		
		CO 1	Communicate and understand mathematical ideas and	K1
		CO 2	Explain the concepts of base and dimension of Vector	K2
		CO 3	To apply the Gram-Schmidt process to construct an orthonormal set of vectors in an inner product space.	K3
		CO 4	Demonstrate competence with the basic ideas of Matrix Dual spaces, Linear transformation.	K3
		CO 5	Have an insight to analyze a real life problem and solve it.	K4
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>		
25	Core 25 OPERATIONS RESEARCH - PAPER -IV	On the successful completion of the course, student will be able to:		
		CO 1	Know the principles and applications of information theory.	K1
		CO 2	To understand sequencing, replacement problems.	K2
		CO 3	Demonstrate skills to achieve their objective using	K3
		CO 4	Apply decision making under different business	K4
		CO 5	Determine a solution to a rectangular game using simplex	K3
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>		
26	Elective 1: NUMERICAL METHODS - I	<b>Elective</b>		
		On the successful completion of the course, student will be able to:		
		CO 1	Remember the concepts of errors and its effect on	K1
		CO 2	Obtain numerical solutions of algebraic and transcendental	K2
		CO 3	Apply the finite difference and interpolation concepts.	K3
		CO 4	Develop skills in designing mathematical models for constructing polynomials to the given data and drawing	K4
		CO 5	Analyze the efficiency of iteration methods.	K4
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>				
27	Elective 2: Numerical Methods II	On the successful completion of the course, student will be able to:		
		CO 1	Familiarize with numerical integration and differentiation, ordinary differential equations.	K1
		CO 2	Distinguish methods of Taylor series, Euler's, Modified methods to find solutions of differential equations.	K2
		CO 3	Apply the techniques for enormous application in the fields of Engineering.	K3
		CO 4	Compute the integrals and derivatives by using the	K4
		CO 5	Find the numerical solution of second order O.D.E by	K4
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 -</b>				
28	Elective 3 PROGRAMMING IN C++	On the successful completion of the course, student will be able to:		
		CO 1	Know about class structure, member functions & data and example problems .	K1
		CO 2	Understand how C++ improves C with object-oriented	K2
		CO 3	Develop programming skills.	K2

	CO 4	To make use of objects and classes for developing	K3
	CO 5	Build C++ classes.	K4
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>			

**PROVIDENCE COLLEGE FOR WOMEN**  
**DEPARTMENT OF MATHEMATICS**  
M.Sc Mathematics 2022-2023

<b>Program Specific Outcomes (PSOs)</b>	
After the successful completion of <b>M. Sc. Mathematics</b> program, the students are expected to	
PSO1	Communicate concepts of Mathematics and its applications.
PSO2	Acquire analytical and logical thinking through various mathematical tools and techniques.
PSO3	Investigate real life problems and learn to solve them through formulating mathematical models.
PSO4	Attain in-depth knowledge to pursue higher studies and ability to conduct research. Work as mathematical professional.
PSO5	Achieve targets of successfully clearing various examinations/interviews for placements in teaching, banks, industries and various other organizations/services.

<b>Program Outcomes (POs)</b>	
On successful completion of the M. Sc. Mathematics program, the students will be able to	
PO1	Demonstrate in-depth knowledge of Mathematics, both in theory and application.
PO2	Attain the ability to identify, formulate and solve challenging problems in Mathematics.
PO3	Know the various specialized areas of advanced mathematics and its applications.
PO4	Analyze complex problems in Mathematics and propose solutions using research-based knowledge.
PO5	Obtain the accurate solutions for the community oriented problems via various mathematical models.
PO6	Work individually or as a team member or leader in uniform and multidisciplinary settings.
PO7	Crack lectureship and fellowship exams affirmed by UGC like CSIR-NET and SET.
PO8	Apply the Mathematical concepts, in all the fields of learning including higher research, and recognize the need and prepare for lifelong learning.
PO9	Know the use of computers both as an aid and as a tool to study problems in Mathematics.
PO10	Inculcate the knowledge of formulation and apply the mathematical concepts which are suitable for real life applications.





**PG & RESEARCH DEPARTMENT OF ENGLISH**  
**PROGRAMME OUTCOME & PROGRAMME SPECIFIC OUTCOME**  
**2021- 2022**

**PROGRAMME OUTCOME BA ENGLISH LITERATURE**

**Programme outcome of Part II English**

On successful completion of the Part II English programme students will be able to:

- PO1: Prove language skills through effective communication.
- PO2: Imbibe better understanding of the usage of the English language.
- PO3: Evaluate the skills of communication through the activities and exercises given.
- PO4: Apply the acquired skills in day to day life usage.
- PO5: Demonstrate good fluency and competency in the chosen career.
- PO6: Prove his proficiency in LSRW skills
- PO7: Develop communicative skills
- PO8: Establish communicative competence in personal circumstances.
- PO9: Express appropriate thoughts and ideas in formal and informal communication.
- PO10: Evaluate language in written communication.

**Programme Specific Outcome**

On successful completion of the Part II programme students are expected to:

- PSO1: Develop in-depth knowledge and interest in the English language.
- PSO2: Analyse the requirements for effective communication.
- PSO3: Assess and improve the acquired skills.
- PSO4: Apply the gained knowledge in critical thinking.
- PSO5: Create competitive atmosphere in the established career.

**PG & RESEARCH DEPARTMENT OF ENGLISH**

**B.A ENGLISH LITERATURE**

**(With effect from 2021- 2022 only)**

**COURSE OUTCOME**

<b>SN O</b>	<b>COURSE</b>	<b>COURSE OUTCOME</b>		
<b>1</b>	<b>CORE I– PROSE I</b>	<b>1</b>	<b>Comprehend prose passages</b>	<b>K1, K2</b>
		<b>2</b>	<b>Enhance reading skills</b>	<b>K2&amp;K3</b>
		<b>3</b>	<b>Analyze the structure and style of Prose pieces</b>	<b>K4</b>
		<b>4</b>	<b>Create simple paragraphs</b>	<b>K6</b>
		<b>K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6–Create</b>		
<b>2</b>	<b>CORE II– FICTION I</b>	<b>1</b>	<b>Understand the plot, setting and structure</b>	<b>K2</b>
		<b>2</b>	<b>Identify the techniques used in Fictional writing</b>	<b>K3</b>
		<b>3</b>	<b>Analyse various themes in fiction</b>	<b>K4</b>
		<b>4</b>	<b>Evaluate the role of major and minor characters</b>	<b>K5</b>
		<b>K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6–Create</b>		
<b>3</b>	<b>ALLIED I–SOCIAL HISTORY OF ENGLAND</b>	<b>1</b>	<b>Understand the impact of society on Literature</b>	<b>K2</b>
		<b>2</b>	<b>Interlink the history of England with British English Literature</b>	<b>K3</b>
		<b>3</b>	<b>Analyse the socio-cultural aspects of society on Literature</b>	<b>K4</b>
		<b>4</b>	<b>Evaluate the literary works by considering its historical aspects</b>	<b>K5</b>

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<b>4</b>	<b>COREIII- POETRY I</b>	<table border="1"> <tr> <td><b>1</b></td> <td><b>Gain knowledge of poetry of different ages</b></td> <td><b>K1</b></td> </tr> <tr> <td><b>2</b></td> <td><b>Understand the literary terms and devices</b></td> <td><b>K2</b></td> </tr> <tr> <td><b>3</b></td> <td><b>Analyse a poem</b></td> <td><b>K4</b></td> </tr> <tr> <td><b>4</b></td> <td><b>Learn new dimensions in connecting emotions and languages and create simple Poems</b></td> <td><b>K6</b></td> </tr> </table> <p><b>K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create</b></p>		<b>1</b>	<b>Gain knowledge of poetry of different ages</b>	<b>K1</b>	<b>2</b>	<b>Understand the literary terms and devices</b>	<b>K2</b>	<b>3</b>	<b>Analyse a poem</b>	<b>K4</b>	<b>4</b>	<b>Learn new dimensions in connecting emotions and languages and create simple Poems</b>	<b>K6</b>
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		used in writing prose	
		3 Analyse the variety of prose pieces	K4
		4 Create a simple and short prose passage	K6
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8	COREVI-FICTION II	1 Understand the socio-cultural aspect of the society with the help of fiction	K2
		2 Identify the literary elements in fiction	K3
		3 Analyse the plot, character and the techniques in the fiction	K4
		4 Evaluate the work of fiction contemporary Novelists	K5
		K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create	
9	ALLIED III-LITERARY FORMS	1 Understand different literary forms and their characteristics	K2
		2 Differentiate various literary devices	K4
		3 Identify literary devices in a work, compare the genres and their features	K3
		4 Attempt a simple creative writing	K6
		K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create	
10	COREVII-POETRY II	1 Gain intense knowledge of poetry	K1
		2 Understand the literary importance of each poetry	K2
		3 Critically analyse poems	K4
		4 Create simple poems by using literary devices	K6
		K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create	

11	<b>COREVIII–DRAMA II</b>	<table border="1"> <tr> <td data-bbox="646 226 695 310">1</td> <td data-bbox="695 226 1230 310">To carry in depth knowledge of plays</td> <td data-bbox="1230 226 1377 310">K2</td> </tr> <tr> <td data-bbox="646 310 695 394">2</td> <td data-bbox="695 310 1230 394">Analyse the literary devices used in plays</td> <td data-bbox="1230 310 1377 394">K4</td> </tr> <tr> <td data-bbox="646 394 695 436">3</td> <td data-bbox="695 394 1230 436">Critically evaluate the plays</td> <td data-bbox="1230 394 1377 436">K5</td> </tr> <tr> <td data-bbox="646 436 695 489">4</td> <td data-bbox="695 436 1230 489">Able to enact plays</td> <td data-bbox="1230 436 1377 489">K6</td> </tr> </table> <p data-bbox="646 489 1377 558">K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6–Create</p>	1	To carry in depth knowledge of plays	K2	2	Analyse the literary devices used in plays	K4	3	Critically evaluate the plays	K5	4	Able to enact plays	K6
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4	Able to enact plays	K6												
12	<b>ALLIED IV – LITERARY CRITICISM</b>	<table border="1"> <tr> <td data-bbox="646 594 695 720">1</td> <td data-bbox="695 594 1230 720">Carry Knowledge of leading Critics and their method of criticism</td> <td data-bbox="1230 594 1377 720">K1</td> </tr> <tr> <td data-bbox="646 720 695 835">2</td> <td data-bbox="695 720 1230 835">Understand the different schools of criticism and their theories</td> <td data-bbox="1230 720 1377 835">K2</td> </tr> <tr> <td data-bbox="646 835 695 951">3</td> <td data-bbox="695 835 1230 951">Interconnect society, literature and literary criticism to analyse a text</td> <td data-bbox="1230 835 1377 951">K4</td> </tr> <tr> <td data-bbox="646 951 695 1035">4</td> <td data-bbox="695 951 1230 1035">Evaluate a literary text by applying the ideas of the critics</td> <td data-bbox="1230 951 1377 1035">K5</td> </tr> </table> <p data-bbox="646 1035 1377 1104">K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6–Create</p>	1	Carry Knowledge of leading Critics and their method of criticism	K1	2	Understand the different schools of criticism and their theories	K2	3	Interconnect society, literature and literary criticism to analyse a text	K4	4	Evaluate a literary text by applying the ideas of the critics	K5
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3	Interconnect society, literature and literary criticism to analyse a text	K4												
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13	<b>CORE IX – SHAKESPEAR E I</b>	<table border="1"> <tr> <td data-bbox="646 1224 695 1308">1</td> <td data-bbox="695 1224 1230 1308">Comprehend the plays of Shakespeare</td> <td data-bbox="1230 1224 1377 1308">K2</td> </tr> <tr> <td data-bbox="646 1308 695 1423">2</td> <td data-bbox="695 1308 1230 1423">Appreciate the nuances of Shakespeare’s Universality and its impact on readers.</td> <td data-bbox="1230 1308 1377 1423">K4</td> </tr> <tr> <td data-bbox="646 1423 695 1507">3</td> <td data-bbox="695 1423 1230 1507">Analyse the different types of plays and the devices used.</td> <td data-bbox="1230 1423 1377 1507">K3</td> </tr> <tr> <td data-bbox="646 1507 695 1591">4</td> <td data-bbox="695 1507 1230 1591">Evaluate the themes of different kinds of plays</td> <td data-bbox="1230 1507 1377 1591">K6</td> </tr> </table> <p data-bbox="646 1591 1377 1659">K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6–Create</p>	1	Comprehend the plays of Shakespeare	K2	2	Appreciate the nuances of Shakespeare’s Universality and its impact on readers.	K4	3	Analyse the different types of plays and the devices used.	K3	4	Evaluate the themes of different kinds of plays	K6
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4	Evaluate the themes of different kinds of plays	K6												

14	<b>COREX–INDIAN WRITING IN ENGLISH</b>	<table border="1"> <tr> <td data-bbox="646 226 695 348">1</td> <td data-bbox="695 226 1240 348">Familiar with the prominent writers of Indian Writing in English</td> <td data-bbox="1240 226 1393 348">K2</td> </tr> <tr> <td data-bbox="646 348 695 428">2</td> <td data-bbox="695 348 1240 428">Compare Indian Writing in English with British Literature</td> <td data-bbox="1240 348 1393 428">K3</td> </tr> <tr> <td data-bbox="646 428 695 508">3</td> <td data-bbox="695 428 1240 508">Critically analyse the works of Indian Writing in English</td> <td data-bbox="1240 428 1393 508">K4</td> </tr> <tr> <td data-bbox="646 508 695 588">4</td> <td data-bbox="695 508 1240 588">Evaluate the social issues represented in the literary text</td> <td data-bbox="1240 508 1393 588">K6</td> </tr> </table> <p data-bbox="646 588 1393 663">K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6–Create</p>	1	Familiar with the prominent writers of Indian Writing in English	K2	2	Compare Indian Writing in English with British Literature	K3	3	Critically analyse the works of Indian Writing in English	K4	4	Evaluate the social issues represented in the literary text	K6
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3	Critically analyse the works of Indian Writing in English	K4												
4	Evaluate the social issues represented in the literary text	K6												
15	<b>COREXI–AMERICAN LITERATURE</b>	<table border="1"> <tr> <td data-bbox="646 699 695 821">1</td> <td data-bbox="695 699 1192 821">Understand the diverse group of American authors and their style of writing</td> <td data-bbox="1192 699 1334 821">K2</td> </tr> <tr> <td data-bbox="646 821 695 942">2</td> <td data-bbox="695 821 1192 942">Analyse the key ideas, representation of cultural events of historical periods.</td> <td data-bbox="1192 821 1334 942">K4</td> </tr> <tr> <td data-bbox="646 942 695 1064">3</td> <td data-bbox="695 942 1192 1064">Compare American Literature with Indian Writing in English</td> <td data-bbox="1192 942 1334 1064">K5</td> </tr> <tr> <td data-bbox="646 1064 695 1186">4</td> <td data-bbox="695 1064 1192 1186">Create a simple creative writing based on prescribed literary pieces</td> <td data-bbox="1192 1064 1334 1186">K6</td> </tr> </table> <p data-bbox="646 1186 1393 1251">K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6–Create</p>	1	Understand the diverse group of American authors and their style of writing	K2	2	Analyse the key ideas, representation of cultural events of historical periods.	K4	3	Compare American Literature with Indian Writing in English	K5	4	Create a simple creative writing based on prescribed literary pieces	K6
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16	<b>COREXII–COMMON WEALTH LITERATURE</b>	<table border="1"> <tr> <td data-bbox="646 1287 695 1409">1</td> <td data-bbox="695 1287 1218 1409">Comprehend the works of prominent authors in commonwealth Literature</td> <td data-bbox="1218 1287 1383 1409">K2</td> </tr> <tr> <td data-bbox="646 1409 695 1488">2</td> <td data-bbox="695 1409 1218 1488">Compare the style of common wealth writing</td> <td data-bbox="1218 1409 1383 1488">K3</td> </tr> <tr> <td data-bbox="646 1488 695 1568">3</td> <td data-bbox="695 1488 1218 1568">Present critical analysis of prescribed literary works</td> <td data-bbox="1218 1488 1383 1568">K4</td> </tr> <tr> <td data-bbox="646 1568 695 1690">4</td> <td data-bbox="695 1568 1218 1690">Evaluate common wealth literature with the help of knowledge gained</td> <td data-bbox="1218 1568 1383 1690">K5</td> </tr> </table> <p data-bbox="646 1690 1393 1757">K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6–Create</p>	1	Comprehend the works of prominent authors in commonwealth Literature	K2	2	Compare the style of common wealth writing	K3	3	Present critical analysis of prescribed literary works	K4	4	Evaluate common wealth literature with the help of knowledge gained	K5
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2	Compare the style of common wealth writing	K3												
3	Present critical analysis of prescribed literary works	K4												
4	Evaluate common wealth literature with the help of knowledge gained	K5												

17	<b>ELECTIVE-I STUDY OF INDIAN THEATRE</b>	<table border="1"> <tr> <td data-bbox="646 226 690 300">1</td> <td data-bbox="690 226 1161 300">Identify various dramatic traditions in India</td> <td data-bbox="1161 226 1226 300">K2</td> </tr> <tr> <td data-bbox="646 300 690 373">2</td> <td data-bbox="690 300 1161 373">Understand the history of Indian Theatre</td> <td data-bbox="1161 300 1226 373">K2</td> </tr> <tr> <td data-bbox="646 373 690 520">3</td> <td data-bbox="690 373 1161 520">Apply the concept of group activity to engage with drama creatively and critically</td> <td data-bbox="1161 373 1226 520">K3</td> </tr> <tr> <td data-bbox="646 520 690 636">4</td> <td data-bbox="690 520 1161 636">Understand and evaluate various styles of theatre</td> <td data-bbox="1161 520 1226 636">K5 , K2</td> </tr> </table> <p data-bbox="646 636 1437 709">K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create</p>	1	Identify various dramatic traditions in India	K2	2	Understand the history of Indian Theatre	K2	3	Apply the concept of group activity to engage with drama creatively and critically	K3	4	Understand and evaluate various styles of theatre	K5 , K2
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4	Understand and evaluate various styles of theatre	K5 , K2												
18	<b>COREXIII- SHAKESPEARE II</b>	<table border="1"> <tr> <td data-bbox="646 745 690 829">1</td> <td data-bbox="690 745 1263 829">Intensive knowledge on Shakespearean plays</td> <td data-bbox="1263 745 1385 829">K2</td> </tr> <tr> <td data-bbox="646 829 690 913">2</td> <td data-bbox="690 829 1263 913">Analyse the universal characterization of Shakespeare</td> <td data-bbox="1263 829 1385 913">K4</td> </tr> <tr> <td data-bbox="646 913 690 997">3</td> <td data-bbox="690 913 1263 997">Evaluate the versatile writings of Shakespeare</td> <td data-bbox="1263 913 1385 997">K2, K5</td> </tr> <tr> <td data-bbox="646 997 690 1081">4</td> <td data-bbox="690 997 1263 1081">Enact a scene from Shakespearean plays</td> <td data-bbox="1263 997 1385 1081">K3</td> </tr> </table> <p data-bbox="646 1081 1437 1150">K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create</p>	1	Intensive knowledge on Shakespearean plays	K2	2	Analyse the universal characterization of Shakespeare	K4	3	Evaluate the versatile writings of Shakespeare	K2, K5	4	Enact a scene from Shakespearean plays	K3
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4	Enact a scene from Shakespearean plays	K3												
19	<b>COREXIV- INTENSIVE STUDY OF AN AUTHOR</b>	<table border="1"> <tr> <td data-bbox="646 1186 690 1291">1</td> <td data-bbox="690 1186 1263 1291">Carry in-depth knowledge on Tagore's writing and his literary style.</td> <td data-bbox="1263 1186 1385 1291">K2</td> </tr> <tr> <td data-bbox="646 1291 690 1375">2</td> <td data-bbox="690 1291 1263 1375">Analyse the social issues discussed in the works of Tagore</td> <td data-bbox="1263 1291 1385 1375">K4</td> </tr> <tr> <td data-bbox="646 1375 690 1459">3</td> <td data-bbox="690 1375 1263 1459">Evaluate Indianism in Tagore's writing</td> <td data-bbox="1263 1375 1385 1459">K2, K5</td> </tr> <tr> <td data-bbox="646 1459 690 1543">4</td> <td data-bbox="690 1459 1263 1543">Compare the works of Tagore with other Indian writers</td> <td data-bbox="1263 1459 1385 1543">K3</td> </tr> </table> <p data-bbox="646 1543 1437 1598">K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create</p>	1	Carry in-depth knowledge on Tagore's writing and his literary style.	K2	2	Analyse the social issues discussed in the works of Tagore	K4	3	Evaluate Indianism in Tagore's writing	K2, K5	4	Compare the works of Tagore with other Indian writers	K3
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2	Analyse the social issues discussed in the works of Tagore	K4												
3	Evaluate Indianism in Tagore's writing	K2, K5												
4	Compare the works of Tagore with other Indian writers	K3												
20	<b>CORE XV- INDIANLITER ATUREIN ENGLISH TRANSLATION</b>	<table border="1"> <tr> <td data-bbox="646 1633 690 1717">1</td> <td data-bbox="690 1633 1239 1717">Understand translated works and its nuances.</td> <td data-bbox="1239 1633 1385 1717">K2</td> </tr> <tr> <td data-bbox="646 1717 690 1892">2</td> <td data-bbox="690 1717 1239 1892">Analyse the works with the help of literary theory, translate simple works of their mother</td> <td data-bbox="1239 1717 1385 1892">K3</td> </tr> </table>	1	Understand translated works and its nuances.	K2	2	Analyse the works with the help of literary theory, translate simple works of their mother	K3						
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			tongue into English Language	
		3	Knowledge on the ethics and impact of translations in Literature	K4
		4	Compare regional literature with English Literature	K5
		K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6–Create		
21	<b>ELECTIVE–II WRITING SKILLS</b>	1	Remember and demonstrate writing skills	K1
		2	Understand the functions of Writing	K2
		3	Create ways of effective writing skills	K6
		4	Understand formal writing	K1
		K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6–Create		
22	<b>ELECTIVE–III STUDYING NOVELS</b>	1	Understand and define types of novels	K2
		2	Identify plot types	K1
		3	Analyse the meanings of novels using the elements of novel.	K4
		4	Evaluate and compare different other novels	K5
		K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6–Create		



## **PROGRAMME OUTCOME M.A ENGLISH LITERATURE**

### **Programme Outcome MA English Literature**

On successful completion of the MA English Literature programme, students:

- PO1: Develop the understanding of society as literature reflects social life.
- PO2: Discover and experiment new techniques in analysing literary texts.
- PO3: Acquire sound communicative skills and use it in establishing a good career.
- PO4: Build creativity and apply it in writing.
- PO5: Create a better outlook of life from the learning experience.
- PO6: Utilize the avenues for skilled postgraduates as columnists and creative artists.

### **Programme Specific Outcome**

After successful completion of the MA English programme, the students are expected to:

- PSO1: Understand the genres, writings, movements and periods of English literature.
- PSO2: Acquire a sound knowledge of the periods of English Literature and writers
- PSO3: Demonstrate creative skills like translating classic regional literature.
- PSO4: Recall the learnt concepts and texts in clearing qualifying and competitive examinations.
- PSO5: Develop good communication skills
- PSO6: Select unexplored areas for research.
- PSO7: Show interest in the literatures of the world
- PSO8: Demonstrate translation skills by translating simple texts
- PSO9: Learn the important movements and theories in Literature
- PSO10: Make use of the experience of the morals and values learnt from literature in transforming society

PG & RESEARCH DEPARTMENT OF ENGLISH

M.A ENGLISH LITERATURE

(With effect from 2021 to 2022 only)

COURSE OUTCOME

<b>SNO</b>	<b>COURSE</b>	<b>COURSE OUTCOME</b>		
1	Paper I - BRITISH LITERATURE – I (FROM CHAUCER TO MILTON)	1	Understand the language and literature of the period	K2
		2	Analyse the social life and its reflection in the literary texts of the age	K4
		3	Remember the prominent works of the classical writers	K1
		4	Apply the features of the different literary forms to the prescribed texts	K3
		5	Evaluate the technical aspects in the given texts	K5
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		
2	Paper II - AMERICAN LITERATURE	1	Understand the American outlook as seen in the prescribed texts	K2
		2	Analyse works of literature, its forms and features in the American context	K4
		3	Remember the writers and the period to which they belonged	K1
		4	Apply critical theories to contemporary American texts	K3
		5	Evaluate the works of writers from a researcher's perspective	K5
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		

3	Paper III – SHAKESPEARE	<table border="1"> <tr> <td data-bbox="844 226 893 331">1</td> <td data-bbox="893 226 1360 331">Understand the language and techniques in the plays of Shakespeare</td> <td data-bbox="1360 226 1429 331">K1</td> </tr> <tr> <td data-bbox="844 331 893 447">2</td> <td data-bbox="893 331 1360 447">Create a better society from the morals and lessons learnt through the texts</td> <td data-bbox="1360 331 1429 447">K6</td> </tr> <tr> <td data-bbox="844 447 893 520">3</td> <td data-bbox="893 447 1360 520">Identify characters and lines from the texts prescribed</td> <td data-bbox="1360 447 1429 520">K2</td> </tr> <tr> <td data-bbox="844 520 893 594">4</td> <td data-bbox="893 520 1360 594">Apply literary theories to any given Shakespearean text</td> <td data-bbox="1360 520 1429 594">K3</td> </tr> <tr> <td data-bbox="844 594 893 709">5</td> <td data-bbox="893 594 1360 709">Compare the literature of the Elizabethan era with that of another</td> <td data-bbox="1360 594 1429 709">K5</td> </tr> <tr> <td data-bbox="844 709 1429 751"></td> <td data-bbox="844 709 1429 751"></td> <td data-bbox="844 709 1429 751"></td> </tr> </table> <p data-bbox="844 751 1429 856"><b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create</p>	1	Understand the language and techniques in the plays of Shakespeare	K1	2	Create a better society from the morals and lessons learnt through the texts	K6	3	Identify characters and lines from the texts prescribed	K2	4	Apply literary theories to any given Shakespearean text	K3	5	Compare the literature of the Elizabethan era with that of another	K5			
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4	Paper IV- GRAMMAR FOR COMMUNICATION	<table border="1"> <tr> <td data-bbox="844 892 893 966">1</td> <td data-bbox="893 892 1360 966">Understand the need and right usage of grammar</td> <td data-bbox="1360 892 1429 966">K2</td> </tr> <tr> <td data-bbox="844 966 893 1081">2</td> <td data-bbox="893 966 1360 1081">Remember the basic rules in grammar for effective communication</td> <td data-bbox="1360 966 1429 1081">K1</td> </tr> <tr> <td data-bbox="844 1081 893 1155">3</td> <td data-bbox="893 1081 1360 1155">Construct good passages without errors</td> <td data-bbox="1360 1081 1429 1155">K6</td> </tr> <tr> <td data-bbox="844 1155 893 1228">4</td> <td data-bbox="893 1155 1360 1228">Apply their theoretical knowledge in practice</td> <td data-bbox="1360 1155 1429 1228">K3</td> </tr> <tr> <td data-bbox="844 1228 893 1302">5</td> <td data-bbox="893 1228 1360 1302">Discover opportunities that suit their skills</td> <td data-bbox="1360 1228 1429 1302">K4</td> </tr> <tr> <td data-bbox="844 1302 1429 1344"></td> <td data-bbox="844 1302 1429 1344"></td> <td data-bbox="844 1302 1429 1344"></td> </tr> </table> <p data-bbox="844 1344 1429 1451"><b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create</p>	1	Understand the need and right usage of grammar	K2	2	Remember the basic rules in grammar for effective communication	K1	3	Construct good passages without errors	K6	4	Apply their theoretical knowledge in practice	K3	5	Discover opportunities that suit their skills	K4			
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5	Discover opportunities that suit their skills	K4																		

5	Paper V -THE ENGLISH LANGUAGE – I	<table border="1"> <tr> <td data-bbox="846 226 894 302">1</td> <td data-bbox="894 226 1360 302">Understand the importance of pronunciation</td> <td data-bbox="1360 226 1437 302">K2</td> </tr> <tr> <td data-bbox="846 302 894 375">2</td> <td data-bbox="894 302 1360 375">Apply the rules to articulate sounds</td> <td data-bbox="1360 302 1437 375">K3</td> </tr> <tr> <td data-bbox="846 375 894 449">3</td> <td data-bbox="894 375 1360 449">Distinguish sounds and use them appropriately</td> <td data-bbox="1360 375 1437 449">K4</td> </tr> <tr> <td data-bbox="846 449 894 558">4</td> <td data-bbox="894 449 1360 558">Evaluate the learning of sounds through simple methods</td> <td data-bbox="1360 449 1437 558">K5</td> </tr> <tr> <td data-bbox="846 558 894 632">5</td> <td data-bbox="894 558 1360 632">Create opportunities with the accomplished competency</td> <td data-bbox="1360 558 1437 632">K6</td> </tr> <tr> <td data-bbox="846 632 1437 674"></td> <td data-bbox="846 632 1437 674"></td> <td data-bbox="846 632 1437 674"></td> </tr> </table> <p data-bbox="846 674 1437 785"><b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create</p>	1	Understand the importance of pronunciation	K2	2	Apply the rules to articulate sounds	K3	3	Distinguish sounds and use them appropriately	K4	4	Evaluate the learning of sounds through simple methods	K5	5	Create opportunities with the accomplished competency	K6			
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4	Evaluate the learning of sounds through simple methods	K5																		
5	Create opportunities with the accomplished competency	K6																		
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		5	Justify the understanding of the writers through projects and assignments	K5
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		
8	Paper VII - INDIAN WRITING IN ENGLISH	1	Understand the writers and works of different periods from the Indian point of view	K2
		2	Identify the context and get a clear picture of Indian life portrayed in the works	K3
		3	Analyse any given work from a critical perspective	K4
		4	Assess the quality of literature produced from the subcontinent	K5
		5	Develop a research mind to explore new areas for research	K6
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		
9	Paper VIII - ENGLISH LITERATURE FOR COMPETITIVE EXAMINATIONS – I	1	Remember the literary terms forms and theories	K1
		2	Understand the different periods of English literature	K2
		3	Apply the learnt theories to any text	K3
		4	Analyse any given text thematically and technically	K4
		5	Interpret any literary piece of work	K5
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		
10	Paper IX – NEW LITERATURES IN ENGLISH	1	Choose texts from different	K1

		<table border="1"> <tbody> <tr> <td></td> <td>parts of the world and understand the background of that literature</td> <td></td> </tr> <tr> <td>2</td> <td>Translate some of the texts into regional languages</td> <td>K2</td> </tr> <tr> <td>3</td> <td>Apply the theories of comparative literature to study the literature of two different countries</td> <td>K3</td> </tr> <tr> <td>4</td> <td>Analyse the texts from different perspectives</td> <td>K4</td> </tr> <tr> <td>5</td> <td>Develop an interest in world literature</td> <td>K6</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p><b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create</p>		parts of the world and understand the background of that literature		2	Translate some of the texts into regional languages	K2	3	Apply the theories of comparative literature to study the literature of two different countries	K3	4	Analyse the texts from different perspectives	K4	5	Develop an interest in world literature	K6			
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13	Paper XI - BRITISH LITERATURE – III (FROM THE VICTORIAN AGE TO THE MODERN AGE)			
		1	Remember the writers and works of the periods	K1
		2	Understand the shift in thought and techniques from the Victorian to the modern period	K2
		3	Apply the theories of the age to the prescribed texts	K3
		4	Analyse any literary work keeping in mind the age and its features	K4
		5	Identify areas for research	K3
			<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create	
14	Paper XII - ENGLISH LITERATURE FOR COMPETITIVE EXAMINATIONS – II			
		1	Remember the literary terms forms and theories	K1
		2	Understand the different periods of English literature	K2
		3	Apply the learnt theories to any text	K3
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15	Paper XIII - METHODS OF			

	TEACHING ENGLISH	<table border="1"> <tr> <td data-bbox="844 191 894 302">1</td> <td data-bbox="894 191 1360 302">Remember the various methods and its significance in effective teaching</td> <td data-bbox="1360 191 1437 302">K1</td> </tr> <tr> <td data-bbox="844 302 894 373">2</td> <td data-bbox="894 302 1360 373">Understand the importance of following the different methods</td> <td data-bbox="1360 302 1437 373">K2</td> </tr> <tr> <td data-bbox="844 373 894 447">3</td> <td data-bbox="894 373 1360 447">Apply the learnt methods into practice</td> <td data-bbox="1360 373 1437 447">K3</td> </tr> <tr> <td data-bbox="844 447 894 558">4</td> <td data-bbox="894 447 1360 558">Analyse ways to improve the methods for better understanding</td> <td data-bbox="1360 447 1437 558">K4</td> </tr> <tr> <td data-bbox="844 558 894 632">5</td> <td data-bbox="894 558 1360 632">Create innovative methods for a complete understanding</td> <td data-bbox="1360 558 1437 632">K6</td> </tr> <tr> <td data-bbox="844 632 894 678"></td> <td data-bbox="894 632 1360 678"></td> <td data-bbox="1360 632 1437 678"></td> </tr> </table>	1	Remember the various methods and its significance in effective teaching	K1	2	Understand the importance of following the different methods	K2	3	Apply the learnt methods into practice	K3	4	Analyse ways to improve the methods for better understanding	K4	5	Create innovative methods for a complete understanding	K6				<p><b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create</p>
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19	Paper XVI - INTRODUCTION TO WOMEN'S STUDIES	<table border="1"> <tr> <td>1</td> <td>Relate the writings of women from other parts of the world to ours</td> <td>K1</td> </tr> <tr> <td>2</td> <td>Interpret the works of prominent women writers</td> <td>K2</td> </tr> <tr> <td>3</td> <td>Experiment with different writings for research</td> <td>K3</td> </tr> <tr> <td>4</td> <td>Survey the literature of different countries on the style and themes</td> <td>K4</td> </tr> <tr> <td>5</td> <td>Choose and choose different areas for research from the knowledge gained</td> <td>K5</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table> <p><b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create</p>	1	Relate the writings of women from other parts of the world to ours	K1	2	Interpret the works of prominent women writers	K2	3	Experiment with different writings for research	K3	4	Survey the literature of different countries on the style and themes	K4	5	Choose and choose different areas for research from the knowledge gained	K5			
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1	Evaluate a work of art critically employing a theory of criticism	K5																		
2	Create an original thesis in their writing projects	K6																		
3	Apply research methodology and incorporate source material into their thesis	K4																		
4	Understand effective organizing strategies in writing	K2																		
5	Evaluate the credibility of sources, to use academic/scholarly resources, and to incorporate sources effectively and ethically.	K5																		
		<p><b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create</p>																		

## **PROGRAMME OUTCOME OF PART II ENGLISH**

On successful completion of the Part II English programme students will be able to:

PO1: Prove language skills through effective communication.

PO2: Imbibe better understanding of the usage of the English language.

PO3: Evaluate the skills of communication through the activities and exercises given.

PO4: Apply the acquired skills in day to day life usage.

PO5: Demonstrate good fluency and competency in the chosen career.

### **Programme Specific Outcome**

On successful completion of the Part II programme students are expected to:

PSO1: Develop in-depth knowledge and interest in the English language.

PSO2: Analyse the requirements for effective communication.

PSO3: Assess and improve the acquired skills.

PSO4: Apply the gained knowledge in critical thinking.

PSO5: Create competitive atmosphere in the established career.

**PG & RESEARCH DEPARTMENT OF ENGLISH**

**PART II ENGLISH**

**COURSE OUTCOME**

**ALL B.A/B.SC, BCOM & BCA-PART II ENGLISH- PAPER I, II, III & IV**

**ALL B.A/B.SC- PART II ENGLISH- PAPER I, II**

SNO	COURSE OUTCOME	
1	Enhance the reading skills of students.	K1
2	Understand the essence of literature.	K2
3	Improve the writing skills and present ideas appropriately	K3
4	Comprehend and interpret the text.	K4
5	Comment on the literary works efficiently.	K5

**K1-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6–Create**

**PG & RESEARCH DEPARTMENT OF ENGLISH**

**PART IV**

**COURSE OUTCOME**

**2019-2022 BATCH**

<b>SNO</b>	<b>COURSE</b>	<b>OUTCOME</b>		
<b>1</b>	<b>ENVIRONMENTAL STUDIES</b>			
<b>2</b>	<b>VALUE EDUCATION- HUMAN RIGHTS</b>			
<b>3</b>	<b>Skill Based Subject 1 COMMUNICATIVE ENGLISH – Paper I</b>	<b>SNO</b>	<b>COURSE OUTCOME</b>	
		<b>1</b>	<b>Develop and remember vocabulary and improve the accuracy in grammar.</b>	<b>K1</b>
		<b>2</b>	<b>Analyse and produce words with right pronunciation</b>	<b>K3</b>
		<b>3</b>	<b>Understand LSRW- listening, speaking, reading and writing skills and the related sub-skills.</b>	<b>K2</b>
		<b>4</b>	<b>Create and Demonstrate positive group communication exchanges</b>	<b>K6</b>
<b>K1-Remember; K2-Understand; K3 -Apply; K4-Analyze; K5-Evaluate; K6–Create</b>				
<b>4</b>	<b>Skill Based Subject 1 COMMUNICATIVE ENGLISH – Paper II</b>	<b>SNO</b>	<b>COURSE OUTCOME</b>	
		<b>1</b>	<b>Develop and remember vocabulary and improve the accuracy in grammar.</b>	<b>K1</b>
		<b>2</b>	<b>Analyse and produce words with right pronunciation</b>	<b>K3</b>
		<b>3</b>	<b>Understand LSRW- listening, speaking, reading and writing skills and the related sub-skills.</b>	<b>K2</b>
		<b>4</b>	<b>Create and Demonstrate positive group communication exchanges</b>	<b>K6</b>

		<b>K1-Remember; K2-Understand; K3 -Apply; K4- A6analyze; K5-Evaluate; K6–Create</b>		
<b>5</b>	<b>Skill Based Subject 1 COMMUNICATIVE ENGLISH – Paper III</b>	<b>SNO</b>	<b>COURSE OUTCOME</b>	
		<b>1</b>	<b>Develop and remember vocabulary and improve the accuracy in grammar.</b>	<b>K1</b>
		<b>2</b>	<b>Apply the right way of pronunciation through the knowledge of phonetics</b>	<b>K3</b>
		<b>3</b>	<b>Recognise and remember the meaning of new words based on contextual comprehension</b>	<b>K1</b>
		<b>4</b>	<b>Create and Demonstrate positive group communication exchanges</b>	<b>K6</b>
		<b>K1-Remember; K2-Understand; K3 -Apply; K4- Analyze; K5-Evaluate; K6–Create</b>		
<b>6</b>	<b>Skill Based Subject 1 COMMUNICATIVE ENGLISH – Paper IV</b>	<b>SNO</b>	<b>COURSE OUTCOME</b>	
		<b>1</b>	<b>Develop and remember vocabulary and improve the accuracy in grammar.</b>	<b>K1</b>
		<b>2</b>	<b>Analyse and produce words with right pronunciation</b>	<b>K3</b>
		<b>3</b>	<b>Understand Demonstrate the ability to speak publicly</b>	<b>K1</b>
		<b>4</b>	<b>Create and Demonstrate reading skills.</b>	<b>K6</b>
		<b>K1-Remember; K2-Understand; K3 -Apply; K4- Analyze; K5-Evaluate; K6–Create</b>		

**2020-2023 BATCH**

<b>SNO</b>	<b>COURSE</b>	<b>OUTCOME</b>		
<b>1</b>	<b>ENVIRONMENTAL STUDIES</b>			
<b>2</b>	<b>VALUE EDUCATION- HUMAN RIGHTS</b>			
<b>3</b>	<b>JOB ORIENTED COURSE – PAPER I- Language skill I</b>	<b>SNO</b>	<b>COURSE OUTCOME</b>	
<b>1</b>		<b>Master framing sentence on different pattern</b>	<b>K3</b>	
<b>2</b>		<b>Apply grammar in Speaking and writing</b>	<b>K3</b>	
<b>3</b>		<b>Prepare and analyse grammatically correct passages</b>	<b>K4</b>	
<b>4</b>		<b>Present short features.</b>	<b>K6</b>	
<b>K1-Remember; K2-Understand; K3 -Apply; K4-Analyze; K5-Evaluate; K6–Create</b>				
<b>4</b>	<b>JOB ORIENTED COURSE – PAPER II- Language skill II</b>	<b>SNO</b>	<b>COURSE OUTCOME</b>	
<b>1</b>		<b>Transform sentences into different kinds and learn synthesis &amp; transformation of sentences</b>	<b>K1</b>	
<b>2</b>		<b>Apply grammar in LSRW</b>	<b>K2</b>	
<b>3</b>		<b>Analyse the usage of words, comprehend the writings and composition</b>	<b>K3</b>	
<b>4</b>		<b>Adapt professional Writing</b>	<b>K5</b>	
<b>K1-Remember; K2-Understand; K3 -Apply; K4-Analyze; K5-Evaluate; K6–Create</b>				
<b>5</b>	<b>VALUE ADDED COURSE – PAPER I- Study of English Phonetics- I</b>	<b>SNO</b>	<b>COURSE OUTCOME</b>	
		<b>1</b>	<b>Learn phonetics symbols with sounds</b>	<b>K1</b>



		2	Use right accent and rhythm in speaking	K2
		3	Analyze the syllable and accent	K4
		4	Classify the speak sound	K5
		K1-Remember; K2-Understand; K3 -Apply; K4-Analyze; K5-Evaluate; K6-Create		
6	VALUE ADDED COURSE – PAPER II- Study of English Phonetics- II	SNO	COURSE OUTCOME	
		1	The concept of general Indian English	K2
		2	Apply intonation accent rhythm in Speaking	K3
		3	Master phonetics symbols and sounds	K4
		4	Transcript into Phonetic language	K5
		K1-Remember; K2-Understand; K3 -Apply; K4-Analyze; K5-Evaluate; K6-Create		

## **DEPARTMENT OF BOTANY**

### **UG - BOTANY**

**Programme Outcomes (POs)** are narrow statements that describe what the students are expected to know and would be able to do upon the graduation. These relate to the skills, knowledge, and behavior that students acquire through the programme.

- The students could work in Research Institutes and raise useful crop varieties
- The students become an Entrepreneur in Nurseries, Green house farming and in tissue culture labs.
- The students become an Environmental Consultant and help in developing pollution – free environment.
- After completing the course, the student will be efficient in medical coding and become Pharmacognosy consultant and also help in developing new drugs.
- The students could be employed as Plant Biochemist and analyse biochemical processes with reference to plants, system.
- The students can become a farming consultant and thereby use his/her knowledge in scientifically improving the existing agriculture practices
- The students can become a farming consultant and thereby use his/her knowledge in scientifically improving the existing agriculture practices.
- The students become Plant Pathologist and analyse the pathogenesis of newly identified plant diseases and pests affecting the crops.
- The students become Plant Pathologist and analyse the pathogenesis of newly identified plant diseases and pests affecting the crops
- The students can become a good Geneticist and help in producing genetically modified plants to cater the needs of the society
- The students become Plant Explorer in identifying and classifying new species of plants and maintain a proper Herbarium of unexplored areas.
- The students get opportunities of becoming an efficient forest and park ranger, Herbarium keeper etc.

### **Programme Specific Outcomes (PSOs)**

The PSOs are programme specific. PSOs are written by the Department offering the programme. There are usually five to seven PSOs for a Department.

- Attaining subject knowledge in terms of individual course as well as holistic programme.
- Identify, classify and compare the features of different plant groups.
- Analytical reasoning through practical.
- Acquire knowledge about modern techniques in plant science.
- Able to present scientific hypothesis and data.

# **DEPARTMENT OF BOTANY**

## **PG - BOTANY**

### **Program Specific Outcomes (PSOs)**

After the successful completion of PG Botany program, the students will be to

- Gain knowledge about the classification of plants from cryptogams to phanerogams, identification of the plants in the field to do Study of biodiversity studies with respect to habitat & correlate with climate change, land and forest degradation. Apply of Botany in agriculture through study of phytopathology and Paleobotany to trace the evolution of plants.
- Identify and classify plants for further biochemical and pharmaceutical aspects through the subjects Morphology, Taxonomy, Anatomy, Embryology and Morphogenesis.
- To develop intellectual skills on biological data and data bases for analysis of relevant biological situation.
- To gain skills about the identification of local medicinal, rare endangered endemic and exotic species in their original habitats and to acquire the therapeutic values, their cultivation practices for effective conservation for future use.
- Identify genes responsible for stress tolerance and genetic engineering of plants through microbiology and inter-relate integral and ubiquitous role of microbes with their environment.

### **Program Outcomes (POs)**

**On successful completion of the M.Sc. Botany program the students will be able to**

- Maintain a high level of scientific excellence in botanical research with specific emphasis on the role of plants, create, select and apply appropriate techniques, resources and modern technology in all areas of plant sciences.

- Logically think and implement the modern biological innovations and techniques and apply them through practical knowledge gained in the fields of Molecular Biology, Plant Biotechnology and plant tissue culture.
- Understand the issues of environmental contexts and sustainable development in making the environment clean and in making remedies and solutions for polluted areas.
- Enhance the therapeutic aspects of medicinal plants by traditional indigenous approaches and improved production of supply on medicine, food and other plant products for the betterment of human's holistic development and welfare.
- Acquire amplifying knowledge on basic scientific phenomena, fundamental principles and applications of various mathematical and statical tools in relevant biological situations.
- Ability to execute their ideas, knowledge and concepts in current scenario.
- Develop effective communicative skill through seminars to successfully disseminate the biological knowledge which will facilitate the students to look for various avenues in Higher Education and also in participating and giving good results in competitive examinations.

## Department of Botany ( UG)

Subject	Course out come	
<b>Core I</b> Plant diversit y I	On the successful completion of the course, students are able :	
	To understand thallus organization, reproduction and classification of algae, structure and reproduction of Chlorophyceae members	K2
	To get clear idea about members of Bacillariophyceae, Phaeophyceae, Rhodophyceae and Cyanophyceae	K2
	To learn the classification and salient features of fungi	K4
	To overview the structure and reproduction of Lichens.	K3
	To Implement knowledge on management of plant diseases to increase crop yield.	K3
	<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create	
<b>Core II</b> Plant diversit y II	On the successful completion of the course, student are able to:	
	1	Get an overview about classification of Bryophytes and their representative members.
	2	Gain in depth knowledge about Pteridophytes classification, evolution of stele and life cycle of Lycopodium and Equisetum.
	3	Know about Heterospory and seed habit and life cycle of Dicranopteris and Marselia.
	4	Overall view about Gymnosperms and its type species.
	5	Understand Paleobotany, types of fossils and analysis of fossil age with few example..
	<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create	

Subject	Department of botany( UG) Course out come				
<b>Core I Microbiology</b>	1	Understanding of research ethics involving microorganisms to contribute to application, advancement and impartment of knowledge in the field of microbiology and molecular biology globally. The laboratory training will empower them to prepare for careers in broad range fields.	K1		
	2	Knowledge of the leading edge in a chosen specialized area of Microbiology, based on own research experience from a master's project and international literature. Can compete in national level competitive exams such as NET-JRF or GATE or International exams such as GRE-TOEFEL and can pursue career in higher studies.	K2		
	3	Develop ability to independently carry out a complete scientific work process, including the understanding of theoretical background, hypothesis generation, collection and analysis of data, and interpretation and presentation of results	K3		
	4	Is able to evaluate and apply relevant theory, methods and analytic approaches within the specialized field of microbiology, including statistical methods.	K4		
	5	Has high competence and multidisciplinary project experience within selected topics related to microbiology and ability to contribute in a multidisciplinary team.	K5		
	<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create				
<b>Core Paper II</b>	On the successful completion of the course, student will be able to:				
	1	Grasp the basic concepts of lower life forms	K1		
	2	Understand the diversity in habits, habitats and organization of various groups of lower plants	K2		
	3	Inherit knowledge on the exploitation of useful products from lower forms for the betterment of human welfare	K3		
	4	Apply their acquired knowledge to improve the economic quality of the lower life forms.	K4		
<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create					
<b>Core Paper III</b>	1	Grasp the knowledge on phylogeny of Bryophytes, Pteridophytes and Gymnosperms.	K1		
	2	Assume the alternation of generations of Vascular Cryptogams and Phanerogams..	K2		
	3	Appeal the knowledge on identification of living fossils from the	K3		

		fossils and the role of fossils in oil exploration and coal excavation.	
	4	Discriminate various kinds of fossilization process and Radio carbon dating.	K4
	<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		
<b>Core Paper IV</b>	1	Comprise the concepts of ecosystem, biogeochemical cycle and species selection	K1
	2	Realize the environmental deterioration and possible measures for their revival	K2
	3	Appeal using modern techniques to conserve the species and natural resources. in modern techniques.	K3
	4	Monitor and register the biodiversity changes through remote sensing	K4
	5	Apply strategies for the conservation of Germplasm	K5
	<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		
<b>Core practical</b>	1	Isolation, Analysation and measuring of microbes	K5
	2	Acquire and analyze interrelationships between algae, fungi and Lichen	K4
	3	Gain the knowledge about morphology and anatomy organizations of Bryophytes, Pteridophytes, Gynmosperms and Fossils	K2
	4	To encourage the young minds to conserve the environment	K6
	5	Expertise to create biodiversity map in India	K3
	<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> – Create		
<b>PHYTO PATHOLOGY</b>	1	Recognize the host and pathogen interaction	K1
	2	Expertise through control of food and commercial crop pathogens	K2
	3	Improve to handling disease free varieties.	K3
	4	Implement the disease management techniques in the fields.	K4
	<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		
<b>Core Paper V</b>	1	The course will facilitate the adequate knowledge about the cell biology and basic concept of genetics, structure of organisms and advanced molecular techniques.	K1
	2	To understand the structure and function of basic components of prokaryotic and eukaryotic cells, especially its membrane organization and organelles	K2
	3	To introduce to rapid contemporary changes witnessed in plant	K3

		molecular biology.	
	4	Basic organization of genetic material and the realms of events associated with replication and gene expression will be examined	K4
	5	The subject provides knowledge about different techniques of biology and Gene.	K5
	6	Students will gain knowledge about the basic and fundamental organization of life and genetic material and their applications.	K6
	<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		
<b>Core Paper VI</b>	1	Students will demonstrate an understanding of Mendelian and molecular genetics, cell structure, cell physiology, and molecular processes of cells. Understanding of the principles of evolution.	K1
	2	To understand the role of genetic technologies in industries related to biotechnology, pharmaceuticals, energy, and other fields. Understanding the role of genetic mechanisms in evolution. Understanding the different methods of plant breeding for the improvement of crop	K2
	3	The ability to recognize the experimental rationale of genetic studies as they are described in peer-reviewed research articles and grant proposals to federal and other funding agencies.	K3
	4	Students will demonstrate the ability to work effectively with molecular, computational, mathematical, and statistical approaches to acquire, analyze, and model experimental datasets. The ability to evaluate conclusions that are based on genetic data.	K4
	5	Communication skills required in the discipline including oral presentations of research data, published research articles, grant proposals, and poster presentations at conferences	K5
	<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		
<b>Core Paper VII</b>	1	Understand the intricacies involved in the reproduction of plants.	K1
	2	Gain awareness about the various process of compatibility involved in plant reproduction	K2
	3	To explain the importance of secondary growth and to state the location of tissues involved in secondary growth in dicot and monocot plants	K3
	4	To state the types of growth and to compare their structure and functions and processes of floral development.	K4
	<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		
<b>Core Paper VIII</b>	1	The lecture time is used to introduce key concepts of cell biology as they relate to manipulating cells in culture, to demonstrate the specific skills used by tissue culture technicians, and to provide the student with information on the applications of tissue culture in modern laboratory settings.	K1
	2	Students will simultaneously begin basic plant micropropagation in tissue culture, with attention to differences in culture requirements for	K2



		different plants	
	3	Apply the technique of micropropagation such as somatic embryogenesis, organogenesis and protoplast culture for ex situ conservation and mass multiplication of endangered and economically important plants	K3
	4	Analyze and relate morphological, physiological and somaclonal variations for crop improvement	K4
	<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		
<b>PRACTICAL - II</b>	1	Find out the cell organelles and various stages of the nucleus	K1
	2	Apply the basic principles of genetics and plant breeding for genetic improvement of plants.	K4
	3	Understand the primary and secondary structure of plants.	K2
	4	Acquire and analyze the plant tissue culture techniques	K3
	<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		
Elective Paper II	1	Imparting quality education.	K1
	2	Understanding the principles, theoretical aspects and developing skills in biotechnology of horticultural crops.	K2
	3	Development of technical manpower to cater the need of government, corporate, quasi government and research organizations both in India and abroad in horticulture.	K3
	4	To update knowledge on the recent research trends in the field of breeding of fruit crops with special emphasis on tropical, subtropical and temperate crops grown in India.	K4
	5	To update knowledge on the recent research trends in the field of biotic and abiotic stress management in horticultural crops.	K4
	6	The subject provides knowledge about different techniques of biology and Gene level.	K5
	7	Vital step to sustain the Golden Revolution in India.	K6
	<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		

### MASTER OF SCIENCE - BOTANY

S.NO	COURSE	COURSE OUTCOME
<b>SEMESTER I</b>		

1.	<b>Core Paper I Microbiology</b>	On the successful completion of the course, student will be able to:		
		1	Understanding of research ethics involving microorganisms to contribute to application, advancement and impartment of knowledge in the field of microbiology and molecular biology globally. The laboratory training will empower them to prepare for careers in broad range fields.	K1
		2	Knowledge of the leading edge in a chosen specialized area of Microbiology, based on own research experience from a master's project and international literature. Can compete in national level competitive exams such as NET-JRF or GATE or International exams such as GRE-TOEFEL and can pursue career in higher studies.	K2
		3	Develop ability to independently carry out a complete scientific work process, including the understanding of theoretical background, hypothesis generation, collection and analysis of data, and interpretation and presentation of results	K3
		4	Is able to evaluate and apply relevant theory, methods and analytic approaches within the specialized field of microbiology, including statistical methods.	K4
		5	Has high competence and multidisciplinary project experience within selected topics related to microbiology and ability to contribute in a multidisciplinary team.	K5
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
2.	<b>Core Paper II Phycology, mycology and lichenology</b>	On the successful completion of the course, student will be able to		
		1	Grasp the basic concepts of lower life forms	K1
		2	Understand the diversity in habits, habitats and organization of various groups of lower plants	K2
		3	Inherit knowledge on the exploitation of useful products from lower forms for the betterment of human welfare	K3
		4	Apply their acquired knowledge to improve the economic quality of the lower life forms.	K4
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
3.	<b>Core Paper III Bryophytes, pteridophytes, gymnosperms and paleobotany</b>	On the successful completion of the course, student will be able to:		
		1	Grasp the knowledge on phylogeny of Bryophytes, Pteridophytes and Gymnosperms.	K1
		2	Assume the alternation of generations of Vascular Cryptogams and Phanerogams..	K2
		3	Appel the knowledge on identification of living fossils from the fossils and the role of fossils in oil exploration and coal excavation.	K3
		4	Discriminate various kinds of fossilization process and Radio carbon dating.	K4
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
4.	<b>Core Paper IV environmental botany and conservation biology</b>	On the successful completion of the course, student will be able to:		
		1	Comprise the concepts of ecosystem, biogeochemical cycle and species selection	K1
		2	Realize the environmental deterioration and possible measures for their revival	K2

		3	Appeal their acquired knowledge to conserve the species and natural resources. in modern techniques.	K3
		4	Monitor and register the biodiversity changes through remote sensing	K4
		5	Apply strategies for the conservation of Germplasm	K5
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		
5.	<b>Elective I Phytopathology</b>	On the successful completion of the course, student will be able to:		
		1	Recognize the host and pathogen interaction	K1
		2	Expertise through control of food and commercial crop pathogens	K2
		3	Improve to handling disease free varieties.	K3
		4	Implement the disease management techniques in the fields.	K4
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		
<b>SEMESTER II</b>				
	<b>Core Paper V 6 Cell and molecular biology</b>	On the successful completion of the course, student will be able to:		
		1	The course will facilitate the adequate knowledge about the cell biology and basic concept of genetics, structure of organisms and advanced molecular techniques.	K1
		2	To understand the structure and function of basic components of prokaryotic and eukaryotic cells, especially its membrane organization and organelles	K2
		3	To introduce to rapid contemporary changes witnessed in plant molecular biology.	K3
		4	Basic organization of genetic material and the realms of events associated with replication and gene expression will be examined	K4
		5	The subject provides knowledge about different techniques of biology and Gene.	K5
		6	Students will gain knowledge about the basic and fundamental organization of life and genetic material and their applications.	K6
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		
7	<b>Core Paper VI Genetics, evolution and plant breeding</b>	On the successful completion of the course, student will be able to:		
		1	Students will demonstrate an understanding of Mendelian and molecular genetics, cell structure, cell physiology, and molecular processes of cells. Understanding of the principles of evolution.	K1
		2	To understanding the role of genetic technologies in industries related to biotechnology, pharmaceuticals, energy, and other fields. Understanding the role of genetic mechanisms in evolution. Understanding the different methods of plant breeding for the improvement of crop	K2

		3	The ability to recognize the experimental rationale of genetic studies as they are described in peer-reviewed research articles and grant proposals to federal and other funding agencies.	K3
		4	Students will demonstrate the ability to work effectively with computational, mathematical, and statistical approaches to acquire, analyze, and model experimental datasets. The ability to evaluate conclusions that are based on genetic data.	K4
		5	Communication skills required in the discipline including oral presentations of research data, published research articles, grant proposals, and poster presentations at conferences	K5
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		
8	<b>Core Paper VII Anatomy, embryology and morphogenesis</b>	On the successful completion of the course, student will be able to:		
		1	Understand the intricacies involved in the reproduction of plants.	K1
		2	Gain awareness about the various process of compatibility involved in plant reproduction	K2
		3	To explain the importance of secondary growth and to state the location of tissues involved in secondary growth in dicot and monocot plants	K3
		4	To state the types of growth and to compare their structure and functions and processes of floristic growth	K4
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		
9	<b>Core Paper VIII Plant tissue culture</b>	On the successful completion of the course, student will be able to:		
		1	The lecture time is used to introduce key concepts of cell biology as they relate to manipulating cells in culture, to demonstrate the specific skills used by tissue culture technicians, and to provide the student with information on the applications of tissue culture in modern laboratory settings.	K1
		2	Students will simultaneously begin basic plant micropropagation in tissue culture, with attention to differences in culture requirements for different plants	K2
		3	Apply the technique of micropropagation such as somatic embryogenesis, organogenesis and protoplast culture for ex situ conservation and mass multiplication of endangered and economically important plants	K3
		4	Analyze and relate morphological, physiological and somaclonal variations for crop improvement	K4
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		
10	<b>Elective Paper II Horticulture</b>	On the successful completion of the course, student will be able to:		
		1	Imparting quality education.	K1
		2	Understanding the principles, theoretical aspects and developing skills in biotechnology of horticultural crops.	K2

		3	Development of technical manpower to cater the need of government, corporate, quasi government and research organizations both in India and abroad in horticulture.	K3
		4	To update knowledge on the recent research trends in the field of breeding of fruit crops with special emphasis on tropical, subtropical and temperate crops grown in India.	K4
		5	To update knowledge on the recent research trends in the field of biotic and abiotic stress management in horticultural crops.	K4
		6	The subject provides knowledge about different techniques of biology and Gene level.	K5
		7	Vital step to sustain the Golden Revolution in India.	K6
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
<b>SEMESTER III</b>				
11	<b>Core Paper IX Plant taxonomy</b>	On the successful completion of the course, student will be able to:		
		1	Classify Plant taxonomy and recognize the importance of herbarium	K1
		2	Evaluate the Important herbaria and botanical gardens	K2
		3	Interpret the rules of ICN in botanical nomenclature	K3
		4	Assess terms and concepts related to Phylogenetic Systematics	K4
		5	Generalize the characters of the families according to Bentham & Hooker's system of classification	K5
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
12	<b>Core Paper X Medicinal botany</b>	On the successful completion of the course, student will be able to:		
		1	On the successful completion of this course students will be able to know recent trends in plant science and its applications.	K1
		2	Be able to navigate the current healthcare environment, empower clients to make informed choices and refer when appropriate.	K2
		3	To know the marketing level and self-help entrepreneurship.	K3
		4	This supportive course is exposure knowledge about important chemicals of medicinal plants and their significant role in drug discovery.	K4
		5	Gain knowledge about nutritive diet for different age groups.	K5
		6	Acquire knowledge about healthy food for normal person and patient.	K6
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
13	<b>Core Paper XI Plant physiology</b>	On the successful completion of the course, student will be able to:		
		1	Recognize the plant, water and mineral interaction	K1
		2	Understand the remarkable metabolic pathway in plants.	K2
		3	Improve to phytohormones in plants.	K3
		4	Estimate the stress resistance mechanism for the better yield of the crops.	K4

		5	Implement the seed dormancy in the fields.	K5
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		
14	<b>Core Paper XII Phytochemistry</b>	<b>On the successful completion of the course, student will be able to:</b>		
		1	Explain basic metabolic pathways of plants and formation of different secondary metabolites through various biosynthetic pathways in plants	K1
		2	Utilization of radioactive isotopes in the investigation of biosynthetic pathways	K2
		3	Acquire knowledge on properties and nature of macromolecules	K3
		4	Apply current biochemical techniques to plan and carry out their experiments.	K4
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		
15	<b>Elective III Bioinstrumentation and biological techniques</b>	<b>On the successful completion of the course, student will be able to:</b>		
		1	To apply the concepts of bioanalytical techniques in biotechnology research	K1
		2	To handle these bioanalytical techniques in industry	K2
		3	To operate and optimize the experimental conditions of different analytic techniques	K3
		4	To implement knowledge for the separation of bioentities.	K4
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		
<b>SEMESTER IV</b>				
16	<b>Core Paper XIII Biotechnology and genetic engineering</b>	<b>On the successful completion of the course, student will be able to:</b>		
		1	To apply the basic concepts of cell and molecular biology in modern biology	K1
		2	To correlate between genotypic and phenotypic attributes of an organism	K2
		3	To perform genetic manipulations using types of cloning and expression vectors	K3
		4	To explain how genetic engineering involves the use of recombinant DNA technology for crop improvement and to identify the molecular markers for selection of superior genotypes.	K4
		5	To acquire fundamental knowledge on the application of various molecular tools and techniques for improvement of microbes and higher plants	K5
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		

17	<b>Elective IV Bioinformatics and Biostatistics</b>	<b>On the successful completion of the course, student will be able to:</b>		
		1	Acquire the knowledge of biological databases	K1
		2	Recognise the biomolecule structure and functions	K2
		3	Assess the knowledge of biological tools to manipulate unknown biomolecules to known.	K3
		4	Execute appropriate algorithms to identify the similarities and dissimilarities in biological samples.	K4
		5	Practice with idea generation techniques, Learn how to manage the creative process	K5
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		

**PG AND RESEARCH DEPARTMENT OF COMMERCE**  
**B.COM**

<b>Program Specific Outcomes (PSOs)</b>	
After the successful completion of B.COM program, the students are expected to	
PSO1	To provide strong base on the course relevant to the area of commerce which helps to choose their career
PSO2	To enhance knowledge and skills among students which built confidence to identify their career opportunities in multiple dimensions.
PSO3	Nurture the students in intellectual, personal, interpersonal and social skills with a focus on relevant professional career particularly, to maximize professional growth.
PSO4	Empower the students with necessary competencies and decision-making skills to foster the innovative thinking to become an entrepreneur
PSO5	Strengthen the students to become expert in the field of communication with ethical consciousness.
PSO6	To know the use of basic mathematical and statistical knowledge necessary for analysis of various problems in the field of finance, auditing, taxation and costing.

<b>Program Outcomes (POs)</b>	
On successful completion of the B.COM program	
PO1	Build the wide range of knowledge in the areas of accounting concepts and their application to meet the current requirements of the industry.
PO2	Develop strong knowledge in the areas such as finance, economics, taxation, laws relating to commerce and auditing helps to build the conceptual and analytical skills in the field of commerce.
PO3	Inculcate the students to nurture their skills in personal, interpersonal, intellectual and others skills to develop their professional career and growth.
PO4	Motivate the students to develop decision making and problem-solving skills with the required knowledge in business to avail better business opportunities.
PO5	To develop business ethics and social responsibilities with commercial and social skills.





**PG AND RESEARCH DEPARTMENT OF COMMERCE**

**COURSE OUTCOME**

**BACHELOR OF COMMERCE**

S.NO	COURSE	COURSE OUTCOME		
<b>Semester I</b>				
1.	Core I – Principles of Accountancy	On the successful completion of the course, student will be able to:		
		1	Recalling Accounting Concepts and Conventions and use Accounting rules to record business transactions in the form of Journal, Ledger, subsidiary books and preparation of Trial Balance.	K1
		2	Understanding the steps involved in locating errors	K2
		3	Understanding and the preparation of final accounts for sole traders.	
		4	Outline the concepts of Bills of exchange, Average due date and Account Current	K2
		5	Examine the concepts of consignment and joint venture.	K4
		6	Analyze the bank reconciliation statement, Receipts and payments, Income and expenditure and Balance sheet and accounting for professionals to enhance the knowledge.	K4
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
2.	Core II– Business Organization & Office Management	On the successful completion of the course, student will be able to:		
		1	Understanding the concepts of business and its forms of organizations involved in sole trader, partnership firms, companies and co-operative societies and public enterprise.	K2
		2	Analyzing the business factors which are involved in sources of finance.	K4
		3	Explaining the functioning of stock exchanges SEBI, DEMAT of shares.	K2
		4	Remembering office functions, layout and accommodation.	K1
		5	Outlining office equipments and EDP.	K2
		6	Understanding the concepts and technologies involved in Industry 4.0	
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		

3.	Allied Paper I – Agricultural Economy of India	On the successful completion of the course, student will be able to:		
		1	Understand the Agricultural Economy of the India and measure the development of agriculture in India	K2
		2	Identify the problems and prospects of Indian agriculture and importance of green revolution.	K2
		3	Study the agricultural marketing, pricing and their effect marketing system	K2
		4	Outline the land tenure and land ceiling system in India	K1
		5	Understand the role of agricultural banks for rural economic development	K2
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
<b>Semester II</b>				
4.	Core III – Higher Financial Accounting	On the successful completion of the course, student will be able to:		
		1	Describing the concepts based on depreciation and its methods in books of accounts.	K1
		2	Outline about the nature of Investment and Royal excluding Sublease.	K2
		3	Identifying the essential characteristics of single entry system.	K3
		4	Applying the basic concepts of departmental and branch accounting.	K4
		5	Familiarize the procedure relating to hire purchase and installment in books of accounts	K2
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
5.	Core IV – Principles of Marketing	On the successful completion of the course, student will be able to:		
		1	Defining the various concepts and terms related to marketing	K1
		2	Explaining about various marketing functions	K2
		3	Understanding terms of consumer behavior and examined about different concepts related to consumers.	K2
		4	Identifying the marketing mix and its elements	K1

		5	Understanding different provisions related to trends in emerging markets.	K2
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
6.	Allied Paper II – Economic Analysis	On the successful completion of the course, student will be able to:		
		1	Understand The Fundamentals of Micro Economic And Theory Consumer Behaviour	K2
		2	Learn the concepts of demand and elasticities of demand	K2
		3	Understand theories of production, cost and revenue concepts	K2
		4	Analyse the price and output determination under various market structures	K4
		5	Acquire knowledge on theories of productivity and wages	K2
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
<b>Semester III</b>				
7.	Core V-Higher Financial Accounting	On the successful completion of the course, student will be able to:		
		1	Understanding the basic concepts of partner and procedures related to calculation of ratios.	K2
		2	Acquiring the principle at the time of retirement in the books of partner	K1
		3	Analyzing dissolution and insolvency of firms and individuals.	K4
		4	Evaluate the insolvency or loss of individuals or firms.	K5
		5	Examine the concepts based on voyage, Human resource and inflation accounting.	K4
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
8.	Core VI – Commercial Law	On the successful completion of the course, student will be able to:		
		1	Assessing the various elements related business law and contract	K5
		2	Interpreting different type of contract and its features	K2
		3	Explain about the agency system related to creation and termination of agency	K5
		4	Compare between rights and duties of indemnity, guarantee	K5
		5	Examine the distinct between sale and agreement to sell and its features	K4
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
9.	Core VII – Principles of	On the successful completion of the course, student will be able to:		
		1	Explaining the concepts based on management and its features	K2

	Management	2	Summarizing the principles and importance of planning	K2
		3	Interpreting various concepts based on organization and its element	K2
		4	Examining the determinants of behaviour and motivation theories	K4
		5	Understanding the need and techniques of communication in management	K2
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
<b>10.</b>	Allied :III - Mathematics for Business	On the successful completion of the course, student will be able to:		
		1	Understand the basic concepts of arithmetic and geometric series and different effective rates of interest for sinking fund, annuity and present value.	K2
		2	Recall the basic concepts of addition and multiplication analysis and input and output analysis.	K1
		3	Explain of variables, constants and functions and evaluate the first and second order derivatives.	K2
		4	Interpret integral calculus and determining definite and indefinite functions.	K2
		5	Analyze the linear programming problem by using graphical solution and simple method.	K4
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
<b>11.</b>	Skill based Subject -1 : Business Application Software-I	On the successful completion of the course, student will be able to:		
		1	To know the basics on MS Word	K2
		2	To study formatting features in MS Word	K2
		3	To understand the concept of mail merge	K2
		4	To gain knowledge on excel operations	K2
		5	To acquire knowledge on Managing and Analyzing Complex Worksheet	K2
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
<b>Semester IV</b>				

<b>12.</b>	Core VIII– Corporate Accounting I	On the successful completion of the course, student will be able to:		
		1	Explaining about the basic provisions towards issue of shares in market	K2
		2	Understanding the concepts of debenture and its accounting	K2
		3	Analyze the companies final accounts and Managerial Remuneration	K4
		4	Estimating methods of goodwill and shares	K5
		5	Examine various procedures related to liquidation of companies	K4
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
<b>13.</b>	Core IX – Computer Applications in Business	On the successful completion of the course, student will be able to:		
		1	Recall the various concepts relating to computer and its various parts	K1
		2	Understand the meaning of software’s, operating system etc	K2
		3	Understanding the meaning and utility of database management system	K2
		4	Evaluate the various aspects of management information system	K5
		5	Generating more ideas regarding the use of internet for business purpose	K6
		6	Understanding the concepts of data handling and applying the knowledge in the field of business.	K2
K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create				
<b>14.</b>	Core X – Company Law and Secretarial Practice	On the successful completion of the course, student will be able to:		
		1	To Define the fundamentals of corporate law and the amendments.	K1
		2	Identify the role, responsibilities, appointment and liabilities of corporate directors	K2
		3	Analyzing various winding up procedures, regulations and formalities under law	K4
		4	Examine the role of corporate secretary ship and specific conditions	K4
		5	Outline corporate level meetings with regard to duties of company secretary, drafting correspondence, Notice, Agenda and Minutes	K2
K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create				
<b>15.</b>	Core XI – Executive Business Communication	On the successful completion of the course, student will be able to:		
		1	Outline the importance of effective business communication	K2
		2	Understand the intricacies of responding to business related queries	K2
		3	Categorizing effective correspondence with banks, insurance and agencies	K3

		4	Examine effective response to company secretarial correspondence	K4
		5	Analyze new innovative and effective ideas for business communication	K4
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
16.	Core XII – Banking Theory	On the successful completion of the course, student will be able to:		
		1	Illustrate the classification of commercial banks, functions and credit creation	K2
		2	Outline the recent trade in banking	K2
		3	Analyze the functions of central banks and its credit controlling measures	K4
		4	Examine the concepts of Indian Money Market	K4
		5	Explain the role of SBI Commercial banks and Development banks	K5
		6	Understanding the recent technologies related to Fintech and applying the knowledge practically.	K2
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
17.	Allied :IV: Statistics For Business	On the successful completion of the course, student will be able to:		
		1	Understand the basic concepts of arithmetic and geometric mean and different types of data collection.	K2
		2	Recall measures of dispersion.	K1
		3	Execute correlation and regression analysis.	K3
		4	Understand the different types of moving averages.	K2
		5	Analyze interpolation and probability	K4
K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create				
18.	Skill based Subject 2: Computer Applications (MS-Word and MS-Excel)- Practical –I	On the successful completion of the course, student will be able to:		
		1	Remember the basic concepts computer applications using MS-Office applications for the business transactions.	K2
		2	Create customers list using mail merge for sending letters to the respondents at a time.	K6
		3	Generate the database using MS-Word and excel.	K3
		4	Execute and apply various statistical tools available in MS excel for the business enterprise transactions.	K4
		5	Apply various statistical tools available in MS-excel for the business enterprise transactions	K4
K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create				

**Semester V**

<b>19.</b>	Core XIII – Corporate Accounting II	On the successful completion of the course, student will be able to:		
		1	Recall various concepts and methods of preparing accounts under mergers and acquisitions	K1
		2	Understand various methods of preparing holding company accounts	K2
		3	Understand various methods of preparing and assessing final accounts of banking companies	K2
		4	Analyze the final accounts of insurance companies	K4
		5	Analyze the accounting statements of electricity companies	K4
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
<b>20.</b>	Core XIV– Banking Law and Practices	On the successful completion of the course, student will be able to:		
		1	Remembering the various terms and concepts used in banking industry	K1
		2	Understanding the various process and activities of accounts in banks	K2
		3	Outline various features of cheques for easy and simple banking	K2
		4	Examine the various loans and advance related process in banks	K4
		5	Classifying various kind of documents involved in banking services	K2
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
<b>21.</b>	Core XV– Cost Accounting	On the successful completion of the course, student will be able to:		
		1	Recall various concepts of costing and costing methods	K1
		2	Analyze the various elements of costing	K4
		3	Explain the labour wage payment system	K2
		4	Outline the cost under process costing system	K2
		5	Examine about operational costing, contract costing and Reconciliation of Cost and Financial Statements.	K4
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
<b>22.</b>	Core XVI– Income Tax Law and Practice	On the successful completion of the course, student will be able to:		
		1	Outline the various terminologies related to income tax	K1
		2	Understand the method of calculating and levying tax	K2
		3	Apply the various tax laws and available provisions in tax computations	K3
		4	Evaluate the set off and carry forward of losses while calculating personal income	K5
		5	Analyze self-assessment of income and tax computation	K4



		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
23.	Elective –I: Business Finance	On the successful completion of the course, student will be able to:		
		1	Outline various concepts relating to finance	K2
		2	List the various techniques of financial planning	K2
		3	Analyze various sources and forms of finance	K4
		4	Examine the various dimensions of capital market and their components	K4
		5	List the capitalization concept and related theories for decision making	K4
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
24.	Skill based Subject-3: Business Application Software II	On the successful completion of the course, student will be able to:		
		1	Understand the basic concepts computer applications using MS-PowerPoint	K2
		2	Create and do effective presentation for the business meeting using PowerPoint presentation.	K2
		3	Understand the basic concepts computer applications using MS-Access	K2
		4	Generate the database using MS-Access	K2
		5	Examine the Filtering and Querying Tables	K2
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
<b>Semester VI</b>				
25.	Core XVII – Management Accounting	On the successful completion of the course, student will be able to:		
		1	Outline the various concepts relating to management accounting	K2
		2	Analyze financial statements using ratio analysis	K4
		3	Evaluate the working capital management of companies	K5
		4	Comparing various alternatives using marginal costing and decision making	K2
		5	Analyze new budget and budgetary control for organizations	K4
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
26.	Core XVIII - Principles of Auditing	On the successful completion of the course, student will be able to:		
		1	Define the important concept and rules relating to auditing	K1
		2	Outline the techniques and applicability of internal audit	K2
		3	Analyze the valuation of assets and liabilities in business	K4

		4	Analyze the accounts and auditing the joint stock companies	K4
		5	Examine about investigation and auditing of computerized accounts	K4
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
27.	Core XIX- Indirect Taxes	On the successful completion of the course, student will be able to:		
		1	Recall various concepts relating to Indirect tax regime in India	K1
		2	Analyze the concept and applicability of GST in businesses	K4
		3	Compare the GST regime with other indirect tax laws prior to it	K2
		4	Illustrate GST system in own business and other prototypes	K2
		5	Examine the custom law and related duties and taxes	K4
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
28.	Elective–II: Entrepreneurial development	On the successful completion of the course, student will be able to:		
		1	Recall the importance and role of entrepreneurship as an economic activity	K1
		2	Explain the various process of setting up a startup	K2
		3	Outline the various institutional services to entrepreneur	K2
		4	Analyze the various financial institution available to support entrepreneurs	K4
		5	List the various subsidies and incentives available for entrepreneurs	K4
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
29.	Elective–III: Financial markets	On the successful completion of the course, student will be able to:		
		1	Define the basic concepts of financial market	K1
		2	Understand the components of corporate securities market	K2
		3	Analyze the functions and working Mechanism of stock exchanges in India	K4
		4	Explain the role of banks and intermediaries in financial market	K4
		5	Apply various trends and new modes in financing	K3
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
30.	Skill based Subject-4: Computer Applications: MS- Power Point, MS Access and	On the successful completion of the course, student will be able to:		
		1	Prepare a PowerPoint presentation with animation and multimedia effects	
		2	To create a database and to perform basic operations with data	
		3	To create a company profile and making alterations when required	

	Tally 9.2 – Practical II			
		4	To prepare vouchers, ledgers and trial balance.	
		5		
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		

**PG AND RESEARCH DEPARTMENT OF COMMERCE**  
**M.COM (CA)**

<b>Program Specific Outcomes (PSOs)</b>	
After the successful completion of the M. Com (Computer Applications) program, the students are expected to	
PSO1	To gain practical insights in project preparation and analysis of business data
PSO2	Uses of software tools to carry out a specified financial analysis for a corporate sector
PSO3	Apply the knowledge gained during the course of the program to solve the real time problems
PSO4	To Meet the needs of industry4.0
PSO5	Communicate effectively with ICT professionals

<b>Program Outcomes (POs)</b>	
On successful completion of the M. Com (Computer Applications) program	
PO1	To be conversant with recent development in commerce and trust areas in the field of computer
PO2	To gain Computer knowledge and make use of it effectively in the field of commerce
PO3	To design computer software to suit the needs of industry and business
PO4	To acquire skill in doing business in the electronic environment
PO5	To become worthy citizens of the nation by enriching knowledge in the application of computer in commerce



**PG AND RESEARCH DEPARTMENT OF COMMERCE**

**COURSE OUTCOME**

**M.COM (C.A)**

<b>S. N O</b>	<b>COURSE</b>	<b>COURSE OUTCOME</b>																					
<b>Semester I</b>																							
<b>1.</b>	<b>MANAGERIAL ECONOMICS</b>	<table border="1"> <tr> <td colspan="3"><b>On The Successful completion of the course, student will be able to:</b></td> </tr> <tr> <td align="center"><b>1</b></td> <td><b>Acquire the knowledge about the nature and scope of managerial economics, demand analysis and law of variable proportion.</b></td> <td align="center"><b>K1</b></td> </tr> <tr> <td align="center"><b>2</b></td> <td><b>Understand the role of managerial economist, goal of corporate enterprises , demand determinants, types of market ,national income and public finance.</b></td> <td align="center"><b>K2</b></td> </tr> <tr> <td align="center"><b>3</b></td> <td><b>Have thorough knowledge about various types of costs and revenues and break even point analysis.</b></td> <td align="center"><b>K3</b></td> </tr> <tr> <td align="center"><b>4</b></td> <td><b>Analyze role of managerial economist in demand analysis , cost and production analysis.</b></td> <td align="center"><b>K4</b></td> </tr> <tr> <td align="center"><b>5</b></td> <td><b>Evaluate the value of enterprises, pricing and output decisions, business cycles and remedies of industrial sickness</b></td> <td align="center"><b>K5</b></td> </tr> <tr> <td colspan="3"><b>K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create</b></td> </tr> </table>	<b>On The Successful completion of the course, student will be able to:</b>			<b>1</b>	<b>Acquire the knowledge about the nature and scope of managerial economics, demand analysis and law of variable proportion.</b>	<b>K1</b>	<b>2</b>	<b>Understand the role of managerial economist, goal of corporate enterprises , demand determinants, types of market ,national income and public finance.</b>	<b>K2</b>	<b>3</b>	<b>Have thorough knowledge about various types of costs and revenues and break even point analysis.</b>	<b>K3</b>	<b>4</b>	<b>Analyze role of managerial economist in demand analysis , cost and production analysis.</b>	<b>K4</b>	<b>5</b>	<b>Evaluate the value of enterprises, pricing and output decisions, business cycles and remedies of industrial sickness</b>	<b>K5</b>	<b>K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create</b>		
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			2	Identify the macro and micro environments of a market and buyer Behavior.	K2															
			3	Locate the different types of products, product line, product mix and pricing decisions.	K3															
			4	Evaluate the importance of channels of distribution and promotional mix.	K4															
			5	Acquire the knowledge to market the agricultural produce and about marketing research.	K4															
			<b>K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create</b>																	
<b>3.</b>	<b>DATABASE MANAGEMENT SYSTEM</b>	<p>On the successful completion of the course, student will be able to:</p> <table border="1"> <tbody> <tr> <td>1</td> <td>Describe the fundamental elements of relational database management systems</td> <td>K2</td> </tr> <tr> <td>2</td> <td>Explain The Basic Concepts Of Relational Data Model, entity-relationship model, relational database design, relational algebra and SQL.</td> <td>K1</td> </tr> <tr> <td>3</td> <td>Convert TheEr-model to relational tables, populate relational database and formulate sql queries on data.</td> <td>K3</td> </tr> <tr> <td>4</td> <td>Evaluate the hierarchical approach and program communication block</td> <td>K5</td> </tr> <tr> <td>5</td> <td>Be familiar with basic database knowledge in Network Approach, DBTG Data manipulation.</td> <td>K6</td> </tr> </tbody> </table> <p>K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create</p>				1	Describe the fundamental elements of relational database management systems	K2	2	Explain The Basic Concepts Of Relational Data Model, entity-relationship model, relational database design, relational algebra and SQL.	K1	3	Convert TheEr-model to relational tables, populate relational database and formulate sql queries on data.	K3	4	Evaluate the hierarchical approach and program communication block	K5	5	Be familiar with basic database knowledge in Network Approach, DBTG Data manipulation.	K6
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4.	COMPUTER APPLICATIONS PRACTICALS I- MS OFFICE AND ORACLE	On the successful completion of the course, student will be able to:		
		1	To prepare a word document with formatting and to use mail merge	K6
		2	To create excel sheet and working with mathematics and statistics with functions	K6
		3	Prepare a presentation	K6
		4	Working with oracle and data operations	K6
		5		
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
SEMESTER II				
5.	CORPORATE ACCOUNTING	On the successful completion of the course, student will be able to:		
		1	Comprehend The Accounting Provisions In the Companies Act relating To prepare the final accounts of a company.	K1
		2	Prepare accounts relating to Amalgamation, Absorption and Alteration of share capital.	K2
		3	Prepare Accounts At the time of liquidation of	K3



			companies.			
		4	Develop the knowledge on various accounting aspects pertaining to valuation of shares, holding company accounts and banking and insurance companies	K3		
		5	Be familiar with the theoretical framework of Human resource accounting, Government accounting, Responsibility accounting and Environmental Accounting	K4		
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create				
<b>6.</b>	<b>HUMAN RESOURCE MANAGEMENT</b>	On the successful completion of the course, student will be able to:				
		1	Explain Human Resources Planning, Dealing With Surplus And Deficient Man power.	K1		
		2	Describe The Meanings of terminology and tools used in managing employees effectively.	K2		
		3	Prepare as election strategy for a specific job.	K2& K3		
		4	Gain knowledge in develop, analyze and apply advance training strategies and specifications for the delivery of training programs.	K4		
		5	Compare and contrast the different techniques involved in the performance appraisal process, for example, the giving and receiving of feedback	K5		
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create				
<b>7.</b>	<b>BUSINESS RESEARCH METHODS</b>	On the successful completion of the course, student will be able to:				
		1	Apply a range of quantitative and /or qualitative research techniques in business and management problems/issues	K1& K2		

		2	Organize And Conduct Research Using sampling method	K2		
		3	Develop Necessary Critical thinking skills in order to evaluate different statistical tools used in research.	K2&K3		
		4	Demonstrate knowledge and understanding of data analysis and interpretation in relation to other research process by testing hypothesis.	K4		
		5	Write A Research Report and thesis.	K5&K6		
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create				
8.	OBJECT ORIENTED PROGRAMMING WITH C++	On the successful completion of the course, student will be able to:				
		1	Outline The Essential Features And Elements Of The C++ programming language.	K1 &K2		
		2	Understand Concepts Of Inheritance and polymorphism.	K2		
		3	Understand the difference between function over loading and function Overriding	K2 &K3		
		4	Analyze, write, debug and test basic C++ codes using the approaches introduced in the course.	K3 &K4		
		5	Incorporate Exception Handling In Object-oriented programs.	K5 &K6		
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create				

9.	COMPUTER APPLICATIONS PRACTICALS-II: TALLY & C++	On the successful completion of the course, student will be able to:		
		1	Creation of vouchers, ledgers and Trial Balance in tally	K3
		2	To prepare final accounts of companies/ ratios & stock summary	K3
		3	To know the calculation of GST using tally.	K3
		4	Preparation of cash flow, fund flow, final accounts and ratio to analyse the financial position	K3
		5	Applying C++ concepts as to create software for various calculations in connection with finance, costing and stock level	
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
SEMESTER III				
10	COST AND MANAGEMENT ACCOUNTING	On the successful completion of the course, student will be able to:		
		1	Recall The Components Of cost	K1
		2	Classify And Compare The Methods Of cost	K2
		3	Construct Different Types of budget	K3
		4	Apply Different cost variances and solve the adverse situations	K3 & K6
		5	Analyze The Financial statements of a company	K4
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		

11 .	VISUAL BASIC	On the successful completion of the course, student will be able to:		
		1	Recall Various Form Of Visuals	K1
		2	Understand Different Types Of intrinsic controls	K2
		3	Expert Knowledge about visual variable and procedure.	K3 &K 4
		4	Analyze The Method of database working.	K3 &K 4
		5	Evaluate Different Types Of Data report	K5 &K 6
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
12 .	FINANCIAL MANAGEMENT	On the successful completion of the course, student will be able to:		
		1	Recollect the concept and importance of financial management.	K1
		2	Have thorough knowledge about various sources of long-term and short-term finance.	K2
		3	Examine various method and technique for calculating cost of capital.	K3
		4	Examine different type leverage technique followed by a organization.	K4 &K 5
		5	Expert knowledge about various dividend policies.	K5 &K 6

		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create			
<b>13</b> •	COMPUTER APPLICATONS PRACTICAL III–VB	On the successful completion of the course, student will be able to:			
		1	Prepare various financial and operating calculations with the tools available in VB.	K1	
		2	Work with various connection of tools to create the back end for the data.	K2	
		3	Work with various operations on data.	K3	
		4	Gain practical experience in preparation of reports using data environment and other connection tools.	K5 & K6	
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create			
SEMESTER IV					
<b>14</b> •	INVESTMENT MANAGEMENT	On the successful completion of the course, student will be able to:			
		1	Recall Various Investment Avenues And Personal finance.	K1	
		2	Understand Securities Markets, regulation and its instruments	K2	

		3	Examine fundamental analysis of an organization using financial data information.	K3 &K 4
		4	Examine technical analysis of an organization using financial data information.	K3 &K 4
		5	Evaluate Risk Return Of Securities indifferent investment proposal.	K5 &K 6
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
<b>15</b>	<b>DIRECT TAXES</b>	On the successful completion of the course, student will be able to:		
		1	Calculate Computation Of taxable income under various sources.	K4 & K5
		2	Recollect The Concept Of Tax Administration And Practices.	K1 &k 2
		3	Acquire The knowledge about the latest provision of income tax act.	K3
		4	Gain expert knowledge regarding the legitimate way of tax planning and management.	K6
		5	Able To pertain procedure for assessment and e-filing.	K3 &k 6
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		
<b>16</b>	<b>JAVA PROGRAMMING</b>	On the successful completion of the course, student will be able to:		
		1	It Help to understand the concept of Java and HTML	K2

	AND HTML	2	Be able to understand the difference between object oriented programming and procedural oriented language	K3
		3	To familiarize the students with language environment and to implement various concepts related to language.	K3
		4	It help the student to understand basic concept about control statements and reads.	K5
		5	Understand how to insert the heading levels within a web page and insert ordered and unordered lists within a web page.	K2
		6		
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		

## ELECTIVES

S. N O	COURSE	COURSE OUTCOME		
<b>1.</b>	<b>SERVICES MARKETING</b>	On The Successful completion of the course, student will be able to:		
		1	Examine the nature of services, and distinguish between products and services	K2
		2	Identify the major elements needed to improve the marketing of services	K4
		3	Develop an understanding of the roles of relationship marketing and customer service in adding value to the customer's perception of a service	K4
		4	Examining the key marketing services and market segmentation	K4
		5	Evaluating service quality, measurement, causes and problems, principles guiding improving of quality	K5
		<b>K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create</b>		
		<b>2.</b>	<b>MARKETING OF FINANCIAL SERVICES</b>	On The Successful completion of the course, student will be able to
1	Understand marketing the of financial Services			K2 &K 6
2	Appreciate how recent thinking in marketing and services marketing Applies to financial services			K3
3	Identify key issues for marketers of financial services			K4
4	Interpretation of various reforms and types of insurance services			K2



			Related to life insurance		
		5	Discussing about the concepts based on real estate industry and their investment pattern in markets, securitization mechanism's merits in India.	K6	
		K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6-Create			
3.	<b>MARKETING OF HEALTH SERVICES</b>	On the successful completion of the course, student will be able to:			
		1	Understand and critically and effectively apply a number of tools available to marketing managers in health care sector	K2	
		2	Appreciate and exercise critical judgment in implementing the marketing strategies in the health care sector	K5	
		3	Analyse real-life situations and provide solutions to challenges	K6	
		4	Assessing various online critical judgment in implementing the marketing strategies in the health care sector	K5	
		5	Adapting various legal systems related to consumer rights & protection, Promotion agencies and food nutrition's in India	K6	
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create			
4.	<b>TRAVEL AND HOSPITALITY SERVICES</b>	On the successful completion of the course, student will be able to:			

		1	Apply relevant technology for the production and management of Travel and hospitality experiences.	K1
		2	Plan, lead, organize and control resources for effective and efficient Travel and hospitality operations.	K2
		3	Create, apply, and evaluate marketing strategies for travel and Hospitality destinations and organizations.	K3
		4	Discussing about various hospitality services and its classification of Hotels by price level.	K6
		5	Examining the various behavioural profile of users and related to hotel Marketing in Indian perspective.	K4
		K1 - Remember; K2 - Understand; K3 -Apply; K4 -Analyze; K5 - Evaluate; K6 – Create		

## DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

### BCA

<b>Program Specific Outcomes (PSOs)</b>	
After the successful completion of BCA program, the students are expected to	
<b>PSO 1</b>	Develop proficiency in problem solving and logical thinking skill.
<b>PSO 2</b>	To impart the knowledge of programming languages, web designing, networking and Software development cycle.
<b>PSO 3</b>	Enrich the communicative ability to present orally throughout all the stages of Software development process
<b>PSO 4</b>	Learn latest development and technologies in IT and Communications system.
<b>PSO 5</b>	Implementation of professional engineering solutions for the betterment of society keeping the environmental context in mind, be aware of professional ethics and be able to communicate effectively.

<b>Program Outcomes (POs)</b>	
On successful completion of the BCA program	
PO1	<b>Disciplinary knowledge:</b> Capable to apply the knowledge of mathematics, algorithmic principles and computing fundamentals in the modeling and design of computer based systems of varying complexity.
PO2	<b>Scientific reasoning/ Problem analysis:</b> Ability to critically analyze, categorizes, formulate and solve the problems that emerges in the field of computer science.
PO3	<b>Problem solving:</b> Able to provide software solutions for complex scientific and business related problems or processes that meet the specified needs with appropriate consideration for the public health and safety and the cultural, societal and environmental considerations.
PO4	<b>Environment and sustainability:</b> Understand the impact of software solutions in environmental and societal context and strive for sustainable development.
PO5	<b>Modern tool usage:</b> Use contemporary techniques, skills and tools necessary for integrated solutions.
PO6	<b>Ethics:</b> Function effectively with social, cultural and ethical responsibility as an individual or as a team member with positive attitude.
PO7	<b>Cooperation / Team Work:</b> Function effectively as member or leader on multidisciplinary teams to accomplish a common objective.
PO8	<b>Communication Skills:</b> An ability to communicate effectively with diverse types of audience and also able to prepare and present technical documents to different groups.
PO9	<b>Self-directed and Life-long Learning:</b> Graduates will recognize the need for self-motivation to engage in lifelong learning to be in par with changing technology.
PO10	Enhance the research culture and uphold the scientific integrity and objectivity

## M.SC COMPUTER APPLICATIONS

<b>Program Specific Outcomes (PSOs)</b>	
After the successful completion of <b>M.Sc. CS</b> program, the students are expected to	
PSO1	Able to analyze, design and develop problem solving skills in the discipline of computer science.
PSO2	Acquire evaluation of potential benefits of alternative solution in designing software and/or hardware systems in broad range of open source programming languages to withstand technological changes.
PSO3	Able to pursue careers in IT industry/ consultancy/ research and development, teaching and allied areas related to computer science.
PSO4	Adapt to the continuous technological change in computational science and update themselves to meet the industry requirements and standards.
PSO5	Apply the practices and strategies of computer science for software project development to deliver a quality software product and contribute to research in the chosen field and perform effectively.

<b>Program Outcomes (POs)</b>	
On successful completion of the <b>M.Sc. CS</b> program	
PO1	Develop creativity and problem solving skills with the knowledge of computing and mathematics.
PO2	Ability to develop and carry out experiments, interpret and infer data.
PO3	Design algorithms and develop software to aid solutions to industry and governments.
PO4	Review the latest technology and tool handling mechanism.
PO5	Analyze the outcome to solve global environment related issues.
PO6	Apply the knowledge in lifelong learning journey to equip themselves.
PO7	Identify the perspective of business practices, risks and limitations.
PO8	Work with professional and ethical values.
PO9	Formulate the responsibilities of human rights and entrepreneurial spirit.
PO10	Understand the methods to communicate effectively and work collectively.

## DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

**Course Name:** Bachelor of Computer Applications

**Course Code:** 3SC

**Year:** 2021-2022

S.NO	COURSE	COURSE OUTCOME	
<b>Semester I</b>			
1.	Core 1: Computing Fundamentals and C Programming	On the successful completion of the course, student will be able to:	
		1	Learn about the Computer fundamentals and the Problem solving <b>K2</b>
		2	Understand the basic concepts of C programming <b>K2</b>
		3	Describe the reason why different decision making and loop constructs are available for iteration in C <b>K3</b>
		4	Demonstrate the concept of User defined functions , Recursions , Scope and Lifetime of Variables, Structures and Unions <b>K4</b>
		5	Develop C programs using pointers Arrays and file management <b>K3</b>
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>	
2.	Core 2: Digital Fundamentals and Computer Architecture	On the successful completion of the course, student will be able to:	
		1	Learn the basic structure of number system methods like binary, octal and hexadecimal and understand the arithmetic and logical operations are performed by computers. <b>K3</b>
		2	Define the functions to simplify the Boolean equations using logic gates. <b>K1</b>
		3	Understand various data transfer techniques in digital computer and control unit operations. <b>K2</b>
		4	Compare the functions of the memory organization <b>K4</b>
		5	Analyze architectures and computational designs concepts related to architecture organization and addressing modes <b>K4</b>
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>	
3.	Core Lab 1: Programming Lab - C	On the successful completion of the course, student will be able to:	
		1	Remember and Understand the logic for a given problem and to generate Prime numbers & Fibonacci Series <b>(Program-1,2,3)</b> <b>K1, K2</b>
		2	Apply the concepts to print the Magic square, Sorting the data , Strings, Recursive functions and Pointers <b>(Program-4,5,6,8,10)</b> <b>K2, K3</b>
		3	Remember the logic used in counting the vowels in a sentence <b>(Program-7)</b> <b>K1</b>
		4	Apply and Analyze the concepts of Structures and File management <b>(Program-9,11,12)</b> <b>K3&amp;K4</b>

		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>
4.	Allied 1: Mathematical Structures for Computer Science	On the successful completion of the course, student will be able to:
		1   Remember the concepts of Matrices, Finding the solutions   K1
		2   Understand the concept of Linear algebraic equations and solutions applicable in the field of science and technology   K2
		3   Apply the techniques for the enormous field of applications in science and engineering   K3
		4   Analyze the equations and rule's applied by using appropriate techniques   K4
		5   Evaluate the numerical solutions with various statistical techniques and correlate with the relationship of various methods   K1-K5
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Crea</b>
<b>Semester II</b>		
5.	Core 3: C++ Programming	On the successful completion of the course, student will be able to:
		1   Define the different programming paradigm such as procedure oriented and object oriented programming methodology and conceptualize elements of OO methodology   K1
		2   Illustrate and model real world objects and map it into programming objects for a legacy system.   K2
		3   Identify the concepts of inheritance and its types and develop applications using overloading features.   K3
		4   Discover the usage of pointers with classes   K4
		5   Explain the usage of Files, templates and understand the importance of exception Handling   K5
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>
6.	Core Lab 2: Programming Lab - C++	On the successful completion of the course, student will be able to:
		1   Define the different programming paradigm such as procedure oriented and object oriented programming methodology and conceptualize elements of OO methodology   K1
		2   Illustrate and model real world objects and map it into programming objects for a legacy system.   K2
		3   Identify the concepts of inheritance and its types and develop applications using overloading features.   K3
		4   Discover the usage of pointers with classes   K4
		5   Explain the usage of Files, templates and understand the importance of exception Handling   K5
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>
7.	Core Lab 3: Internet Basics	On the successful completion of the course, student will be able to:
		1   Understand the fundamentals of Internet and the Web concepts   K2
		2   Explain the usage of internet concepts and analyze its components.   K2

		3	Identify and apply the online information resources	K3
		4	Inspect and utilize the appropriate Google Apps for education effectively	K3,K4
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		
8.	Allied 2: Discrete Mathematics	On the successful completion of the course, student will be able to:		
		1	Assimilate various graph theoretic concepts and familiarize with their applications.	K1
		2	Understand the concept of mathematical Logic , basic logical operations, Predicate calculus	K2
		3	Apply the partial order relations ,set order of relations, composite functions	K3
		4	Analyze the operations on Languages and types of grammar, regular expressions , finite state automata and finite state machine	K4
		5	Demonstrate skill to construct graph and different types of tree Algorithms.	K1-K5
		<b>K1</b> – Remember; <b>K2</b> – Understand; <b>K3</b> – Apply; <b>K4</b> – Analyze; <b>K5</b> – Evaluate; <b>K6</b> – Create		
<b>Semester III</b>				
9.	Core 4: Data Structures	On the successful completion of the course, student will be able to:		
		1	Understand the basic concepts of data structures and algorithms	K1-K2
		2	Construct and analyze of stack and queue operations with illustrations	K2-K4
		3	Enhance the knowledge of Linked List and dynamic storage management.	K2-K3
		4	Demonstrate the concept of trees and its applications	K2-K3
		5	Design and implement various sorting and searching algorithms for applications and understand the concept of file organizations	K1-K4
		<b>K1</b> – Remember; <b>K2</b> – Understand; <b>K3</b> – Apply; <b>K4</b> – Analyze; <b>K5</b> – Evaluate; <b>K6</b> – Create		
10.	Core 5: Java Programming	On the successful completion of the course, student will be able to:		
		1	The competence and the development of small to medium sized application programs that demonstrate professionally acceptable coding	K1-K2
		2	Demonstrate the concept of object oriented programming through Java	K2-K4
		3	Apply the concept of Inheritance, Modularity, Concurrency, Exceptions handling and data persistence to develop java program	K3
		4	Develop java programs for applets and graphics programming	K3
		5	Understand the fundamental concepts of AWT controls, layouts and events	K1-K2

		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>															
11.	Core Lab 4: Programming Lab - Java	<p>On the successful completion of the course, student will be able to:</p> <table border="1"> <tr> <td>1</td> <td>Understand the basic concepts of Java Programming with emphasis on ethics and principles of professional coding</td> <td>K1, K2</td> </tr> <tr> <td>2</td> <td>Demonstrate the creation of objects, classes and methods and the concepts of constructor, methods overloading, Arrays, branching and looping</td> <td>K2</td> </tr> <tr> <td>3</td> <td>Create data files and Design a page using AWT controls and Mouse Events in Java programming Implement the concepts of code reusability and debugging.</td> <td>K2, K3</td> </tr> <tr> <td>4</td> <td>Develop applications using Strings, Interfaces and Packages and applets</td> <td>K3</td> </tr> <tr> <td>5</td> <td>Construct Java programs using Multithreaded Programming and Exception Handling</td> <td>K3</td> </tr> </table> <p><b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b></p>	1	Understand the basic concepts of Java Programming with emphasis on ethics and principles of professional coding	K1, K2	2	Demonstrate the creation of objects, classes and methods and the concepts of constructor, methods overloading, Arrays, branching and looping	K2	3	Create data files and Design a page using AWT controls and Mouse Events in Java programming Implement the concepts of code reusability and debugging.	K2, K3	4	Develop applications using Strings, Interfaces and Packages and applets	K3	5	Construct Java programs using Multithreaded Programming and Exception Handling	K3
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12.	Allied 3: Computer Based Optimization Techniques	<p>On the successful completion of the course, student will be able to:</p> <table border="1"> <tr> <td>1</td> <td>Remember the basic concepts and application of operations research in various fields.</td> <td>K1</td> </tr> <tr> <td>2</td> <td>Understand the principles of construction of mathematical models of conflicting situations using the Linear Programming, Build and solve transportation problems.</td> <td>K2</td> </tr> <tr> <td>3</td> <td>Apply game theory concepts to articulate real-world situations by identifying, analyzing and practicing strategic decisions.</td> <td>K3</td> </tr> <tr> <td>4</td> <td>Analyze and extend the queueing models in real world systems.</td> <td>K4</td> </tr> <tr> <td>5</td> <td>Apply concepts in optimal scheduling using PERT and CPM</td> <td>K1-K5</td> </tr> </table> <p><b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b></p>	1	Remember the basic concepts and application of operations research in various fields.	K1	2	Understand the principles of construction of mathematical models of conflicting situations using the Linear Programming, Build and solve transportation problems.	K2	3	Apply game theory concepts to articulate real-world situations by identifying, analyzing and practicing strategic decisions.	K3	4	Analyze and extend the queueing models in real world systems.	K4	5	Apply concepts in optimal scheduling using PERT and CPM	K1-K5
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13.	Skill based Subject 1: Web Programming	<p>On the successful completion of the course, student will be able to:</p> <table border="1"> <tr> <td>1</td> <td>Understand the basic concepts of Internet, WWW, browsers and Email and protocols.</td> <td>K1</td> </tr> <tr> <td>2</td> <td>Understand and apply the HTML, HTML elements and formatting styles</td> <td>K1-K3</td> </tr> <tr> <td>3</td> <td>Knowledge on creating tables, forms and DHTML</td> <td>K3</td> </tr> <tr> <td>4</td> <td>Understand the structure of XML document, DTD and Schema</td> <td>K1-K3</td> </tr> <tr> <td>5</td> <td>Knowledge on working with SML, Style sheets and XSL</td> <td>K1-K4</td> </tr> </table> <p><b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b></p>	1	Understand the basic concepts of Internet, WWW, browsers and Email and protocols.	K1	2	Understand and apply the HTML, HTML elements and formatting styles	K1-K3	3	Knowledge on creating tables, forms and DHTML	K3	4	Understand the structure of XML document, DTD and Schema	K1-K3	5	Knowledge on working with SML, Style sheets and XSL	K1-K4
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<b>Semester IV</b>																	
14.	Core 6: System Software and	On the successful completion of the course, student will be able to:															



	Operating System	1	Know the program generation and program execution activities in detail	K1
		2	Understand the concepts of Macro Expansions and Gain the knowledge of Editing processes	K2-K3
		3	Remember the basic concepts of operating system	K1
		4	Understand the concepts like interrupts, deadlock , memory management and file management	K2
		5	Analyze the need for scheduling algorithms and implement different algorithms used for representation, scheduling, and allocation in DOS and UNIX operating system.	K1-K4
		<b>K1</b> – Remember; <b>K2</b> – Understand; <b>K3</b> – Apply; <b>K4</b> – Analyze; <b>K5</b> – Evaluate; <b>K6</b> – Create		
15.	Core 7: Linux and Shell Programming	On the successful completion of the course, student will be able to:		
		1	Describe the architecture and features of Linux Operating System and distinguish it from other Operating System.	K1
		2	Develop Linux utilities to perform File processing, Directory handling, User Management and display system configuration	K2-K3
		3	Develop shell scripts using pipes, redirection, filters and Pipes	K2
		4	Apply and change the ownership and file permissions using advance Unix commands.	K3
		5	Build Regular expression to perform pattern matching using utilities and implement shell scripts for real time applications.	K3-K6
		<b>K1</b> – Remember; <b>K2</b> – Understand; <b>K3</b> – Apply; <b>K4</b> – Analyze; <b>K5</b> – Evaluate; <b>K6</b> – Create		
16.	Core Lab 5: Linux and Shell Programming Lab	On the successful completion of the course, student will be able to:		
		1	Develop Linux utilities to perform File processing, Directory handling and User Management	<b>K1, K2</b>
		2	Understand and develop shell scripts using pipes, redirection, filters, Pipes and display system configuration	<b>K2-K3</b>
		3	Develop simple shell scripts applicable to file access permission network Administration	<b>K3</b>
		4	Apply and change the ownership and file permissions using advance Unix commands.	K4-K5
		5	Create shell scripts for real time applications.	<b>K6</b>
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17.	Allied 4: Business Accounting	On the successful completion of the course, student will be able to:		
		1	Recalling Accounting Concepts and Conventions and use Accounting rules to record business transactions in the form of Journal, Ledger and preparation of Trial Balance.	K1
		2	Understand the concept and to prepare trading, profit and loss account and balance sheet	K2,K3
		3	To prepare cost sheet and analyze the cost effectiveness	K3,K4
		4	To prepare different budgets required for the concern	K6

		<b>K1</b> – Remember; <b>K2</b> – Understand; <b>K3</b> – Apply; <b>K4</b> – Analyze; <b>K5</b> – Evaluate; <b>K6</b> – Create															
18.	Skill based Subject 2 Lab: Web Programming – Lab	<p>On the successful completion of the course, student will be able to:</p> <table border="1"> <tr> <td>1</td> <td>Understand the problems and create applications in basics of web programming</td> <td><b>K2-K4, K6</b></td> </tr> <tr> <td>2</td> <td>Understand and develop Web pages with formatting styles.</td> <td><b>K2-K3</b></td> </tr> <tr> <td>3</td> <td>Apply the features in HTML to present the details given</td> <td><b>K3</b></td> </tr> <tr> <td>4</td> <td>Analyze the problem, apply the concept for developing applications</td> <td><b>K4-K5</b></td> </tr> <tr> <td>5</td> <td>Create web sites of real time applications</td> <td><b>K6</b></td> </tr> </table> <p><b>K1</b> – Remember; <b>K2</b> – Understand; <b>K3</b> – Apply; <b>K4</b> – Analyze; <b>K5</b> – Evaluate; <b>K6</b> – Create</p>	1	Understand the problems and create applications in basics of web programming	<b>K2-K4, K6</b>	2	Understand and develop Web pages with formatting styles.	<b>K2-K3</b>	3	Apply the features in HTML to present the details given	<b>K3</b>	4	Analyze the problem, apply the concept for developing applications	<b>K4-K5</b>	5	Create web sites of real time applications	<b>K6</b>
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<b>Semester V</b>																	
19.	Core 8: RDBMS & Oracle	<p>On the successful completion of the course, student will be able to:</p> <table border="1"> <tr> <td>1</td> <td>Understand the basic concepts of Relational Data Model, Entity- Relationship Model and process of Normalization</td> <td><b>K1-K2</b></td> </tr> <tr> <td>2</td> <td>Understand and construct database using Structured Query Language (SQL) in Oracle9i environment.</td> <td><b>K1-K3</b></td> </tr> <tr> <td>3</td> <td>Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedures and Functions.</td> <td><b>K1-K4</b></td> </tr> <tr> <td>4</td> <td>Understand and use built-in functions and enhance the knowledge of handling multiple tables</td> <td><b>K1-K3</b></td> </tr> <tr> <td>5</td> <td>Attain a good practical skill of managing and retrieving of data using Data Manipulation Language (DML)</td> <td><b>K2-K4</b></td> </tr> </table> <p><b>K1</b> – Remember; <b>K2</b> – Understand; <b>K3</b> – Apply; <b>K4</b> – Analyze; <b>K5</b> – Evaluate; <b>K6</b> – Create</p>	1	Understand the basic concepts of Relational Data Model, Entity- Relationship Model and process of Normalization	<b>K1-K2</b>	2	Understand and construct database using Structured Query Language (SQL) in Oracle9i environment.	<b>K1-K3</b>	3	Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedures and Functions.	<b>K1-K4</b>	4	Understand and use built-in functions and enhance the knowledge of handling multiple tables	<b>K1-K3</b>	5	Attain a good practical skill of managing and retrieving of data using Data Manipulation Language (DML)	<b>K2-K4</b>
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20.	Core 9: Visual Basic	<p>On the successful completion of the course, student will be able to:</p> <table border="1"> <tr> <td>1</td> <td>Demonstrate fundamental skills in utilizing the tools of a visual environment such as command, menus and toolbars.</td> <td><b>K1</b></td> </tr> <tr> <td>2</td> <td>Implement SDI and MDI applications using forms, dialogs and other types of GUI components.</td> <td><b>K2</b></td> </tr> <tr> <td>3</td> <td>Understand the connectivity between VB with MS-ACCESS database.</td> <td><b>K3</b></td> </tr> <tr> <td>4</td> <td>Implement the methods and techniques to develop projects.</td> <td><b>K4</b></td> </tr> <tr> <td>5</td> <td>Attain a good practical skill of managing ODBC and Data Access Objects</td> <td><b>K2-K4</b></td> </tr> </table> <p><b>K1</b> – Remember; <b>K2</b> – Understand; <b>K3</b> – Apply; <b>K4</b> – Analyze; <b>K5</b> – Evaluate; <b>K6</b> – Create</p>	1	Demonstrate fundamental skills in utilizing the tools of a visual environment such as command, menus and toolbars.	<b>K1</b>	2	Implement SDI and MDI applications using forms, dialogs and other types of GUI components.	<b>K2</b>	3	Understand the connectivity between VB with MS-ACCESS database.	<b>K3</b>	4	Implement the methods and techniques to develop projects.	<b>K4</b>	5	Attain a good practical skill of managing ODBC and Data Access Objects	<b>K2-K4</b>
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21.	Core Lab 6: Programming Lab – VB & Oracle	<p>On the successful completion of the course, student will be able to:</p> <table border="1"> <tr> <td>1</td> <td>Understand the concepts of Visual Basic.</td> <td><b>K1</b></td> </tr> <tr> <td>2</td> <td>Learn the advantages of Controls in VB</td> <td><b>K2</b></td> </tr> <tr> <td>3</td> <td>Design and develop the event- driven applications using Visual Basic framework.</td> <td><b>K3</b></td> </tr> <tr> <td>4</td> <td>Apply the knowledge of database methods.</td> <td><b>K4</b></td> </tr> </table>	1	Understand the concepts of Visual Basic.	<b>K1</b>	2	Learn the advantages of Controls in VB	<b>K2</b>	3	Design and develop the event- driven applications using Visual Basic framework.	<b>K3</b>	4	Apply the knowledge of database methods.	<b>K4</b>			
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4	Apply the knowledge of database methods.	<b>K4</b>															

		5	Learn basics of PL/SQL and develop programs using Cursors, Exceptions, Procedures and Functions	<b>K6</b>
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
22.	Elective – I: PHP & Scripting Language	On the successful completion of the course, student will be able to:		
		1	Understand the basics of .VB script and Java script	<b>K1</b>
		2	Understand the I/O handling, data validation, Activex control and validation	<b>K2</b>
		3	Understand and remember the java script objects, form validations, cookies and plugins	<b>K2</b>
		4	Understand the sever side scripting language basics	<b>K3</b>
		5	Knowledge on PHP objects, cookies, connecting remote files, and database connections	<b>K2- K4</b>
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
23.	Skill based Subject 3: CASE Tools Concepts and Applications	On the successful completion of the course, student will be able to:		
		1	Understand the basic concepts of software engineering	<b>K1</b>
		2	Apply the software engineering models in developing software applications	<b>K2- K3</b>
		3	Implement the object oriented design in various projects	<b>K4</b>
		4	Knowledge on how to do a software project with in-depth analysis.	<b>K3</b>
		5	To inculcate knowledge on Software engineering concepts in turn gives a roadmap to design a new software project.	<b>K1- K4</b>
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
<b>Semester VI</b>				
24.	Core 10: Graphics & Multimedia	On the successful completion of the course, student will be able to:		
		1	Explain applications, principles, commonly used and techniques of computer graphics and algorithms for Line-Drawing, Circle- Generating and Ellipse-Generating.	<b>K2</b>
		2	Students will get the concepts of 2D and 3D, Viewing, Curves and surfaces, Hidden Line/surface elimination techniques	<b>K3</b>
		3	Studies concepts of Multimedia Systems, Text, Audio and Video tools	<b>K3</b>
		4	Compressing audio and video using MPEG-1 and MPEG-2	<b>K4</b>
		5	Creates Animation with special effects using algorithms	<b>K6</b>
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
25.	Core 11: Project Work Lab %%	On the successful completion of the course, student will be able to:		
		1	Formulate a real world problem and develop its requirements develop a design solution for a set of requirements.	<b>K3</b>
		2	Test and validate the conformance of the developed prototype against the original requirements of the problem.	<b>K5</b>

		3	Work as a responsible member and possibly a leader of a team in developing software solutions.	<b>K3</b>
		4	Express technical ideas, strategies and methodologies in written form. Self-learn new tools, algorithms and techniques that contribute to the software solution of the project.	<b>K1- K4</b>
		5	Generate alternative solutions, compare them and select the optimum one.	<b>K6</b>
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
26.	Core 7: Programming Lab – Graphics & Multimedia	On the successful completion of the course, student will be able to:		
		1	Understand the basic concepts of computer graphics.	<b>K1</b>
		2	Design scan conversion problems using C and C++ programming.	<b>K2</b>
		3	Apply clipping and filling techniques for modifying an object.	<b>K3</b>
		4	Understand the concepts of different type of geometric transformation of objects in 2D.	<b>K4</b>
		5	Understand and develop the practical implementation of modeling, rendering, viewing of objects in 2D	<b>K6</b>
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
27.	Elective – II: Computer Networks	On the successful completion of the course, student will be able to:		
		1	Remember the organization of computer networks, factors influencing computer network development and the reasons for having variety of different types of networks.	<b>K1</b>
		2	Understand Internet structure and can see how standard problems are solved and the use of cryptography and network security.	<b>K2</b>
		3	Apply knowledge of different techniques of error detection and correction to detect and solve error bit during data transmission.	<b>K3</b>
		4	Analyze the requirements for a given organizational structure and select the most appropriate networking architecture and technologies	<b>K4</b>
		5	Knowledge about different computer networks, reference models and the functions of each layer in the models	<b>K2- K4</b>
		<b>K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create</b>		
28.	Elective – III: Web Services	On the successful completion of the course, student will be able to:		
		1	Understand about the distributed computing, web services, technologies and applications, XML document (WSDL) and the concepts of XML, protocol (SOAP), locating the remote web services	<b>K1</b>
		2	Understand the concepts of UDDI and its specifications, Understand the concepts of system interface and its workflow, the common attacks.	<b>K2</b>

		3	Examining the concepts of architecture of system to meet the user requirements and analyse the concepts of mobile and wireless services, Design and develop the real-world enterprise applications using web services.	<b>K3</b>
		4	Analysing the steps necessary to build and deploy the web services.	<b>K4</b>
		5	Applying the applications created based on the web services on different web servers.	<b>K4-K6</b>
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
29.	Skill Based Subject 4 : CASE Tools Lab	On the successful completion of the course, student will be able to:		
		1	Prepare the CASE tools for the given specification.	<b>K1, K2</b>
		2	Understand and develop the UML diagram for real time applications.	<b>K2-K3</b>
		3	Design the real time test cases	<b>K3</b>
		4	Analyze the development of CASE tools	<b>K4-K5</b>
		5	Design the CASE tools and generate VB code	<b>K6</b>
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>		

## DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

**Course Name:** M.Sc Computer Science

**Course Code:** 4SC

**Year:** 2021-2022

S.NO	COURSE	COURSE OUTCOME		
<b>Semester I</b>				
1.	Paper I : Analysis & Design of Algorithms	On the successful completion of the course, student will be able to:		
		1	Get knowledge about algorithms and determines their time complexity. Demonstrate specific search and sort algorithms using divide and conquer technique.	K1,K2
		2	Gain good understanding of Greedy method and its algorithm.	K2,K3
		3	Able to describe about graphs using dynamic programming technique.	K3,K4
		4	Demonstrate the concept of backtracking & branch and bound technique.	K5,K6
		5	Explore the traversal and searching technique and apply it for trees and graphs.	K6
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
2.	Paper II : Object Oriented Analysis and Design & C++	On the successful completion of the course, student will be able to:		
		1	Understand the concept of Object-Oriented development and modeling techniques	K1,K2
		2	Gain knowledge about the various steps performed during object design	K2,K3
		3	Abstract object-based views for generic software systems	K3
		4	Link OOAD with C++ language	K4,K5
		5	Apply the basic concept of OOPs and familiarize to write C++ program	K5,K6
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
3.	Paper III : Python Programming	On the successful completion of the course, student will be able to:		
		1	Understand the basic concepts of Python Programming	K1,K2
		2	Understand File operations, Classes and Objects	K2,K3
		3	Acquire Object Oriented Skills in Python	K3,K4
		4	Develop web applications using Python	K5
		5	Develop Client Server Networking applications	K5,K6
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
4.	Paper IV : Advanced Software Engineering	On the successful completion of the course, student will be able to:		
		1	Understand about Software Engineering process	K1,K2
		2	Understand about Software project management skills, design and quality management	K2,K3
		3	Analyze on Software Requirements and Specification	K3,K4

		4	Analyze on Software Testing, Maintenance and Software Re-Engineering	K4,K5
		5	Design and conduct various types and levels of software quality for a software project	K5,K6
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		
5.	Practical I : Algorithm and OOPS Lab	On the successful completion of the course, student will be able to:		
		1	Understand the concepts of object oriented with respect to C++	K1,K2
		2	Able to understand and implement OOPS concepts	K3,K4
		3	Implementation of data structures like Stack, Queue, Tree , List using C++	K4,K5
		4	Application of the data structures for Sorting, Searching using different techniques.	K5,K6
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		
6.	Practical II : Python Programming Lab	On the successful completion of the course, student will be able to:		
		1	Able to write programs in Python using OOPS concepts	K1,K2
		2	To understand the concepts of File operations and Modules in Python	K2,K3
		3	Implementation of lists, dictionaries, sets and tuples as programs	K3,K4
		4	To develop web applications using Python	K5,K6
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		
<b>Semester II</b>				
7.	Paper V : Data Mining and Warehousing	On the successful completion of the course, student will be able to:		
		1	Understand the basic data mining techniques and algorithms	K1,K2
		2	Understand the Association rules, Clustering techniques and Data warehousing contents	K2,K3
		3	Compare and evaluate different data mining techniques like classification, prediction, Clustering and association rule mining	K4,K5
		4	Design data warehouse with dimensional modeling and apply OLAP operations	K5,K6
		5	Identify appropriate data mining algorithms to solve real world problems	K6
		<b>K1</b> - Remember; <b>K2</b> - Understand; <b>K3</b> - Apply; <b>K4</b> - Analyze; <b>K5</b> - Evaluate; <b>K6</b> - Create		
8.	Paper VI: Advanced Operating Systems	On the successful completion of the course, student will be able to:		
		1	Understand the design issues associated with operating systems	K1,K2
		2	Master various process management concepts including scheduling, deadlocks and distributed file systems	K3,K4
		3	Prepare Real Time Task Scheduling	K4,K5
		4	Analyze Operating Systems for Handheld Systems	K5
		5	Analyze Operating Systems like LINUX and iOS	K5,K6

		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
9.	Paper VII: Advanced Java Programming	On the successful completion of the course, student will be able to:		
		1	Understand the advanced concepts of Java Programming	K1,K2
		2	Understand JDBC and RMI concepts	K2,K3
		3	Apply and analyze Java in Database	K3,K4
		4	Handle different event in java using the delegation event model, event listener and class	K5
		5	Design interactive applications using Java Servlet, JSP and JDBC	K5,K6
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
10.	Paper VIII : Artificial Intelligence & Machine Learning	On the successful completion of the course, student will be able to:		
		1	Demonstrate AI problems and techniques	K1,K2
		2	Understand machine learning concepts	K2,K3
		3	Apply basic principles of AI in solutions that require problem solving, inference, perception, knowledge representation, and learning	K3,K4
		4	Analyze the impact of machine learning on applications	K4,K5
		5	Analyze and design a real world problem for implementation and understand the dynamic behavior of a system	K5,K6
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
11.	Elective – I: Internet of Things	On the successful completion of the course, student will be able to:		
		1	Understand about IoT, its Architecture and its Applications	K1,K2
		2	Understand basic electronics used in IoT & its role	K2,K3
		3	Develop applications with C using Arduino IDE	K4
		4	Analyze about sensors and actuators	K5,K6
		5	Design IoT in real time applications using today's internet & wireless technologies	K6
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
12.	Practical III: Data Mining Lab using R	On the successful completion of the course, student will be able to:		
		1	Able to write programs using R for Association rules, Clustering techniques	K1,K2
		2	To implement data mining techniques like classification, prediction	K2,K3
		3	Able to use different visualizations techniques using R	K4,K5
		4	To apply different data mining algorithms to solve real world applications	K5,K6
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
		13.	Practical IV: Advanced Java Programming Lab	On the successful completion of the course, student will be able to:
1	Understand to the implement concepts of Java using HTML forms, JSP & JAR			K1,K2
2	Must be capable of implementing JDBC and RMI concepts			K3,K4
3	Able to write Applets with Event handling mechanism			K4,K5



		4	To Create interactive web based applications using servlets and jsp	K5,K6
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>				
<b>Semester III</b>				
14.	Paper IX : Digital Image Processing	On the successful completion of the course, student will be able to:		
		1	Understand the fundamentals of Digital Image Processing	K1,K2
		2	Understand the mathematical foundations for digital image representation, image acquisition, image transformation, and image enhancement	K2,K3
		3	Apply, Design and Implement and get solutions for digital image processing problems	K3,K4
		4	Apply the concepts of filtering and segmentation for digital image retrieval	K4,K5
		5	Explore the concepts of Multi-resolution process and recognize the objects in an efficient manner	K5,K6
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>				
15.	Paper X: Cloud Computing	On the successful completion of the course, student will be able to:		
		1	Understand the concepts of Cloud and its services	K1,K2
		2	Collaborate Cloud for Event & Project Management	K3,K4
		3	Analyze on cloud in – Word Processing, Spread Sheets, Mail, Calendar, Database	K4,K5
		4	Analyze cloud in social networks	K5,K6
		5	Explore cloud storage and sharing	K6
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Creat</b>				
16.	Paper XI: Network Security and Cryptography	On the successful completion of the course, student will be able to:		
		1	Understand the process of the cryptographic algorithms	K1,K2
		2	Compare and apply different encryption and decryption techniques to solve problems related to confidentiality and authentication	K2,K3
		3	Apply and analyze appropriate security techniques to solve network security problem	K3,K4
		4	Exploresuitable cryptographic algorithms	K4,K5
		5	Analyze different digital signature algorithms to achieve authentication and design secure applications	K5,K6
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>				
17.	Paper XII : Data Science & Analytics	On the successful completion of the course, student will be able to:		
		1	Understand the concept of data science and its techniques	K1,K2
		2	Review data analytics	K2,K3
		3	Apply and determine appropriate Data Mining techniques using R to real time applications	K3,K4
		4	Analyze on clustering algorithms	K4,K5
		5	Analyze on regression methods in AI	K6
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>				

18.	Elective – II: Mobile Computing	On the successful completion of the course, student will be able to:		
		1	Understand the need and requirements of mobile communication	K1,K2
		2	Focus on mobile computing applications and techniques	K2,K3
		3	Demonstrate satellite communication in mobile computing	K4
		4	Analyze about wireless local loop architecture	K5,K6
		5	Analyze various mobile communication technologies	K6
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
19.	Practical V: Digital Image Processing Lab using MATLAB	On the successful completion of the course, student will be able to:		
		1	To write programs in MATLAB for image processing using the techniques	K1,K2
		2	To able to implement Image Enhancements & Restoration techniques	K2,K3
		3	Capable of using Compression techniques in an Image	K3,K4
		4	Must be able to manipulate the image and Segment it	K5,K6
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
		20.	Practical VI : Cloud Computing Lab	On the successful completion of the course, student will be able to:
1	Understand the concepts of object oriented with respect to C++			K1,K2
2	Able to understand and implement OOPS concepts			K3,K4
3	Implementation of data structures like Stack, Queue, Tree , List using C++			K4,K5
4	Application of the data structures for Sorting, Searching using different techniques.			K5,K6
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>				
21.	Practical VII : Web Application development & hosting			On the successful completion of the course, student will be able to:
		1	Understand & implement the basic HTML tags to create static web pages	K1,K2
		2	Capable of using hyperlinks, frames , images, tables, ....in a web page	K2,K3
		3	Able to write dynamic web applications using HTML forms	K4,K5
		4	Must be able to write dynamic web applications in PHP & HTML tags using XAMPP.	K5,K6
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
		<b>Semester IV</b>		
22.	Project work and Viva - voce	On the successful completion of the course, student will be able to:		
		1	Formulate real-world problem and its specifications and to create a design solution for a set of specifications.	<b>K3</b>
		2	Test and confirm the developed prototype's adherence to the problem's original requirements.	<b>K5</b>
		3	Work as a member of a team producing software solutions as a responsible member and maybe a leader.	<b>K3</b>

		4	Write down technological concepts, strategies, and procedures. Self-teach new tools, algorithms, and procedures that will help with the project's software solution.	<b>K1- K4</b>
		5	Alternative solutions should be generated, compared, and the best one chosen.	<b>K6</b>
<b>K1</b> – Remember; <b>K2</b> – Understand; <b>K3</b> – Apply; <b>K4</b> – Analyze; <b>K5</b> – Evaluate; <b>K6</b> – Create				

**Providence College for Women (Autonomous),Coonoor**

**Part 1 – Tamil Language**

**For all BA/ B.Sc/B.Com/BCA Courses**

**(For the Students admitted during 2021-2022 onwards- towards Outcome Based Education)**

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**Program Specific Outcomes**

1. To develop the ability to understand and communicate (Read, write, speak and understand).
2. To enable student to be employable in Tamil Domains.

**Program Outcomes**

1. To familiarize the students with the adequate knowledge of Tamil Language, Civilization and culture.
2. To develop the skill of translation.



**PROVIDENCE COLLEGE FOR WOMEN**

**(Autonomous)**

**Re-Accredited by NAAC as 'A' Grade**

**Springfield, Coonoor – 643104, The Nilgiris**

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**PART – 1 HINDI**

**FIRST SEMESTER**

**COURSE OBJECTIVE:**

- Improves grammatical knowledge
- Will continue to read and learn about articles and think about them
- It is possible to read and understand short stories and understand the thoughts and life of the people of this state
- Translation knowledge and the ability to read and analyze a message are also available

**SECOND SEMESTER**

**COURSE OBJECTIVE:**

- A basic understanding of contemporary poetry can be gained and the nature of modern poetry can be realized.
- Realizing the nature of drama and its nature and improving the knowledge of reading and understanding the nature of contemporary plays.
- Understands the benefits of correspondence and can enhance the correspondence you need.
- Translation is especially useful for translating from Hindi to English

**THIRD SEMESTER**

**COURSE OBJECTIVE:**

- May have knowledge of the contents of primitive poetry.
- Learn about contemporary poetry and its techniques.
- Interest in reading poetry and the ability to express social thoughts will improve.
- This will help to understand the basics of Hindi Literature and to understand Hindi Literature properly.
- Knowledge of the elements of poetry and the knowledge of translation will improve.

## **FOURTH SEMESTER**

### **COURSE OBJECTIVE:**

- Knowledge of contemporary drama contents of Hindi literature
- Learn novels and its techniques. The ability to read novels and express criticism about it and the ability to express social thoughts will improve
- There will also be litigation messages in Hindi and news on speech techniques
- Able to write articles on their own and improve their sophisticated translation skills.

**Providence College for Women (Autonomous), Coonoor**

**Part I – French Language**

**For all BA/B.Sc./B.Com/ BCA courses**

**(For the students admitted during 2021-2022 onwards - towards**

**Outcome Based Education and Industry 4.0)**

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**Program Specific Outcomes**

1. To develop the ability to understand and communicate (read, write, speak and understand) in intermediary level of French.
2. To enable student to be employable in French domains

**Program Outcomes**

1. To familiarize the student with the basic knowledge of French language, civilization and culture
2. To demonstrate a marked ability to communicate in the target language – French

**PROVIDENCE COLLEGE FOR WOMEN**  
**DEPARTMENT OF MATHEMATICS**

B.Sc Mathematics 2022-2023

<b>Program Specific Outcomes (PSOs)</b>	
After the successful completion of <b>B. Sc. Mathematics</b> program, the students are expected to	
PSO1	Maintain a core of mathematical and technical knowledge that is adaptable to changing technologies and provide a solid foundation for extended learning.
PSO2	Identify the applications of Mathematics in other disciplines and society.
PSO3	Develop an in-depth knowledge in Mathematics appreciating the connections between theory and its applications.
PSO4	Demonstrate their mathematical modeling ability, problem solving skills, creative talent and power of communication necessary for various kinds of employment.
PSO5	Develop mathematical aptitude and the ability to think abstractly.
PSO6	Learn independently and improve one's performance.
PSO7	Students are equipped to appear competitive examinations.

<b>Program Outcomes (POs)</b>	
On successful completion of the <b>B. Sc. Mathematics</b> program	
PO1	Students are empowered with analytical and logical skills-to formulate results and construct mathematical argument.
PO2	Ability to organize, analyze and interpret data accurately in both academic and non -academic context.
PO3	Demonstrate effective communication of mathematical ideas and creative thinking skills to facilitate solving real world problems as a team and independently.
PO4	Appreciate and identify the connections between Mathematics and other disciplines.
PO5	Competency to obtain employment in education, public and private sectors.
PO6	Identify the area of interest for extended learning from the understanding gained from the domain and allied areas of Mathematics.
PO7	Develop mathematical aptitude and make critical observations.
PO8	Enrich them with innovative ideas to face global challenges.
PO9	Instill a sense of responsibility in tackling professional and social issues ethically.
PO10	Trigger their passion for research in unexplored areas of Mathematics.



**B.Sc MATHEMATICS - Course outcome - 2021-2022**

S.No	Course	Course Outcome			
1	Core 1 : CLASSICAL ALGEBRA	Semester I			
		On the successful completion of the course, student will be able to:			
		CO1	Know the concept of Binomial, Exponential, Logarithmic application to summation of series.	K1	
		CO2	Acquire a clear knowledge regarding methods to find an	K2	
		CO3	Apply the appropriate tests to find the convergence or	K3	
		CO4	Apply Descartes's rule of signs to find the number of	K3	
		CO5	Analyze the relation between roots and coefficients of the	K4	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>					
2	Core 2 : CALCULUS	On the successful completion of the course, student will be able to:			
		CO1	Identify areas in Mathematics and other fields where	K1	
		CO2	Understand the concepts of Evolutes and Envelopes, curvature and evolutes.	K2	
		CO3	Apply the concept of change of variables in double and	K3	
		CO4	Apply double, triple integral to find the area and volume	K3	
		CO5	Apply the Beta and gamma function to solve the multiple	K4	
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>			
3	Core 3 : ALLIED PHYSICS I	Semester I			
		On the successful completion of the course, student will be able to:			
		1	Understand and define the laws involved in gravitation and	K2	
		2	Develop the knowledge about heat and thermodynamics, sound	K3	
		3	Understand the concept of properties of matter and to recognize their applications in various real problems.	K4	
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyse; K5 - Evaluate; K6 - Create</b>			
		K4			
4	Core 4 : ANALYTICAL GEOMETRY	Semester II			
		On the successful completion of the course, student will be able to:			
		CO1	Gain knowledge about the regular geometrical figures and properties.	K1	
		CO2	Describe the geometric concepts.	K2	
		CO3	Find equation to tangent, normal at a point on a conic	K3	
		CO4	Analyze condition of tangency and find the tangent plane to	K4	
		CO5	Analyze conics to explain natural phenomenon	K4	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>					
5	Core 5 : TRIGONOMETRY, VECTOR CALCULUS	On the successful completion of the course, student will be able to:			
		CO1	Know the expansion of trigonometric functions and	K1	
		CO2	Acquire the basic knowledge of vector differentiation and	K2	
		CO3	Determine and apply the important quantities associated with vector fields such as the divergence, curl and scalar potential.	K3	

	CALCULUS AND FOURIER SERIES	CO4	Understand and find Fourier series of a given periodic	K3	
		CO5	Examine line integral, surface integral, volume integral and inter-relations among them .	K4	
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>			
6	Core 6 : ALLIED PHYSICS II	On the successful completion of the course, student will be able to:			
		1	Acquire knowledge on basic concepts of photoelectric effect and fission, fusion and to get clear idea on wave mechanics.	K1	
		2	Understand the features of Nuclear forces, photoelectric cells, semiconductor diodes, and their fundamental concepts.	K2	
		3	Understand the concept of Laser properties, digital electronics and to recognize their applications in real life.	K4	
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>			
7	Core 7 : ALLIED PHYSICS - LAB	On the successful completion of the course, student will be able to:			
		1	attain skill to understand the usage of basic laws and properties of the materials given.	K3	
		2	analyze the characteristics of various diodes and construct	K4	
		3	acquire the knowledge of the potentiometer and apply it for	K5	
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 -</b>			
8	Core 8 : DIFFERENTIAL EQUATIONS AND LAPLACE TRANSFORMS	<b>Semester III</b>			
		On the successful completion of the course, student will be able to:			
		CO1	Acquire knowledge to solve Differential and Partial	K1	
		CO2	Solve higher order linear differential equations.	K2	
		CO3	Expose differential equation as a powerful tool in solving problems in Physical and Social sciences.	K3	
		CO4	Demonstrate competency to solve linear PDE by	K3	
		CO5	Analyze the concepts of Laplace transforms and inverse solve ODE with constant coefficients.	K4	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>					
9	Core 9 : STATICS	On the successful completion of the course, student will be able to:			
		CO1	Remember the various laws.	K1	
		CO2	Understand the concepts of forces and moments.	K2	
		CO3	Understand the concepts of equilibrium.	K2	
		CO 4	Apply the concepts of forces and moments.	K3	
		CO 5	Analyze the basics of coplanar forces, equilibrium of forces acting on a rigid body and solve the problems.	K4	
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>			
	Core 10 : ALLIED	On the successful completion of the course, student will be able to:			
		1	Understand the properties metals and their conductivity, the synthesis and applications of boron compounds.	K1-K4	
		2	Understand about silicones fuels gases and their industrial The theory behind colours and dyes, their preparation and dyeing.	K2-K4, K6	

10	ALLIED CHEMISTRY I	3	Understand the bonding and structure of various hydrocarbons and electronic effects. Appreciate the optical properties of the compounds nature itself	K1-K4	
		4	Explain the chemistry behind toiletries and cleaning agents.	K2-K5	
		5	Understand the kinetics behind chemical reactions and the nature	K1-K3	
		K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create			
11	Core 11: OPERATIONS RESEARCH I	CO 1	Understand the basic concepts and application of fields.	K1	
		CO 2	Know principles of construction of mathematical models of	K2	
		CO 3	Analyze the relationship between a linear program and its	K3	
		CO 4	Apply techniques constructively to make effective problems in industry.	K3	
		CO 5	Build and solve transportation problems.	K4	
		K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;			
12	Core 12: DYNAMICS	<b>SEMESTER IV</b>			
		On the successful completion of the course, student will be able to:			
		CO 1	Remember the basic kinematics and dynamic concepts.	K1	
		CO 2	Describe the differential equation of Central Orbits .	K2	
		CO 3	Apply the concepts of projectiles to solve problems relating to the motion of a projectile.	K3	
		CO 4	To understand & apply the concepts of composition of simple harmonic motion in two directions.	K3	
		CO 5	Understand impulsive forces and analyze loss of K.E due to impact.	K4	
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;					
13	Core 13: PROGRAMMING IN C	On the successful completion of the course, student will be able to:			
		CO 1	Remember the importance of C language and datatypes.	K1	
		CO 2	Understand the basic structure, operators and statements of	K2	
		CO 3	Understand decision control statements, loop control	K2	
		CO 4	Apply the concepts of data types, operators, expressions, control statements, arrays, character arrays and strings to	K3	
		CO 5	Read, understand and trace the execution of programs written	K4	
		K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;			
14	Core 14: ALLIED CHEMISTRY II	On the successful completion of the course, student will be able to:			
		1	Appreciate the role of metals in biological system and their	K1-K3	
		2	Understand about the importance of paints and the need for the bad face of war.	K2-K5	
		3	Understand the importance of polymers and rubbers in our day to	K1-K4	
		4	Appreciate the need for fertilizers and insecticides in the	K2-K5	
		5	Understand the importance of electrochemistry and energy	K2-K4	
		K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create			

15	Core 15: ALLIED CHEMISTRY -- LAB	On the successful completion of the course, student will be able to:		
		1	Estimate the amount of ion present in the given solution through volumetric analysis	K1-K6
		2	Find the groups/elements and characters present in the given substance through qualitative analysis	K1-K6
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
16	Core 16: OPERATIONS RESEARCH - PAPER II	On the successful completion of the course, student will be able to:		
		CO 1	Identify the importance of stocks, the reasons for holding determine the optimal order quantity for models .	K1
		CO 2	Explain the various costs related to inventory system.	K2
		CO 3	Apply game theory concepts to articulate real-world analyzing and practicing strategic decisions .	K3
		CO 4	Apply and extend queueing models to analyze real world	K4
		CO 5	Build and solve assignment model.	K4
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>		
17	Core 17: REAL ANALYSIS I	<b>SEMESTER V</b>		
		On the successful completion of the course, student will be able to:		
		CO 1	Remember the basic topological properties of subsets of the	K1
		CO 2	Understand the fundamental properties of the real numbers and analyze the real number system.	K2
		CO 3	Learn the concept of limits, sequence, continuity, convergent sequence in metric spaces appreciating the	K2
		CO 4	Have the proficiency in the formulation and construction of proofs of basic results in real analysis.	K3
		CO 5	Demonstrate skills in communicating Mathematics and learn basic techniques and examples in analysis to be well	K4
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>		
18	Core 18: COMPLEX ANALYSIS I	On the successful completion of the course, student will be able to:		
		CO1	Learn techniques of complex analysis effectively to	K1
		CO 2	Recognize the simple and multiple connected domains.	K2
		CO 3	Investigate a function for its analyticity and find it series	K3
		CO 4	Examine the relationship between conformal mapping and	K4
		CO 5	Compute contour integrals directly and by the fundamental	K4
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>		
19	Core 19: MODERN ALGEBRA - I	On the successful completion of the course, student will be able to:		
		CO 1	Recall the properties and extend group structure to finite	K1
		CO 2	Explain the concepts of homomorphism, isomorphism and	K2
		CO 3	Demonstrate abstract thinking capacity and ability to prove	K3
		CO 4	Compare features of different algebraic structures.	K4
		CO 5	Examine the properties of algebraic structures and their role	K4
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>		

20	Core 20: DISCRETE MATHEMATICS	On the successful completion of the course, student will be able to:	
	CO 1	Assimilate various graph theoretic concepts and familiarize with their applications.	K1
	CO 2	Know and understand about partially ordered sets, Boolean algebra, lattices and their types.	K2
	CO 3	Apply Karnaugh map for simplifying the Boolean	K3
	CO 4	Demonstrate the skill to construct simple mathematical	K4
	CO 5	To achieve greater accuracy, clarity of thought and	K4
	<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>		
21	Core 21: OPERATIONS RESEARCH – PAPER III	On the successful completion of the course, student will be able to:	
	CO 1	Know the concept of simulation and simulate a queueing	K1
	CO 2	Understand the overall approach of dynamic programming.	K2
	CO 3	Solve nonlinear programming problems using Lagrange Kuhn-Tucker conditions.	K2
	CO 4	Apply concepts in optimal scheduling	K3
	CO 5	To formulate a model for solving the intractable problems.	K4
	<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>		
22	Core 22 REAL ANALYSIS II	<b>SEMESTER VI</b>	
	<b>On the successful completion of the course, student will be able to:</b>		
	CO 1	<b>Demonstrate the understanding of continuity, uniform continuity, compactness, connectedness.</b>	K1
	CO2	<b>Understand partitions and their refinement.</b>	K2
	CO 3	<b>Determine the Riemann integrability and the Riemann-Stieltjes integrability of a bounded function.</b>	K2
	CO 4	<b>Examine the derivatives of function.</b>	K3
	CO 5	<b>Acquire skills in writing and analyze the proofs that arise in the context of real analysis.</b>	K4
	<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create</b>		
23	Core 23: COMPLEX ANALYSIS II	On the successful completion of the course, student will be able to:	
	CO 1	To recognize and apply the Liouville's theorem, the mean-value property of a function and the maximum modulus	K1
	CO 2	Demonstrate understanding and appreciation of deeper aspects of complex analysis.	K2
	CO 3	Apply residue theorem to compute integrals.	K3
	CO 4	Ability to think critically by proving mathematical conjectures and establishing theorems from complex	K4
	CO 5	Classify the nature of singularity, poles and residues .	K2
	<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>		

24	Core 24: MODERN ALGEBRA - II	On the successful completion of the course, student will be able to:		
		CO 1	Communicate and understand mathematical ideas and	K1
		CO 2	Explain the concepts of base and dimension of Vector	K2
		CO 3	To apply the Gram-Schmidt process to construct an orthonormal set of vectors in an inner product space.	K3
		CO 4	Demonstrate competence with the basic ideas of Matrix Dual spaces, Linear transformation.	K3
		CO 5	Have an insight to analyze a real life problem and solve it.	K4
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>		
25	Core 25 OPERATIONS RESEARCH - PAPER -IV	On the successful completion of the course, student will be able to:		
		CO 1	Know the principles and applications of information theory.	K1
		CO 2	To understand sequencing, replacement problems.	K2
		CO 3	Demonstrate skills to achieve their objective using	K3
		CO 4	Apply decision making under different business	K4
		CO 5	Determine a solution to a rectangular game using simplex	K3
		<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>		
26	Elective 1: NUMERICAL METHODS - I	<b>Elective</b>		
		On the successful completion of the course, student will be able to:		
		CO 1	Remember the concepts of errors and its effect on	K1
		CO 2	Obtain numerical solutions of algebraic and transcendental	K2
		CO 3	Apply the finite difference and interpolation concepts.	K3
		CO 4	Develop skills in designing mathematical models for constructing polynomials to the given data and drawing	K4
		CO 5	Analyze the efficiency of iteration methods.	K4
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>				
27	Elective 2: Numerical Methods II	On the successful completion of the course, student will be able to:		
		CO 1	Familiarize with numerical integration and differentiation, ordinary differential equations.	K1
		CO 2	Distinguish methods of Taylor series, Euler's, Modified methods to find solutions of differential equations.	K2
		CO 3	Apply the techniques for enormous application in the fields of Engineering.	K3
		CO 4	Compute the integrals and derivatives by using the	K4
		CO 5	Find the numerical solution of second order O.D.E by	K4
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 -</b>				
28	Elective 3 PROGRAMMING IN C++	On the successful completion of the course, student will be able to:		
		CO 1	Know about class structure, member functions & data and example problems .	K1
		CO 2	Understand how C++ improves C with object-oriented	K2
		CO 3	Develop programming skills.	K2

	CO 4	To make use of objects and classes for developing	K3
	CO 5	Build C++ classes.	K4
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate;</b>			

**PROVIDENCE COLLEGE FOR WOMEN**  
**DEPARTMENT OF MATHEMATICS**  
M.Sc Mathematics 2022-2023

<b>Program Specific Outcomes (PSOs)</b>	
After the successful completion of <b>M. Sc. Mathematics</b> program, the students are expected to	
PSO1	Communicate concepts of Mathematics and its applications.
PSO2	Acquire analytical and logical thinking through various mathematical tools and techniques.
PSO3	Investigate real life problems and learn to solve them through formulating mathematical models.
PSO4	Attain in-depth knowledge to pursue higher studies and ability to conduct research. Work as mathematical professional.
PSO5	Achieve targets of successfully clearing various examinations/interviews for placements in teaching, banks, industries and various other organizations/services.

<b>Program Outcomes (POs)</b>	
On successful completion of the M. Sc. Mathematics program, the students will be able to	
PO1	Demonstrate in-depth knowledge of Mathematics, both in theory and application.
PO2	Attain the ability to identify, formulate and solve challenging problems in Mathematics.
PO3	Know the various specialized areas of advanced mathematics and its applications.
PO4	Analyze complex problems in Mathematics and propose solutions using research-based knowledge.
PO5	Obtain the accurate solutions for the community oriented problems via various mathematical models.
PO6	Work individually or as a team member or leader in uniform and multidisciplinary settings.
PO7	Crack lectureship and fellowship exams affirmed by UGC like CSIR-NET and SET.
PO8	Apply the Mathematical concepts, in all the fields of learning including higher research, and recognize the need and prepare for lifelong learning.
PO9	Know the use of computers both as an aid and as a tool to study problems in Mathematics.
PO10	Inculcate the knowledge of formulation and apply the mathematical concepts which are suitable for real life applications.



