



A.D.M College For Women (Autonomous)

Nationally Accredited with 'A' by NAAC (Cycle-IV)
Nagapattinam -611 001
TamilNadu.



DEPARTMENT OF HISTORY

A. GENERAL INFORMATION

Name of the Faculty	:Mrs. R. Alamelu
Department	:History
Programme	:B.A.
Programme Code	:BAH
Name of the Paper	:Human Rights
Lecture Hours	:60 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
1. To understand the value of Human Rights. 2. To be familiar with the International instruments on Human Rights. 3. To know the Champions of Human Rights in India and World. 4. To analyze Human Rights issues and Problems. 5. To Study the powers and functions of Human Rights Commissions in India.	1. Students will be able to understand the History of Human Rights as a Concept. 2. Conceptualize the implementation of International covenant on Economic Social and Cultural Rights. 3. Analyze the role of great Champions of Human Rights. 4. Gain knowledge on Human Rights Problems and Resolutions. 5. Acquire Knowledge on Protections of Human Rights in India.	1. Lecture method 2. Power Point Presentation 3. Video lectures 4. Group discussion 5. Seminar 6. Chalk and talk method

C. PLAN OF THE WORK:

Unit/ Modules	Topic to be covered	Proposed date	Lectur e Hrs	Practical Hours	Remarks
Unit I Content 9Hours Assessment – 3 Hours Total – 12 Hours	1. Definition of Human Rights 2. Classification and Characteristics 3. Historical background of Human Rights 4. Theories of Human Rights	18.07.22 To 11.08.2022	3hrs 3hrs 3hrs 3hrs		Test & Assignment activity to be conducted during Assessment hours
Unit II Content - 9Hours Assessment – 3 Hours Total – 12 Hours	1. Universal declaration of Human Rights 2. International Covenant on Civil and Political Rights 3. International Covenant on Economic, Social, Cultural Rights 4. Amnesty International3hrs	12.08.2022 To 09.09.2022	3hrs 3hrs 3hrs 3hrs		
Unit III Content - 9Hours Assessment – 3 Hours Total – 12 Hours	1. Abraham Lincoln & Martin Luther King 2. Nelson Mandela 3. Dr.B.R. Ambedkar 4. Mahatma Gandhi &SubramaniaBharathi	12.09.2022 10.10.2021	3hrs 3hrs 3hrs 3hrs		
Unit IV Content - 9Hours Assessment – 3 Hours Total – 12 Hours	1. Child Labour and Bonded Labour 2. Women’s Rights 3. Female infanticide and Foeticide 4. Refugees & Capital Punishment	11.10.2022 To 31.10.2022	3hrs 3hrs 3hrs 3hrs		

Unit V Content - 9Hours Assessment - 3 Hours Total - 12 Hours	1. National Human Rights Commission and States Human Rights Commission 2. Minorities Rights Commission 3. National Commission for Women 4. National Commission for Scheduled caste and Scheduled tribe	02.11.2022 To 23.11.2022	3hrs 3hrs 3hrs 3hrs		
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D. ACTIVITIES:

Activities Name	Details
Test	Weekly Test & Monthly Test Mid - Semester & Model Examination for CIA
Assignment	Four Assignments to be given
Quiz	Quiz test to be conducted (2 times)
Seminar	After completing the syllabus, seminar will be conducted.
Mentor / Mentee Meeting	Every Month Mentor meeting to be conducted.

Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty	:Mrs. R. Alamelu
Department	:History
Programme	:B.A.
Programme Code	:BAH
Name of the Paper	:History of India from CE 1707 to 1857
Lecture Hours	:90 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
1. To understand the causes for the disintegration of the Mughals 2. To learn the reason for the success of the expansion of British rule 3. To know the different policies of the British and the Indians reaction 4. To analyze the administrative reforms of Governor Generals 5. To focus the impact of British rule of Indian Society	1. Discuss the advent of the Europeans and their administrative system 2. Evaluate the Anglo - Mysore wars and Anglo - Sikh wars 3. Understanding the permanent Revenue system and Lord Ripon's Local self-Government 4. To gain knowledge of the impact of British rule in India 5. Understand the Constitutional Development in India	1. Lecture method 2. Power Point Presentation 3. Video lectures 4. Group discussion 5. Seminar 6. Tutorial method

C. PLAN OF THE WORK:

Unit/ Modules	Topic to be covered	Proposed date	Lectu re Hrs	Practical Hours	Remarks
Unit I Content – 15 Hours Assessment – 3 Hours Total – 18 Hours	1. Disintegration of the Mughal Empire. 2. European Settlements in India 3. British Annexation of Bengal	18.07.2022 to 11.08.2022	6hrs 6hrs 6hrs	-	-
Unit II Content – 15 Hours Assessment – 3 Hours Total – 18 Hours	1. Warren Hastings 2. Lord Dalhousie 3. The Wars 4. Ranjith Singh 5. Anglo-Sikh War	12.08.2022 to 07.09.2022	4hrs 3hrs 4hrs 4hrs 3hrs	-	-
Unit III Content – 15 Hours Assessment – 3 Hours Total – 18 Hours	1. Ring Fence Policy 2. Subordinate Isolation 3. Subsidiary Alliance 4. Doctrine of Lapse	09.09.2022 to 07.10.2022	4hrs 5hrs 5hrs 4hrs	-	Mid Semester Examination
Unit IV Content – 15 Hours Assessment – 3 Hours Total – 18 Hours	1. Cornwallis and Permanent Land Revenue Settlement 2. Judicial and Police Reforms 3. Lord Dalhousie and his Reforms	08. 10.2022 to 28.10.2022	6hrs 6hrs 6hrs	-	

Unit V Content – 15 Hours Assessment – 3 Hours Total – 18 Hours	1. William Bentinck – Social Reforms 2. Education Policy under East India Company 3. Changes in Administrative Structure and Policies 4. Great Revolt of 1857	31.10.2022 to 21.11.2022	4hrs 5hrs 4hrs 5hrs	-	Model Examination
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D. ACTIVITIES:

Activities Name	Details
Test	Weekly Test & Monthly Test Mid – Semester & Model Examination for CIA
Assignment	Four Assignments to be given
Quiz	Quiz test to be conducted (2 times) (Written & Oral)
Seminar	After completing the syllabus, seminar will be conducted.
Mentor / Mentee Meeting	Every Month Mentor meeting to be conducted.


Signature of Principal

TEACHING PLAN

A. GENERAL INFORMATION

Name of the Faculty	:Mrs. R. Alamelu
Department	:History
Programme	:B.A.
Programme Code	:BAH
Name of the Paper	:Value Education
Lecture Hours	:30 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
<ol style="list-style-type: none">1. To develop good moral values2. To promote thinking in a better aspect and a democratic way of living3. To attain good citizenship and standard of living4. To cultivate tolerance among the students5. To import social values.	<ol style="list-style-type: none">1. Recognize the perception of life and lead a positive life.2. Develop a strong relationship with family and friends.3. Realize the Social values of life.4. Transform the personality and character of the students.5. Acquire knowledge on physical and mental health.	<ol style="list-style-type: none">1. Lecture method2. Video lectures3. Group discussion4. Seminar5. Demo Classes on Yoga

C. PLAN OF THE WORK:

Unit/ Modules	Topic to be covered	Proposed date	Lectu re Hrs	Practical Hours	Remarks
Unit I Content – 4 Hours Assessment – 2 Hours Total -6 Hours	1.Purpose of Life 2.The Law of Nature 3. Protective Nature	18.07.2022 to 11.08.2022	2hrs 2hrs 2hrs	-	-
Unit II Content – 4 Hours Assessment – 2 Hours Total -6 Hours	1.Thought Analysis 2.Rewards of Blessing 3. Benevolence of Friendship	12.08.2022 to 07.09.2022	2hrs 2hrs 2hrs	-	-
Unit III Content – 4 Hours Assessment – 2 Hours Total -6 Hours	1. The Law of Life 2. The Pride of Womanhood 3. People’s Responsibility in Maintaining World Peace.	09.09.2022 to 07.10.2022	2hrs 2hrs 2hrs	-	Mid Semester Examination
Unit IV Content – 4 Hours Assessment – 2 Hours Total -6 Hours	1. Mind Culture 2. Universal Magnetism 3. Spiritual Value	08.10.2022 to 28.10.2022	2hrs 2hrs 2hrs	-	

Unit V Content – 4 Hours Assessment – 2 Hours Total -6 Hours	1. The Three Forces of the Body 2. Methods in Curing Disease 3. Physical Exercises	31.10.2022 to 21.11.2022	2hrs 2hrs 2hrs	-	Model Examination
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D. ACTIVITIES:

Activities Name	Details
Test	Weekly Test & Monthly Test Mid – Semester & Model Examination for CIA
Assignment	Four Assignments to be given
Quiz	Quiz test to be conducted
Seminar	After completing the syllabus, seminar will be conducted.
Mentor / Mentee Meeting	Every Month Mentor meeting to be conducted.

Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty :Mrs.G.Anbarasi
Department :History
Programme :BA
Programme Code :BAH
Name of the Paper :World Civilizations (Excluding India) Up to CE 476
Lecture Hours :90Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
1. To impart the students about the growth and development of civilizations. 2. To know about the development to polity, religion and culture. 3. To know about the ancient philosophy. 3.To understand the ancient traditions. 4.To know about the ancient trade and Economy.	1. Gain knowledge of various Civilizations. 2. Understand the Indian Tradition. 3. Gain knowledge about the Ancient Art and Architecture. 4. Know about the development of City States. 5. Well known about Ancient Trade and Commerce.	PowerPoint E-Module Chalk &Talk Method Lecture Method Discussion Method Assignment Seminar

C. PLAN OF THE WORK:

Unit/Mo dules	Topic to be covered	Proposed date	Lecture Hrs	Practi cal hours	Remarks
Unit I Content 15 HRS Assessment 3 Hours Total 18 Hours	1,Rise and Growth of Civilization :Geography- Pre-Historic Period 2.MegalithicAge- NeolithicAge 3, Bronze Age –Chalcolithic Age.	17.08.2022 to 30.08.2022	6hrs 6hrs 6hrs	-	-
Unit II Content 15 HRS Assessment 3 Hours Total 18 Hours	1.BabylonianCivilization:Eu phrates- Tigris,EgyptianCivilization 2.Architecture- PyramidsSphinx- 3.Literature-Antiquities.	02.09.2022 to 13.09.2022	6hrs 6hrs 6hrs	-	-
Unit III Content 15 HRS Assessment 3 Hours Total 18 Hours	1.Greek Civilization: Philosophy-Literature- Science 2.ArtandArchitecture- Military-CityStates 3. Athens-Sparta-Troy and Corinth.	14.09.2022 to 12.10.2022	6hrs 6hrs 6hrs	-	-
Unit IV Content 15 HRS Assessment 3 Hours Total 18 Hours	1,Roman Civilization: Origin and Growth of Rome- 2.Augustanage- Legacy of Rome 3. Judicia lCodes -Artand Architecture.	13.10.2022 to 26.10.2022	6hrs 6hrs 6hrs	-	-

Unit V	1.ChineseCivilization:Origin	27.10.22	6hrs	-	-
Content	- Geography	to	6hrs		
15 HRS	2.Literature-Philosophy-	09.11.2022	6hrs		
Assessment	Confucianism				
3 Hours	3.Inventions-Position of				
Total	Women.				
18 Hours					

D. ACTIVITIES:

Activities Name	Details
Test	Weekly Test & Monthly Test Mid - Semester & Model Examination for CIA
Assignment	Four Assignments to be given
Quiz	Quiz test to be conducted (2 times)
Seminar	After completing the syllabus, seminar will be conducted.
Mentor / Mentee Meeting	Every Month Mentor meeting to be conducted.

Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty	:Mrs.G.Anbarasi
Department	:History
Programme	:BA
Programme Code	:BHA
Name of the Paper	:Tour Operation and Tourist Guide
Lecture Hours	:30 Hrs.

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
1. To know the components and elements of Tourism.	On Completion of the Course Students will be able to	PowerPoint
2. To understand the types of travel Agencies and functions.	1. Identify important elements of tourism.	E-Module
3. To understand the role of Tour operators.	2. Gain knowledge on travel agencies.	Chalk & Talk Method
4. To develop the practical skill in travel formalities	3. Acquire knowledge on tour operations.	Lecture Method
5. To develop the skill in guiding to the tourists and various tour Operations.	4. understand basics of travel procedure	Discussion Method
	5. gain knowledge to act as a tourist guide	Assignment
		Seminar

C. PLAN OF THE WORK:

Unit/Mo dules	Topic to be covered	Proposed date	Lecture Hrs	Practi cal Hours	Remarks
Unit I Content – 4 Hours Assessment – 2 Hours Total -6 Hours	1.Basic components of Tourism Elements of Tourism 2.Transports 3.accommodation	18.07.2022 to 25.07.2022	2Hrs 2Hrs 2Hrs	-	-
Unit II Content – 4 Hours Assessment – 2 Hours Total -6 Hours	1.Travel Agency 2.Types of Travel Agency 3. Linkages of Travel Agency.	04.08.22 to 18.08.22	2Hrs 2Hrs 2Hrs	-	UNIT TEST -
Unit III Content – 4 Hours Assessment – 2 Hours Total -6 Hours	1.Tour Operators 2. Package Tour – 3.Types of Package Tour	24.08.22 to 05.09.22	2Hrs 2Hrs 2Hrs	-	-
Unit IV Content – 4 Hours Assessment – 2 Hours Total -6 Hours	1 Travel Formalities 2.Regulations 3.Air Ticketing Techniques.	08.09.22 to 28.09.22	2Hrs 2Hrs 2Hrs		MID SEMESTER EXAMINATION -

Unit V	1Qualities of Tourist Guide	11.10.22	2Hrs		MODEL EXAMINATION
Content – 4	2.Duties and Responsibilities	to	2Hrs		
Hours	3.Employment Opportunities	02.11.22	2Hrs		
Assessment –	of Tourist Guide				
2 Hours					
Total -6 Hours					

ACTIVITIES:

Activities Name	Details
Test	Weekly Test & Monthly Test Mid – Semester & Model Examination for CIA
Assignment	Four Assignments to be given
Quiz	Quiz test to be conducted (2 times)
Seminar	After completing the syllabus, seminar will be conducted.
Mentor / Mentee Meeting	Every Month Mentor meeting to be conducted.

Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty	:Mrs.G.Anbarasi
Department	:History
Programme	:BA
Programme Code	:BAH
Name of the Paper	:History of Science and Technology
Lecture Hours	:75 Hrs.

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
1. To know about the History of Science and Technology 2. To Study about the earliest Scientific discoveries and the establishment of Scientific Organization. 3. Highlight the Contributions of Great Scientist to Science and Technology. 4. To know about the various Atomic discoveries. 5. To analyze the Progress of Science and Technology in Modern India.	On completion of the Course, Students will be able to 1. Gain knowledge about the history of science and technology. 2. Understand the major events and significance during the renaissance period. 3. Acquire the knowledge about the Darwin theory of evolution. 4. Gain knowledge in the field of communications. 5. Well known about the progress of science and Technology.	PowerPoint E-Module Chalk &TalkMethod Lecture Method Discussion Method Assignment Seminar

C.PLAN OF THE WORK:

Unit/ Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I Content -12 Hours Assessment – 3 Hours Total -15 Hours	1.Introduction 2..Science and Technology in Ancient Times 3. Greece, Rome and India.	18.07.22 to 11.08.22	5hrs 5hrs 5hrs	-	-
Unit II Content 12 HRS Assessment 3 HRS Total 15 HRS	1..Progress of Science and Technology 2.Renaissance in Europe 3.Copernicus, Kepler, Galileo, 4. Scientific Societies – Isaac Newton – William Harvey.	12.08.2022 to 30.08.22	4hrs 4hrs 4hrs 3hrs		-
Unit III Content 12 HRS Assessment 3 HRS Total 15 HRS	1. Darwin and Theory of Evolution 2. Faraday and Electromagnetism; 3.Progress in Chemistry 4.Progress in Technology	02.09.22 to 15.09.22	4hrs 4hrs 4hrs 3hrs		Mid Semester Examinati on
Unit IV Content 12 HRS Assessment 3 HRS Total 15HRS	1.Science and Technology in 20th Century 2. Einstein - Roentgen – Madam Curie and Radium 3. Rutherford – Atom Bomb.	26.09.22 to 17.10.22	5hrs 5hrs 5hrs		-

Unit V	1.Progress of science in	18.10.22	4hrs		Model Examination
Content	India - J.C. Bose	to	4hrs		
12 HRS	2.P.C. Roy -Srinivasa	21.11.22	4hrs		
Assessment 3	Ramanujam, HomiBhaba		3hrs		
HRS	-				
Total	3.Hargovind Khorana				
15 HRS	4.Abdul Kalam.				

C. ACTIVITIES:

Activities Name	Details
Test	Weekly Test & Monthly Test Mid - Semester & Model Examination for CIA
Assignment	Four Assignments to be given
Quiz	Quiz test to be conducted (2 times)
Seminar	After completing the syllabus, seminar will be conducted.
Mentor / Mentee Meeting	Every Month Mentor meeting to be conducted.



Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty :Mrs.G.Anbarasi
Department :History
Programme :BA
Programme Code :BAH
Name of the Paper :Public Administration I
Lecture Hours :60Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
<ol style="list-style-type: none">1. To learn the concepts and scope of public Administration.2. To study the different Theories of Organisations.3. To understand the Role of Public Undertakings.4. To know the Hierarchical Order.5. To understand Field Administration.	<ol style="list-style-type: none">1. Earn Knowledge on skills to Learn Public Administration.2. Understand the scope of job in Public and Private sectors.3. Assess the functions of Chief Executive4. Acquire Knowledge on Public Corporations5. Understand the functions of Various Departmental Administration.	<ol style="list-style-type: none">1. PowerPoint2. E-Module3. Chalk & Talk Method4. Lecture Method5. Discussion Method6. Assignment7. Seminar

C.PLAN OF THE WORK:

Unit/ Modules	Topic to be covered	Proposed date	Lectur e Hrs	Practica l Hrs	Remarks
Unit I Content -9 Hours Assessment - 3 Hours Total -12 Hours	Concepts of public Administration: 1.Scope of public administration – 2.Public and Private Administration 3.Human Factor 4.Art or Science.	18.07. 2022 to 11.08.2022	3hrs 3hrs 3hrs 3hrs	-	-
Unit II Content 9 HRS Assessment 3 Hours Total 12 Hours	Organization: 1.Various theories of public administration – Bureaucrate 2.Classic -Human relation Scientific Management: 3.Principles – Hierarchy 4.Span of Control – Unity of Command.	12.08.2022 to 09.09.2022	3hrs 3hrs 3hrs 3hrs	-	-
Unit III Content 9 HRS Assessment 3 HRS Total 12 HRS	Structure: Chief executive 1. Functions – Line and Staff Agencies 2.Indian Prime Minister’s Office 3.Secretariat – White House Office (U.S.A) Department as Unit of Administration 4.Bases of Organization Departments of Home.	12.09.2022 to 10.10.2022	3hrs 3hrs 3hrs 3hrs	-	Mid Semester Examinat ion
Unit IV	1.Finance Commission UPSC	11.10.2022	3hrs		

Content 9 HRS Assessment 3 HRS Total 12 HRS	Backward Class, Official Language 2. Significance of Public undertakings Various kinds and reasons for Government participation in India 3.Public Corporations – Their problems 4.Ministerial control and corporations accountability to Parliament.	to 31.10.2022	3hrs 3hrs 3hrs		
Unit V Content 9 HRS Assessment 3 HRS Total 12 HRS	Field Administration: 1.Importance of Field Organization 2.Area Head Quarters and Filed Agencies relationship 3.Territorial and functional Dichotomy. 4.Importance of Panchayat Raj in India as Field Administration.	02.11.22 to 23.11.22	3hrs 3hrs 3hrs 3hrs		Model Examination

D.ACTIVITIES:

Activities Name	Details
Test	Weekly Test & Monthly Test Mid – Semester & Model Examination for CIA
Assignment	Four Assignments to be given
Quiz	Quiz test to be conducted (2 times)
Seminar	After completing the syllabus, seminar will be conducted.
Mentor / Mentee Meeting	Every Month Mentor meeting to be conducted.


Signature of Principal



A.D.M College For Women (Autonomous)

Nationally Accredited with 'A' by NAAC (Cycle-IV)

Nagapattinam -611 001

TamilNadu.



DEPARTMENT OF HISTORY

A. GENERAL INFORMATION

Name of the Faculty	:Mrs. R. Alamelu
Department	:History
Programme	:B.A.
Programme Code	:BAH
Name of the Paper	:History of India from CE1206 to 1707
Lecture Hours	:90 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
1. To study the Medieval History of India. 2. To understand the Administrative system of sultanate. 3. To understand the contribution of Vijayanagar empire to Art and Architecture. 4. To study the Mughal Administration, Art and Architecture. 5. To understand the Maratha administrative system.	1. Students will be able to gain knowledge on the society, economy and administration in Medieval India. 2. Highlight the Art and Architecture of Vijayanagar. 3. Assess the contribution of Mughal to administrative system. 4. Knowledge on the legacy of Mughals to Art and Architecture. 5. Be able to preserve the heritage and culture of India.	1. Lecture method 2. Power Point Presentation 3. Video lectures 4. Group discussion 5. Seminar 6. Tutorial method

C. PLAN OF THE WORK:

Unit/ Modules	Topic to be covered	Proposed date	Lecture Hrs	Practic al	Remarks
Unit I Content – 15 Hours Assessment - 3 Hours Total- 18 Hours	1. Slave Dynasty 2. Khilji Dynasty 3. Muhammed Bin Tuqlug 4. Administrative system of Delhi Sultans 5. Art and Architecture under Delhi Sultans	20.12.2022 to 09.01.2023	4 Hrs 4 Hrs 4 Hrs 3 Hrs 3 Hrs	-	Map drawing activity to be conducted
Unit II Content – 15 Hours Assessment - 3 Hours Total- 18 Hours	1. Krishnadevaraya 2. Battle of Talikota 3. Administration and Society under Vijayanagar 4. Bahmani Kingdom 5. Bakhti Movement	10.01.2023 to 02.02.2023	4 Hrs 4 Hrs 4 Hrs 3 Hrs 3 Hrs	-	
Unit III Content – 15 Hours Assessment - 3 Hours Total- 18 Hours	1. Babur 2. Shershah Administration 3. Akbar 4. Jahangir 5. Shahjahan and Aurengazib	03.02.2023 to 18.02.2023	4 Hrs 4 Hrs 4 Hrs 3 Hrs 3 Hrs	-	
Unit IV Content – 15 Hours Assessment - 3 Hours Total- 18 Hours	1. Mughal Administration 2. Religious policy of the Mughals 3. Society, Economy under Mughals 4. Art and Architecture	01.03.2023 to 21.03.2023	4 Hrs 4 Hrs 4 Hrs 4Hrs 2 Hrs	-	
Unit V Content – 15 Hours	1. Shivaji 2. Maratha Administration	23.03.2023 to 13.04.2023	4 Hrs 4 Hrs 4 Hrs	-	

Assessment - 3 Hours Total- 18 Hours	3. Rise of the Sikhs 4. Maratha Art & Architecture		4Hrs 2 Hrs		
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D. ACTIVITIES:

Activities Name	Details
Test	Weekly Test & Monthly Test Mid – Semester & Model Examination for CIA
Assignment	Four Assignments to be given
Quiz	Quiz test to be conducted (2 times)
Seminar	After completing the syllabus, seminar will be conducted.
Mentor / Mentee Meeting	Every Month Mentor meeting to be conducted.

Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty	:Mrs. R. Alamelu
Department	:History
Programme	:B.A.
Programme Code	:BAH
Name of the Paper	:Indian Constitution
Lecture Hours	:90 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
1. To know the necessity of making of constitution. 2. To study the Salient features of Indian Constitution. 3. To understand the Structure and powers of the Legislature and Executive. 4. To know the Structure and functions of the State Government 5. To analyze the role of Judiciary.	1. Students will be able to understand Historical background of the making of Constitution and its importance. 2. Able to apply knowledge on directive principles of state policy. 3. Able to understand and analyze the role of legislature and executive. 4. Gain knowledge on the role of Governors and Chief Minister of a state. 5. To know the structure and functions of Indian Judiciary.	1. Lecture method 2. Power Point Presentation 3. Video lectures 4. Group discussion 5. Seminar 6. Tutorial method 7. Exhibition

C. PLAN OF THE WORK:

Unit/ Modules	Topic to be covered	Proposed date	Lecture Hrs	Practi cal	Remarks
Unit I Content – 15 Hours Assessment – 3 Hours Total – 18 Hours	1. Framing of Indian Constitution 2. Drafting committee 3. Preamble 4. Classification of Constitution and forms of Government	20.12.2022 to 09.01.2023	4 Hrs 4 Hrs 4 Hrs 2 Hrs	-	Test & Assignment activity conducted during assessment hours
Unit II Content -15 Hours Assessment – 3 Hours Total -18 Hours	1. Salient features 2. Fundamental Rights and Duties 3. Directive principals of state policy 4. Amendment Procedure. 5. Emergency Provisions	10.01.2023 to 02.02.2023	3Hrs 3 Hrs 3 Hrs 3 Hrs	-	Mid Semester Exam to be conducted in February
Unit III Content -15 Hours Assessment – 3 Hours Total -18 Hours	1. President 2. Prime Minister 3. Cabinet 4. Parliament Powers 4.Functions	03.02.2023 to 18.02.2023	4 Hrs 4 Hrs 4 Hrs 4Hrs 2 Hrs	-	
Unit IV Content – 15 Hours Assessment – 3 Hours Total – 18 Hours	1. Governor 2. Chief Minister 3. Legislative Procedure & 4.Function of State Assembly	01.03.2023 to 21.03.2023	4 Hrs 4 Hrs 4 Hrs 4Hrs 2 Hrs	-	Model Examination to be conducted

Unit V Content -15 Hours Assessment – 3 Hours Total -18 Hours	1. Supreme Court – Jurisdiction 2. Independence of Judiciary 3. High Court Powers 4.Functions.	23.03.2023 to 13.04.2023	4 Hrs 4 Hrs 4 Hrs 4Hrs 2 Hrs	-	
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D. ACTIVITIES:

Activities Name	Details
Test	Weekly Test & Monthly Test Mid – Semester & Model Examination for CIA
Assignment	Four Assignments to be given
Quiz	Quiz test to be conducted (2 times)
Seminar	After completing the syllabus, seminar will be conducted.
Mentor / Mentee Meeting	Every Month Mentor meeting to be conducted.

Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty	:Mrs.G.Anbarasi
Department	:History
Programme	:BA
Programme Code	:BAH
Name of the Paper	:History of Europe CE1789 toCE1945
Lecture Hours	:75Hrs

A. ABOUTTHE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
1.To explore the causes course and effects of French Revolution 2.To Understand causes for the origin of Industrial Revolution 3.To learn the first World War 4.To know about the dictatorship in Italy and Germany 5.To understand the important world organizations to maintain peace	1. Gain knowledge to learn, European History. 2. Underdogs and the causes of French Revolution. 3. know results of the Industrial Revolutions 4. Assess the unification of Italy and Germany. 5. Acquire knowledge on World wars.	PowerPoint E-Module Chalk &Talk Method Lecture Method Discussion Method Assignment Seminar

B. PLAN OF THE WORK:

Unit/Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical	Remarks
Unit I Content – 12 Hr Assessment- 3 Hr Total-15 Hrs	1.French Revolution - Causes and its results – Napoleon Bonaparte 2.Domestic and foreign policy 3.Congress of Vienna– Concert of Europe.	20.12.2022 to 05.01.2023	5 Hrs 5 Hrs 5 Hrs	-	-
Unit II Content – 12 Hr Assessment- 3 Hr Total-15 Hrs	1.Industrial Revolution– Agrarian Revolution 2.Eastern Question– Napoleon III 3.Unification of Italy and Unification of Germany– Bismarck.	06.01.2023 to 27.01.2023	5 Hrs 5 Hrs 5 Hrs	-	Mid Semester Exam to be conducted in February
Unit III Content – 12 Hr Assessment- 3 Hr Total-15 Hrs	1.FirstWorldWar– 2.RussianRevolution 3.LeagueofNations	30.01.2023 to 15.02.2023	5 Hrs 5 Hrs 5 Hrs	-	-
Unit IV Content – 12 Hr Assessment- 3 Hr Total-15 Hrs	1.TheGreatDepressionof 192 2.FascisminItalyand 3.NazisminGermany	16.03.2023 to 14.03.2023	5 Hrs 5 Hrs 5 Hrs	-	Model Examination to be conducted
Unit V Content – 12 Hr Assessment- 3 Hr Total-15 Hrs	1.Originandimpact of Second World War 2.The United Nations Organizations. 3. Specialized Agencies	15.03.2023 to 12.04.2023	5 Hrs 5 Hrs 5 Hrs	-	-

C.ACTIVITIES:

Activities Name	Details
Test	Weekly Test & Monthly Test Mid – Semester & Model Examination for CIA
Assignment	Three Assignments to be given
Quiz	Quiz test to be conducted (2 times)
Seminar	After completing the syllabus, seminar will be conducted.

**Signature of Principal**

A. GENERAL INFORMATION

Name of the Faculty	:Mrs.G.Anbarasi
Department	:History
Programme	:BA
Programme Code	:BAH
Name of the Paper	:Women through the Ages in India
Lecture Hours	:90 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
1. To study the Position of Women from Ancient to Modern Period. 2.To analyze the Women's role in Indian Independence Movement 3.To know about the Women's Backward class Movement. 4.To Students the Social Reform for the emancipation of Women 5.To analyze Women's political Participations and Legal Rights.	1.To gain knowledge about the Position of Women ancient to modern Period. 2.To identify the women's role in Indian Independence Movement. 3. Understanding the Women's Backward class Movement. 4.To acquire knowledge on Emancipation of Women. 5.To aware the Political Participation and Legal Provisions	PowerPoint E-Module Chalk &Talk Method Lecture Method Discussion Method Assignment Seminar

C. PLAN OF THE WORK:

Unit/ Modules	Topic to be covered	Propose d date	Lecture Hrs	Practical Hrs	Remarks
Unit I Content – 15 Hours Assessment- 3 Hours Total- 18 Hours	1.Women in Society – 2.Women in Ancient 3. Women in Medieval and 4.Modrn..Movement 5..Historical Perspectives.	20.12.2022 to 09.01.2023	4 Hrs 4 Hrs 4 Hrs 4Hrs 2 Hrs	-	-
Unit II Content – 15 Hours Assessment- 3 Hours Total- 18 Hours	1.Emergence of Women’s 2.Questions in Colonial India 3. .Women’s role in India 4.Independence Movement.	10.01.2023 to 02.02.2023	5 Hrs 5Hrs 4 Hrs 4Hrs	-	Mid Semester Examinat ion conduce d
Unit III Content – 15 Hours Assessment- 3 Hours Total- 18 Hours	1.Post Independence period and Women’s Movements 2.Dravidian Movement 3.Women’s Backward Class Movement 4..Chipko Movement.	03.02.2023 to 18..02.2023	5 Hrs 5Hrs 4 Hrs 4Hrs	-	-
Unit IV Content – 15 Hours Assessment- 3 Hours	1.Position of Women 2.. Social Reforms for the emancipation of Women 3..Rajaram Mohan	01.03.2023 to 21.03.2023	5 Hrs 5Hrs 4 Hrs 4Hrs	-	Model Examinati on to be conduce d

Total- 18 Hours	Ray –Ishwar Chandra Vidya Sagar 4..Annie Besant – Muthulakshmi Reddy,DrugabaiDesh mukh				
Unit V Content – 15 Hours Assessment- 3 Hours Total- 18 Hours	1.Women and Political Participation 2.International ,National and Local 3.Self Help Groups for Women Empowerment 4.Child Marriage	23.03.2023 to 13.04.2023	5 Hrs 5Hrs 4 Hrs 4Hrs	-	-

D. PLAN OF THE WORK:

ACTIVITIES:

Activities Name	Details
Test	Weekly Test & Monthly Test Mid – Semester & Model Examination for CIA
Assignment	Three Assignments to be given
Quiz	Quiz test to be conducted (2 times)
Seminar	After completing the syllabus, seminar will be conducted.

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PG & RESEARCH DEPARTMENT OF ECONOMICS

A. GENERAL INFORMATION

Name of the Faculty	: Dr.S.Rajeswari
Department	: Economics
Programme	: M.A
Programme code	: PGEK
Name of the Paper	: International Economics
Lecture Hours/Practical Hours	: 18 Hours

B. ABOUT THE COURSE

Course Objectives	Course outcomes	Teaching Methodology
<ul style="list-style-type: none">To teach the important theories of international tradeTo teach the ways to regulate international tradeTo teach the Balance of PaymentsTo teach the functions of international financial institutions in the global economy.To teach the students to understand the Indian EXIM Policy	<p>On completion of the Course, Students should be able to</p> <ul style="list-style-type: none">Understand the important theories of international tradeUnderstand the various ways to regulate international tradeUnderstand the Balance of PaymentUnderstand the functions of international financial institutions in the global economyThe students to understand the Indian EXIM Policy.	<ul style="list-style-type: none">The Demonstration LessonSeminarE-ContentE-ModuleGroup WorkQuiz

C. PLAN OF THE WORK

Unit/ Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs
Unit I	<ul style="list-style-type: none"> The basic theory of International Trade Opportunity Costs HeckscherOhlin Theory of Trade StoplerSamuelson Theorem Rybezynski Theorem Leontief Paradox. 	18.07.22 to 22.07.22 25.07.22 to 29.07.22 01.08.22 to 05.08.22	18 Hrs	NIL
Unit II	<ul style="list-style-type: none"> Trade Gains from Trade and their Distribution Concepts of Terms of Trade uses and Limitations Foreign Trade Multiplier Meaning types and Effects (Tariffs, Quotas and non- Tariff barriers). 	08.08.22 to 13.08.22 16.08.22 to 18.08.22 22.08.22 to 27.08.22 29.08.22, 30.08.22		
Unit III	<ul style="list-style-type: none"> Meaning and Components of Balance of Payment, Equilibrium and Disequilibrium in the Balance of Payments Exchange rate Merits and Demerits of Fixed and Flexible Exchange Rates. 	01.09.22 to 03.09.22 05.09.22 to 10.09.22 12.09.22 to 17.09.22 19.09.22 to 24.09.22 25.09.22 to 30.09.22		
Unit IV	<ul style="list-style-type: none"> International Trade and Financial Institutions Role of IMF, IBRD, GATT, WTO, UNCTAD, Asian Development Bank Euro Dollar Market. 	01.10.22, 06.10.22 to 08.10.22 10.10.22 to 15.10.22 17.10.22 to		

		22.10.22 26.10.22 to 29.10.22		
Unit V	<ul style="list-style-type: none"> • Trade Policies • Concepts • Objectives • Evolution • MNC • EPZ • SEZ • Recent trade Policy of India. 	01.11.22 to 05.11.22 07.11.22 to 12.11.22 14.11.22 to 16.11.22		

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I to Unit - V CIA / Mid Semester – Unit-I ,II& Unit-III (first ½ portion) - 2 ½ Unit(August) CIA / Model Examination -Unit-I to Unit V (Oct)
Assignment	Assignment I –Unit –I and Unit –II (August) Assignment II –Unit –III and Unit – IV (Oct)
Quiz	Quiz Test - Unit I to Unit – V
Seminar	Unit –V
Tutorial Ward Meeting	Convenient Time



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A. GENERAL INFORMATION

Name of the Faculty	: Dr.V.Viji
Department	: Economics
Programme	: M .A
Programme code	: PGEA
Name of the Paper	: Advanced Micro Economic Theory I
Lecture Hours/Practical Hours	: 90 Hrs

B. ABOUT THE COURSE

Course Objectives	Course outcomes	Teaching Methodology
<ul style="list-style-type: none">• To make the students aware of applications and different theories in Micro Economics• The purpose of the course is to give students a thorough understanding of the principles of economics that apply to the decisions of individuals both consumers and producers.• To enable the students to understand price discrimination• To prepare the students to understand product, pricing model.• To make the students to know about pricing theories.	<ul style="list-style-type: none">• Explain Supply and Demand to determine changes in Market Equilibrium (price and Output).• Changes in Welfare and analyze the impact of Government Policy.• Explain Increase in the capacity the role of Market Courses in the Economy.• To capture the behavior of Micro Economics variables specifically Particular to General.• Explain value – based pricing with a focus on Consumer Behavior.• Implementation of pricing theories in practice.	<ul style="list-style-type: none">• Lecture method• PPT Presentation• Through YouTube video• Discussion method• Group• discussion

C. PLAN OF THE WORK:

Unit/Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs
Unit I	<ul style="list-style-type: none"> • Indifference curve analysis • Revealed preference Theory • Hicks Theory • Criticisms • Modern Utility Analysis • Bernollian Theory • N-M Hypothesis • Fredman Hypothesis • Criticisms 	29.8.22 -09.9.2022	18 Hrs	Nil
Unit II	<ul style="list-style-type: none"> • Cobb-douglas • CES Function • Euler's Function • Clark Model • Technical progress • Labour Saving • Capital Saving • Embodied Tecniques • Dis embodied Tecniques • Importance 	10.09.22- 20.9.2022	18 Hrs	Nil
Unit III	<ul style="list-style-type: none"> • Perfect competition • Features • Short run equilibrium • Long run equilibrium • Price determination • Monopoly • Features • Equilibrium • Price determination 	21.09.2022. to 26.9.2022	18 Hrs	Nil
Unit IV	<ul style="list-style-type: none"> • Imperfect competition • Duopoly • Features • Cournot theory • Oligopoly 	27.9.2022- 6.10.8.2022	18 Hrs	Nil

	<ul style="list-style-type: none"> • Features • Equilibrium • Cartel • Collusive • Profit maximization cartel • Market sharing cartel 			
Unit V	<ul style="list-style-type: none"> • Classical theory of pricing • New classical theory of pricing • Marginal cost pricing • Average cost pricing • Bains theory • Syloslabini Model 	26.10.2022- 10.10.2022	18 Hrs	Nil

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I to Unit - V CIA / Mid Semester – Unit-I ,II& Unit-III (first ½ portion) - 2 ½ Unit(August) CIA / Model Examination -Unit-I to Unit V (Oct)
Assignment	Assignment I –Unit –I and Unit –II (August) Assignment II –Unit –III and Unit – IV (Oct)
Quiz	Quiz Test - Unit I to Unit – V
Seminar	Unit –V
Tutorial Ward Meeting	Convenient Time



Signature of HOD



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A. GENERAL INFORMATION

Name of the Faculty	:	Dr.V.Viji
Department	:	Economics
Programme	:	B.A
Programme code	:	BEI
Name of the Paper	:	Macro Economic
Lecture Hours/Practical Hours	:	60 Hrs

B.ABOUT THE COURSE

Course Objectives	Course outcomes	Teaching Methodology
<ul style="list-style-type: none">• To make the students aware of the concepts of macro economics.• To make the students to understand the concepts of National Income Accounting.• To understand the classical and neo classical growthmodels• To prepare the students to know the theories of Employment.• To make the students to be aware of the Consumption Function.	<ul style="list-style-type: none">• What is Macro Economics and why it is important.• The National Income calculations of our economy.• The classical and neo classical growthmodels• The theories of Employment.• The concept of the Consumption Function	<ul style="list-style-type: none">• Lecture method• PPT Presentation• Through YouTube video• Discussion method• Group• discussion

C. PLAN OF THE WORK

Unit/ Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs
Unit I	<ul style="list-style-type: none"> Nature and Scope of Macro Economics –Importance and Limitations –Methods of Macro Economics -Static, Dynamic and Comparative Static 	29.8.2022 -10.9.2022	12 Hrs	Nil
Unit II	<ul style="list-style-type: none"> Definition – Concepts, Components and Importance - Methods of measuring National Income – Difficulties – Circular flow of Income – Two, Three and Four sector models 	20.9.2022- 21.09.2022	12 Hrs	Nil
Unit IV	<ul style="list-style-type: none"> The Principle of Effective Demand – Aggregate Demand Function – Aggregate Supply Function – Determinants of Effective Demand – Importance of Effective Demand – Keynes’ Under-Employment Equilibrium 	26.9.2022- 27.9.2022	12 Hrs	Nil
Unit V	<ul style="list-style-type: none"> Consumption Function Meaning – Attributes, Determinants of Consumption Function – Keynes’ Psychological Law of Consumption – Absolute Income Hypothesis, Relative Income Hypothesis, Permanent Income Hypothesis and Life Cycle Hypothesis 	26.10.2022- 10.10.2022	12 Hrs	Nil

E. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I to Unit - V CIA / Mid Semester – Unit-I,II& Unit-III (first ½ portion) - 2 ½ Unit(August) CIA / Model Examination -Unit-I to Unit V (Oct)
Assignment	Assignment I –Unit –I and Unit –II (August) Assignment II –Unit –III and Unit – IV (Oct)
Quiz	Quiz Test - Unit I to Unit – V
Seminar	Unit –V
Tutorial Ward Meeting	Convenient Time



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PG & RESEARCH DEPARTMENT OF ECONOMICS

A. GENERAL INFORMATION

Name of the Faculty	: Dr. S. Rajeswari
Department	: Economics
Programme	: M.A
Programme code	: PGEM
Name of the Paper	: Agricultural Economics
Lecture Hours/Practical Hours	: 90 Hours

B. ABOUT THE COURSE

Course Objectives	Course outcomes	Teaching Methodology
<ul style="list-style-type: none">To know the nature of Agricultural Economics.To understand the concept of Cropping Pattern.To understand the sources of Agricultural Finance.To know the channels of Agricultural MarketingTo understand the promotional strategies in Agriculture	<p>On completion of the Course, Students should be able to</p> <ul style="list-style-type: none">Know the nature of Agricultural Economics.Understand the concept of Cropping Pattern.Understand the sources of Agricultural Finance.Know the channels of Agricultural Marketing.Understand the promotional strategies in Agriculture.	<ul style="list-style-type: none">The Demonstration LessonGroup WorkQuizSeminarE-ContentE-Module

C.PLAN OF THE WORK

Unit/ Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs
Unit I	NATURE OF AGRICULTURAL ECONOMICS Nature and Scope of Agricultural Economics ✓ Features of Indian Agriculture ✓ Inter relationship between Agriculture and industry ✓ Significance of Agriculture in India ✓ Inter sectoral Linkage Agri and Agro based Industries	20.12.2022 to 13.01.2023	18 Hrs	-
Unit II	CROPPING PATTERN ✓ Meaning ✓ Factors ✓ Productivity Trends in Area Production ✓ Productivity and strategies Crop Insurance ✓ sea farming	18.01.2023 to 09.02.2023	18 Hrs	-
Unit III	AGRICULTURAL FINANCE ✓ Meaning ✓ Needs ✓ Types ✓ Source ✓ Role of Co-operatives, Commercial Bank ✓ NABARD in rural Finance Problems ✓ Institutional ✓ Non - Institutional Finance	10.02.2023 to 03.03.2023	18 Hrs	-
Unit IV	AGRICULTURAL MARKETING ✓ Marketed and marketable surplus ✓ Marketing of Agro- based Industrial Produces ✓ Agricultural marketing System ✓ Need for marketing Research ✓ Procedure for Conducting Marketing	06.03.2023 to 24.03.2023	18 Hrs	-

	Research ✓ Food Corporation of India ✓ TNCSC ✓ Agricultural Pricing Policy Marine Products Market			
Unit V	PROMOTIONAL STRATEGIES ✓ Organic fertilizers ✓ In-organic fertilizers ✓ Compost manure ✓ Bio-fertilizer ✓ Recycling of Agricultural Products - Value Addition of Agricultural Commodities ✓ Cold storage ✓ Prospects of Agricultural Business in India ✓ Marine Producers Cartels- MNCs in Fisheries Business	25.03.2023 to 24.04.2023	18 Hrs	-

C. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I to Unit - V CIA / Mid Semester – Unit-I,II& Unit-III (first ½ portion) - 2 ½ Unit(February)
Assignment	CIA / Model Examination -Unit-I to Unit V (April) Assignment I –Unit –I and Unit –II (February)
Quiz	Assignment II –Unit –III and Unit – IV (April)
Seminar	Quiz Test - Unit I to Unit – V
Tutorial Ward Meeting	Unit –V Convenient Time



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A. GENERAL INFORMATION

Name of the Faculty	:Dr.V.VIJI
Department	:ECONOMICS
Programme	:M.A
Programme Code	:PAE
Name of the Paper	: ADVANCED MICRO ECONOMIC THEORY -II
Hours	: 90 Hours

B.ABOUT THE COURSE

Course Objectives	Course Outcome	Teaching Methodology
<p>The course aims</p> <ul style="list-style-type: none">• To make the students to be aware of applications and different theories in Micro Economics.• To highlight the practical applications of economic theories in day to day life.• To make the students to understand Economics of uncertainty.• To introduce Welfare Economics.• To evaluate the Competitive firm under uncertainty	<p>On completion of the course students should be able to</p> <p>CO1:Know the distribution of returns of the Economy</p> <p>CO2: Understand the Difference between one sector and Two sector model of general Equilibrium</p> <p>CO3:Aware of Individual Behaviour of risk and gambling</p> <p>CO4:Find out the Lowest price of the Commodity Through searching Theory</p> <p>CO 5: Know the Welfare Economics</p>	<ul style="list-style-type: none">• The Demonstration Lesson• Group Work• Quiz• Seminar• E-Content• E-Module

C. PLAN OF THE WORK

Unit / Modules	Topic to be covered	Proposed date	Lecture Hours
Unit I	DISTRIBUTION <ul style="list-style-type: none"> • Macro Theories of Distribution: Functional Distribution – • Personal Distribution - Theory of Distribution: Ricardian – • Marxian- Marginal Productivity Theory of Distribution – • Kelecki Degree of Monopoly Theory – Keynesian or Kaldor Model –Sraffa Model - • Euler’s Theorem. 	20.12.2022 to 05.01.2023	18
Unit II	GENERAL EQUILIBRIUM <ul style="list-style-type: none"> • General Equilibrium - Meaning - Applications- Problems – • Existence stability and Uniqueness of Equilibrium – • Walrasian Excess Demand and Input Model - 2x2x2 model. 	6.1.2023 to 25.1.2023	18
Unit-III	ECONOMICS OF UNCERTAINTY <ul style="list-style-type: none"> • Individual Behaviour Towards Risk- Certainty Equivalence Approaches – • Risk Version -Gambling - Insurance - Problems - Choice Between Insurance and Gambling - • Asset Portfolio Selection - Markowitz Theory 	27 .01.2023 to 09.02.2023	18
Unit-IV	COMPETITIVE FIRM UNDER UNCERTAINTY <ul style="list-style-type: none"> • Theory of Search - Stigler’s Model - Rothschild’s Model - Salop’s Model • Salop and Stiglitz’s Model - Asymmetric Information – • Market Signaling - Efficient Market Hypothesis - Types - Limitations. 	28.2.2023 to 15.03.2023	18

Unit-V	WELFARE ECONOMICS	16.03.2023 to 24.04.2023	18
	<ul style="list-style-type: none"> Welfare Economics: Concepts - Old Welfare Idea - Pigou - Pareto's optimality - Social Welfare Functions - Compensation Criteria - Kaldor, Hicks criteria - Arrow's Impossibility Theorem - Market Failure & Externalities Theory of Second Best. 		

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (January) Monthly Test - Unit-II (February) CIA / Mid Semester – Unit-I - Unit-II, Unit III (First 1/2 Unit)- 2 ½ Units (February) Monthly Test– Unit –IV (March) 13.03.2023 TO 25.03.2023 CIA / Model Examination -Unit-III(Second 1/2 Unit) –Unit-IV, Unit V- 2 ½ Units
Assignment	Assignment I –Unit –I and Unit –II (January) Assignment II – Unit –III and Unit – IV (February)
Quiz	Two Mark Quiz Test - Unit I – Unit – V (April)
Seminar	Unit – I to V (end of April)
Tutorial Ward Meeting	Monthly once



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A.GENERAL INFORMATION

Name of the Faculty	: Dr.V.VIJI
Department	: ECONOMICS
Programme	: B.A
Programme Code	: UAE
Name of the Paper	: MACRO ECONOMICS -II
Hours	: 90 Hours

B.ABOUT THE COURSE

Course Objectives	Course Outcomes	Teaching Methodology
<p>The Course aims</p> <ul style="list-style-type: none">• To learn the students to understand the basic concept of macro economics.• To train the students to analyse the theories of interest• To make the students to understand the concept of general equilibrium - IS-LM function.• To know about the objectives and components of inflation• To understand the theories of Business cycle	<p>On completion of the course students should be able to</p> <ul style="list-style-type: none">• Explain what Macro Economics is and why it is important.• Understand the theories of interest.• Understand the Concept of General Equilibrium – IS-LM function• Understand the concepts of Inflation• Explain the theories of Business cycle	<ul style="list-style-type: none">• The Demonstration Lesson• Group Work• Quiz• Seminar• E-Content• E-Module

C. PLAN OF THE WORK

Unit / Modules	Topic to be covered	Proposed date	Lecture Hours
Unit I	INVESTMENT FUNCTION <ul style="list-style-type: none"> • Concepts - Keynes Theory of Investment - • Determinants - Marginal Efficiency of Capital - • Marginal Efficiency of Investment - Investment Multiplier - T • The Principle of Acceleration - • Super Multiplier. 	20.12.2022 to 05.01.2023	18
Unit II	THEORIES OF INTEREST <ul style="list-style-type: none"> • Classical Theory of Interest - • Neo Classical Theory of Interest - • Keynesian Theory of Interest 	6.1.2023 to 25.1.2023	18
Unit-III	GENERAL EQUILIBRIUM - IS-LM FUNCTION <ul style="list-style-type: none"> • Integration of Real and Monetary Sectors - • IS and LM Functions - Dynamic Shifting of IS, LM Curves - • Effectiveness of Monetary and Fiscal Policies 	27 .01.2023 to 09.02.2023	18
Unit-IV	INFLATION <ul style="list-style-type: none"> • Inflation - Meaning -Types- • Causes of Inflation -Effects of Inflation - • Measures to Control inflation - • Implications of Philips Curve. 	28.2.2023 to 15.03.2023	18

Unit-V	BUSINESS CYCLE AND MACRO ECONOMIC POLICY <ul style="list-style-type: none"> • Phases and Characteristics – • Monetary and Non Monetary Theories of Business Cycle – • Kaldor, Hicks and Samuelson – Control of Trade Cycle • Macro Economic Polices – Monetary and Fiscal policies 	16.03.2023 to 24.04.2023	18
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D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (January) Monthly Test - Unit-II (February) CIA / Mid Semester – Unit-I - Unit-II, Unit III (First 1/2 Unit)- 2 ½ Units (February) Monthly Test– Unit -IV (March)
Assignment	13.03.2023 TO 25.03.2023 CIA / Model Examination -Unit-III(Second 1/2 Unit) –Unit-IV, Unit V- 2 ½ Units
Quiz	Assignment I –Unit –I and Unit –II (January) Assignment II – Unit –III and Unit – IV (February)
Seminar	Two Mark Quiz Test - Unit I – Unit – V (April)
Tutorial Ward	Unit – I to V (end of April)
Meeting	Monthly once



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PG & RESEARCH DEPARTMENT OF CHEMISTRY

A. GENERAL INFORMATION

Name of the Faculty	: Mrs.S.Malathy
Department	: Chemistry
Programme	: B.Sc
Programme Code	: UCH
Name of the Paper	: Inorganic Chemistry
Lecture Hours / Practical Hours	: 75 Lecture Hours

B. ABOUT THE COURSE

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">• Students understand the concept of isomerism in coordination compounds their structural and magnetic properties.• Students study about the theories of coordination compounds.• Students learn about types of reactions of complexes and their mechanism and learn about Jahn teller effect and chelate effect.• Students learn about the preparation, properties, structure, bonding and uses of carbonyl, borides, carbides and nitrides.	<p>On completion of the course the learner will be able</p> <ul style="list-style-type: none">• Understand the types of ligands & isomerism.• Recognize the splitting of orbitals.• Know the importance of coordination compounds.• Recognize the structure and bonding of carbonyls and binary metallic compounds.• Predict the magnetic properties of coordination	<ol style="list-style-type: none">1. Chalk and Talk2. Power point.3. e- Module

<ul style="list-style-type: none"> Students learn about classification, preparation, properties, structure, magnetic properties and application of dipole moment of Nitrosyl Compounds 	compounds	
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C. PLAN OF THE WORK

Unit / Modules	Topic to be covered	Proposed date	Lecture Hours	Practical Hours
Unit I 15 Hrs	COORDINATION COMPOUNDS-I 1. Introduction- Types of ligands: unidentate, bidentate and poly dentate ligands, chelating ligands and chelates- IUPAC nomenclature of coordination compounds. 2. Isomerism in coordination compounds: Structural isomerism, hydrate isomerism, 3. Co-ordination isomerism, ionisation isomerism, linkage isomerism, coordination position isomerism. 4. Stereoisomerism: Geometrical isomerism of	18.07.22 to 11.08.22	3hrs 3hrs 3hrs 3hrs 3hrs	-

	<p>four and six coordinate complexes, optical isomerism of four and six coordinate complexes,</p> <p>5. Werner and sidgwick theories, methods of detecting complex formation.</p>			
<p>Unit II 15 Hrs</p>	<p>COORDINATION COMPOUNDS-II</p> <p>1. Theories of coordination compounds:</p> <p>2. Valence bond theory, limitations of valence bond theory, crystal field theory – splitting of d orbitals in octahedral, tetrahedral and square planar fields,</p> <p>3. CFSE, factors affecting CFSE, colour, geometry and magnetic properties of coordination compounds, Jahn –</p> <p>4. Teller distortion (an elementary idea).</p> <p>Molecular orbital theory : Molecular orbital diagram for $[\text{Co}(\text{NH}_3)]^{3+}$.</p> <p>5. Ligand field theory. (An elementary treatment only).</p>	<p>12.08.22 to 07.09.22</p>	<p>3hrs 3hrs 3hrs 3hrs 3hrs</p>	-

<p>Unit III 15 Hrs</p>	<p>COORDINATION COMPOUNDS-III</p> <ol style="list-style-type: none"> 1. Labile and inert complexes, stability of coordination compounds- 2. thermodynamic and kinetic stability, relationship between stepwise formation constant and overall formation constant, 3. factors affecting the stability of complexes. 4. Unimolecular and bimolecular nucleophilic substitution reactions in octahedral and square planar complexes, trans effect-theories of trans effect and applications. 5. A few biologically important coordination compounds: Chlorophyll, haemoglobin and vitamin B₁₂ 	<p>09.09.22 to 24.09.22</p>	<p>3hrs 3hrs 3hrs 3hrs 3hrs</p>	
<p>Unit IV 15 Hrs</p>	<p>CARBONYLS AND BINARY METALLIC COMPOUNDS</p> <ol style="list-style-type: none"> 1. Metal carbonyls: Mono and binuclear carbonyls of Ni, Fe, Cr, Co and 2. Mn- preparation, structure, reactions, bonding and uses. 	<p>26.09.22 to 18.10.22</p>	<p>3hrs 3hrs 3hrs 2hrs 2hrs 2hrs</p>	

	<p>3. Structure and bonding in metal alkenyl and metal alkyl complexes of $[\text{PtCl}_3(\text{C}_2\text{H}_4)]^-$,</p> <p>4. $[\text{Co}(\text{CO})_6(\text{RC}=\text{CR})]$ and ferrocene.</p> <p>5. Binary metallic compounds: borides, carbides,</p> <p>6. hydrides and nitrides- classification, preparation, properties and uses.</p>			-
<p>Unit V 15 Hrs</p>	<p>NITROSYL COMPOUNDS AND MAGNETIC PROPERTIES</p> <p>1. Nitrosyl compounds: Classification- nitrosyl chloride and</p> <p>2. sodium nitroprusside- preparation, properties and structure.</p> <p>3. Magnetic properties- meaning of the terms- magnetic susceptibility- magnetic moment-</p> <p>4. types of magnetism- Gouy balance- applications of magnetic properties</p> <p>5. Dipole moment- determination, application in the study of simple inorganic molecules.</p>	<p>19.10.22 to 08.11.22</p>	<p>3hrs 3hrs 3hrs 3hrs 3hrs</p>	

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I & IV (September) CIA / Mid Semester – Unit-I ,II& Unit-III(First ½ Portion) - 2 ½ Unit(September) CIA / Model Examination -Unit-III (Second 1/2 Unit) , Unit IV& Unit-V- 2 ½ Units (November)
Assignment	Assignment I –Unit –I and Unit –II (September) Assignment II – Unit –III and Unit – IV (November)
Quiz	Two Mark Quiz Test - Unit I to Unit – V (November)
Seminar	Unit –V (November)
Tutorial Ward	Monthly once
Meeting	



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A. GENERAL INFORMATION

Name of the Faculty : Dr. N. Prabha
Department : Chemistry
Programme : B.Sc
Programme Code : UCH
Name of the Paper : Physical Chemistry – I
Lecture Hours / Practical Hours : 90 Lecture Hours.

B. ABOUT THE COURSE

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">• Students gain knowledge in Photo chemistry and Group theory.• Students understand the efficient way of converting work into energy and vice versa from the thermodynamic perspective.• Students get to know the energy changes involved in the natural and the industrial processes – that are the applications of thermodynamics.• Students understand the method of enhancing the efficiency of the certain industrial processes.• Students learn about solutions, their types, colligative properties, effect of added salt and molecular weight determination.	<ul style="list-style-type: none">• Learn about Photochemistry• Predict the symmetry elements and symmetry operations• Apply the concept of Second law of thermodynamics• Know the partial molar quantities.• Recognize the component system using phase rule.	<ol style="list-style-type: none">1. Chalk and Talk2. Power point.3. e- Module

C. PLAN OF THE WORK

Unit / Modules	Topic to be covered	Proposed date	Lecture Hours	Practical Hours
Unit I 18 Hrs	<p>1. Consequences of light absorption- Jablonski diagram- radiative and non-radiative transitions. Lambert's Beer law, quantum efficiency.</p> <p>2. Photochemical reactions- Comparison between thermal and photochemical reactions. Photosensitization and quenching. Fluorescence, Phosphorescence and chemiluminescence.</p> <p>3. Laser and uses of lasers</p> <p>4. Group theory- symmetry elements and symmetry operation- group postulates and types of groups- abelian and non abelian- symmetry operation of H₂O molecule.</p> <p>5. Illustration of group postulates using symmetry operation of H₂O molecule- construction of multiplication table for the operation of H₂O molecules</p> <p>6. Point group- definition- elements symmetry operations of the following molecules- H₂O, BF₃ and NH₃.</p>	18.07.22 to 11.08.22	3 hrs 3 hrs 4 hrs 3 hrs 5 hrs	-
Unit II 18 Hrs	<p>1. Second law of thermodynamic – need for the law – different statements of the law- Carnot cycle and efficiency of heat engine- Carnot's theorem- thermodynamic scale of temperature.</p> <p>2. Concept of entropy- definition and physical significance of entropy- entropy as a</p>	12.08.22 to 07.09.22	5 hrs 4 hrs 4 hrs. 5hrs	-

	<p>function of P,V and T – entropy changes during phase changes – entropy of mixing- entropy criterion for spontaneous and equilibrium processes in isolated system.</p> <p>3.Gibb’s free energy(G) and Helmholtz free energy (A)- variation of A and G with P,V and T-Gibb’s- Helmholtz equation and its applications.</p> <p>Thermodynamics equation of state,</p> <p>4. Maxwell’s relations-A and G as criteria for spontaneity and equilibrium.</p>			
<p>Unit III 18 Hrs</p>	<p>1.Equilibrium constant and free energy change- thermodynamic derivation of law of mass action- equilibrium constants in terms of pressure and concentration-NH₃,PCl₅ and CaCO₃.</p> <p>Thermodynamic interpretation of Lechatelier’s principle (Concentration, temperature, pressure and addition of inert gases).</p> <p>2.System variables composition- partial molar quantities- chemical potential- variation of chemical potential with T, P and X (mole fraction)- Gibb’s Duhem equation.</p> <p>3.Van’t Hoff’s reaction isotherm- van’t Hoff’s isochore. Clapeyron equation and Clausis- Clapeyron equation-applications.</p> <p>4.Third law of thermodynamics- Nernst heat theorem. Statement of III law and concept of residual entropy- evaluation of absolute</p>	<p>09.09.22 to 24.09.22</p>	<p>4 hrs 4 hrs 4 hrs 3 hrs 3 hrs</p>	-

	entropy from heat capacity data.			
Unit IV 18 Hrs	<p>1.Phase Rule – Phase, Component & Degree of Freedom. Gibbs Phase Rule.</p> <p>2.Phase equilibria of one component – Water, Carbondioxide and Sulphur.</p> <p>3.Phase equilibria of two component systems- Solid – Liquid equilibria – Bi – Cd system & Desilveration of Lead.</p> <p>4.Compound formation with congruent and incongruent melting point. Freezing mixtures.</p> <p>5.FeCl₃- Water system, Copper Sulphate – Water system. Efflorescence and Deliquescence.</p>	26.09.22 to 18.10. 22	4 hrs 4 hrs 3 hrs 3 hrs 4 hrs	-
Unit V 18 Hrs.	<p>1.Solutions- Solute, Solvent and solution – Ideal and non-ideal solution. Laws of solution- Raoult's law & Henry's law. Deviation of Raoult's and Henry's law.</p> <p>2.Gibbs Duhem Equation. Miscible liquids – benzene & toluene system.</p> <p>3.Fractional distillation. Azeotropes- HCl-water and ethanol-water system.</p> <p>4.Partially miscible liquids- phenol-water, triethylamine-water and nicotine- water systems. Lower and upper CSTs- effect of impurities on CST.</p> <p>5. Nernst distribution law, derivation.</p> <p>6. Colligative properties- relative lowering of vapour pressure & osmotic pressure. Colligative properties-derivation of elevation</p>	19.10.22 to 08.11.22	2hrs 3hrs 3hrs 3hrs 3hrs 4hrs	-

	of boiling point and depression in freezing point			
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D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I & IV (September) CIA / Mid Semester – Unit-I ,II& Unit-III(First ½ Portion) - 2 ½ Unit(September) CIA / Model Examination -Unit-III (Second 1/2 Unit) , Unit IV& Unit-V- 2 ½ Units (November)
Assignment	Assignment I –Unit –I and Unit –II (September) Assignment II – Unit –III and Unit – IV (November)
Quiz	Two Mark Quiz Test - Unit I to Unit – V (November)
Seminar	Unit –V (November)
Tutorial Ward Meeting	Monthly once



Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty :Dr.J.Bhuvana
Department :Chemistry
Programme :B.Sc
Programme Code :UCH
Name of the Paper :Analytical Chemistry
Lecture Hours / Practical Hours : 75 Lecture Hours.

B. ABOUT THE COURSE

Course Objectives	Course Outcomes	Teaching Methodology
1. To know the storage and handling of various chemicals and first aid procedures. 2. To learn data analysis, various separation techniques. 3. To learn gravimetric analysis and various thermo analytical methods. 4. To learn Colorimetry fast reactions	1.Aware of Laboratory hygiene and safety. 2.Predict the data analysis in analytical techniques 3.Learn about separation and purification techniques. 4.Recognize the thermo analytical methods such as TGA,DTA and analytical electrochemistry. 5.Understand the colorimetric analysis and techniques in kinetics.	1. Chalk and Talk 2. Power point. 3. e- Module

C. PLAN OF THE WORK

Unit / Modules	Topic to be covered	Proposed date	Lecture Hours	Practical Hours
Unit I 15 Hrs	• Laboratory Hygiene and safety: Storage and handling of corrosive, flammable, explosive	18.07.2022 to 10.08.2022	3 Hrs 4 Hrs 4 Hrs 4 Hrs	

	<p>chemicals</p> <ul style="list-style-type: none"> • Storage and handling of toxic, carcinogenic and poisonous chemicals. • Simple first aid procedure from accidents :Acid in eye, alkali in eye, acid burns, alkali burns bromine burns • Poisoning, inhalation of gases, cut by glasses and heat burns. 			-
<p>Unit II 15 Hrs</p>	<ul style="list-style-type: none"> • Data Analysis: Errors in chemical analysis • Classification of errors, determinate errors, instrumental errors, personal errors, constant errors, and proportional errors • Correction of determinate errors, random errors. • Precision and accuracy • Rejection of data questioned. Significant figures. • Mean and standard deviation. Curve fitting. 	<p>11.08.2022 to 24.08.2022</p>	<p>2 hrs 3 Hrs 2 Hrs 2Hrs 3 Hrs 3Hrs</p>	-

<p>Unit III 15 Hrs</p>	<ul style="list-style-type: none"> • Separation and purification techniques • General principles involved in the separation of precipitates. • Solvent extraction • Chromatography: Principles involved in adsorption, partition and ion exchange, paper • Thin layer, Column, Gas chromatography • Electrophoresis applications. 	<p>25.08.2022 to 16.09.2022</p>	<p>2Hrs 3 Hrs 2 Hrs 3 Hrs 3 Hrs 2 Hrs</p>	<p>-</p>
<p>Unit IV 15 Hrs</p>	<ul style="list-style-type: none"> • Thermo analytical Methods - Principals involved in TGA and DTA - instrumentation. Characteristics of TGA ($\text{CaC}_2\text{O}_4 \cdot \text{H}_2\text{O}$, $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$) and DTA curve ($\text{CaC}_2\text{O}_4 \cdot \text{H}_2\text{O}$). • Factors affecting TGA and DTA curves. • Thermometric titration of HCl Vs NaOH • Analytical Electrochemistry - Redox potential - 	<p>27.09.2022 to 15.10.2022</p>	<p>3 Hrs 2 Hrs 2 Hrs 2 Hrs 3 Hrs 3 Hrs</p>	<p>-</p>

	<p>measurement and applications.</p> <ul style="list-style-type: none"> • Interpretation of chemical behaviour. • Electrolytic separations. • Principles of Electrodeposition. • Electro gravimetric (estimation of Cu and Ag). 			-
<p>Unit V 15 Hrs</p>	<ul style="list-style-type: none"> • Colorimetric analysis : Laws of colorimetry – instrumentation. • Nessler’s and photoelectric colorimetric method-operation and application. • Estimation of Ni, Cu and Fe. • Techniques in kinetics • Principles and techniques used to follow the kinetics of ordinary reactions • Principles and techniques used to follow the kinetics of fast reactions • Principles and 	<p>16.10.2022 to 09.11.2022</p>	<p>2 Hrs 2 Hrs 2 Hrs 3 Hrs 3 Hrs 3 Hrs</p>	-

	techniques used to follow the kinetics of photochemical reactions			
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D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (August) CIA / Mid Semester – Unit-I, II & III (first ½ portion)- 2 ½ Unit (September) CIA / Model Examination -Unit-III(Second 1/2 Unit) , Unit IV & Unit-V- 2 ½ Units (November)
Assignment	Assignment I –Unit –I and Unit –II (September) Assignment II- Unit –III and Unit – IV (October)
Quiz	Two Mark Quiz Test - Unit I – Unit – V (November)
Seminar	Unit –V (November)
Tutorial Ward Meeting	Monthly once



Signature of Principal



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Nagapattinam -611 001

TamilNadu.



PG & RESEARCH DEPARTMENT OF CHEMISTRY

A. GENERAL INFORMATION

Name of the Faculty	: Dr. N. Prabha
Department	: Chemistry
Programme	: B.Sc
Programme Code	: QUC
Name of the Paper	: General Chemistry – II
Lecture Hours / Practical Hours	: 90 Lecture Hours

B. ABOUT THE COURSE

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">To understand the principles of bonding and theories of chemical bonding.To understand the chemistry of S-block elements and metallurgy of zero group elements.To understand the aromatic character of benzene type molecules and to learn the reaction mechanisms involved in haloalkanes and halobenzenes.To learn the mechanism of Nucleophilic substitution and Elimination reactionsTo understand about the properties of atoms,	<ul style="list-style-type: none">The learners are able to predict the geometry of molecule.To equip the learners with concepts of s block elements through comparative study.To know about the reaction mechanisms of aromatic and heterocyclic compounds.To know about the chemistry of Halogens.To know the fundamental concepts of atomic structure and basics of quantummechanic	<ol style="list-style-type: none">Chalk and TalkPower point.e- Module

characteristics, effect of radiations and the significance of wave functions.		
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C. PLAN OF THE WORK

Unit / Modules	Topic to be covered	Proposed date	Lecture Hours	Practical Hours
Unit I 18 Hrs	<p>1. Ionic bond - formation, variable electrovalency - Lattice energy, Born - Haber Cycle.</p> <p>2. Covalent bond - formation, variable covalency, maximum covalency, covalent character in ionic bond- Fajans Rule. Polarisation - partial ionic character of a covalent bond.</p> <p>3. VB theory, MO theory - Basic principles of bonding and antibonding orbitals, applications of MOT to H₂, He₂, N₂ & O₂ - molecular orbital sequence, comparison of VB & MO Theories.</p> <p>4. Hybridisation - Formation of BeCl₂ & BCl₃. VSEPR theory of simple inorganic molecules - BeCl₂, SiCl₄, PCl₅, SF₆, IF₇, XeF₆, BF₃ & H₂O.</p> <p>5. Hydrogen bonding - Intermolecular & Intramolecular H₂ -bonding and consequences.</p>	14.12.22 to 11.01.23	3 hrs 5hrs 5 hrs 3hrs 2hrs	-
Unit II 18 Hrs	1. General characteristics of s-block elements - comparative study of elements - alkali metals and their hydroxides, oxides and	18.01.23 to 09.02.23	5hrs 4hrs 5hrs	-

	<p>halides, alkaline earth metals and their oxides, carbonates and sulphates.</p> <p>2. Diagonal relationship of Li & Mg, Be & Al, chemistry of NaOH, KI & $Mg(NH_4)PO_4$.</p> <p>3. Metallurgy : Occurrence of metals - concentration of ores - froth floatation, magnetic separation, calcination, roasting, smelting, flux, aluminothermic process, purification of metals - electrolysis, zone refining, van Arkel de-Boer process.</p> <p>4. Zero group elements - position in the periodic table, occurrence, isolation, applications, compounds of Xe - XeF_6 & $XeOF_4$.</p>		4hrs	
<p>Unit III 18 Hrs</p>	<p>1. Aromaticity - Huckel's rule - structure of benzene - Benzene-preparation, chemical properties and uses. Aromatic electrophilic substitution reactions and mechanism - Orientation and reactivity in substituted benzenes.</p> <p>2. Polynuclear aromatic hydrocarbons - Nomenclature, Naphthalene from coal tar and petroleum - Laboratory preparation, Structure of Naphthalene, Aromatic character, Physical properties, Chemical properties, Uses. Mechanism of Aromatic electrophilic substitution - Theory of orientation and reactivity.</p> <p>3. Anthracene, Phenanthrene from coal tar and petroleum, Laboratory preparation, Molecular Orbital structures, Aromatic Characters,</p>	<p>10.02.23 to 28.02.23</p>	<p>6hrs 6hrs 6hrs</p>	-

	Physical Properties, Chemical properties and uses. Preparation of biphenyls, Physical and Chemical properties and uses			
Unit IV 18 Hrs	<p>1.Nomenclature of haloalkanes – structure - general preparations of haloalkanes - physical and chemical properties and uses.</p> <p>2.Nucleophilic aliphatic substitution reaction mechanisms (S_N1 and S_N2) – Stereochemical aspects.</p> <p>3.Halobenzenes: Theory of orientation and reactivity - general preparation – properties - uses.</p> <p>4.Electrophilic and nucleophilic aromatic substitution reaction mechanisms.</p>	01.03.23 to 20.03.23	6hrs 3hrs 6hrs 3hrs	-
Unit V 18 Hrs	<p>1.Rutherford's and Bohr's model an atom- Bohr's theory and origin of hydrogen spectrum.</p> <p>2.Sommerfield's extension of Bohr's theory.</p> <p>3.Electromagnetic radiation- definitions for, ν and velocity.</p> <p>4.Dualism of light -Particle nature of radiation- black body radiation and Planck's quantum theory,</p> <p>5.photoelectric effect and Compton effect of matter. De Broglie hypothesis and Davisson and Germer experiment. 6.Heisenberg's uncertainty principle. Schrodinger wave equation (Derivation not needed). Physical significance of T and Ψ^2.</p>	21.03.23 to 06.04.23	3hrs 2hrs 2hrs 3hrs 3hrs 5hrs	

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I & II (January & February) CIA / Mid Semester – Unit-I,II & Unit-III (February) CIA / Model Examination -Unit-III (Second 1/2 Unit) , Unit IV & Unit-V- 2 ½ Units (April)
Assignment	Assignment I –Unit –I and Unit –II (February) Assignment II – Unit –III and Unit – IV (March)
Quiz	Two Mark Quiz Test - Unit I to Unit – V (April)
Seminar	Unit –V (April)
Tutorial Ward Meeting	Monthly once



Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty	: Dr. J.Bhuvana
Department	: Chemistry
Programme	: B.Sc
Programme Code	: QUK
Name of the Paper	: Organic Chemistry - I
Lecture Hours / Practical Hours	: 90 Lecture Hours

B. ABOUT THE COURSE

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">• Students learn the Chemistry of Sugars.• Students learn the Chemistry of Amino acids, Nucleic acids and Vitamins.• Students study the Chemistry of Alkaloid and Terpenoid.• Students learn the molecular rearrangement and its mechanism.• Students learn the basic concept of UV-Visible , IR and NMR spectroscopy	<ul style="list-style-type: none">• The classification, properties, structure and configuration of mono, di and polysaccharides.• The chemistry of proteins and vitamins.• The importance of alkaloids and terpenoids• Predicting the molecular rearrangements with its types and mechanism• The fundamental principles of UV-Vis, IR and NMR spectroscopy.	<ol style="list-style-type: none">1. Chalk and Talk2. Power point.3. e- Module

C. PLAN OF THE WORK

Unit / Modules	Topics to be covered	Proposed date	Lecture Hours	Practical Hours
Unit - I 18 hrs	CHEMISTRY OF CARBOHYDRATES 1.Carbohydrate- classification, properties of mono saccharides (glucose and fructose) 2.Structure and configuration of mono saccharides, interconversion. 3.Ascending and descending series, muta rotation,Epimerization 4.Cyclic structure- determination of size of sugar rings. 5.Disaccharides- sucrose, maltose- structure elucidation 6.polysaccharide- starch and cellulose(elementary treatment).	14.12.22 to 11.01.23	3 hrs 3 hrs 3 hrs 3 hrs 3 hrs	-
Unit - II 18 hrs	CHEMISTRY OF PROTEINS AND VITAMINS 1.Amino acids- Zwitter ion- isoelectric point – general methods of preparation and reactions of amino acids. 2.Peptides- Peptide linkages- proteins- classification of proteins. 3.Structure of proteins- primary structure- end group analysis- Edman method- secondary structure- tertiary structure- denaturation- colour reactions of proteins. 4.Nucleic acids- elementary treatment of	18.01.23 to 09.02.23	3 hrs 3 hrs 3 hrs 3 hrs 3 hrs	-

	DNA and RNA. 5. Vitamins-classification, structure and biological importance of vitamins A, B ₁ , B ₂ 6. Structure and biological importance of vitamins B ₆ , B ₁₂ and C.			
Unit - III 18 hrs	CHEMISTRY OF ALKALOIDS AND TERPENOIDS 1. Chemistry of natural products- alkaloids- classification, isolation. 2. Methods for synthesis of coniine & piperine 3. Methods for synthesis of nicotine and quinine. 4. Terpenoids- classification- isoprene, special isoprene rule. 5. Methods for synthesis of citral & limonene. 6. Methods for synthesis of menthol & camphor.	10.02.23 to 28.02.23	3 hrs 3 hrs 3 hrs 3 hrs 3 hrs	-
Unit -IV 18 hrs	MOLECULAR REARRANGEMENTS 1. Molecular rearrangements- types of rearrangement (nucleophilic and electrophilic) 2. Mechanism with evidence for the following re-arrangement : pinacol-pinacolone. 3. Benzil-benzilic acid, Benzidine rearrangements. 4. Claisen, Fries rearrangements. 5. Hofmann. Curtius rearrangements.	01.03.23 to 20.03.23	3 hrs 3 hrs 3 hrs 3 hrs 3 hrs	-

	6.Lossen, Beckmann and dienone-phenol rearrangements.			
Unit - V 18 hrs	<p>SPECTROSCOPY</p> <p>1.UV - VIS spectroscopy - types of electronic transitions – Instrumentation- solvent effects on λ max.</p> <p>2. Woodward - Fieser rules for calculation of λ max : dienes only – bathochromic shift and hypsochromicshift.</p> <p>3.IR spectroscopy - number and types of fundamental vibrations – selection rules- modes of vibrations and their energies.</p> <p>4.Instrumentation - position of IR absorption frequencies for functional groups like aldehyde, ketone, alcohol, acid, amine andamide.</p> <p>5.NMRspectroscopy-principle-chemicalshift-factors affecting the chemicalshift- inductive effect and hydrogen bonding - TMS, delta scales, splitting of signals - spin-spin coupling.</p> <p>6. NMR spectrum of EtOH, n -propyl bromide and isopropyl bromide</p>	21.03.23 to 06.04.23	3 hrs 3 hrs 3 hrs 3 hrs 3 hrs	-

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I & II (January & February) CIA / Mid Semester – Unit-I,II & Unit-III (February) CIA / Model Examination -Unit-III (Second 1/2 Unit) , Unit IV & Unit-V- 2 ½ Units (April)
Assignment	Assignment I –Unit –I and Unit –II (February) Assignment II – Unit –III and Unit – IV (March)
Quiz	Two Mark Quiz Test - Unit I to Unit – V (April)
Seminar	Unit –V (April)
Tutorial Ward Meeting	Monthly once


Signature of Principal



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PG & RESEARCH DEPARTMENT OF MATHEMATICS

A. GENERAL INFORMATION

Name of the Faculty	:	Dr. N. Sarala
Department	:	Mathematics
Programme	:	M. Sc
Programme Code	:	PSM
Name of the Paper	:	Measure and Integration
Lecture Hours / Practical Hours	:	90 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">❖ To generalize the concept of integration using measures.❖ To develop the concept of analysis in abstract situations.❖ To introduce the concepts of measure on real line, integration of non-negative functions.❖ To study about abstract measure spaces and Product measure spaces.❖ To analyse about L_p-Spaces and Signed measure.	<p>On completion of the course, students should be able to</p> <ul style="list-style-type: none">❖ Acquire the concept of Lebesgue measure, measurable set.❖ Understand the concept of integration of non-negative functions.❖ Demonstrate Hahn decomposition theorem and Fubini's theorem.❖ Analyze the properties of L_p-spaces and Signed measure space.❖ Apply measurability in product spaces.	<ul style="list-style-type: none">❖ Power Point❖ E - Module❖ Chalk & Talk Method❖ Lecture Method,❖ Laboratory Method❖ Project Method,❖ Problem Solving Method

C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ❖ Measure on Real line ❖ Lebesgue outer measure ❖ Measurable sets ❖ Regularity ❖ Measurable function . 	18.07.2022 To 14.08.2022	4 Hrs 4 Hrs 4 Hrs 3 Hrs 3 Hrs	-	-
Unit II Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ❖ Integration of non-negative functions ❖ The General integral ❖ Integration of series. 	15.08.2022 To 14.09.2022	6Hrs 6 Hrs 6 Hrs	-	-
Unit III Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ❖ Abstract Measure spaces ❖ Measures and outer measures ❖ Completion of a measure ❖ Measure spaces ❖ Integration with respect to a measure. 	15.09.2022 To 23.09.2022	4 Hrs 4 Hrs 4 Hrs 3 Hrs 3 Hrs	-	-
Unit IV Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ❖ Convergence in Measure ❖ Almost uniform convergence ❖ Signed Measures and Halin Decomposition ❖ The Jordan Decomposition 	25.09.2022 To 30.10.2022	5 Hrs 5 Hrs 4 Hrs 4 Hrs	-	-

Unit V Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	❖ Measurability in a Product space ❖ The product Measure and Fubini's Theorem.	01.11.2022 To 15.11.2022	9 Hrs 9 Hrs	-	-
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D. ACTIVITIES:

Activities Name	Details
Test	08.08.22, 07.09.22, 12.09.22, 16.09.22, 15.10.22, 25.10.22, 7.11.22
Assignment	12.08.22, 19.09.22, 15.10.22, 18.11.22
Quiz	25.10.22, 14.11.22
Seminar	-
Mentor Mentee Meeting	Every Saturday

Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty : Mrs.R.Vanitha
Department : Mathematics
Programme : M.Sc Mathematics
Programme Code : PSM
Name of the Paper : Algebra
Lecture Hours : 90 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
Course Objectives: 1. To know advanced concepts of Group Theory. 2. To study about the Polynomial Rings over rational Fields. 3. To learn about dual spaces. 4. To acquire the knowledge of extension fields related with Polynomials. 5. To Study about the elements of Galois Theory and Finite Fields.	Learners will be able to 1. Understand Sylow's theorem and its applications. 2. Analyze the various types of polynomials. 3. Develop the knowledge over modules. 4. Evaluate the roots and characteristics of polynomials. 5. Apply finite fields in Galois Theory	<ul style="list-style-type: none">❖ Power Point❖ E - Module❖ Chalk & Talk Method❖ Lecture Method❖ Discussion Method❖ Study Assignment Method,❖ Problem Solving Method❖ Seminar Method

C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ❖ Conjugacy ❖ Cauchy's Theorem for abelian Group ❖ Sylow's Theorems 	01.09.2022 to 19.09.2022	6 Hrs 6 Hrs 6 Hrs	-	-
Unit II Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ❖ Polynomial rings. ❖ Polynomial rings over rational field. ❖ Polynomial rings over Commutative rings. 	20.09.2022 to 12.10.2022	6 Hrs 6 Hrs 6 Hrs	-	-
Unit III Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ❖ Dual spaces ❖ Inner Product Space ❖ Modules. ❖ Fundamental theorem on finitely Generated modules 	13.10.2022 to 13.11.2022	5 Hrs 4 Hrs 4 Hrs 5 Hrs	-	-
Unit IV Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ❖ Extension fields ❖ Roots of polynomials ❖ More About Polynomials. 	14.11.2022 to 30.11.2022	6 Hrs 6 Hrs 6 Hrs	-	-
Unit V Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ❖ The Elements of Galois Theory ❖ Fixed field ❖ Normal extension ❖ Fundamental theorem of Galois elements 	01.12.2022 to 17.12.2022	4 Hrs 4 Hrs 3 Hrs 4 Hrs 3 Hrs	-	-

	❖ Finite fields				
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D. ACTIVITIES:

Activities Name	Details
Test	Unit Test Date 20.09.2022,1.10.2022,20.10.22,10.11.22
Assignment	27.09.2022, 29.10.2022,29.11.2022
Quiz	28.10.2022 and 29.11.2022(Objective Type Questions)
Seminar	2.10.2022 to 20.11.2022
Tutor Ward Meeting	EVERY SATURDAY



Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty	:	Mrs.M.Prabavathy
Department	:	Mathematics
Programme	:	B.Sc
Programme Code	:	BSM
Name of the Paper	:	Real Analysis
Lecture Hours	:	90 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
1. To introduce Real Number System 2. To explore the concepts of neighborhoods and its related parameters. 3. To define continuous functions 4. To define Derivative and algebra of derivatives 5. To derive mean value theorems	Learners will be able to 1. state the nature of number system and field axioms 2. define open sets, closed sets, limit points, closure and interior of a set, compactness and connectedness 3. differentiate continuous and discontinuous functions, uniform continuous functions. 4. state derivative function and Darboux's theorem 5. prove intermediate value theorems	❖ Power Point ❖ E – Module ❖ Chalk & Talk Method ❖ Lecture Method ❖ Discussion Method ❖ Study Assignment Method, ❖ Problem Solving Method ❖ Seminar Method ❖ Demonstration Method

C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ❖ Absolute value in R ❖ Supremum and Infimum of a set ❖ Some Subsets of R ❖ Countable and Uncountable sets. 	18.07.2022 to 08.08.2022	4 Hrs 5 Hrs 4 Hrs 5 Hrs	-	-
Unit II Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ❖ Types Continuity of Functions ❖ Types of discontinuous functions ❖ Algebra of Continuous functions ❖ Intermediate Value theorem ❖ Inverse function theorem and Uniform continuity of a function. 	09.08.2022 to 31.08.2022	4 Hrs 3 Hrs 3 Hrs 4 Hrs 4 Hrs	-	-
Unit III Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ❖ Derivability ❖ Algebra of derivatives ❖ Inverse function theorem ❖ Darboux theorem 	01.09.2022 to 20.09.2022	5 Hrs 5 Hrs 4 Hrs 4 Hrs	-	-
Unit IV Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ❖ Rolle's Theorem ❖ Mean value theorems on derivatives ❖ Taylor's theorem with remainder 	21.09.2022 to 19.10.2022	6 Hrs 6 Hrs 6 Hrs	-	-
Unit V	❖ Riemann integration:	20.10.2022 to	5 Hrs	-	-

Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	Definition and Darboux's theorem ❖ Conditions of Integrability: integrability of continuous and monotonic functions ❖ Properties of Integrable functions ❖ Integral functions, Continuity and derivability of Integral functions, The first Mean value Theorem, fundamental theorem of integral calculus.	10.11.2022	4 Hrs 4 Hrs 5 Hrs		
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D. ACTIVITIES:

Activities Name	Details
Test	Unit Test Date
Assignment	14.8.2022,24.09.2022,17.10.2022,03.11.2022
Quiz	20.8.2022,27.9.2022, 19.10.2022
Seminar	3.10.2022, 09.11.2022(TwoMark Questions) 06.10.2022 To 06.11.2022
Tutor Ward Meeting	Monthly Once
Mentor Mentee Meeting	Weekly Once
Value Added Course	Weekly Once



Signature of Principal



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PG & RESEARCH DEPARTMENT OF MATHEMATICS

A. GENERAL INFORMATION

Name of the Faculty	:	Dr. N.Sarala
Department	:	Mathematics
Programme	:	M.Sc
Programme Code	:	PSM
Name of the Paper	:	Fuzzy sets and its Applications
Lecture Hours / Practical Hours	:	90 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">❖ To introduce the fundamental of Fuzzy Set Theory and its connection with Fuzzy Logic.❖ To Particular emphasis is given to a comprehensive coverage of operations on fuzzy sets.❖ To Analyse the various types of Fuzzy Arithmetic Operations.❖ To introduce the various relations of fuzzy Relations.❖ The concept of fuzzy measure is introduced.	<p>On completion of the course, the student will be able to</p> <ul style="list-style-type: none">❖ understand the concept of fuzzy theory and its application in real life problems.❖ acquire the knowledge about the uncertainty environment through the fuzzy sets that incorporates imprecision and subjectivity into the model formulation and solution process.❖ understand the concept of fuzzy numbers and linguistic variables to solving the uncertainty problems.❖ concepts and properties of crisp relations are discussed and to demonstrate their generalized application to fuzzy relations.❖ the concept of fuzzy measure provides general frame work for dealing with ambiguity.	<ul style="list-style-type: none">❖ Power Point❖ E – Module❖ Chalk & Talk Method❖ Lecture Method,❖ Laboratory Method❖ Project Method,❖ Problem Solving Method

C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I Assignment 3Hrs	<ul style="list-style-type: none"> ❖ Basic Concepts of Crisp sets and Fuzzy set ❖ Additional Properties of α – cut ❖ Representation of Fuzzy Set ❖ Extension Principles for Fuzzy set 	20.12.2022 to 10.01.2023	4 Hrs 3 Hrs 4 Hrs 4 Hrs	-	-
Unit II Assignment 3Hrs	<ul style="list-style-type: none"> ❖ Types of operations ❖ Fuzzy complements ❖ Fuzzy Intersection: t-Norms ❖ Fuzzy Unions: t-Conorms. ❖ Combinations of Operations 	11.01.2023 to 06.02.2023	4 Hrs 4 Hrs 4 Hrs 3 Hrs	-	-
Unit III Assignment 3Hrs	<ul style="list-style-type: none"> ❖ Fuzzy numbers ❖ Linguistic variables ❖ Arithmetic operations on intervals ❖ Arithmetic operations on Fuzzy numbers. 	07.02.2023 to 28.02.2023	4 Hrs 4 Hrs 4 Hrs 3 Hrs	-	-
Unit IV Assignment 3Hrs	<ul style="list-style-type: none"> ❖ Binary Fuzzy Relations ❖ Binary Relations on a Single Set ❖ Fuzzy Equivalence Relations 	01.03.2023 to 20.03.2023	3 Hrs 3 Hrs 3 Hrs 3 Hrs	-	-

	❖ Fuzzy Compatibility Relations ❖ Fuzzy Ordering Relations.				
Unit V Assignment 3Hrs	❖ Individual Decision Making ❖ Multi person Decision Making ❖ Fuzzy Ranking Method ❖ Fuzzy Linear Programming	21.03.2023 to 06.04.2023	4 Hrs 4 Hrs 4 Hrs 3 Hrs	-	-

D. ACTIVITIES:

Activities Name	Details
Test	Unit Test Date 05.01.2023, 10.02.2023, 13.03.2023,
Assignment	10.04.2023
Quiz	20.01.2023, 14.02.2023, 10.03.2023
Seminar	03.04.2023
Tutor Ward Meeting	14.03.2023, 15.03.2023, 18.03.23
	Every Saturday

Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty : Dr.R.Vanitha
 Department : Mathematics
 Programme : B.Sc
 Programme Code : UM
 Name of the Paper : Graph Theory
 Lecture Hours : 90 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
1.To know about graph, paths and circuits 2..To understand the concept of Trees and fundamental circuits. 3.To identify cut-sets and cut-vertices in a graph. 4. To gain the knowledge of Planar and Dual graphs 5. To know the concept of matrix representation of graphs and coloring	Learners will be able to 1.Define Basic Concepts of graph theory and present proofs for the most important theorems. 2. Compute spanning trees cut-sets and cut-vertices. 3. Identify planar graphs. 4.understand the Dual graphs and matrix representation of graphs 5. Enumerate chromatic number and colouring of graphs	<ul style="list-style-type: none"> ❖ Power Point ❖ E – Module ❖ Chalk & Talk Method ❖ Lecture Method ❖ Discussion Method ❖ Study Assignment Method, ❖ Problem Solving Method ❖ Seminar Method ❖ Demonstration Method

C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ❖ Definition of graphs and examples ❖ Paths and circuits ❖ Euler Graphs ❖ Hamiltonian paths and circuits 	20.12.2023 to 05.01.2023	5 Hrs 4 Hrs 5Hrs 4 Hrs	-	-
Unit II Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ❖ Trees and some properties ❖ Distance and centers in a tree ❖ Spanning trees ❖ Fundamental circuits and cut-sets 	07.01.2023 to 06.02.2023	4 Hrs 5Hrs 5Hrs 4Hrs	-	-
Unit III Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ❖ Cut-sets and some properties ❖ Fundamental circuits ❖ Connectivity and separability ❖ Network flow 	07.02.2023 to 28.02.2023	5 Hrs 5 Hrs 4 Hrs 4Hrs	-	-
Unit IV Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ❖ Planar graphs ❖ Kuratowski's two graphs ❖ Detection of planarity ❖ Geometric Dual 	01.03.2023 to 20.03.2023	4Hrs 5Hrs 5 Hrs 4Hrs	-	-
Unit V Content- 15 Hrs, Assessment -3 Hrs	<ul style="list-style-type: none"> ❖ Incidence matrix ❖ Circuit matrix and cut-set matrix 	21.03.2023 to 12.04.2023	4 Hrs 5Hrs 4Hrs	-	-

Total - 18 Hrs	❖ Chromatic number and polynomial ❖ matchings		5Hrs		
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D. ACTIVITIES:

Activities Name	Details
Test	Unit Test Date: 21.01.2023, 05.02.2022,28.03.2023,15.4.23
Assignment	15.02.2023, 10.03.2023, 18.04.2023
Quiz	01.02.2023,19.03.2023
Seminar	23.01.2023,11.02.2023,22.03.2023,10.04.2023
Mentor/Tutor Ward Meeting	Weekly Once

Signature of Principal

A.GENERAL INFORMATION

Name of the Faculty	:	Dr.R.VANITHA
Department	:	Mathematics
Programme	:	M.Sc
Programme Code	:	PSM
Name of the Paper	:	Complex Analysis
Lecture Hours	:	90 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none"> • Study the concept of complex integration. • Analyze singular points, Taylor's series & Cauchy's Theorem. • Advance property of harmonic functions. • Learn about infinite Partial fractions and Canonical Products. • Analyze relation between both Harmonic and Gamma Functions. 	<p>Learners will be able to</p> <ul style="list-style-type: none"> • acquired concept of complex integration. • apply Cauchy's theorem in complex valued functions. • analyse harmonic function. • evaluate infinite products and canonical products. • 5. develop the knowledge of Gamma functions. 	<ul style="list-style-type: none"> ❖ Power Point ❖ E – Module ❖ Chalk & Talk Method ❖ Lecture Method ❖ Discussion Method ❖ Study Assignment Method, ❖ Problem Solving Method ❖ Seminar Method ❖ Demonstration Method

C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ❖ Sets and Elements- connectedness- compactness ❖ Continuous functions - Topological spaces ❖ Conformality ❖ Linear transformation 	12.12.2023 to 05.01.2023	5 Hrs 4 Hrs 4 Hrs 5 Hrs	-	-
Unit II Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ❖ Le integral- definition and some examples ❖ Cauchy's theorem for a rectangle ❖ Cauchy's theorem for a disk ❖ Higher derivatives 	07.01.2023 to 06.02.2023	4 Hrs 5Hrs 4 Hrs 5 Hrs	-	-
Unit III Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ❖ Tayler's theorem ❖ Zers and poles ❖ Simple connectivity ❖ General Statement of Cauchy's theorem 	07.02.2023 to 28.02.2023	4Hrs 3Hrs 4 Hrs 4Hrs 3 Hrs	-	-
Unit IV Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ❖ Haronic function ❖ Mean value property theorem ❖ Poisson formula ❖ Schwartz's theorem ❖ Reflection Principle theorem. 	01.03.2023 to 20.03.2023	4Hrs 3Hrs 4Hrs 3Hrs 4Hrs	-	-

Unit V	❖ Weierstrass theorem	21.03.2023 to	5 Hrs	-	-
Content- 15 Hrs,	❖ Taylor's series	12.04.2023	5Hrs		
Assessment -3 Hrs	❖ Partial fractions		4Hrs		
Total - 18 Hrs	❖ Infinite product		4Hrs		
	❖ Canonical product				

D .ACTIVITIES:

Activities Name	Details
Test	Unit Test Date: 21.01.2023,10.02.2023,28.03.2023
Assignment	15.02.20223 15.03.2023,10.4.23
Quiz	28.03.2023
Seminar	15.03.2023 to 10.04.2023
Tutor Ward Meeting	Monthly Once

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PG AND RESEARCH DEPARTMENT OF COMMERCE

A. GENERAL INFORMATION

Name of the Faculty	: Dr. N.K. Premavathi, Associate Professor
Department	: Commerce
Programme	: M.Com.
Programme Code	: PGC
Name of the Course	: Advanced Cost Accounting
Lecture Hours / Practical Hours	: 90 hours

B. ABOUT THE COURSE

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">• To enable the students to understand the procedures in job, batch and contract costing.• To acquire knowledge about process costing.• To make the students to understand the costing procedure for various services.• To provide knowledge on marginal costing.• To inculcate the students about standard costing and variance analysis..	<ul style="list-style-type: none">• Acquire knowledge about the preparation of job, batch and contract costing.• Gain knowledge on process costing.• Prepare operating cost statement for various services.• Familiarise with the preparation of marginal cost statement.• Acquire knowledge on standard costing and variance analysis.	<ul style="list-style-type: none">• Class room Chalk and Talk• Power Point presentation• e- Module

C. PLAN OF THE WORK

Unit / Modules	Topic to be covered	Proposed date	Lecture Hours	Practical Hours	Remarks
Unit - I Content-15 Hrs. Assessment – 3 Hrs. Total - 18 Hrs.	<ul style="list-style-type: none"> • Job Costing – Features and Objectives, Merits and Limitations • Job Costing Procedure, Job Cost Sheet - Problems • Batch Costing, Determination of EBQ –Problems • Contract Costing – Definition, Features of Contract Costing • Calculation of Profit on Contracts, Contract Costing vs. Job Costing – Preparation of Contract Account - Problems 	18.07.2022 to 11.08.2022	2 Hrs. 5 Hrs. 4 Hrs. 2 Hrs. 5 Hrs.	-	-
Unit - II Content-15 Hrs. Assessment – 3 Hrs. Total - 18 Hrs.	<ul style="list-style-type: none"> • Process Costing – Meaning, Features of Process Costing • Process Loss - Normal and Abnormal Loss - Abnormal Gain • Joint Products, By Products, Concept of Equivalent Production • Process Accounts, Process Losses and Gains 	16.08.2022 to 05.09.2022	3 Hrs. 3 Hrs. 5 Hrs. 7 Hrs.	-	-
Unit - III Content-15 Hrs.	<ul style="list-style-type: none"> • Operating Costing – Meaning and Definition • Preparation of Operating 	06.09.2022 to 07.10.2022	2 Hrs. 8 Hrs. 8 Hrs.	-	-

Assessment – 3 Hrs. Total - 18 Hrs.	Cost Sheet , Transport Costing • Power Supply Costing, Hospital Costing (Simple Problems)				
Unit - IV Content-15 Hrs. Assessment – 3 Hrs. Total - 18 Hrs.	<ul style="list-style-type: none"> • Marginal Costing – Meaning and Definition, Features – Advantages and Limitations • Difference between Marginal Costing and Absorption Costing • Contribution, P/V Ratio, Break Even Point, Margin of Safety • Preparation of Marginal Cost Statement-Problems 	10.10.2022 to 21.10.2022	3 Hrs 3 Hrs. 3 Hrs. 9 Hrs.	-	-
Unit - V Content-15 Hrs. Assessment – 3 Hrs. Total - 18 Hrs.	<ul style="list-style-type: none"> • Standard Costing-Definition Objectives, Advantages • Standard Cost and Estimated Cost, Installation of Standard Costing • Variance analysis – Material, Labour, Overhead, and Sales Variances – Calculation of Variances - Problems 	27.10.2022 to 10.11.2022	2 Hrs. 2 Hrs. 14 Hrs.	-	-

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (August) CIA / Mid Semester –Unit- I, II, III (September) 16.09.2022 to 26.09.2022 CIA / Model Examination – 5 Units (November) 10.11.2022 to 22.11.2022
Assignment	Assignment I – Unit – III (September) Assignment II – Unit – IV (October) Assignment III – Unit – V (November)
Quiz	Two Mark Quiz Test - Unit III – Unit – IV (November)
Seminar	Unit –V (September and October)
Tutorial Ward Meeting	Monthly once



Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty	: Dr.V.RENUGA, Associate Professor
Department	: Commerce
Programme	: M.Com.
Programme Code	: PGC
Name of the Paper	: Advanced Corporate Accounting
Lecture Hours / Practical Hours	: 90 Hours

B. ABOUT THE COURSE

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">• To provide in depth knowledge on amalgamation and reconstruction of companies.• To develop the understanding about valuation of goodwill, shares and liquidation of companies.• To provide knowledge on Holding company accounts.• To help the students to get an idea about Banking and Insurance company accounts.• To give an exposure to the specialised accounting.	<p>students will be able to</p> <ul style="list-style-type: none">• Understand the procedure for amalgamation and reconstruction of companies.• Gain knowledge on valuation of goodwill, shares and liquidation of companies.• Prepare the consolidated balance sheet.• Enrich their knowledge on Banking and Insurance company accounts.• Acquire knowledge on specialised accounting.	<ul style="list-style-type: none">• Class room - Chalk and Talk• Power point.

C. PLAN OF THE WORK

Unit / Modules	Topic to be covered	Proposed date	Lecture Hours	Practical Hours	Remarks
Unit I Content- 15 Hrs, Assessment - 3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> • Amalgamation • Introduction • Theory • Problems • Absorption • Introduction • Theory • Problems • External Reconstruction- Theory • Problems • Internal Reconstruction • Theory • Problems 	18.07.2022 to 13.08.2022	6 hrs 4 hrs 4 hrs 4 hrs	-	-
Unit II Content- 15 Hrs, Assessment - 3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> • Valuation of Goodwill • Introduction • Methods • Problems • Valuation of Shares • Introduction • Methods • Problems • Liquidation of companies • Theory • statement of affairs 	14.08.2022 to 05.9.2022	6 hrs 6 hrs 6 hrs	-	-

	<ul style="list-style-type: none"> • Final statement of accounts 				
Unit III Content- 15 Hrs Assessment - 3 Hrs Total - 18 Hrs.	<ul style="list-style-type: none"> • Holding Company Accounts • Theory • Steps for preparing consolidated B/S • Multiple subsidiaries • Problems 	06.09.2022 to 25.09.2022	2 hrs 2 hrs 2hrs 2 hrs 10 hrs	-	-
Unit IV Content- 15 Hrs, Assessment - 3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> • Banking Company a/cs • Theory • format of P & L a/c • format of B/S • Problems • Insurance Company a/cs • theory • LIC & GIC • Format of Revenue a/c • Format of B/S • Valuation B/S 	26.09.2022 To 15.10.2022	1 hr 1 hr 1hr 1 hr 4 hrs 1 hr 2 hrs 1 hr 2 hrs 3 hrs 1 hr	-	-
Unit V Content- 15 Hrs, Assessment - 3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> • Inflation Accounting • Theory • CPP Method • HR accounting • objectives • Valuation methods • advantages • Social Responsibility Accounting 	16.10.2022 to 05.11.2012	8 hrs 6 hrs 4 Hrs	-	-

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (August) Monthly Test - Unit-II (September) CIA / Mid Semester – Unit-I - Unit-II, Unit III (First 1/2 Unit)- 2 ½ Units (November) Monthly Test– Unit –IV (September) Unit - V (October) 07.09.2022 to 17.09.2022 CIA / Model Examination -Unit-III(Second 1/2 Unit) –Unit-IV, Unit V- 2 ½ Units
Assignment	Assignment I –Unit –I and Unit –II (August) Assignment II – Unit –III and Unit – IV (September)
Quiz	Two Mark Quiz Test - Unit I – Unit – V (October) Unit – I to V (November)
Seminar	Monthly once
Tutorial Ward	---
Meeting	



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PG & RESEARCH DEPARTMENT OF COMMERCE

A. GENERAL INFORMATION

Name of the Faculty	: Dr. N.K. Premavathi, Associate Professor
Department	: Commerce
Programme	: M.Com.
Programme Code	: PGC
Name of the Course	: Advanced Financial Management
Lecture Hours / Practical Hours	: 90 hours

B. ABOUT THE COURSE

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">• To impart knowledge about basic concepts of financial management.• To provide knowledge on working capital management.• To educate the students on receivables and inventory management.• To inculcate knowledge about risk, return and valuation of securities.• To make the students to understand dividend policy.	<ul style="list-style-type: none">• Understand the basic concepts of financial management.• Estimate working capital requirements and cash planning.• Evaluate credit policies and assess various inventory levels.• Analyze risk and return, compute value of securities.• Acquire knowledge on dividend policy and theories of dividend policy.	<ul style="list-style-type: none">• Class room Chalk and Talk• Power Point presentation• e- Module

C. PLAN OF THE WORK

Unit / Modules	Topic to be covered	Proposed date	Lecture Hours	Practical Hours	Remarks
Unit - I Content- 15 Hrs. Assessment – 3 Hrs. Total - 18 Hrs.	<ul style="list-style-type: none"> Financial Management: Meaning, Nature and Scope of Finance Financial Goal – Profit vs. Wealth Maximisation Finance Functions – Investment Decisions Financing Decisions Dividend Decisions 	21.02.2022 to 02.03.2022	4 Hrs. 4 Hrs. 4 Hrs. 3 Hrs. 3 Hrs.	-	-
Unit - II Content- 15 Hrs. Assessment – 3 Hrs. Total - 18 Hrs.	<ul style="list-style-type: none"> Working Capital Management – Concepts Determinants of Working Capital Forecasting of Working Capital Requirements Cash Management Motives of holding Cash Stages in Cash Management Cash Planning Collection and Disbursement of Cash Optimum Cash Balance – Baumol Model Investment of Surplus Cash 	03.03.2022 to 18.03.2022	1 Hr. 2 Hrs. 5 Hrs. 2 Hrs. 2 Hrs. 2 Hrs. 2 Hrs.	-	-
Unit - III Content- 15 Hrs. Assessment –	<ul style="list-style-type: none"> Receivables Management – Objectives, Factors influencing size of Receivables Credit Policy – Credit Standard, Credit Term 	21.03.2022 to 08.04.2022	2 Hrs. 2 Hrs. 5 Hrs. 2 Hrs. 2 Hrs.	-	-

3 Hrs. Total - 18 Hrs.	<ul style="list-style-type: none"> Collection Policy, Incremental Analysis Problems worked Inventory Management – Meaning, Types of Inventory, Purpose of holding Inventory Excess or inadequate Inventory EOQ – Problems Levels of Stock -: Reorder Level, Minimum Level and Maximum Level-Problems Techniques – ABC, VED, FSN and HML Analysis 		5 Hrs.		
Unit - IV Content- 15 Hrs. Assessm ent – 3 Hrs. Total - 18 Hrs.	<ul style="list-style-type: none"> Risk and Return – Meaning of Risk Types – Relationship between Risk and Return Problems worked Valuation of Securities – Valuation concept Bond Valuation Valuation of Preference Shares Equity Valuation Dividend Valuation approach Earnings Capitalization approach 	11.04.2022 to 09.05.2022	2 Hrs. 3 Hrs. 2 Hrs. 2 Hrs. 2 Hrs. 3 Hrs. 2 Hrs.	-	-
Unit - V Content- 15 Hrs. Assessm ent – 3 Hrs.	<ul style="list-style-type: none"> Dividend – Meaning Forms of Dividend Dividend Policy –Meaning and Definition Nature and Objectives Determinants of Dividend Policy 	10.05.2022 to 23.05.2022	2 Hrs. 2 Hrs. 2 Hrs. 2 Hrs. 8 Hrs.	-	-

Total - 18 Hrs.	<ul style="list-style-type: none"> Dividend Theories – Walter’s Model, Gordon’s Model, Modigliani-Miller Model – Problems worked 				
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D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (February) Monthly Test - Unit-III (March) CIA / Mid Semester – Unit – I, Unit – II, Unit-III(Second 1/2 Unit) 18.04.2022 to 25.04.2022 CIA / Model Examination -Unit-III(Second 1/2 Unit) –Unit-IV, Unit-V 24.05.2022 to 31.05.2022
Assignment	Assignment I – Unit –I (February)
Quiz	Assignment II – Unit –IV (May)
Seminar	
Tutorial Ward	Two Mark Quiz Test - Unit III, Unit – IV (April)
Meeting	Unit –IV (April) Monthly once


Signature of Principal

A. General Information

Name of Faculty : Dr. R.KRISHNAVENI
Department : COMMERCE
Programme : B.Com.
Programme Code : CU
Title of the Paper : MANAGEMENT ACCOUNTING
Lecture Hours : 90 Hours

B. Course Information

Course Objectives	Course Outcome	Teaching Methodology
<ul style="list-style-type: none">• To enable the students to know the importance of Management Accounting and its concepts• To acquire knowledge about the Financial Statement Analysis.• To make the students to understand the Fund flow and Cash flow.• To provide knowledge on Marginal costing and Standard costing.• To inculcate the students about the Budget and Budgetary control.	<ul style="list-style-type: none">• Acquire knowledge about the Basics of Management Accounting.• Gain knowledge on Financial Statement Analysis.• Learn to prepare Fund Flow and Cash Flow.• Familiarise the concepts of m Marginal costing and Standard costing.• Understand the knowledge about Budget and Budgetary Control.	<ul style="list-style-type: none">• Class room• Chalk and Talk• Power point presentation• e- Modules

C. Plan of the Work.

Unit/Modules	Topic to be covered	Proposed date	Lecture Hours	Remarks
Unit I Content 15Hrs. Assessment – 3 Hrs. Total – 18 Hrs.	<ul style="list-style-type: none"> • Management Accounting - Meaning • Nature and Scope of Management Accounting • Objectives, Relation between Management Accounting and Financial Accounting • Management Accounting and Cost Accounting • Advantages and Limitations of Management Accounting. 	20.12.2022 to 02.01.2023	3 Hrs. 4 Hrs. 3 Hrs. 4 Hrs. 4 Hrs.	-
Unit II Content 15Hrs. Assessment – 3 Hrs. Total – 18 Hrs.	<ul style="list-style-type: none"> • Comparative Statement in Management Accounting • Common Size Statement in Management Accounting • Trend Analysis in Management Accounting • Ratio Analysis in Management Accounting - Profitability Ratios, • Activity Ratios in Management Accounting • Solvency Ratios in Management Accounting • Uses and Limitations of Ratios. 	04.01.2023 to 31.01.2023	3 Hrs. 3 Hrs. 3 Hrs. 2 Hrs. 2 Hrs. 2 Hrs. 3 Hrs.	-

<p>Unit III Content 15Hrs. Assessment – 3 Hrs. Total – 18 Hrs.</p>	<ul style="list-style-type: none"> • Fund Flow Analysis- Flow of Funds - Funds From Operations . • Schedule of Changes in Working Capital- • Fund flow Statement- • Managerial uses of Fund Flow analysis • Cash Flow Analysis–Cash Flow Statement as per New Format- Accounting Standard-3 • Managerial uses of Cash Flow Analysis. 	<p>01.03.2023 to 27.02.2023</p>	<p>3 Hrs. 3 Hrs. 3 Hrs. 3 Hrs. 3 Hrs.</p>	<p>-</p>
<p>Unit IV Content 15Hrs. Assessment – 3 Hrs. Total – 18 Hrs.</p>	<ul style="list-style-type: none"> • Marginal Costing – Cost Volume Profit Analysis • Break Even Analysis – Managerial Applications, Standard Costing • Material and Labour Variances. 	<p>28.02.2023 to 14.03.2023</p>	<p>6Hrs. 6Hrs. 6Hrs.</p>	<p>-</p>
<p>Unit V Content 15Hrs. Assessment – 3 Hrs. Total – 18 Hrs.</p>	<ul style="list-style-type: none"> • Budget, Budgetary Control – Meaning – Significances • Types of Budget • Budget Preparation. 	<p>29.03.2023 to 09.04.2023</p>	<p>6 Hrs. 6 Hrs. 6 Hrs.</p>	<p>-</p>

D.ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (January) CIA / Mid Semester –Unit- I, II (February) 10.02.2023 to 15.02.2023 CIA / Model Examination – 5 Units (April) 10.04.2023 to 21.04.2023
Assignment	Assignment I – Unit – II (March) Assignment III – Unit – V (April)
Quiz	Two Mark Quiz Test - Unit III – Unit – IV (March) Unit –V (April)
Tutorial Ward Meeting	Monthly once



Signature of Principal



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PG & RESEARCH DEPARTMENT OF ZOOLOGY

TEACHING PLAN

A. GENERAL INFORMATION

Name of the Faculty	: Dr.K.G.SELVI
Department	: Zoology
Programme	: III B.Sc
Programme Code	: MBEI
Name of the Paper	: Applied Entomology
Lecture Hours	: 90 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
<p>To understand the classification and working of insect systems</p> <p>To understand their adaptations to the environment</p> <p>To look into some commercial applications of entomology with special reference to beneficial insects, sericulture, insect pests and their control, vector borne diseases etc.</p>	<p>Know about the steps required to do insect systematic and classify insect pest using key characters.</p> <p>Understand morphology of insect pest.</p> <p>Apply the skill for various sustainable commercial production of apiculture, sericulture and lac culture.</p> <p>Understand the impact of harmful insect pest in</p>	<ul style="list-style-type: none">❖ Power Point❖ E - Module❖ Chalk & Talk Method❖ Lecture Method❖ Discussion Method❖ Study Assignment Method,❖ Seminar Method

<p>Skill to rear and mass production of commercially important insects.</p> <p>skill to identify the harmful insect pest.</p>	<p>agriculture.</p> <p>Analyze and apply multi-disciplinary approaches related to integrated pest control</p>	
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C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I	<p>Taxonomy and Classification:</p> <p>Classification and key characters of important Orders</p> <p>Coleoptera (Rhinoceros beetle),</p> <p>Lepidoptera (Plain tiger butterfly),</p> <p>Diptera (Aedes mosquito),</p> <p>Hemiptera (Bed bug),</p> <p>Hymenoptera (Indian Honey Bee),</p> <p>Orthoptera (Grasshopper) ,</p> <p>Isoptera,(Termites)..</p>	<p>18.07.2022</p> <p>to</p> <p>05.08.2022</p>	<p>6</p> <p>6</p> <p>6</p>		

Unit II	<p>Biology of insects: General organization of a typical Insect .</p> <p>types of head; Thorax – Abdomen – Antenna – Mouth Parts –Legs –Wings - Sense organs; Sound producing organs;</p> <p>Structure of Digestive system – Circulatory system – Excretory system – Respiratory system – Nervous system – Reproductive system ; Metamorphosis and types; Types of larvae and pupae; Role of endocrine and pheromones.</p>	<p>08.08.2022 to 27.08.2022</p>	<p>5 5 5 3</p>		
Unit III	<p>Apiculture- Biology and lifehistory of honeybees: Methods ofbeekeeping -</p>	<p>29.08.2022 to 15.09.2022</p>	<p>6 6 6</p>		

	<p>Equipment and tools-APIary management, Bee products, Diseases of honeybees.</p> <p>Sericulture- Mulberry sericulture - Non-Mulberry Sericulture.</p> <p>Lac culture:- Propagation of lac insects -Natural enemies of lac insects and their management-Lac extraction</p>				
Unit IV	<p>Vector borne diseases: Method of transmission of parasitic Agents with special reference to mosquitoes and housefly.</p> <p>Host – parasite interaction with examples.</p>	<p>16.09.2022 to 03.10.2022</p>	<p>6 6 6</p>		

	Polyphagous insect pests: Locusts, termites, hairy caterpillars, cutworms, gram pod borer				
Unit V	.Insects as crop pests: Major pests of the following crops and their life cycles, Types of injuries and nature of damage caused to paddy (Brown pant hopper), sugarcane (Root borer),pulses (plume moth), vegetables (brinjal- Shoot and fruit borer), Coconut (Red Palm Weevil)and stored grain pests (Pulse beetle).	04.10.2022 to 16.11.2022	6 6 6		

D. ACTIVITIES:

Activities Name	Details
Test	18.07.2022, 05.08.2022, 08.08.2022 , 16.09.2022, 04.10.2022
Assignment	18.08.2022, 05.09.2022
Quiz	26.08.2022, 09.09.2022, 23.09.2022, 11.10.2022
Seminar	29.08.2022, 29.09.2022, 10.10.2022
Tutor Ward Meeting	Monthly once



Signature of Principal

TEACHING PLAN

A. GENERAL INFORMATION

Name of the Faculty :Dr.M.Rajeswary

Department :Zoology

Programme : B.Sc

Programme Code : ZUA

Name of the Paper : BIOLOGY OF INVERTEBRATES

Lecture Hours : 90Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
1.To understand the systematic and functional morphology of various groups of invertebrates. 2. To study the characteristics, economic importance, affinities and adaptations of invertebrates. 3. Understand the non chordate animals in the world that surrounds us. 4. Observe the process of evolution from unicellular cells to multi cellular organism. 5. Able to recognize economically important invertebrate fauna.	1. Describe general taxonomic rules on animal classification 2. Classify Protista up to phylum using examples from parasitic adaptation 3. Classify Phylum Porifera to Echinodermata with taxonomic keys 4. Describe Phylum Nematoda and give examples of pathogenic Nematodes	❖ Power Point ❖ E – Module ❖ Chalk & Talk Method ❖ Lecture Method ❖ Discussion Method ❖ Study Assignment Method, ❖ Problem Solving Method ❖ Seminar Method

C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Practica l Hrs	Remarks
Unit I	• Phylum Protozoa	26.08.2022	3		3(Practica l CIA)
	• Detailed study of Paramecium	to	3		
	Plasmodium	16.09.2022	2		
	• Nutrition in Protozoa		4		
	• Protozoa and Human diseases		3		
	• Phylum Porifera- Detailed study of Sycon				
Unit II	Detailed study of Obelia	26.09.2022	3		3(Practica l CIA)
	Ctenophora- General organization and affinities	to	3		
	• Detailed study of Fasciola hepatica	18.10.2022	3		
	• Parasites affecting Man & Domestic animals		3		
	chistosoma haematobium,		3		
	• Taenia solium, Hymenolepis				

	<p>nana,</p> <ul style="list-style-type: none"> • Diphyllbothrium latum, • Schistosoma nasalis and Echinococcus granulosa 				
Unit III	<ul style="list-style-type: none"> • Detailed study of Ascaris • Nematode parasites in man • Detailed study of Nereis • Adaptive radiation in Polychaetes 	<p>20.10.2022 to 28.10.2022</p>	<p>4 4 4 3</p>		3(Practical CIA)
Unit IV	<ul style="list-style-type: none"> • Detailed study of Penaeus monodon • Organisation & affinities of Peripatus • Crustacean larvae & their significance • Economic importance of Insects. 	<p>9.10.2022 to 20.10.2022</p>	<p>4 4 4 3</p>		3(Practical CIA)
Unit V	<ul style="list-style-type: none"> • Detailed study of Pila globosa 	<p>21.11.2022 to</p>	<p>4</p>		3(Practical CIA)

	<ul style="list-style-type: none"> Economic importance of mollusca Detailed study of starfish- Asterias rubens Larval forms of Echinoderms & their significance Water vascular system in Echinoderms 	10.11.2022	3 4 2 2		
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D. ACTIVITIES:

Activities Name	Details
Test	13.09.2022,22.09.2022,14.10.2022,28.10.2022,7.11.2022
Assignment	23.09.2022,12.10.2022
Quiz	14.10.2022
Seminar	27.10.2022,8.11.2022
Tutor Ward Meeting	Monthly once


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PG & Research Department of Zoology

A. GENERAL INFORMATION

Name of the Faculty	:	Dr. S. Vanitha
Department	:	Zoology
Programme	:	B.Sc
Programme Code	:	ZUE
Name of the Paper	:	Developmental Biology
Lecture Hours	:	60 Hrs (V UNITS)

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
Objectives to 1. Understanding of the processes of early embryonic development, to analyze the mechanisms of development. 2. Learn theories of fertilization and cleavage. 3. Ability to find out fate maps, morphogenetic movements and developmental stages of	Develop critical understanding how a single-celled fertilized egg becomes an embryo and then a fully formed adult. Understand how does development affect organization of phenotypes and their variation . Aware of the reproductive cycle,	Methodology adopted are <ul style="list-style-type: none">• Power Point• e- Module• Chalk & Talk Method• Lecture Method• Discussion Method• Study Assignment Method,• Problem Solving Method• Seminar Method• Demonstration Method

<p>chick embryo.</p> <p>4. Study metamorphosis in amphibian.</p> <p>5. Know the human health care and artificial insemination and Birth control.</p>	<p>hormones, Birth control and critically assess relevant scientific literature in reproductive biology and present their argument in oral and written work.</p> <p>Explain the concept of Immunology, Mechanism of immunity, Immunity regulating cells.</p> <p>Understand the Basic structure, classes and function of Antibodies, Antigen-Antibody interaction</p>	
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C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I Content - 12 Hrs	Gametogenesis: Spermatogenesis – Cells in seminiferous tubules, Spermiogenesis structure and types of sperm. Oogenesis – Growth of oocyte, vitellogenesis, organization of egg cytoplasm. Polarity and symmetry – Maturation of egg, egg envelopes-Types of eggs.	21.12.2022 to 28.12.2022	4Hrs 4Hrs 4 Hrs		
Unit II Content - 12 Hrs	Fertilization: External and Internal fertilization, sperm – egg interaction, physiological changes in the organization of egg cytoplasm – Theories of fertilization. Cleavage–Patterns of cleavage–radial, spiral and bilateral; Types– meroblastic, holoblastic and superficial – Factors affecting cleavage – Chemodifferentiation	03.01.2023 to 21.01.2023	4 Hrs 4 Hrs 4 Hrs		

<p>Unit III Content - 12 Hrs</p>	<p>Blastulation – Types of blastula. Fate maps. Presumptive organ forming areas in Frog and Chick.</p> <p>Gastrulation in Frog and Chick-Morphogenetic movements.</p> <p>Development of brain and eye in Frog. Developmental stages of Chick embryo up to 96 hours and organogenesis.</p>	<p>23.01.2023 to 15.02.2023</p>	<p>4 Hrs 4 Hrs 4 Hrs</p>	<p>-</p>	<p>-</p>
<p>Unit IV Content - 12 Hrs</p>	<p>Foetal membranes in Chick and Mammals – Placentation in Mammals- types and physiology. Organizer concept and embryonic induction.</p> <p>Regeneration in Planarians and Amphibians. Metamorphosis in Amphibians.</p>	<p>16.03.2023 to 25.03.2023</p>	<p>4 Hrs 4 Hrs 4 Hrs</p>	<p>-</p>	<p>-</p>
<p>Unit V Content - 12 Hrs</p>	<p>Precautions and health care during Human Pregnancy and Gestation- infertility.</p>	<p>27.03.2023 to 06.04.2023</p>	<p>4Hrs 4Hrs 4Hrs</p>	<p>-</p>	<p>-</p>

	Artificial Insemination – Concept of test-tube baby. Birth control methods – Factors involved in Teratogenesis				
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D. ACTIVITIES:

Activities Name	Details
Test	Unit Test Date: 08.02.2023, 28.02.2023,17.03.2023
Assignment	03.02.2023, 22.02.2023
Quiz	02.03.2023,16.03.2023
Seminar	15.02.2023,02.03.2023,03.03.2023,21.03.2023
Tutor Ward Meeting	Monthly Once



Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty	:Dr.M.Rajeswary
Department	:Zoology
Programme	:B.Sc
Programme Code	:UZE2
Name of the Paper	:COMMERCIAL ZOOLOGY
Lecture Hours	:90 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
<p>Objectives to</p> <ul style="list-style-type: none"> • Course Aims: • ,To bring about awareness to the various branch of Zoology • available to get self employment opportunity • ☑ To generate employments. • ☑ To motivate to become entrepreneurs. • ☑ Skill to develop apiculture in their own house. • ☑ Ability to produce vermicompost. 	<p>Learners will be able to</p> <ul style="list-style-type: none"> • Learn the courses with excitement of biology along with the self • employment opportunity in vermiculture. • Students interested in entrepreneurship and start some small • business based on their interest and experience on apiculture. • Ability to impart complex technical knowledge relating to • economic importance of Lac and sericulture. 	<ul style="list-style-type: none"> • Methodology adopted are Power Point • e- Module • Chalk & Talk Method • Lecture Method • Discussion Method • Study Assignment Method, • Problem Solving Method • Seminar Method • Demonstration Method

	<ul style="list-style-type: none"> • Work precisely in aquaculture field by learning culture practice and construction, management of pond. • Familiar with poultry farming to generate employment opportunity 	
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C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I	<ul style="list-style-type: none"> • Vermiculture : Common species – Eigenia, Endrilues and • Perionix excavates. Biology of Earthworm • Vermicomposting – Required conditions- Methods (Pit & Heap) – Advantages - Economic importance. 	22.12.2022 to 02.01.2023	3 Hrs 3 Hrs 4Hrs 5 Hrs		3(Practical CIA)
Unit II	<ul style="list-style-type: none"> • .Apiculture – Species of Honey Bee, Types of Honey Bee – • Newton’s Bee hive – Care and Management – Honey • extraction and Honey 	09.01.2023 to 13.01.2023	4 Hrs 3 Hrs 4 Hrs		3(Practical CIA)

	<p>Extracting Equipments (Honey)</p> <ul style="list-style-type: none"> • Extractor, Smoker, Queen excluder, Drone excluder, Bee • 		4 Hrs		
Unit III	<ul style="list-style-type: none"> • Lac Culture – Life cycle of Lac insect – Economic • importance of Lac. Sericulture: Life cycle of Bombyxmori • – Economic of Silk 	20.01.2023 to 27.01.2023	<p>3 Hrs</p> <p>3 Hrs</p> <p>4Hrs</p> <p>5 Hrs</p>	-	3(Practical CIA)
Unit IV	<ul style="list-style-type: none"> • .Aquaculture – Construction and Management of Pond. Culture practices of Common carp. Shrimp Culture– Penaeusmonodon- Pearl culture. 	3.02.2023 to 10.02.2023	<p>4 Hrs</p> <p>3 Hrs</p> <p>4 Hrs</p> <p>4 Hrs</p>	-	3(Practical CIA)
Unit V	<ul style="list-style-type: none"> • .Poultry farming – Types of Poultry – Care and • Management – Poultry Nutrition – Diseases and their • management – 	28.02.2023 to 14.03.2023	<p>3 Hrs</p> <p>4Hrs</p> <p>4Hrs</p> <p>4Hrs</p>	-	3(Practical CIA)

	Composition and Nutritive value of egg – <ul style="list-style-type: none"> Economics of Poultry production 				
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D. ACTIVITIES:

Activities Name	Details
Test	Unit Test Date: 28.02.2023, 15.03.2023,05.04.2023
Assignment	24.02.2023, 08.03.2023
Quiz	01.03.2023,21.03.2023
Seminar	14.03.2023,23.03.2023,01.04.2023
Tutor Ward Meeting	Monthly Once



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PG DEPARTMENT OF COMPUTER SCIENCE

A. General Information

Name of the Faculty	: Dr. S. Thaiyalnayaki, Assistant Professor of Computer Science
Department	: Computer Science
Programme	: B.Sc
Programme Code	: BCS
Name of the Paper	: Database Systems
Lecture Hours/ Practical Hours	: 6 Hrs / Week - Lecture Hours

B. ABOUT THE COURSE:

Name of the Course	Course Code	Course Objectives	Course Outcomes	Teaching Methodology
Database Systems	BXL	<ul style="list-style-type: none">• Distinguish between data and information and Knowledge• Distinguish between file processing system and DBMS• Describe DBMS its advantages and disadvantages• Describe Database users including data base administrator• Describe data models, schemas and instances.	<ul style="list-style-type: none">▪ Emphasize the need, role, importance and uses of databases in application development▪ Design E-R modeling for a given situation and provide the foundation for development of relational database structure.▪ Identify the advantages of the database approach over the file based data storage system.	<ul style="list-style-type: none">• Black Board• PowerPoint Presentation• E-Content• OHP• Flipped Classrooms (High Tech)• NPTEL Video• Class projects• Classroom discussion• Group discussion• Individual

		<ul style="list-style-type: none"> • Describe DBMS Architecture & Data Independence • Describe Data Language 	<ul style="list-style-type: none"> ▪ Distinguish between different models of file organizing, storing and using of data. ▪ Understand the relational model and relational algebra operations. ▪ Normalize the relational tables applying normalization rules. ▪ Apply PL/SQL procedural interfaces statement on relational tables as per requirements. 	<ul style="list-style-type: none"> projects • Lecturing • Textbook assignments • Swayam videos
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C. PLAN OF THE WORK

Name of the Course	Unit/Modules	Topic to be Covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Database Systems	I/Module - I	Introduction about Database System, Database System Applications	18/07/2022 to 21/07/2022	4	-	-
Database Systems	I/ Module - II	Database Languages,	22/07/2022 to	5	-	-

		Transaction Management , Database Architecture	28/07/2022			
Database Systems	I/ Module - III	Database Users and Database Administrators, Structure of Relational Databases	29/07/2022 to 04/08/2022	5	-	-
Database Systems	I/ Module - IV	Database Design, ER Model, Constraints, Entity Relationship Diagrams	05/08/2022 to 11/08/2022	4	-	Unit I - 18 hrs
Database Systems	II/Module - I	Relational Algebra Operations, The Tuple Relational Calculus, The Domain Relational Calculus	12/08/2022 to 17/08/2022	4	-	-
Database Systems	II/ Module - II	SQL : Data Types, Basic Structure of SQL Queries	18/08/2022 to 24/08/2022	4	-	-
Database Systems	II/ Module - III	Set Operations, Aggregate Functions, Null Values	25/08/2022 to 29/08/2022	4	-	-
Database Systems	II/ Module - IV	Nested Sub-	30/08/2022	3	-	-

Systems		Queries, Modification of the Database	to 02/09/2022			
Database Systems	II/ Module - V	Views	03/09/2022 to 06/09/2022	3		Unit II - 18 hrs
Database Systems	III/Module - I	Pitfalls in Relational Database Design, Decomposition, Functional Dependencies	07/09/2022 to 10/09/2022	4	-	-
Database Systems	III/ Module - II	Normalization : 1 st Normal form, 2 nd Normal Form, 3 rd Normal Form	12/09/2022 to 15/09/2022	4	-	-
Database Systems	III/ Module - III	4 th Normal Form, 5 th Normal Form Demoralization	16/09/2022 to 21/09/2022	4	-	-
Database Systems	III/ Module - IV	Database Security requirements Protecting the data within the database	22/09/2022 to 24/09/2022	3	-	-
Database Systems	III/ Module - V	Granting and Revoking privileges Data Encryption	26/09/2022 to 28/09/2022	3	-	Unit III - 18 hrs
Database Systems	IV/Module - I	PL/SQL : History, Fundamentals,	29/09/2022 to	4	-	-

		Block Structure, Comments, Data Types, Other Data Types	03/10/2022			
Database Systems	IV/ Module - II	PL/SQL: Declaration, Assignment Operation, Bind Variables, Substitution	06/10/2022 to 10/10/2022	4	-	-
Database Systems	IV/ Module - III	PL/SQL : Variables, Arithmetic Operator, Control Structures	11/10/2022 to 14/10/2022	4	-	-
Database Systems	IV/ Module - IV	PL/SQL: Nested Blocks, SQL in PL/SQL	15/10/2022 to 18/10/2022	3	-	-
Database Systems	IV/ Module - V	Data Manipulation, Transaction Control Statements	19/10/2022 to 21/10/2022	3	-	Unit IV - 18 hrs
Database Systems	V/Module - I	PL/SQL : Cursors , Types of Cursors	25/10/2022 to 28/10/2022	4	-	-
Database Systems	V/ Module - II	Cursor for loops, Select... for update, where current of clause	29/10/2022 to 02/11/2022	4	-	-

Database Systems	V/ Module - III	Cursor with parameters, cursor variables	03/11/2022 to 07/11/2022	3	-	-
Database Systems	V/ Module - IV	Exceptions	08/11/2022 to 10/11/2022	3	-	-
Database Systems	V/ Module - V	Types of Exceptions	11/11/2022 to 16/11/2022	4	-	Unit V - 18 hrs

D. ACTIVITIES

Activity Name	Details
Test	<ul style="list-style-type: none"> • Unit I- Aug 4th Week • Unit II- Sep 2nd Week • Mid- Oct 1st Week • Unit III- Oct 2nd Week • Unit IV- Oct 3rd Week • Unit V- Nov 1st Week • Mod-Nov 2nd Week
Assignment	<ul style="list-style-type: none"> • Unit I- Aug 3rd Week • Unit II- Sep 4th Week • Unit III- Oct 3rd Week • Unit IV- Oct 4th Week • Unit V- Nov 1st Week
Quiz	Quiz during November 3 rd week for Unit 1 to Unit 5
Seminar	During November 3 rd Week (Titles given to students from Unit 1 to Unit 5)
Mentor / Mentee Meeting	Weekly once

Signature of the Principal

A.GENERAL INFORMATION

Name of the Faculty : Dr. S. Thaiyalnayaki
 Department : Computer Science
 Programme : M.Sc
 Programme Code : PCS
 Name of the Paper : Data Mining and Data Warehousing
 Lecture Hours/ Practical Hours : 5 hrs /week – Lecture Hours

B. ABOUT THE COURSE:

Name of the Course	Course Code	Course Objectives	Course Outcomes	Teaching Methodology
Data Mining and Data Warehousing	PGXM	<ul style="list-style-type: none"> ➤ To understand the practical methods and techniques for building a data warehouse. ➤ To understand data mining concepts, tasks and their techniques. ➤ To understand the basic principles, concepts and applications of data warehousing and data mining. ➤ Ability to do 	<p>On completion of the Course, Students should be able to do,</p> <ul style="list-style-type: none"> ➤ To introduce the concept of data mining as an important tool for enterprise data management and as a cutting edge technology for building competitive advantage. ➤ To enable students to effectively identify sources of data and process it for data 	<ul style="list-style-type: none"> • Black Board • PowerPoint Presentation • E-Content • OHP • Flipped Classrooms (High Tech) • NPTEL Video • Class projects • Classroom discussion • Group discussion • Individual projects • Lecturing • Textbook assignments • Swayam videos

		<p>Conceptual, Logical and Physical design of data warehouses OLAP applications and OLAP deployment.</p> <p>➤ Have a good knowledge of the fundamental concepts that provide the foundation of data mining.</p>	<p>mining.</p> <p>➤ To impart knowledge of tools used for data mining.</p> <p>➤ To provide knowledge on how to gather and analyze large sets of data to gain useful business understanding.</p> <p>➤ To make students well versed in all data mining algorithms, methods of evaluation.</p>	
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C. PLAN OF THE WORK:

Name of the Course	Unit/Modules	Topic to be Covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Data Mining and Data Warehousing	I/Module - I	Introduction, What is data mining? Data mining- important Data Mining	18/07/2022 to 21/07/2022	4	-	-
Data Mining and Data	I/ Module - II	Various kinds of data mining	22/07/2022 to	3	-	-

Warehousing		functionalities , various kinds of patterns	28/07/202 2			
Data Mining and Data Warehousing	I/ Module - III	Pattern interesting, Classification of Data Mining Systems	29/07/202 2 to 04/08/202 2	4	-	-
Data Mining and Data Warehousing	I/ Module - IV	Data Mining task primitives, Integration of data mining systems, Major issues in data mining	05/08/202 2 to 11/08/202 2	4	-	Unit I -15 hrs
Data Mining and Data Warehousing	II/Module - I	Data Processing: Process the data descriptive	12/08/202 2 to 18/08/202 2	4	-	-
Data Mining and Data Warehousing	II/ Module - II	Data summarization, Measuring central tendency, Dispersion of data graphics	19/08/202 2 to 25/08/202 2	3	-	-
Data Mining and Data Warehousing	II/ Module - III	Displays of basic descriptive data summarizes	26/08/202 2 to 30/08/202 2	3	-	-

Data Mining and Data Warehousing	II/ Module - IV	Data Cleaning, data Integration and transformation	01/08/2022 to 03/09/2022	3	-	
Data Mining and Data Warehousing	II/ Module - V	Data Reduction, data discrimination concept hierarchy generation.	04/09/2022 to 07/09/2022	3		Unit II -15 hrs
Data Mining and Data Warehousing	III/Module - I	Data warehouse OLAP Technology: An overview , Data warehouse	08/09/2022 to 11/09/2022	3	-	-
Data Mining and Data Warehousing	III/ Module - II	Multidimensional data model	12/09/2022 to 16/09/2022	3	-	-
Data Mining and Data Warehousing	III/ Module - III	Data warehouse Architecture	17/09/2022 to 23/09/2022	3	-	-
Data Mining and Data Warehousing	III/ Module - IV	Data Warehouse implementation	24/09/2022 to 26/09/2022	3	-	-
Data Mining and Data Warehousing	III/ Module - V	Implementation of data warehouse to	27/09/2022 to 29/09/2022	3	-	Unit III -15 hrs

g		data mining	2			
Data Mining and Data Warehousing	IV/Module - I	Mining frequent patterns: Associations correlations	30/09/2022 to 03/10/2022	3	-	-
Data Mining and Data Warehousing	IV/ Module - II	Basic Concepts Road Map efficient scalable,	06/10/2022 to 10/10/2022	3	-	-
Data Mining and Data Warehousing	IV/ Module - III	Frequent itemset mining methods mining	11/10/2022 to 14/10/2022	3	-	-
Data Mining and Data Warehousing	IV/ Module - IV	Various kinds of association rules analysis	15/10/2022 to 18/10/2022	3	-	-
Data Mining and Data Warehousing	IV/ Module - V	Association mining to correlation constrain based association mining	19/10/2022 to 21/10/2022	3	-	Unit IV -15 hrs
Data Mining and Data Warehousing	V/Module - I	Classification	25/10/2022 to 29/10/2022	4	-	-
Data Mining and Data Warehousing	V/ Module - II	Types of classification	30/10/2022 to 03/11/2022	4	-	-

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Data Mining and Data Warehousing	V/ Module - III	Prediction, Cluster analysis	04/11/2022 to 09/11/2022	4	-	-
Data Mining and Data Warehousing	V/ Module - IV	Applications and trends in data mining.	10/11/2022 to 16/11/2022	3	-	Unit V -15 hrs Total-75 hrs

E. ACTIVITIES:

Activity Name	Details
Test	<ul style="list-style-type: none"> • Unit I- Aug 4th Week • Unit II- Sep 2nd Week • Mid- Oct 1st Week • Unit III- Oct 2nd Week • Unit IV- Oct 3rd Week • Unit V- Nov 1st Week • Mod-Nov 2nd Week
Assignment	<ul style="list-style-type: none"> • Unit I- Aug 3rd Week • Unit II- Sep 4th Week • Unit III- Oct 3rd Week • Unit IV- Oct 4th Week • Unit V- Nov 1st Week
Quiz	Quiz during November 3 rd week for Unit 1 to Unit 5
Seminar	During November 3 rd Week (Titles given to students from Unit 1 to Unit 5)
Mentor / Mentee Meeting	Weekly once



Signature of the Principal

A.GENERAL INFORMATION

Name of the Faculty : Mrs.C.Geetha
Department : Computer Science
Programme : PCS
Programme code : MXE4
Name of the Paper : Embedded Systems
Lecture Hours/Practical Hours : 90 Hours

B.ABOUT THE COURSE

Course Objectives	Course outcomes	Teaching Methodology
<ul style="list-style-type: none">• To provide fundamental concept of Embedded systems and real time operating systems.• The concepts and architecture of embedded systems• Basic of microcontroller 8051• The concepts of microcontroller interface• The concepts of ARM architecture• The concepts of real time operating system• Different design platforms used for an embedded systems application	<ul style="list-style-type: none">• To explore Mobile security issues.• To integrate multimedia, camera and Location based services in Android Application• To be familiarized with Intent, Broadcast receivers and Internet services.• To learn activity creation and Android UI designing.• To understand IP and TCP layers of Mobile Communication	<ul style="list-style-type: none">• The Demonstration Lesson• Group Work• Quiz• Seminar• E-Content• E-Module

C.PLAN OF THE WORK

Unit/ Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs
I	Introduction To Embedded Systems: Processor in the system software, embedded into a system, structural units in a processor, processor, memory selection, Memory devices, Allocation of memory to program segments and blocks and memory map of a system.	18/07/2022 to 21/07/2022 22/07/2022 to 28/07/2022 29/07/2022 to 04/08/2022 05/08/2022 to 11/08/2022	12 Hrs	NIL
II	DEVICE DRIVERS: Interrupt servicing mechanisms, context and periods for context switching, Programming concepts and Embedded programming in C and C++: Software programming in ALP and in high level language 'C' 'C' program elements: Header source files and preprocessor directives ,Macros and functions: Data types, data structures, modifiers, statements, loops and pointers, Embedded programming in	12/08/2022 to 17/08/2022 18/08/2022 to 24/08/2022 25/08/2022 to 29/08/2022 30/08/2022 to 02/09/2022 03/09/2022 to 06/09/2022	12 Hrs	NIL

	C++ and Java.			
III	<p>PROGRAM MODELING CONCEPTS: Program modelling concepts in single and multiprocessor systems, Software, development process: modelling process for software analysis, programming model for event controlled or response time constrained real time program, modelling of multiprocessor systems. Multiple processes, sharing data by multiple tasks and routines, inter process communications.</p>	<p>07/09/2022 to 10/09/2022</p> <p>12/09/2022 to 15/09/2022</p> <p>16/09/2022 to 21/09/2022</p> <p>22/09/2022 to 24/09/2022</p> <p>26/09/2022 to 28/09/2022</p>	12 Hrs	NIL
IV	<p>REAL TIME OPERATING SYSTEMS: OS services, IO sub systems, Real time and embedded operating systems, Interrupt routines in RTOS environment, RTOS task scheduling models, Interrupt latency and response times of the task as performance metrics, performance metrics in scheduling models.</p>	<p>29/09/2022 to 03/10/2022</p> <p>06/10/2022 to 10/10/2022</p> <p>11/10/2022 to 14/10/2022</p> <p>15/10/2022 to 18/10/2022</p> <p>19/10/2022 to 21/10/2022</p>	12 Hrs	NIL

V	HARDWARE SOFTWARE CODE DESIGN: Embedded system project management, Embedded system design and Co-design Issues, Design Cycle, uses of target system, use of software tools for development, use of scopes and logic analysers for system hardware test, issues in embedded system design.	25/10/2022 to 28/10/2022 29/10/2022 to 02/11/2022 03/11/2022 to 07/11/2022 08/11/2022 to 10/11/2022	12 Hrs	NIL
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D.ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I to Unit - V CIA / Mid Semester – Unit-I ,II& Unit-III (first ½ portion) - 2 ½ Unit(August) CIA / Model Examination -Unit-I to Unit V (October)
Assignment	Assignment I –Unit –I and Unit –II (August) Assignment II –Unit –III and Unit – IV (Oct)
Quiz	Quiz Test - Unit I to Unit – V
Seminar	Unit –V
Tutorial Ward Meeting	Convenient Time

Signature of Principal



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PG DEPARTMENT OF COMPUTER SCIENCE

A. GENERAL INFORMATION

Name of the Faculty	: Mrs.K.Kavitha
Department	: Computer Science/Computer Application/Information Technology
Programme	: III B.Sc., Computer Science
Programme code	: UXM
Name of the Paper	: DATA COMMUNICATIONS AND NETWORKING
Lecture Hours/Practical Hours	:90 Hours

B. ABOUT THE COURSE

Course Objectives	Course outcomes	Teaching Methodology
<ul style="list-style-type: none">To understand the basic concepts of data communication, layered model, protocols and interworking between computer networks and switching components in telecommunication systems.Discuss the nature, uses and implications of internet technology.To understand the	<p>On completion of the course students should be able to do</p> <ul style="list-style-type: none">Student will be able to understand various types of transmission media, network devices; and parameters of evaluation of performance for each media and device.Student will be able to understand the concept of flow control, error control and LAN protocols; to explain the design of, and algorithms used in, the	<ul style="list-style-type: none">E- QuizWebinarE-ContentE-ModuleThe Demonstration Lesson

<p>functioning of Frame Relay, ATM.</p> <ul style="list-style-type: none"> An overview of security issues related to data communication in networks. 	<p>physical, data link layers.</p> <ul style="list-style-type: none"> Student will understand the working principles of LAN and the concepts behind physical and logical addressing, subnetting and supernetting. Student shall understand the functions performed by a Network Management System and to analyze connection establishment and congestion control with respect to TCP Protocol. Student shall understand the principles and operations behind various application layer protocols like HTTP, SMTP, FTP. 	
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C. PLAN OF THE WORK

Unit/ Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs
Unit I	<p>Overview and Physical Layer: Introduction: Data Communications - Networks - Network Types, Network Models: TCP/IP Protocol Suite- The OSI Model, Bandwidth utilization : Multiplexing- Spread Spectrum, Transmission Media: Guided Media-Unguided Media,</p>	20.12.22 to 10.01.23	18 Hrs	-

	Switching: Circuit Switched Network- Packet Switching-Structure of a switch.			
Unit II	Data Link Layer: Error Deduction and Correction : Introduction- Cyclic codes- Forward error correction, Data link Control: Data link layer protocols- Media Access Control: Random Access- Controlled Access, Wireless Networks: IEEE 802.11- Bluetooth-Cellular Telephone- Satellite network- Connection devices.	11.01.23 to 02.02.23	18 Hrs	-
Unit III	Network Layer Services : Packet Switching- Network layer performance- IPV4 Addresses- Internet Protocol-Routing Algorithms - IPV6 Addressing.	03.02.23 to 24.02.23	18 Hrs	-
Unit IV	Transport Layer : Transport Layer Protocols- User Datagram Protocol - TCP:TCP Services TCP features - Windows in TCP - Flow Control - Error Control- TCP Congestion Control - TCP timers.	25.02.23 to 15.03.23	18 Hrs	-
Unit V	Application Layers : Client Server Programming - Word Wide Web & HTTP - FTP - Email – DNS.	16.03.23 to 07.04.23	18 Hrs	-

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I to Unit - V CIA / Mid Semester – Unit-I ,II& Unit-III (first ½ portion) - 2 ½ Unit(Feb) CIA / Model Examination -Unit-I to Unit V (Mar)
Assignment	Assignment I –Unit –I and Unit –II (Feb) Assignment II –Unit –III and Unit – IV (Mar)
Quiz	Quiz Test - Unit I to Unit – V
Seminar	Unit –V
Tutorial Ward Meeting	Convenient Time



Signature of the Principal

A. GENERAL INFORMATION

Name of the Faculty : Mrs.K.Kavitha
Department : Computer Science/Computer Application/ Information
Technology
Programme : III BCA
Programme code : KUK
Name of the Paper : PYTHON PROGRAMMING
Lecture Hours/Practical Hours :90 Hours

B. ABOUT THE COURSE

Course Objectives	Course outcomes	Teaching Methodology
<ul style="list-style-type: none">• After learning this course, the learner would have acquired the fundamental knowledge on Python programming• Understood the language and hence the learner becomes skillful in python programming• Known the usage of modules and packages in python• Familiarity with the file concept in python been skillful Experimenting the concepts of OOPs with python language• Capable of solving problems using Python	<p>On completion of the course students should be able to do</p> <ul style="list-style-type: none">• Describe the basic built-in functions and syntax of Python programming.• Explain the mapping and file concept.• Explain the object oriented programming concept.• Illustrate the concepts of decision making and construct statements.• Illustrate the usage of database and regular expression	<ul style="list-style-type: none">• E- Quiz• Webinar• E-Content• E-Module• The Demonstration Lesson

C. PLAN OF THE WORK

Unit/ Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs
Unit I	Python –origins – features – variable and assignment - Python basics - statement and syntax-Identifiers – Basic style guidelines – Python objects – Standard types and other built-in types-Internal types – Standard type operators – Standard type built-in functions	20.12.22 to 10.01.23	18 Hrs	-
Unit II	Numbers - Introduction to Numbers – Integers – Double precision floating point numbers - Complex numbers – Operators – Numeric type functions – Sequences: Strings, Lists and Tuples – Sequences – Strings and strings operators – String built-in methods – Lists -List type Built in Methods – Tuples.	11.01.23 to 02.02.23	18 Hrs	-
Unit III	Mapping type: Dictionaries – Mapping type operators – Mapping type Built-in and Factory Functions - Mapping type built in methods – Conditionals and loops – if statement – else Statement – elif statement – conditional expression – while statement – for statement – break statement – continue statement –	03.02.23 to 24.02.23	18 Hrs	-

	pass statement - Iterators and the iter() function - Files and Input/Output - File objects - File built-in functions - File built-in methods - File built-in attributes - Standard files - command line arguments.			
Unit IV	Functions and Functional Programming - Functions - calling functions - creating functions - passing functions - Built-in Functions: apply(), filter(), map() and reduce() - Modules - Modules and Files - Modules built-in functions - classes - class attributes - Instances.	25.02.23 to 15.03.23	18 Hrs	-
Unit V	Database Programming - Introduction - Basic Database Operations and SQL - Example of using Database Adapters, Mysql - Regular Expression - Special Symbols and Characters - REs and Python.	16.03.23 to 07.04.23	18 Hrs	-

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I to Unit - V CIA / Mid Semester – Unit-I ,II& Unit-III (first ½ portion) - 2 ½ Unit(Feb) CIA / Model Examination -Unit-I to Unit V (Mar)
Assignment	Assignment I –Unit –I and Unit –II (Feb) Assignment II –Unit –III and Unit – IV (Mar)
Quiz	Quiz Test - Unit I to Unit – V
Seminar	Unit –V
Tutorial Ward Meeting	Convenient Time



Signature of the Principal

A. GENERAL INFORMATION

Name of the Faculty	: Mrs.C.Geetha
Department	: Computer Science
Programme	: III B.Sc., Computer Science
Programme code	: BXM
Name of the Paper	: Microprocessor and its Assembly languages
Lecture Hours/Practical Hours	: 90 Hours

B. ABOUT THE COURSE

Course Objectives	Course outcomes	Teaching Methodology
<ul style="list-style-type: none">• To understand the architecture and working principles of Microprocessors.• To write simple assembly language programs and provide knowledge of various real time Microprocessor Applications.• Introduction to the Architecture and programming of the microprocessor 8085.• Learning about interfacing and various applications of microprocessor.• To introduce students	<ul style="list-style-type: none">• Understand the taxonomy of microprocessors and knowledge of contemporary• Describe the architecture, bus structure and memory organization of 8085 as well as higher order microprocessors.• Explore techniques for interfacing I/O devices to the microprocessor 8085 including several specific standard I/O devices such as 8251 and 8255.• Demonstrate programming using the various addressing modes and instruction set of 8085 microprocessor.• Design structured, well commented, understandable	<ul style="list-style-type: none">• E- Quiz• Webinar• E-Content• E-Module• The Demonstration Lesson

with the architecture and operation of typical microprocessors and microcontrollers.	assembly language programs to provide solutions to real world control problems.	
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C. PLAN OF THE WORK

Unit/ Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs
Unit I	Evolution of microprocessors- single chip, microcomputers- Memory-Semiconductor memory, cache memory, Associate and set associate memory, Real and virtual memory, magnetic memory, PCMCIA cards and slots- Buses- Memory address, Capacity of CPU, microcomputers, processing architecture, Intel 8085, Instruction cycle- timing diagram.	20.12.22 to 10.01.23	18 Hrs	-
Unit II	Instruction set of Intel 8085, Instruction and data formats, Addressing modes, status flags, INTEL 8085 Instructions, Programming of Microprocessors, Assemblers, stack and subroutines, macros and Microprogramming.	11.01.23 to 02.02.23	18 Hrs	-
Unit III	Assembly language programming, simple examples, Addition and subtraction of binary and decimal	03.02.23 to 24.02.23	18 Hrs	-

	numbers, complements, shift masking, finding, Max and Min numbers in an array, arranging a series of number, Multiplication, division, Multibyte Addition and subtraction.			
Unit IV	Peripheral devices and interfacing, address space portioning, Memory and I/O Interfacing data transfer schemes, Interrupts of Intel 8085,interfacing devices and I/O devices, I/O ports, Programmable peripheral Interface	25.02.23 to 15.03.23	18 Hrs	-
Unit V	Microprocessor Applications, Delay subroutines, Interfacing of 7 segment LED displays, Frequency measurements, Temperature measurements and Control, water level indicator, Microprocessors based Traffic control	16.03.23 to 07.04.23	18 Hrs	-

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I to Unit - V CIA / Mid Semester – Unit-I ,II& Unit-III (first ½ portion) - 2 ½ Unit(Feb) CIA / Model Examination -Unit-I to Unit V (Mar)
Assignment	Assignment I –Unit –I and Unit –II (Feb) Assignment II –Unit –III and Unit – IV (Mar)
Quiz	Quiz Test - Unit I to Unit – V
Seminar	Unit –V
Tutorial Ward Meeting	Convenient Time



Signature of Principal



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Department of Business Administrative

TEACHING PLAN 2022-2023

A. GENERAL INFORMATION

Name of the Faculty	:	Ms. K. Aarthi
Department	:	Business Administration
Programme	:	B.B.A
Programme Code	:	AUF
Name of the Paper	:	Business Law
Lecture Hours	:	90 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
<p>The Course aim:</p> <ol style="list-style-type: none">1. To impart knowledge about the basic concepts and kinds of contract in Business Law.2. To enable the students to gain knowledge on Quasi Contracts, Performance of Contract.3. To provide knowledge to the students regarding the Law of Sale of Goods, Types and Transfer of goods etc.4. To educate the students about Creation of Agency,	<p>Learners will be able to:</p> <ol style="list-style-type: none">1. To outline the basic concepts and kinds of contract in Business Law.2. To plan to gain knowledge on Quasi Contracts, Performance of Contract.3. To learn about the Law of Sale of Goods, Types and Transfer of goods etc.4. To create an understanding of Agency Creation, Duties and Right of an Agent.5. To assess the knowledge on Consumer Protection Act.	<ol style="list-style-type: none">1. Power Point2. E – Module3. Chalk & Talk Method4. Lecture Method5. Study Assignment Method,6. Seminar Method

Duties and Right of an Agent. 5. To inculcate knowledge on Consumer Protection Act.		
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C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I Content: 15hrs Assessment :3hrs 18Hrs	Introduction: 1. Nature and kinds of contract. 2. Offer and acceptance, consideration. 3. Capacity of parties, Free consent. 4. Legality of object and consideration. 5. Void agreement and Contingent contract.	19.06.22 to 12.07.22	4Hrs 3Hrs 4Hrs 3Hrs 4 Hrs	-	-
Unit II Content: 15hrs Assessment :3hrs 18 Hrs	Quasi Contract: 1. Quasi Contracts 2. Performance of Contracts 3. Discharge of Contracts 4. Remedies for Breach of Contracts.	14.07.22 to 03.08.22	4Hrs 5Hrs 4Hrs 5Hrs	-	-
Unit III Content: 15hrs Assessment :3hrs 18 Hrs	Law of Sale of Goods: 1. Law of Sale of Goods, Sale and agreement to sell , their Distinctions. 2. Types of Goods. 3. Conditions and Warranties 4. Caveat Emptor 5. Transfer of Property , Sale by	4.08.22 to 30.08.22	3 Hrs 2Hrs 1Hr 3Hrs 2 Hrs 3Hrs 2Hrs 2Hrs	-	-

	Non owners 6. Performance 7. Remedies of Breach 8. Unpaid Seller – Auction Sales.				
Unit IV Content: 15hrs Assessment :3hrs 18 Hrs	Law of Agencies : 1. Law of Agencies 2. Creation of Agency 3. Classification of Agent 4. Duties and Right of an Agent and Principal Debtor 5. Termination of Agency.	1.09.22 to 19.09.22	4Hrs 2Hrs 4Hrs 3Hrs 5Hrs	-	-
Unit V Content: 15hrs Assessment :3hrs 18 Hrs	Consumer Production Act: 1. The Consumer Protection Act, 1986 2. Consumer Protection 3. Introduction , Definition, Consumerism ,Consumer Protection Councils 4. Consumer Disputes,Redressal Agencies 5. Their Jurisdiction ,Procedure. 6. Finality of Orders, Limitation. 7. Enforcement of Orders 8. Dismissalof Frivolous or VexatiousComplaints.	20.09.22 to 20.10.22	3 Hrs 2Hrs 1Hr 3Hrs 2 Hrs 3Hrs 2Hrs 2Hrs	-	-

D. ACTIVITIES:

Activities Name	Details
Test	Monthly Test - Unit I & IV
Assignment	Assignment I - Unit I & II Assignment II - Unit III & IV
Quiz	Two Mark Quiz Test - Unit I to Unit V
Seminar	Unit I to V
Tutor Ward Meeting	Monthly Once



Signature of Principal

A. GENERAL INFORMATION:

Name of the Faculty	:	Ms. V. Karthika
Department	:	Business Administration
Programme	:	BBA
Programme Code	:	AUE3
Name of the Paper	:	Advertising and sales management
Lecture Hours	:	60 Hrs

B. ABOUT THE COURSE:

Course objectives	Course Outcomes	Teaching Methodology
The Course Aims 1. To impart knowledge about the important function and Role and Importance of Advertising. 2. To provide information about Advertising Copy, Kinds, Advertising Budget, etc., 3. To inculcate knowledge on Advertising Agency, Mobile and Online Advertising. 4. To educate the students about remuneration of Sales force, Kinds and Qualities of salesman. 5. To expose the Students about sales promotion, objectives, tools and objectives.	On completion of the course the learner will be able 1. To identify the importance of role and functions of Advertising 2. To understand the different kinds of Advertising copy, Advertising Budget etc., 3. To develop knowledge on advertising agency, mobile and online advertising 4. To asses the different qualities and kinds of salesman. 5. To formulate the tools and objectives of sales promotion	1. Power Point. 2. E – Module. 3. Chalk & Talk Method. 4. Lecture Method. 5. Study Assignment Method. 6. Seminar Method

C. PLAN OF THE WORK:

Unit / Modules	Unit to be covered	Proposed Date	Lecture Hrs	Practical Hrs	Remarks
Unit I	Introduction: 1. Advertising 2. Advertising on Element of Marketing Mix. 3. Objectives, Advertising and Salesmanship. 4. Role and Importance, Planning for Advertisement Communication Process. 5. Formal and Informal.	06.07.2022 to 28.07.2022	2 Hrs 3 Hrs 2Hrs 3Hrs 2Hrs	-	-
Unit II	Advertisement Copy and Budget: 1. Advertisement Copy 2. Kinds, Appeals. 3. Advertising Mix. 4. Advertising Budget and Relevant Decision.	01.08.2022 to 14.08.2022	3Hrs 3Hrs 3Hrs 3Hrs	-	-
Unit III	Advertising Agency and Types of Advertising: 1. Advertising and their Role. 2. Types of Advertising 3. Measuring the effectiveness of Advertisement 4. Advertising Agency 5. Online Advertising and Mobile Advertising.	16.08.2022 to 01.09.2022	2 Hrs 2 Hrs 3 Hrs 2 Hrs 3 Hrs	-	-

Unit IV	Salesmanship: 1.Kinds of Salesman. 2.Sales Force for Services, Qualities of Successful Salesman. 3.Training, Promotion. 4.Remuneration to Sales Force, Motivation of Sales Force 5.Methods of Motivation.	04.09.2022 To 13.09.2022	2Hrs 3Hrs 2 Hrs 3Hrs 2Hrs	-	-
Unit V	Sales Promotion: 1.Sales Promotion, Objectives. 2.Advantages. 3.Tools and their effectiveness. 4.Aggressive Selling, Personal Selling. 5.Measuring the effectiveness of Sales.	14.09.2022 To 29.09.2022	2 Hrs 2 Hrs 3Hrs 3Hrs 2Hrs	-	-

D. ACTIVITIES:

Activities Name	Details
Test	Monthly Test - Unit I & IV
Assignment	Assignment I - Unit I & II Assignment II - Unit III & IV
Quiz	Two Mark Quiz Test - Unit I to Unit V
Seminar	Unit I to V
Tutor Ward Meeting	Monthly Once

Signature of Principal



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DEPARTMENT OF BUSINESS ADMINISTRATIVE

A. GENERAL INFORMATION

Name of the Faculty	:	Ms. K. Aarthi
Department	:	Business Administration
Programme	:	B.B.A
Programme Code	:	AUD
Name of the Paper	:	Business Communication
Lecture Hours	:	90 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
<ol style="list-style-type: none">1. To impart knowledge about the importance and types of communication.2. To enable the students to know the Medias, Barriers and Principles of Communication.3. To educate the students to write Business Letters.4. To provide knowledge to the students about Import – Export Correspondence.5. To inculcate the students to Listening and Communication, Internet, Multimedia, Video Conferencing etc.	<p>Learners will be able to</p> <ol style="list-style-type: none">1. To understand the importance and types of communication.2. To gain Knowledge about the Medias, Barriers and Principles of Communication.3. To write Business Letters.4. To acquire knowledge about Import – Export Correspondence.5. To learn about Listening and Communication, Internet, Multimedia, Video Conferencing etc.	<ol style="list-style-type: none">1. Power Point2. E – Module3. Chalk & Talk Method4. Lecture Method5. Study Assignment Method,6. Seminar Method

C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I Content: 15hrs Assessment: 3hrs 18Hrs	Introduction to Communication: 1. Introducing Communication, Meaning and need 2. Importance and types of communication. 3. Internal and external communication. 4. Commercial terms and Abbreviations	20.12.22 to 13.01.23	4Hrs 5 Hrs 6 Hrs 3 Hrs	-	-
Unit II Content: 15hrs Assessment: 3hrs 18 Hrs	Media of communication: 1. Media of communication 2. Verbal and Non-verbal communication. 3. Principles of effective communication. 4. Barriers to communication.	18.01.23 to 04.02.23	4 Hrs 5 Hrs 5 Hrs 4 Hrs	-	-
Unit III Content: 15hrs Assessment: 3hrs 18Hrs	Business Letters: 1. Kinds of business letters. 2. Enquiries and reply. 3. Quotations and sales Letters. 4. Compliance Letter, Claims and Adjustments. 5. Collection Letters, Circular Letter 6. Application Letter.	06.02.23 to 24.02.23	2 Hrs 4 Hrs 3Hrs 4Hrs 3 Hrs 2 Hrs	-	-

Unit IV	Import and Export correspondence: 1.Import and Export Correspondence.	27.02.23 to 16.03.23	4 Hrs 5 Hrs 5 Hrs 4 Hrs	-	-
Content: 15hrs	2. Correspondence of company secretary.				
Assessment: 3hrs	3. Memos and other forms of messages.				
18Hrs	4. Business Report and Business Proposals.				
Unit V	Listening, Internet, video Conferencing: 1.Importance of listening and communication.	17.03.23 to 05.04.23	5 Hrs 4 Hrs 4Hrs 5Hrs	-	-
Content: 15 hrs	2. Principles of effective listening modern technology.				
Assessment: 3hrs	3.Internet,multimedia,Video conferencing.				
18Hrs	4. FAX, E-Mail.				

D. ACTIVITIES:

Activities Name	Details
Test	Unit Test Date – 02.01.23, 07.02.23, 01.03.23, 10.03.23
Assignment	06.01.23, 27.03.23
Quiz	10.01.2023, 08.02.23
Seminar	27.03.23 to 03.04.23
Tutor Ward Meeting	Monthly Once

Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty : Ms. K. Aarthi
Department : Business Administration
Programme : B.B.A
Programme Code : AUS1
Name of the Paper : Front Office Management
Lecture Hours : 30 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
<ol style="list-style-type: none">1. To impart the knowledge about the basic of Front Office Systems.2. To educate the responsibilities of front office in inter-departmental communications and security functions.3. To understand the knowledge about front office management Functions and operations.4. To explain the concept and elements of yield management.5. To enumerate the night audit functions and process.	<p>Learners will be able to</p> <ol style="list-style-type: none">1. To acquire the knowledge about the basic of Front Office System.2. To learn about the responsibilities of front office in inter-departmental communication and security functions.3. To gain the knowledge about front office management Functions and operations.4. To understand the concept and elements of yield management.5. To assess the night audit functions and process.	<ol style="list-style-type: none">1. Power Point2. E – Module3. Chalk & Talk Method4. Lecture Method5. Study Assignment Method,6. Seminar Method

C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I Content: 5 hrs Assessment: 1hr 6Hrs	Introduction : 1. The guest Cycle, Front office System 2. Front office forms 3. The Front desk, front Office Equipment's 4. Front Office Computer Application	20.12.22 To 11.01.23	2 Hrs 2 Hrs 1Hr 1Hr	-	-
Unit II Content: 5 hrs Assessment: 1 hr 6Hrs	Front Office Responsibility: 1. Front office communication. 2. Inter Departmental Communication. 3. Guest Relations. 4. Front Office Security functions.	13.01.23 To 07.02.23	1Hr 2Hrs 2Hrs 1Hr	-	-
Unit III Content: 5 hrs Assessment: 1 hr 6 Hrs	Front Office Management: 1. Management functions. 2. Establishing Rooms Rates. 3. Forecasting Room Availability. 4. Budgeting for Operations. 5. Evaluating Front Office Operations.	09.02.23 to 03.03.23	1 Hr 1 Hr 1 Hr 2 Hrs 1 Hr	-	-
Unit IV Content: 5 hrs Assessment: 1 hr 6Hrs	Yield Management: 1. The concept of Yield and Management. 2. Measuring Yield. 3. Elements of yield Management. 4. Using yield management.	09.02.23 to 30.03.23	2Hrs 1 Hr 2 Hrs 1 Hr	-	-

Unit V	Night Audit:	31.03.23	2Hrs	-	-
	1. Night Audit Functions.	to	1 Hr		
Content:	2. Operation Modes.	10.04.23	1Hr		
5 hrs	3. Night Audit Process.		1Hr		
Assessmen	4. Verifying Night Audit.		1Hr		
t:1 hrs	5. Automated System update.				
6Hrs					

D. ACTIVITIES:

Activities Name	Details
Test	Unit Test Date – 21.01.23, 09.03.23, , 25.03.23
Assignment	27.01.23, 03.03.23
Quiz	23.02.2023, 27.03.23
Seminar	07.02.23 to 10.1.23
Tutor Ward Meeting	Monthly Once

Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty	:	Ms. K. Aarthi
Department	:	Business Administration
Programme	:	B.B.A
Programme Code	:	CUS1
Name of the Paper	:	Indirect Tax Laws
Lecture Hours	:	30 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
<p>The Course aim:</p> <ol style="list-style-type: none">1. To impart knowledge about basic concepts relating to indirect tax laws.2. To enable the students to gain knowledge about GST.3. To provide knowledge about registration under GST4. To educate the students about the procedure to levy (CGST,SGST).5. To inculcate knowledge on procedure to levy IGST.	<p>Learners will be able to:</p> <ol style="list-style-type: none">1. To outline the basic concepts and kinds of contract in Business Law.2. To plan to gain knowledge on Quasi Contracts, Performance of Contract.3. To learn about the Law of Sale of Goods, Types and Transfer of goods etc.4. To create an understanding of Agency Creation, Duties and Right of an Agent.5. To assess the knowledge on Consumer Protection Act.	<ol style="list-style-type: none">1. Power Point2. E – Module3. Chalk & Talk Method4. Lecture Method5. Study Assignment Method,6. Seminar Method

C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I Content: 5hrs Assessment:1hrs 6Hrs	Introduction: 1. Tax and objectives of taxation. 2. Cannons of taxation. 3. Tax system in India. 4. Direct and Indirect Taxes in India.	27.12.22 to 18.01.23	2Hrs 1Hr 1Hr 2Hrs	-	-
Unit II Content: 5hrs Assessment:1hrs 6Hrs	Introduction to Goods and Services Tax: 1. Introduction to GST. 2. Salient features of GST. 3. Advantages and disadvantages of GST. 4. Structure of GST(Dual Model). 5. Central GST, Central GST. 6. State/Union Territory GST, GST Council, Powers and functions	16.08.22 to 03.9.22	1Hr 1Hr 1Hr 1Hr 1Hr	-	-
Unit III Content: 5hrs Assessment:1hrs 6Hrs	Registration under GST: 1. Procedure for Registration, Persons liable for registration. 2. Persons not liable for Registration, Compulsory Registration. 3. Deemed registration, Special Provisions for casual Taxable persons and Non-Resident Taxable persons. 4. Exempted Goods and Services, Rates of GST.	24.01.23 to 10.02.23	1Hr 2Hrs 2Hrs 1Hr	-	-

Unit IV	Procedure to Levy CGST, SGST:	16.02.23	1Hr	-	-
Content:	1. Procedure relating to Levy(CGST,SGST).	to	1Hr		
5hrs	2. Scope of supply.	06.03.23	2Hrs		
Assessme	3. Tax Liability on Mixed and Composite		1Hr		
nt:1hrs	Supply.		1Hr		
6Hrs	4. Time of Supply of Goods and Supply Services.				
	5. Value of Taxable Supply.				
Unit V	Procedure to levy IGST:	11.03.23	1Hr	-	-
Content:	1. Procedure relating to IGST.	to	1Hr		
5hrs	2. Inter- State Supply, Intra-State Supply.	23.03.23	1Hr		
Assessme	3. Zero rates Supply, Value of Taxable		1Hr		
nt:1hrs	Supply.		2Hrs		
6Hrs	4. Computation of Taxable Value and tax Liability.				
	5. Input tax Credit- Eligibility, Apportionment, inputs on Capital Goods.				

D. ACTIVITIES:

Activities Name	Details
Test	Unit Test Date – 13.01.23 , 10.02.23 , 23.03.23 , 03.04.23
Assignment	27.01.23, 20.04.23
Quiz	03.02.23, 11.03.23
Seminar	09.02.23, 05.04.23
Tutor Ward Meeting	Monthly Once


Signature of Principal



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PG DEPARTMENT OF PHYSICS

A. GENERAL INFORMATION

Name of the Faculty	:	S.Aruljothi
Department	:	Physics
Programme	:	B.Sc
Programme Code	:	PU
Name of the Paper	:	Electronics
Lecture Hours / Practical Hours	:	90 Hours

B. ABOUT THE COURSE

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">To enable the students to understand all aspects of electronics in a lucid and comprehensive manner.This course is familiarize the students about the transistor, operational amplifier and Digital electronics CircuitAcquire the fundamental knowledge and application of the semiconductor DeviceKnowledge of the basic principles of electronic circuits operation Performance Analysis of electronic circuitFundamental of analog and digital integrated circuitDesign methodologies using practical integrated circuit	<ul style="list-style-type: none">Explain the theoretical principles essential for understanding the operation of electronic circuitMeasure the characteristics of electronic circuit and present experiment resultAnalyze electrical circuit and calculate the main parametersDevelop Design and create simple analogue and digital electronics circuitUnderstand the fundamentals and area of application for the integrated circuitKnow about the multistage amplifier using BJT and FET various configuration	<ul style="list-style-type: none">Class room Chalk and TalkPower point.e- ModuleClasses through Practical demonstration.Showing modelsto the students to make them understand.

C. PLAN OF THE WORK

Unit / Modules	Topic to be covered	Proposed date	Lecture Hours	Practical Hours	Remarks
Unit I Content- 18 Hrs	<ul style="list-style-type: none"> •semiconductor Intrinsic and extrinsic semi - conductors •PN junction diode Biasing V-I Characteristics •Rectifiers Half wave full wave and Bridge rectifiers •Break down mechanisms Zener diode characteristics of Zener diode •Zener diode as voltage regulator •Bipolar junction transistor Basic configurations •Relation between α and β •Characteristic curves of transistor CB, CE mode •DC load line DC bias and stabilization – fixed bias •voltage divider bias. 	19.07.2022 to 04.08.2022	2 hrs 1hr 2hrs 2hrs 1hr 1hr 1hr 1hr 1hr 2hrs 1hr	-	-
Unit II Content- 18 Hrs	<ul style="list-style-type: none"> •Single stage CE amplifier •Analysis of hybrid equivalent circuit 	05.08.2022 to 26.08.2022	1hr 3hrs	-	-

	<ul style="list-style-type: none"> •Poweramplifiers Efficiency of class A,B & C Power amplifier •General theory of feedback •Properties of negative feedback •Criterion for oscillations Hartley oscillator •Colpitt's oscillator. 		3hrs 2hrs 2hrs 2hrs 2hrs		
Unit III Content- 18 Hrs	<p>NIT III Operational amplifier</p> <ul style="list-style-type: none"> •Operational amplifier Characteristics •Inverting and Non-inverting amplifier •Voltage follower •Adder, Subtractor •Integrator and Differentiatorcircuits •Log & antilog amplifiers Op-amp as Comparator • Filters-low, bandpass, high pass filters •A/Dconversion Successive approximation method • D/A conversion •R-2R ladder network. 	05.09.2022 to 28.09.2022	1hr 2hrs 1hr 2hrs 2hrs 2hrs 2hrs 2hrs 1hr		

<p>Unit IV Content- 18 Hrs</p>	<ul style="list-style-type: none"> • Number Systems, Logic Gates and Boolean Algebra Introduction to decimal, binary, octal, hexadecimal number systems • Inter conversions- 1's and 2's complements - • Logic gates, Symbols and their truth tables - AND, OR, NOT, NAND, NOR, XOR, and XNOR - • Universality of NAND and NOR gates. • Boolean algebra • De-Morgan's theorems - • Reducing Boolean expressions using Boolean laws • SOP forms of expressions (minterms) - • Karnaugh map simplification (Four variables). 	<p>29.09.2022 to 18.10.2022</p>	<p>2hrs</p> <p>1hr</p> <p>1hr</p> <p>2hrs</p> <p>1hr</p> <p>1hr</p> <p>1hr</p> <p>2hrs</p> <p>1hr</p>	<p>-</p>	<p>-</p>
<p>Unit V Content- 18 Hrs</p>	<p>Combinational and Sequential Digital Systems</p> <ul style="list-style-type: none"> • Half and full adders • Half and full subtractors • Decoder (2:4 line) Encoder (4:2 line) 	<p>20.10.2022 to 08.11.2022</p>	<p>1hr</p> <p>1hr</p> <p>2hrs</p> <p>2hrs</p>		

	•Multiplexer(4:1 line) Demultiplexer (1:4 line) -		1hr	-	-
	•Flip flop RS – clocked RS		2hrs		
	•T and D flip flops JK and master slave flip flops		2 hrs		
	•CountersFourbit asynchronousripple counter		1hr		
	•Mod-10counter Synchronoucounter		1hr		
	• Ring counterShift registers •SISO and SIPO shift registers.		2hrs		

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (October) CIA / Mid Semester – Unit-I - Unit-III (December)
Assignment	Assignment I –Unit –I and Unit –II (October) Assignment II – Unit –III and Unit – IV (November)
Seminar	Unit –IV (December)
Quiz	Two Mark Quiz Test - Unit I – Unit – IV (December)
Tutorial Ward Meeting	Every Saturday

Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty : S.Aruljothi
Department : Physics
Programme : M.Sc
Programme Code : PG
Name of the Paper : Statistical mechanics
Lecture Hours / Practical Hours :90 Hours

B. ABOUT THE COURSE

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">• To understand the properties of macroscopic systems using the knowledge of the properties of individual particles.• The Statistical Basis of Thermodynamics: The macroscopic and microscopic states, contact between statistics and thermodynamics, classical ideal gas, Gibbs paradox and its solution.• Ensemble Theory: Phase space and Liouville's Theorem, The microcanonical ensemble theory and its application to ideal gas of monatomic particles, Partition function, Classical ideal gas in canonical ensemble theory, Energy fluctuations• Equipartition and virial theorems, A system of• harmonic oscillators as canonical ensemble, Thermodynamics of magnetic systems and negative temperatures, The grand canonical ensemble and significance of statistical	<p>Students will have achieved the ability to:</p> <ol style="list-style-type: none">1. find the connection between statistics and thermodynamics.2. differentiate between different ensemble theories used to explain the behavior of the systems.3. differentiate between classical statistics and quantum statistics.4. explain the statistical behavior of ideal Bose and Fermi systems.	<ul style="list-style-type: none">• Class room Chalk and Talk Power point.• e- Module• Classes through Practical demonstration.• Showing models to the students to make them understand.

<p>quantities. Classical ideal gas in grand canonical ensemble theory. Density and energy fluctuations.</p> <ul style="list-style-type: none"> • Ideal Bose Systems: Basic concepts and thermodynamic behavior of an ideal Bose gas, Bose-Einstein condensation, Discussion of gas of photons (the radiation fields) and phonons (The Debye field), Liquid helium and super fluidity. Ideal Fermi Systems: Thermodynamic behavior of an ideal Fermi gas, • Discussion of heat capacity of a free-electron gas at low temperatures. 		
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C. PLAN OF THE WORK

Unit / Modules	Topic to be covered	Proposed date	Lecture Hours	Practical Hours	Remarks
Unit I Content- 18 Hrs	<ul style="list-style-type: none"> • Thermo dynamical laws and their consequences • Entropy Changes in entropy in reversible processes • Principle of increase of entropy • Thermodynamic functions- Enthalpy, • Helmholtz and Gibbs functions • Phase transitions 	19.07.2022 to 04.08.2022	3hrs 3hrs 2hrs 2hrs 2 hrs 1hr	-	-

	<ul style="list-style-type: none"> • Clausius-Clayperon equation • Van der Wall equation of state. 		3hrs 2 hrs		
Unit II Content- 18 Hrs	<ul style="list-style-type: none"> • Boltzman transport equation and its validity • Boltzmann's H-theorem - • Relation between H-function and entropy • Maxwell--Boltzmann distribution • Meanfreepath • Conservation laws • Transportphenomena • Viscosity of gases • Thermal conductivity Diffusion process. 	05.08.2022 to 26.08.2022	3hrs 3hrs 2hrs 2hrs 2 hrs 1hr 3hrs 2 hrs	-	-
Unit III Content- 18 rs	<ul style="list-style-type: none"> • Classical Statistical Mechanics Review of probability theory • Macro and micro states • Phase space Statistical ensembles Density function • Liouville's theorem - • Maxwell—Boltzmann distribution law • Micro canonical ensemble Ideal gas Entropy 	05.09.2022 to 28.09.2022	3hrs 3hrs 2hrs 2hrs 2 hrs 1hr	-	-

	<ul style="list-style-type: none"> • Partition function Equipartition theorem • Canonical and grand canonical ensembles. 		3hrs 2 hrs		
Unit IV Content- 18 rs	<ul style="list-style-type: none"> • Basic concepts Ideal quantum gas • Bose-Einstein statistics • Photon statistics • Fermi-Dirac statistics • Sackur-Tetrode equation • Equation of state • Bose-Einstein condensation • Comparison of classical and quantum statistics. 	29.09.2022 to 18.10.2022	3hrs 3hrs 2hrs 2hrs 2 hrs 1hr 3hrs 2 hrs	-	-
Unit V Content- 18 Hrs	<ul style="list-style-type: none"> • Applications of Quantum statistical Mechanics • Ideal Bose System: • Photons Black body and Planck radiation • Specific heat of solids • Liquid helium. • Ideal Fermi System: Properties Degeneracy • Electron gas -Pauli paramagnetism. • Ferromagnetism: Ising and Heisenberg models. 	20.10.2022 to 08.11.2022	3hrs 3hrs 2hrs 2hrs 2 hrs 1hrs 3hrs 2 hrs	-	-

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (October)
	CIA / Mid Semester – Unit-I - Unit-III (December)
Assignment	Assignment I –Unit –I and Unit –II (October)
	Assignment II – Unit –III and Unit – IV (November)
Seminar	Unit –IV (December)
Quiz	Two Mark Quiz Test - Unit I – Unit – IV (December)
Tutorial Ward Meeting	Every Saturday



Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty	: Ms. R.Rubashri,
Department	: Physics
Programme	: B.Sc
Programme Code	: UP
Name of the Paper	: OPTICS
Lecture Hours / Practical Hours	:75 Hours

B. ABOUT THE COURSE

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">• The main objective of this subject is to aware the students about various phenomenon of waves and optics.• First unit of deals with the Fourier analysis and Fourier transformation.• The second deals with the matrix method in order to explain various phenomenon.• The third unit describe the Phenomenon like interference phenomenon.• To understand geometrical optics as the small wavelength limit of wave optics and the relationship between rays and wavefronts.• To understand the effect of thin	<p>. Learning Outcomes After the completion of the course, Students will be able to</p> <ul style="list-style-type: none">• Understand the physics behind various phenomenon in wave and optics.• Understand various phenomenon and the cause or origin of them.• Explain the relationship in between various optical phenomenon with the Fourier series and matrix.• Understand the properties of light like reflection, refraction, interference, diffraction etc• Understand the applications of diffraction and	<ul style="list-style-type: none">• Class room Chalk and Talk• Power point.• e- Module• Classes through Practical demonstration.• Showing models to the students to make them understand.

transmissive components on optical waves.	polarization. <ul style="list-style-type: none"> Understand the applications of interference in design and working of interferometers. 	
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C. PLAN OF THE WORK

Unit / Modules	Topic to be covered	Proposed date	Lecture Hours	Practical Hours	Remarks
UNIT I Content- 15Hrs	<ul style="list-style-type: none"> Spherical aberration Spherical aberration of a thin and thick lens Methods of reducing Spherical aberration Coma Aplanatic surface Astigmatism Curvature of the field Meniscus lens Distortion Chromatic aberration Chromatic aberration in a lens Circle of least Chromatic aberration Achromatic lenses. 	19.07.2022 to 04.08.2022	2 hrs 2 hrs 2 hrs 1 hr 1 hr 2 hrs 1 hr 1 hr 1 hr 1 hr 1 hr 1 hr 1 hr	-	-
UNIT II Content- 15Hrs	Air wedge Newton's rings <ul style="list-style-type: none"> Haidinger's fringes Brewster's fringes Michelson 	05.08.2022 to 26.08.2022	1 hr 1 hr 1 hr 1 hr		

	<p>Interferometer and its applications</p> <ul style="list-style-type: none"> • Fabry- Perot Interferometer • Interference filter • Stationary waves in light • Colour photography (qualitatively) • Holography • Construction and reconstruction of a hologram • Applications. 		<p>1 hr</p> <p>2 hrs</p> <p>1 hr</p> <p>1 hr</p> <p>1 hr</p> <p>1 hr</p> <p>1 hr</p> <p>2 hrs</p>		
<p>UNIT III</p> <p>Content- 15Hrs</p>	<ul style="list-style-type: none"> • Fresnel's diffraction • Diffraction at a (1) circular aperture (2) Straight edge (3) narrow wire • Fraunhofer diffraction at a single slit • Double slit • Missing orders in a Double slit • Diffraction pattern • Grating (theory) • Oblique incidence • Overlapping of spectral lines - Resolving power • Rayleigh's criterion of resolution 	<p>05.09.2022</p> <p>to</p> <p>28.09.2022</p>	<p>1 hr</p> <p>1 hr</p> <p>1 hr</p> <p>1 hr</p> <p>1 hr</p> <p>2 hrs</p> <p>1 hr</p>	-	-

	<ul style="list-style-type: none"> • Resolving power of a Telescope and Grating • Dispersive power and resolving power of a grating. 				
UNIT IV Content- 15Hrs	<ul style="list-style-type: none"> • Nicol prism • Nicol prism as an analyzer and polarizer • Huygens's explanation of Double refraction in uniaxial crystals • Double Image polarizing prisms • Elliptical and Circularly polarized light • Production and detection • Quarter wave and half wave plates • Babinets compensator • Optical activity • Fresnel's explanation of optical activity • Laurent's Half shade polarimeter. 	29.09.2022 to 18.10.2022	1 hr 1 hr 1 hr 1 hr		
UNIT V Content- 15Hrs	<ul style="list-style-type: none"> • Microscopes • Simple Microscope (Magnifying glass) • Compound Microscope • Ultra-Microscope 	20.10.2022 to 08.11.2022			

	<ul style="list-style-type: none"> • Eyepieces - Huygen's Eyepiece • Ramsden's Eyepiece • Comparison of Eyepieces • Telescope • Refracting astronomical telescope • Abbe Refractometer • Pulfrich refractometer • Prism binoculars. 				
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D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (October)
	CIA / Mid Semester – Unit-I - Unit-III (December)
Assignment	Assignment I – Unit –I and Unit –II (October)
	Assignment II – Unit –III and Unit – IV (November)
Seminar	Unit –IV (December)
Quiz	Two Mark Quiz Test - Unit I – Unit – IV (December)
Tutorial Ward Meeting	Every Saturday



Signature of Principal



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PG DEPARTMENT OF PHYSICS

A. GENERAL INFORMATION

Name of the Faculty	: Dr.N.Lavanya
Department	: Physics
Programme	: B.Sc
Programme Code	: UM
Name of the Paper	: ALLIED PHYSICS III
Lecture Hours / Practical Hours	: 75 Hours

B. ABOUT THE COURSE

Course Objectives	Course outcomes	Teaching Methodology
<ul style="list-style-type: none">• To give a broader perspective of basic physics.• To get a good exposure to the basic concepts of Physics.• To enable them to apply concepts related to Physics in their careers.• To familiarize the learner with applications of Physics.• To expose the under graduate students to the fundamentals of analog and digital electronics.	<p>Understanding</p> <ul style="list-style-type: none">• Explain how this information is physical understanding of these systems.• Apply Electrical circuits for understanding the concept.• A broad qualitative knowledge of Physics.• Perform and describe physical processes.• Carry out the understanding of some of the physical concepts.	<ul style="list-style-type: none">• Class room Chalk and Talk• Power point.• e- Module• Classes through Practical demonstration.• Showing models to the students to make them understand.

C. PLAN OF THE WORK

Unit/ Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I Content- 15 Hrs	<ul style="list-style-type: none"> Coulomb's law- Guass's theorem, its application field due to an infinite long plane, Sphere and Cylinder – Mechanical force on the surface of a charged conductor- Formation of cloud and charged particles. Capacitors-Principles of a capacitor-capacity of a capacitor capacity of Spherical and cylindrical capacitor Energy of a charged capacitor-sharing of charges and loss of energy 	20.12.2022 to 05.01.2023	2 hrs 3 hrs 2 hrs 3 hrs 2 hrs 3 hrs	-	-
Unit II Content- 15 Hrs	<ul style="list-style-type: none"> Kirchhoff's Laws Wheat stone's net work Carey Foster Bridge Determination of resistance. Circuit control and 	06.01.2023 to 27.01.2023	3 hrs 2 hrs 3 hrs 2 hrs 2 hrs 3 hrs	-	-

	Protective Devices Switch-its types- <ul style="list-style-type: none"> • Fuse • Circuit Breakers Relays. 				
Unit III Content- 15 Hrs	<ul style="list-style-type: none"> • Atom model- Vector atom model • Various Quantum Numbers • Pauli's Exclusion Principle. • X-Rays Continuous and Characteristics of X-ray • Bragg's law- • Determination of Crystal Structure by Laue's Powder Photo Graph Method. 	30.01.2023 to 15.02.2023	2hrs 3 hrs 2 hrs 2 hrs 3 hrs 3 hrs	-	Mid Semester Examination to be conducted
Unit IV Content- 15 Hrs	<ul style="list-style-type: none"> • Nucleus-Nuclear size • Nuclear Charge-Mass and Spin • Liquid drop model • Shell model, Nuclear fission and fusion- Nuclear reactor • Betatron • Bubble Chamber. 	16.03.2023 to 14.03.2023	2 hrs 3 hrs 2 hrs 3 hrs 2 hrs 3hrs	-	-
Unit V Content- 15 Hrs	<ul style="list-style-type: none"> • P-N junction-V-I Characteristics of junction diode • Zener Diode- V-I 	15.03.2023 to 12.04.2023	2 hrs 3 hrs 2 hrs 3 hrs	-	Model Semester Examination to be

	<p>Characteristics</p> <ul style="list-style-type: none"> • Voltage regulator using Zener Diode. • Logic Gates: AND, OR, NOT gates-using discrete components- • NAND and NOR Gates as Universal building blocks – • Demorgan’s theorem-Verification. <p>Elementary ideas of ICS, SSI, MSI, LSI and VLSI.</p>		<p>2 hrs</p> <p>3 hrs</p>		conducted
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D. ACTIVITIES

Activities Name	Details
Test	<p>Monthly Test- Unit-I (Jan)</p> <p>CIA / Mid Semester – Unit-I - Unit-III (Feb)</p> <p>CIA / Model Examination – Unit I – Unit V (April)</p>
Assignment	<p>Assignment I –Unit –I and Unit –II</p> <p>Assignment II – Unit –III and Unit – IV</p>
Seminar	Unit –V (April)
Quiz	Two Mark Quiz Test - Unit I – Unit – V
Mentor Mentee Meeting	VI Day Order

Signature of the Principal

A. GENERAL INFORMATION

Name of the Faculty	: Dr.N.Lavanya
Department	: Physics
Programme	: B.Sc
Programme Code	: UM
Name of the Paper	: NUCLEAR AND PARTICLE PHYSICS
Lecture Hours / Practical Hours	: 90 Hours

B. ABOUT THE COURSE

Course Objectives	Course outcomes	Teaching Methodology
<ul style="list-style-type: none">• To understand constituents, properties and models of nucleus.• To give reason for radioactivity and study their properties.• To learn about the principles of various particle detectors and accelerators.• To acquire knowledge on different types of nuclear reactions and their applications. <p>To know the reason for cosmic rays and their effect on the surface of earth and also understand the classification of elementary particles.</p>	<ul style="list-style-type: none">• Describe various models that explain about the nuclear structures• Give reason for various kinds of radioactivity and also know laws governing them• Know the principles and applications of various particle detectors and accelerators.• Discuss the concepts used in nuclear reaction.• Classify various elementary particles and study the effect of cosmic rays.	<ul style="list-style-type: none">• Class room Chalk and Talk• Power point.• e- Module• Classes through Practical demonstration.• Showing models to the students to make them understand.

C. PLAN OF THE WORK

Unit/ Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I Content- 18 Hrs	<ul style="list-style-type: none"> • Classification of nuclei • Binding energy and stability of nucleus, Mass defect and Packing fraction, Binding fraction Vs Mass number curve • Nuclear size and Nuclear spin • Nuclear forces. • Nuclear Models 	20.12.2022 to 05.01.2023	2 hrs 4 hrs 4 hrs 4 hrs	-	-
Unit II Content- 18 Hrs	<ul style="list-style-type: none"> • Radioactive decay law • Radioactive chain • Radioactive dating • α- decay • Geiger-Nuttall law • Gamow's theory • Neutrino hypothesis 	06.01.2023 to 27.01.2023	3 hrs 2 hrs 2 hrs 2 hrs 3 hrs 3 hrs 3 hrs	-	-
Unit III Content- 15Hrs	<ul style="list-style-type: none"> • Linear accelerator • Cyclotron • Betatron • Radiation Detectors • Ionisation Chamber • Counters • Solid state track 	30.01.2023 to 15.02.2023	2 hrs 2 hrs 2 hrs 3 hrs 2hrs 3 hrs 2hrs	-	Mid Semester Examination to be conducted

	detector <ul style="list-style-type: none"> • Semiconductor detector. 		2hrs		
Unit IV Content- 18 Hrs	<ul style="list-style-type: none"> • Nuclear reactions • Types of nuclear reactions • Solution of the Q- value equation • Nuclear fission • Nuclear chain reaction • Nuclear reactor 	16.03.2023 to 14.03.2023	3hrs 3hrs 3hrs 3hrs 3hrs	-	-
Unit V Content- 18 Hrs	<ul style="list-style-type: none"> • Classification of elementary particles • Conservation laws • Antiparticles • Resonance particles • Nucleus – Symmetry • Classification of elementary particles • Quark model. 	15.03.2023 to 12.04.2023	3 hrs 2 hrs 2 hrs 3 hrs 3 hrs 3 hrs	-	Model Semester Examination to be conducted

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (Jan) CIA / Mid Semester – Unit-I - Unit-III (Feb) CIA / Model Examination – Unit I – Unit V (April)
Assignment	Assignment I –Unit –I and Unit –II Assignment II – Unit –III and Unit – IV
Seminar	Unit –V (April)
Quiz	Two Mark Quiz Test - Unit I – Unit – V
Mentor Mentee Meeting	VI Day Order



Signature of the Principal

A. GENERAL INFORMATION

Name of the Faculty	:	S.Aruljothi
Department	:	Physics
Programme	:	B.Sc
Programme Code	:	PU
Name of the Paper	:	Material Science
Lecture Hours /Practical Hours	:	90 Hours

B. ABOUT THE COURSE

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">• To develop knowledge in material science and to understand the relationship between properties and material characteristics.• This course provides students an understanding of basic structure and crystal arrangement of materials, the phase diagrams, advantages of heat treatment and the method of heat treatment processes, powder metallurgy processes.• The need and application of composite materials.• Introduce the concept of structure property relations.• Develop intuitive understanding of the subject to present a wealth of real world engineering examples to give students a feel of how material science is useful in engineering practices.	<ul style="list-style-type: none">• Upon completion of this course the student will be able to• Identify the properties of metals with respect to crystal structure and grain size• Interpret the phase diagrams of materials• Classify and Distinguish different types of cast irons, steels and non ferrous alloys• Describe the concept of heat treatment of steels & strengthening mechanisms	<ul style="list-style-type: none">• Class room Chalk and Talk• Power point.• e-Module• Classes through Practical demonstration.• Showing models to the students to make them understand.

C. PLAN OF THE WORK

Unit /Modules	Topic to be covered	Proposed date	Lecture Hours	Practical Hours	Remarks
Unit I Content- 18Hrs	Crystal Structure <ul style="list-style-type: none"> • Types of crystals space lattice • Basis- unit cell and lattice parameters • Bravais lattices- • Lattice planes and Miller indices • Inter planar spacing in a cubic lattice • SC ,BCC ,FCC • Sodium chloride • Diamond crystal structure • Bonding of solids Ionic bond • Covalent & Metallic bond • Hydrogen bond 	20.12.2022 to 05.01.2023	2hrs 1hrs 2hrs 2hrs 1 hr 1 hr 2hrs 1hr 2hrs 1hr	-	3HRs(Practical CIA)
Unit II Content- 18Hrs	Mechanical Behavior of Materials <ul style="list-style-type: none"> • Different mechanical • properties of engineering materials • creep & Fracture • technological properties • factors affecting mechanical properties of 	06.01.2023 to 27.01.2023	1hr 2hrs 1hr 2hrs 2hrs 2hrs 1hr 2hrs	-	3HRs(Practical CIA)

	<p>material</p> <ul style="list-style-type: none"> • Heat treatment-cold and hot working- • Types of mechanical tests- • Metal forming process-Deformation of metals- • Deformation of crystals polycrystalline materials. 				
<p>Unit III Content- 18Hrs</p>	<p>Super Conducting Materials</p> <ul style="list-style-type: none"> • Superconductivity • Properties- • Meissner's effect- • London equations • •Typesof superconductors • Type I and Type II • High temperaturesuperconductors • Josephson effects and its applications • SQUIDS • Applications of superconductor • BCS Theory (Basic Idea.) 	<p>30.01.2023 to 15.02.2023</p>	<p>2hrs 2hrs 1hr 2hrs 2hrs 2hrs 1hr 2hrs 1hr</p>	-	<p>3HRs(Practical CIA)</p>

<p>Unit IV Content- 18Hrs</p>	<p>Nano Materials</p> <ul style="list-style-type: none"> • Types of nano materials 1D ,2D ,&3D • Properties of nanomaterials size dependent • synthesis of nanomaterials • Fullerenes • Application of nanomaterials • Carbon nanotubes • Fabrication • structure of carbon nano tubes • Properties of carbon nanotubes • MechanicalElectrical • Applications of CNT's. 	<p>16.03.2023 to 14.03.2023</p>	<p>2hrs 1hr 1hr 2hr 2hrs 1hr 2hrs 2hrs 2hrs</p>	<p>-</p>	<p>3HRs(Practical CIA)</p>
<p>Unit V Content- 18Hrs</p>	<p>Smart Materials</p> <ul style="list-style-type: none"> • •Metallicglass • Applications • Fiber reinforced metals • SAW Materials • Applications of • Biomaterials • Ceramic • Nuclear engineering materials • Nanophase materials • SMART materials • Conducting polymers 	<p>15.03.2023 to 12.04.2023</p>	<p>1hr 1hr 2hr 2hr 1hr 1hr 1hr 1hr 2hrs 1hr 2hrs</p>	<p>-</p>	<p>3HRs(Practical CIA)</p>

	<ul style="list-style-type: none"> • Optical materials • Fiber optic materials Applications. 				
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E. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (Jan) CIA / Mid Semester – Unit-I - Unit-III (Feb) CIA / Model Examination – Unit I – Unit V (April)
Assignment	Assignment I –Unit –I and Unit –II Assignment II – Unit –III and Unit – IV
Seminar	Unit –V (April)
Quiz	Two Mark Quiz Test - Unit I – Unit – V
Mentor Mentee Meeting	VI Day Order


Signature of Principal



A.D.M College For Women (Autonomous)

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Nagapattinam -611 001

TamilNadu.



DEPARTMENT OF TAMIL

A. GENERAL INFORMATION

Name of the Faculty	:	Dr.M.Stellamary
Department	:	Tamil
Programme	:	BA
Programme Code	:	BAT
Name of the Paper	:	இக்கால இலக்கியம்
Lecture Hours	:	75 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
<p>❖ இலக்கிய வரலாற்றுப் பின்னணியில் இக்காலத் தமிழ் இலக்கியங்களை அறிந்து கொள்ள வாய்ப்பளித்தல்.</p> <p>❖ கவிதை, சிறுகதை, புதினம், நாடகம், கட்டுரை ஆகிய படைப்பியல் வகைகளைப் பற்றிய பரந்துபட்டபுலமையைப் பெருக்குதல்.</p>	<p>❖ இலக்கியங்கள் வாயிலாக மாணவர்கள் பல்வகைப்பட்ட சமூகப் போக்குகளையும் மக்களின் பண்புநலன்களையும் அறிந்துகொள்ள இயலும்.</p> <p>❖ பல வகையான இலக்கிய வாசிப்பின் வழி மாணவர்கள் கவிஞர், சிறுகதையாசிரியர், புதினப் படைப்பாளர், நாடக ஆசிரியர், கட்டுரையாளர்,</p>	<p>❖ பாரதியார் போன்ற கவிஞர் பற்றி எடுத்துக் கூறுதல், பேசுதல், எழுதவைத்தல்</p> <p>❖ Power Point</p> <p>❖ E - Module</p> <p>❖ Lecture Method</p> <p>❖ PDF</p> <p>❖ Whatsapp</p>

❖ இக்காலத் தமிழ்
இலக்கியங்களின்
உள்ளடக்கம், வெளியீட்டு
நெறி, படைப்பியல்
கொள்கை ஆகியவற்றை
அறியச் செய்தல்.

❖ இலக்கியக்
கொள்கைகளின்
அடிப்படையில் இக்கால
இலக்கியங்களைத்
திறனாய்வு செய்யப்பயிற்சி
அளித்தல்.

❖ படைப்புத் துறையிலும்,
ஊடகத்துறையிலும்,
கல்விப்புலத்திலும்,
அயல்நாடுகளிலும்,
வேலைவாய்ப்பினைப்
பெறுதற்குத்
துணைசெய்தல்.

நடிகர், இயக்குநர்,
இசையாளர் உள்ளிட்ட
பணிநிலைகளுக்கு
உயர்வதற்கான
வாய்ப்பினைப் பெறுவர்.

❖ சமகாலப் படைப்பாளர்களை
நேரில் சந்தித்து அவர்களின்
படைப்பு அனுபவங்களை
அறிந்து மாணவர்கள்
தங்களின் ஆளுமை
மேம்பாட்டிற்குப்
பயன்படுத்திக்
கொள்ளஇயலும்.

❖ மாணாக்கரின் கற்பனை வளம்
பெருகும்.

❖ பன்முகப் படிநிலைகளில்
வாழும் மனிதர்களின்
உணர்வியலை உளவியல்
நோக்கில் அறிய முடியும்.

C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I Content- 12 Hrs, Assessment -3 Hrs Total - 15 Hrs	பாரதியார், பாரதிதாசன், வாணிதாசன், முடியரசன், சுரதா, கண்ணதாசன், வைரமுத்து, அப்துல் இரகுமான், நா.காமராசன், மு.மேத்தா, ஈரோடு தமிழன்பன்.	03.07.2023 to 19.07.2023	15 Hrs	-	-
Unit II Content- 12 Hrs, Assessment -3 Hrs Total - 15 Hrs	தமிழின் சிறந்த 100 சிறுகதைகள் தொகுப்பு - எஸ். ராமகிருஷ்ணன் (தேர்வு செய்யப்பட்ட 10 சிறுகதைகள்)	20.07.2023 to 05.08.2023	15 Hrs	-	-
Unit III Content- 12 Hrs, Assessment -3 Hrs Total - 15 Hrs	சுருந்தி (புதினம்) - முத்துநாகு	06.08.2023 to 21.08.2023	15 Hrs	-	-
Unit IV Content- 12 Hrs, Assessment -3 Hrs	கலைவாணர்	22.08.2023 to 15.09.2023	15 Hrs	-	-

Total - 15 Hrs					
Unit V Content- 12 Hrs, Assessment -3 Hrs Total - 15 Hrs	கடலோடி-நரசய்யா	18.09.2023 to 07.10.2023	15 Hrs		

D. ACTIVITIES:

Activities Name	Details
Test	Unit Test Date 10.08.2023,22.09.2023,16.10.2023
Assignment	20.09.2023,15.10.2023
Quiz	12.10.2023
Seminar	24.09.2023,06.10.2021,12.10.2023
Mentor Mentee Meeting	Every VI Day Order

Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty	:	Dr.R.Veera
Department	:	Tamil
Programme	:	BA
Programme Code	:	BAT
Name of the Paper	:	மகளிரியல்
Lecture Hours	:	60 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">❖ பெண்கல்வி, பெண் முன்னேற்றம், பெண் விடுதலை போன்றவற்றை அறியச் செய்தல்.❖ பெண்களுக்கான சட்டங்களை அறியச் செய்தல்.❖ பெண் சுகாதாரம் பற்றி உணரச் செய்தல்.❖ மகப்பேறு விழிப்புணர்வு கருத்துக்களை அறிதல்.	<ul style="list-style-type: none">❖ பெண்களை பற்றிய அறிஞர்களின் விளக்கங்களையும் தொல் சமூக மகளிர் நிலைப்பற்றியும் அறிவர்.❖ மகளிர் உரிமைகள் சட்டங்களை அறிவர்.❖ மகளிர்க்கான கல்வி நிலை சாதனைப் பெண்களைப் பற்றிய தெளிவு பெறுவர்.❖ பெண்கள் எதிரிக்கொள்ளும் சிக்கல்களையும்,	<ul style="list-style-type: none">❖ வகுப்பறையில் பாடம் பற்றி பேசுதல், எழுதுதல்.❖ Power Point❖ E - Module❖ Lecture Method❖ PDF❖ Whatsapp

<p>❖ சுய உதவிக்குழுக்கள் பற்றி கருத்துக்களை தெரிவித்தல்.</p>	<p>பெண்களின் பணிகளையும் உணர்வர்.</p> <p>❖ பெண் சுகாதாரம் மற்றும் ஊடகத்துறையில் பெண்களுக்கான வேலை வாய்ப்பு சுய உதவிக்குழுக்கள் பற்றி அறிவர்.</p>	
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C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I Content- 9 Hrs, Assessment -3 Hrs Total - 12 Hrs	<p>❖ பெண்ணியம் முன்னோட்டம்:</p> <p>பெண்ணியம் சொற்பொருள் விளக்கம் -</p> <p>பெண்ணியம் பல்வேறு அறிஞர்களின் கருத்து விளக்கம்</p>	19.06.2023 to 16.07.2023	9 Hrs 3 Hrs	-	-
Unit II Content- 9 Hrs, Assessment -3	<p>பெண்ணியம் தோற்றமும்</p>	18.07.2023 to 14.08.2023	5 Hrs	-	-

Hrs Total - 12 Hrs	வளர்ச்சியும் - பெண்ணிய வகைப்பாடுகளும், நான்கு பெரும் பிரிவுகளும் (மித, தீவிரவாத, மார்க்சிய, சமதர்ம) பெண்ணியக் கோட்பாடுகள் - பெண் நிலைக் கருத்துக்கள், தொல், சமூகத்தில் மகளிர்.		5 Hrs 2 Hrs		
Unit III Content- 9 Hrs, Assessment -3 Hrs Total - 12 Hrs	❖ பால்சார்பு நிலையும் பெண்ணடிமைத்தன மும்: மனுசாத்திரம் கூறும் மகளிர் பற்றிய கருத்துக்கள்	15.08.2023 to 30.08.2023	9 Hrs 3 Hrs	-	-
Unit IV Content- 9 Hrs, Assessment -3 Hrs Total - 12 Hrs	❖ பெண் அடிமைக்கான காரணங்கள் ❖ மண் உறவுகளும் பெண்ணடிமையும் - மகளிர்க்கான	01.09.2023 to 25.09.2023	9 Hrs 3 Hrs	-	-

	உரிமைகளும் சட்டங்களும்				
Unit V Content- 9 Hrs, Assessment -3 Hrs Total - 12 Hrs	❖ மகளிர்க்கான கல்வியும், பணியும்: மகளிர்க்கல்வி - அதன் நோக்கங்கள், மகளிர்க்கான ஆரோக்கியம் ❖ மகளிர் மேம்பாடு - சாதனை படைத்த, படைக்கும் மகளிர்.	27.09.2023 to 10.10.2023	9 Hrs 3 Hrs	-	-

D. ACTIVITIES:

Activities Name	Details
Test	10.08.2023,15.09.2023,12.10.2023
Assignment	20.09.2023,15.10.2023
Quiz	10.10.2023
Seminar	18.09.2023, 12.10.2023
Mentor Mentee Meeting	Every VI Day Order

Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty	:	Dr.R.Veera
Department	:	Tamil
Programme	:	BA
Programme Code	:	BAT
Name of the Paper	:	மதிப்புக் கல்வி
Lecture Hours	:	30 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">❖ வாழ்வியல் தத்துவ நெறிகளை உணர்ந்து கொள்ளச் செய்தல்.❖ சமுதாய மதிப்புகளை ஆய்வு செய்ய உதவுதல்.❖ தனிமனித பண்புகளை உணர்ந்து கொள்ள வழிகாட்டுதல்.❖ உடல் நலம் பேண வழிவகைச் செய்தல்.❖ கல்வி மூலம் சமாதனம் மற்றும்	<ul style="list-style-type: none">❖ வாழ்வியல் தத்துவங்களை அறிந்து கொள்ளுகிறார்கள்.❖ தனிமனிதப் பண்புகளை வளர்த்துக் கொள்ளுகிறார்கள்.❖ சமுதாய மதிப்புகள் பற்றி தெரிந்து கொள்கின்றனர்.❖ மனிதவள மேம்பாடு பற்றி அறிகிறார்கள்.	<ul style="list-style-type: none">❖ வகுப்பறையில் பாடம் பற்றி பேசுதல், எழுதுதல்.❖ Power Point❖ E – Module❖ Lecture Method❖ PDF❖ Whatsapp

கலாச்சாரம் வளர்ப்பு பற்றி விளக்குவது	❖ உடல், மன நலம் பேணல் பற்றி தெரிந்து கொள்கின்றனர்.	
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C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I Content- 4 Hrs, Assessment -2 Hrs Total - 6 Hrs	❖ வாழ்க்கை - வாழ்வின் நோக்கம் - வாழ்க்கைத் தத்துவம் - இயற்கை நியதி ❖ பிற உயிர் பேணல் - ஐந்தொழுக்கப் பண்பாடு - இரண்டொழுக்கப் பண்பாடு ❖ இயற்கை வளம் காத்தல் - சுற்றுச் சூழலும் இயற்கை வளங்களும்	03.07.2023 to 19.07.2023	2 Hrs 2 Hrs 2Hrs	-	-

	கெடுவதற்குக் காரணம்.				
Unit II Content- 4 Hrs, Assessment -2 Hrs Total - 6 Hrs	<p>❖ பண்பாடு - எண்ணம் ஆராய்தல் - ஆசை சீரமைத்தல் - ஆசைகளை சீரமைக்கும் பயிற்சி விளக்கம்</p> <p>❖ சினம் தவிர்த்தல் - சினத்தால் வரும் கேடுகள்</p> <p>❖ கவலை ஒழித்தல் - வாழ்த்தும் பயனும் - அன்பும் கருணையும் - தனிமனித அமைதி.</p>	20.07.2023 to 05.08.2023	2 Hrs	-	-
			2 Hrs		
			2 Hrs		

<p>Unit III Content- 4 Hrs, Assessment -2 Hrs Total - 6 Hrs</p>	<p>❖ குடும்பம் - குடும்ப அமைதி - சமுதாயம் - வாழ்க்கை முறை - உலக சகோதரத்துவம்</p> <p>❖ பெண்ணின் பெருமை - ஐவகைக் கடமைகள் - பொருளாதாரம்</p> <p>❖ சுகாதாரம் - கல்வி - அரசியல் - மக்களின் பொறுப்பு - உலக அமைதி - உலக அமைதிக்கான திட்டம்.</p>	<p>06.08.2023 to 21.08.2023</p>	<p>2 Hrs</p> <p>2 Hrs</p> <p>2 Hrs</p>	<p>-</p>	<p>-</p>
<p>Unit IV Content- 4 Hrs, Assessment -2 Hrs Total - 6 Hrs</p>	<p>❖ குடும்பம் - குடும்ப அமைதி - சமுதாயம் -</p>	<p>22.08.2023 to 15.09.2023</p>	<p>2 Hrs</p>	<p>-</p>	<p>-</p>

	செயல்கள் - மன அலைச்சூழல் - மன இயக்கப் படிநிலைகள் ❖ கருமையம் - தவம் (தியானம்) - தவத்தின் பயன்கள் - ஆன்மீக மதிப்பு - வான்காந்தம் சீவகாந்தம்.		2 Hrs		
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D. ACTIVITIES:

Activities Name	Details
Test	18.08.2023,22.09.2023,12.10.2023
Assignment	24.09.2023,10.10.2023
Quiz	07.10.2023
Seminar	19.09.2023, 11.10.2023
Tutor Ward Meeting	Every VI Day Order



Signature of Principal



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TamilNadu.



DEPARTMENT OF TAMIL

A. GENERAL INFORMATION

Name of the Faculty	:	Dr.V.Devi
Department	:	Tamil
Programme	:	BA
Programme Code	:	BAT
Name of the Paper	:	சிற்றிலக்கியம்
Lecture Hours	:	90 Hrs

B. ABOUT THE COURSE:

Course Objectives	Teaching Methodology
<p>❖ காலந்தோறும் மாறிவரும் இலக்கியவளர்ச்சி , வரலாறு , வடிவமாற்றம் , உட்கருத்து இவற்றை மாணவர்க்கு அறிவுறுத்தல்.</p> <p>❖ இலக்கியப் பாடுபொருளில் உள்ள சமுதாய வாழ்வியல் நிலைகளை அறிந்து கொள்ளும் வாய்ப்பளித்தல்.</p> <p>❖ தமிழின் மொழி வரலாறு , பண்பாடு , சமுதாய வாழ்வுகள் இவற்றின் கூறுகளை மாணவர்கள் தெரிந்து கொள்ள கற்பித்தல்.</p> <p>❖ அன்பு , நட்பு , வீரம் போன்ற செய்திகளை அறிந்து கொள்ள வழிவகை செய்தல்.</p>	<p>❖ Power Point</p> <p>❖ Lecture Method</p>

C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I 18 Hrs	<p>முக்கூடற்பள்ளு - பண்ணைக்காரன் வரவு முதல் மூத்த பள்ளி பண்ணைக்காரனை வேண்டல் வரை (பாடல் எண்கள் 52-102 வரை)</p> <p>❖ மூத்தப்பள்ளி முறையிடுதல் , இளையபள்ளி கூறுதல்,</p> <p>❖ பண்ணைக்காரன் கோபித்தல், பள்ளன் வெளிவருதல், பண்ணைக்காரன் வினவுதல், பள்ளன் கூறுதல், மாட்டுவகை, ஏர்க்கால் வகை, ஆயரை வரவைத்தல், இடையர் சொல்லுதல், நிலவகைக் கூறுதல், பள்ளன் வேண்டல்.</p>	20.12.2022 to 13.01.2023	6 Hrs 6 Hrs 6 Hrs	-	-

<p>Unit II 18 Hrs</p>	<p>❖ குற்றாலக் குறவஞ்சி - இறைவனின் திருவுலா முதல் குறிசொல்லுவது வரை கட்டியங்காரன் வந்தான், ஞாயிறு மேவினாரே, பனனி வந்தனரே, ❖ உலாகாணவரும் பெண்கள், கன்னியரின் பேச்சு. ❖ வசந்தவல்லியின் காதல் , அவள்வரும் அழகு, வந்தவல்லியின் அழகு, பந்தடிபயிலுதல், பந்தாடிய சிறப்பு, பந்தாடலின் சிறப்பு, விந்தை! விந்தை நாதனை எதிர் கண்டாள், மயங்கி நின்றாள், தோழியரின் புலம்பல், தோழியரின் யுறவு, வெதும்பினர்கள், தாபத்தின் வேகம், கொடும்பாவி நிலவே,</p>	<p>14.01.2023 To 12.02.2023</p>	<p>6 Hrs 6 Hrs 6 Hrs</p>	<p>-</p>	<p>-</p>
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	<p>வேனிலானே தூ சொல்லி வாராய்.</p> <p>குறவஞ்சி வருகிறாள், வஞ்சி வந்தனள், கொஞ்சி வருகிறாள், குறவஞ்சி வந்தனளே, நாட்டு வளம் கூறுதல், நகர் வள், குறி சொல்லவா, கைகளின் சிறப்பு, மகராசி நீயே, தெய்வ வணக்கங்கள்.</p>				
Unit III 18 Hrs	<p>❖ முக்கூடற்பள்ளு - பண்ணைக்காரன் வரவு முதல் மூத்த பள்ளி பண்ணைக்காரனை வேண்டல் வரை (பாடல் எண்கள் 52-102 வரை) மூத்தப்பள்ளி முறையிடுதல் , இளையபள்ளி கூறுதல், பண்ணைக்காரன் கோபித்தல்</p> <p>❖ பள்ளன் வெளிவருதல்,</p>	13.02.2023 To 03.03.2023	6 Hrs 6 Hrs 6 Hrs	-	-

	<p>பண்ணைக்காரன் வினவுதல், பள்ளன் கூறுதல், மாட்டுவகை, ❖ ஏர்க்கால் வகை, ஆயரை வரவைத்தல், இடையர் சொல்லுதல், நிலவகைக் கூறுதல், பள்ளன் வேண்டல்.</p>				
Unit IV 18 Hrs	<p>குற்றாலக் குறவஞ்சி - இறைவனின் திருவுலா முதல் குறிசொல்லுவது வரை கட்டியங்காரன் வந்தான், ஞாயிறு மேவினாரே, பன்னி வந்தனரே, உலாகாணவரும் பெண்கள், கன்னியரின் பேச்சு. ❖ வசந்தவல்லியின் காதல் , அவள்வரும் அழகு, வந்தவல்லியின் அழகு, பந்தடிபயிலுதல், பந்தாடிய சிறப்பு, பந்தாடலின் சிறப்பு,</p>	<p>04.03.2023 To 22.03.2023</p>	<p>6 Hrs 3 Hrs 3 Hrs 6 Hrs</p>	-	-

	<p>❖ விந்தை! விந்தை நாதனை எதிர் கண்டாள், மயங்கி நின்றாள், தோழியரின் புலம்பல், தோழியரின் யுறவு, வெதும்பினர்கள், தாபத்தின் வேகம், கொடும்பாவி நிலவே, வேனிலானே தூ சொல்லி வாராய்.</p> <p>❖ குறவஞ்சி வருகிறாள், வஞ்சி வந்தனள், கொஞ்சி வருகிறாள், குறவஞ்சி வந்தனளே, நாட்டு வளம் கூறுதல், நகர் வள், குறி சொல்லவா, கைகளின் சிறப்பு, மகராசி நீயே, தெய்வ வணக்கங்கள்.</p>				
Unit V 18 Hrs	<p>❖ மதுரை மீனாட்சியம்மை பிள்ளைத் தமிழ் - செங்கீரை, தால், சப்பாணி, வருகை, அம்புலி (பருவத்திற்கு</p>	23.03.2023 To 06.04.2023	6 Hrs 6 Hrs 6 Hrs	-	-

	<p>(முதல் 4 பாடல்கள் வீதம் 20 பாடல்கள்).மீனாட்சியம்மை குறம், மீனாட்சியம்மை இரட்டை மணிமாலை.</p> <p>❖ மதுரைக் கலம்கம், நீதி நெறி விளக்கம், திருவாரூர் நான்மணி மாலை, முத்து குமரப்பிள்ளை, சிதம்பர முன்மணி கோவை,</p> <p>❖ சிவகாம்பை இரட்டை மணிமாலை, காசி இலம்பகம், சகலகலா மணிமாலை.</p>				
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D. ACTIVITIES:

Activities Name	Details
Test	Unit Test Date:08.12.2022, 06.02.2023, 12.03.2023
Assignment	22.01.2023, 15.02.2023, 19.03.2023
Quiz	01.03.2023,6.04.2023(Two Mark Questions)
Seminar	5.03.2023 To 06.04.2023
Tutor Ward Meeting	Monthly Once

Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty	:	Mrs.R.Stella Jayasri
Department	:	Tamil
Programme	:	BA
Programme Code	:	BAT
Name of the Paper	:	தமிழ் இலக்கிய வரலாறு
Lecture Hours	:	75 Hrs

B. ABOUT THE COURSE:

Course Objectives	Teaching Methodology
<ul style="list-style-type: none">❖ மாணவர்களிடையே சமய நல்லிணக்கத்தை ஏற்படுத்துதல்.❖ வாழ்வியல் முறைகளை அறியச் செய்தல்.❖ பக்தி உணர்வை பெறச் செய்தல்.❖ ஆன்மீகச் சிறப்புகளை உணர்த்துதல்.❖ பல்துறை அறிவை பெறச் செய்தல்.	<ul style="list-style-type: none">❖ கடவுள்களின் புராண சிறப்புகளை எடுத்துரைத்தல்❖ Power Point❖ Lecture Method

C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I 15 Hrs	❖ சங்க காலம், சங்க மருவிய காலம்: முச்சங்கம், எட்டுத்தொகை, பத்துப்பாட்டு, பதினெண்கீழ்க்கணக்கு நூல்கள், நீதி அற இலக்கியம்.	20.12.2022 to 13.01.2023	5 Hrs 5 Hrs 5 Hrs	-	-
Unit II 15 Hrs	பக்தி இலக்கியம் (பல்லவர் காலம்): பன்னிரு திருமுறைகள், நாலாயிரத் திவ்யப் பிரபந்தம் (12 ஆழ்வார்கள்).	14.01.2023 to 12.02.2023	15 Hrs	-	-
Unit III 15 Hrs	❖ காப்பியங்கள் (சோழர் காலம்): சிலப்பதிகாரம் , மணிமேகலை, ❖ சீவக சிந்தாமணி, வளையாபதி, குண்டலகேசி, ஐஞ்சிறு காப்பியங்கள், ❖ பிற காப்பியங்கள் (கம்பராமாயணம், பெரிய புராணம், திருவிளையாடல்	13.02.2023 to 03.03.2023	5 Hrs 5 Hrs 5 Hrs	-	-

	<p>புராணம், அரிச்சந்திர புராணம், வில்லிபுத்தூராழ்வார் பாரதம்), தேம்பாவணி, சீறாப்புராணம்.</p>				
<p>Unit IV 15 Hrs</p>	<p>❖ சிற்றிலக்கியங்கள் (நாயக்கர் காலம்): பரணி, உலா, பிள்ளைத் தமிழ், ❖ தூது, அந்தாதி, கோவை கலம்பகம், குறவஞ்சி, பள்ளூ, சதகம்.</p>	<p>04.03.2023 to 22.03.2023</p>	<p>7 Hrs 8 Hrs</p>	-	-
<p>Unit V 15 Hrs</p>	<p>❖ தற்கால இலக்கியம்: உரைநடை வளர்ச்சி, புதினம், சிறுகதை, ❖ நாடகத்தமிழ், கவிதை, புதுக்கவிதை, ஹைக்கூ கவிதை.</p>	<p>23.03.2023 to 06.04.2023</p>	<p>8 Hrs 7 Hrs</p>	-	-

D. ACTIVITIES:

Activities Name	Details
Test	Unit Test Date:08.12.2022, 06.02.2023, 12.03.2023
Assignment	22.01.2023, 15.02.2023, 19.03.2023
Quiz	01.03.2023,6.04.2023(Two Mark Questions)
Seminar	5.03.2023 To 06.04.2023
Tutor Ward Meeting	Monthly Once
Mentor Mentee Meeting	



Signature of Principal



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TamilNadu.



Research Department of English

A.GENERAL INFORMATION:

Name of the Faculty	: Mrs.V.KANNAKI
Department	: English
Programme	: I BSc –Mathematics, Part II English
Programme Code	: LCEA
Name of the Paper	: Prose for Effective Communication
Lecture Hours/Practical Hours	: 90 hours

B. ABOUT THE COURSE

Course Objectives	Course outcomes	Teaching Methodology
<ul style="list-style-type: none">• To familiarize the learner with the representative poets of the diverse schools of poetry.• To enable the learners to identify and appreciate the trends and the individual traits of the poets belonging to various ages.• To enable the students to identify the poetic devices and strategies.• To make the students to learn the correct usage of English Grammar.• To enable to the students to write with clarity of expression.	<ul style="list-style-type: none">• To examine the various forms of poetry• To analyze critically the theme and structure of the poems.• To experience, interpret and evaluate poetry aesthetically.• To acquire correct usage of English Grammar.• To enhance their writing skills..	<ul style="list-style-type: none">• Class room Chalk and talk• Power Point• e-Module

C. PLAN OF THE WORK

Unit/ modules	Topic to be covered	Proposed Date	Lectur e Hrs
Unit I 18 hrs	Introduction about Poetry S. Radhakrishnan- On Earth One Family E.V. Lucas-Tight Corners C.V. Raman-Water-The Elixir of Life	22.08.22 to 13.09.22	3 5 5 5
Unit II 18 hrs	April Hersey - The Art of Telling Tales Jawaharlal Nehru- The Panorama of India's Past The Children's Encyclopedia - Michael goes climbing	14.9.22 to 4.10.22	6 6 6
Unit - III 18 hrs	Hardin B.Jones- Dangers of Drug Abuse C.Rajagopalachari - Tree Speaks	5.10.22 to 27.10.22	9 9
Unit - IV 18 hrs	Ruskin Bond - A Job Well Done R.K. Narayan - Crime and Punishment	28.10.22 to 21.11.22	9 9
Unit - V 18 hrs	Parts of Speech Sentence Pattern Comprehension Letter Writing	22.11.22 to 12.12.22	4 5 5 4

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit -I(Oct) Monthly Test- Unit -I(Nov.) CIA/Mid Semester – Unit-I- Unit-III 1/2 Units(Nov) Monthly Test- Unit -IV(Nov) CIA/Model Examination- Unit –III ½ Unit- IV
Assignment	Assignment- I Unit- I& Unit- II Assignment- II Unit- III& Unit- IV
Quiz	One mark Quiz test Unit- V
Seminar	Unit- V
Tutorial Ward Meeting	Monthly Twice



Signature of the Principal

A.GENERAL INFORMATION:

Name of the Faculty : Dr.R.MANIMOZHI.
Department : English
Programme : I BSc-Chemistry, Part II English
Programme Code : LCEA
Name of the Paper : Prose for Effective Communication
Lecture Hours/Practical Hours : 90 hours

B. ABOUT THE COURSE

Course Objectives	Course outcomes	Teaching Methodology
<ul style="list-style-type: none">• To familiarize the learner with the representative poets of the diverse schools of poetry.• To enable the learners to identify and appreciate the trends and the individual traits of the poets belonging to various ages.• To enable the students to identify the poetic devices and strategies.• To make the students to learn the correct usage of English Grammar.• To enable to the students to write with clarity of expression.	<ul style="list-style-type: none">• To examine the various forms of poetry• To analyze critically the theme and structure of the poems.• To experience, interpret and evaluate poetry aesthetically.• To acquire correct usage of English Grammar.• To enhance their writing skills..	<ul style="list-style-type: none">• Class room Chalk and talk• Power Point• e-Module

C. PLAN OF THE WORK

Unit/ modules	Topic to be covered	Proposed Date	Lecture Hrs
Unit I 18 hrs	Introduction about Poetry S. Radhakrishnan- On Earth One Family E.V. Lucas-Tight Corners C.V. Raman-Water-The Elixir of Life	22.08.22 to 13.09.22	3 5 5 5
Unit II 18 hrs	April Hersey - The Art of Telling Tales Jawaharlal Nehru- The Panorama of India's Past The Children's Encyclopedia - Michael goes climbing	14.9.22 to 4.10.22	6 6 6
Unit - III 18 hrs	Hardin B.Jones- Dangers of Drug Abuse C.Rajagopalachari - Tree Speaks	5.10.22 to 27.10.22	9 9
Unit - IV 18 hrs	Ruskin Bond - A Job Well Done R.K. Narayan - Crime and Punishment	28.10.22 to 21.11.22	9 9
Unit - V 18 hrs	Parts of Speech Sentence Pattern Comprehension Letter Writing	22.11.22 to 12.12.22	4 5 5 4

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit -I(Oct) Monthly Test- Unit -I(Nov.) CIA/Mid Semester – Unit-I- Unit-III 1/2 Units(Nov) Monthly Test- Unit -IV(Nov) CIA/Model Examination- Unit –III ½ Unit- IV
Assignment	Assignment- I Unit- I& Unit- II Assignment- II Unit- III& Unit- IV
Quiz	One mark Quiz test Unit- V
Seminar	Unit- V
Tutorial Ward Meeting	Monthly Twice



Signature of the Principal

A.GENERAL INFORMATION:

Name of the Faculty :Dr.V.Umamaheswari
 Department : English
 Programme : I BA History, Part II English
 Programme Code : LCEA
 Name of the Paper : Prose for Effective Communication
 Lecture Hours/Practical Hours : 90 hours

B. ABOUT THE COURSE

Course Objectives	Course outcomes	Teaching Methodology
<ul style="list-style-type: none"> • To familiarize the learner with the representative poets of the diverse schools of poetry. • To enable the learners to identify and appreciate the trends and the individual traits of the poets belonging to various ages. • To enable the students to identify the poetic devices and strategies. • To make the students to learn the correct usage of English Grammar. • To enable to the students to write with clarity of expression. 	<ul style="list-style-type: none"> • To examine the various forms of poetry • To analyze critically the theme and structure of the poems. • To experience, interpret and evaluate poetry aesthetically. • To acquire correct usage of English Grammar. • To enhance their writing skills. 	<ul style="list-style-type: none"> • Class room Chalk and talk • Power Point • e-Module

C. PLAN OF THE WORK

Unit/ modules	Topic to be covered	Proposed Date	Lecture Hrs
Unit I 18 hrs	Introduction about Poetry S. Radhakrishnan- On Earth One Family E.V. Lucas-Tight Corners C.V. Raman-Water-The Elixir of Life	22.08.22 to 13.09.22	3 5 5 5
Unit II 18 hrs	April Hersey - The Art of Telling Tales Jawaharlal Nehru- The Panorama of India's Past The Children's Encyclopedia - Michael goes climbing	14.9.22 to 4.10.22	6 6 6
Unit - III 18 hrs	Hardin B.Jones- Dangers of Drug Abuse C.Rajagopalachari - Tree Speaks	5.10.22 to 27.10.22	9 9
Unit - IV 18 hrs	Ruskin Bond - A Job Well Done R.K. Narayan - Crime and Punishment	28.10.22 to 21.11.22	9 9
Unit - V 18 hrs	Parts of Speech Sentence Pattern Comprehension Letter Writing	22.11.22 to 12.12.22	4 5 5 4

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit -I(Oct) Monthly Test- Unit -I(Nov.) CIA/Mid Semester – Unit-I- Unit-III 1/2 Units(Nov) Monthly Test- Unit -IV(Nov) CIA/Model Examination- Unit –III ½ Unit- IV
Assignment	Assignment- I Unit- I& Unit- II Assignment- II Unit- III& Unit- IV
Quiz	One mark Quiz test Unit- V
Seminar	Unit- V
Tutorial Ward Meeting	Monthly Twice



Signature of the Principal



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Research Department of English

A.GENERAL INFORMATION:

Name of the Faculty	: Mrs.V.KANNAKI
Department	: English
Programme	: II BSc Mathematics Part II English
Programme Code	: LCED
Name of the Paper	: Short Stories for Effective Communication
Lecture Hours/Practical Hours	: 90 hours

B. ABOUT THE COURSE

Course Objectives	Course outcomes	Teaching Methodology
<ul style="list-style-type: none">• To read, understand and appreciate a range of literary texts.• To expose learners to short story writing over the centuries.• To provide learners an insight into different cultures.• To enable the reader to learn the four skills - listening, speaking, reading and writing more effectively.• To improve vocabulary and develop the writing skills.	<p>To appreciate the perspectives of the story as a literary genre and the relevant historical, geographical, and cultural identical backgrounds.</p> <p>To examine the narrative techniques of short stories and language.</p> <p>To appreciate the short stories and enjoy the aesthetic experience</p> <p>To understand the different types of characters and how they react to the situation</p> <p>To analyze the different themes and its purpose of the making</p>	<ul style="list-style-type: none">• Class room Chalk and talk• Power Point• e-Module

C. PLAN OF THE WORK

Unit/ modules	Topic to be covered	Proposed Date	Lecture Hrs
Unit I 18 hrs	Oscar Wilde -The Model Millionaire Sir Authur Conan Doyle-The Dying Detective	20.12.22 to 12.01.23	9 9
Unit II 18 hrs	K.S.Duggal-A Room 10 x 8 Saki - Mrs.Packletide's Tiger	13.01.23 to 7.02.23	9 9
Unit III 18 hrs	Bhisham Sahn- The Boss Came to Dinner Geetha Goswami- The Lost Shore	8.02.23 to 27.02.23	9 9
Unit IV 18 hrs	Alphonse Daudet- The Old Folks at Home Rabindranath Tagore- The Auspicious Vision	28.2.23 to 21.3.23	9 9
Unit -V 18 hrs	John Galsworthy- Acme Guy De Maupassant - The Diamond Necklace	22.3.23 to 17.4.23	9 9

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit -I(Oct) Monthly Test- Unit -I(Nov.) CIA/Mid Semester – Unit-I- Unit-III 1/2 Units(Nov) Monthly Test- Unit -IV(Nov) CIA/Model Examination- Unit –III ½ Unit- IV
Assignment	Assignment- I Unit- I& Unit- II Assignment- II Unit- III& Unit- IV
Quiz	One mark Quiz test Unit- V
Seminar	Unit- V
Tutorial Ward Meeting	Monthly Twice



Signature of the Principal

A.GENERAL INFORMATION:

Name of the Faculty : Dr.R.Manimozhi
 Department : English
 Programme : II BA History Part II English
 Programme Code : LCED
 Name of the Paper : Short Stories for Effective Communication
 Lecture Hours/Practical Hours : 90 hours

B. ABOUT THE COURSE

Course Objectives	Course outcomes	Teaching Methodology
<ul style="list-style-type: none"> • To read, understand and appreciate a range of literary texts. • To expose learners to short story writing over the centuries. • To provide learners an insight into different cultures. • To enable the reader to learn the four skills - listening, speaking, reading and writing more effectively. • To improve vocabulary and develop the writing skills. 	<p>To appreciate the perspectives of the story as a literary genre and the relevant historical, geographical, and cultural identical backgrounds.</p> <p>To examine the narrative techniques of short stories and language.</p> <p>To appreciate the short stories and enjoy the aesthetic experience</p> <p>To understand the different types of characters and how they react to the situation</p> <p>To analyze the different themes and its purpose of the making</p>	<ul style="list-style-type: none"> • Class room Chalk and talk • Power Point • e-Module

C. PLAN OF THE WORK

Unit/ modules	Topic to be covered	Proposed Date	Lecture Hrs
Unit I 18 hrs	Oscar Wilde -The Model Millionaire Sir Authur Conan Doyle -The Dying Detective	20.12.22 to 12.01.23	9 9
Unit II 18 hrs	K.S.Duggal-A Room 10 x 8 Saki - Mrs.Packletide's Tiger	13.01.23 to 7.02.23	9 9
Unit III 18 hrs	Bhisham Sahn - The Boss Came to Dinner Geetha Goswami- The Lost Shore	8.02.23 to 27.02.23	9 9
Unit IV 18 hrs	Alphonse Daudet- The Old Folks at Home Rabindranath Tagore - The Auspicious Vision	28.2.23 to 21.3.23	9 9
Unit -V 18 hrs	John Galsworthy - Acme Guy De Maupassant - The Diamond Necklace	22.3.23 to 17.4.23	9 9

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit -I(Oct) Monthly Test- Unit -I(Nov.) CIA/Mid Semester – Unit-I- Unit-III 1/2 Units(Nov) Monthly Test- Unit -IV(Nov) CIA/Model Examination- Unit –III ½ Unit- IV
Assignment	Assignment- I Unit- I& Unit- II Assignment- II Unit- III& Unit- IV
Quiz	One mark Quiz test Unit- V
Seminar	Unit- V
Tutorial Ward Meeting	Monthly Twice



Signature of the Principal

A.GENERAL INFORMATION:

Name of the Faculty : Dr. T. Devika
Department : English
Programme : II BSc Chemistry, Zoology Part II English
Programme Code : LCED
Name of the Paper : Short Stories for Effective Communication
Lecture Hours/Practical Hours : 90 hours

B. ABOUT THE COURSE

Course Objectives	Course outcomes	Teaching Methodology
<ul style="list-style-type: none">• To read, understand and appreciate a range of literary texts.• To expose learners to short story writing over the centuries.• To provide learners an insight into different cultures.• To enable the reader to learn the four skills - listening, speaking, reading and writing more effectively.• To improve vocabulary and develop the writing skills.	<p>To appreciate the perspectives of the story as a literary genre and the relevant historical, geographical, and cultural identical backgrounds.</p> <p>To examine the narrative techniques of short stories and language.</p> <p>To appreciate the short stories and enjoy the aesthetic experience</p> <p>To understand the different types of characters and how they react to the situation</p> <p>To analyze the different themes and its purpose of the making</p>	<ul style="list-style-type: none">• Class room Chalk and talk• Power Point• e-Module

C. PLAN OF THE WORK

Unit/ modules	Topic to be covered	Proposed Date	Lecture Hrs
Unit I 18 hrs	Oscar Wilde - <i>The Model Millionaire</i> Sir Authur Conan Doyle - <i>The Dying Detective</i>	20.12.22 to 12.01.23	9 9
Unit II 18 hrs	K.S.Duggal- <i>A Room 10 x 8</i> Saki - <i>Mrs.Packletide's Tiger</i>	13.01.23 to 7.02.23	9 9
Unit III 18 hrs	Bhisham Sahn - <i>The Boss Came to Dinner</i> Geetha Goswami- <i>The Lost Shore</i>	8.02.23 to 27.02.23	9 9
Unit IV 18 hrs	Alphonse Daudet- <i>The Old Folks at Home</i> Rabindranath Tagore - <i>The Auspicious Vision</i>	28.2.23 to 21.3.23	9 9
Unit -V 18 hrs	John Galsworthy - <i>Acme</i> Guy De Maupassant - <i>The Diamond Necklace</i>	22.3.23 to 17.4.23	9 9

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit -I(Oct) Monthly Test- Unit -I(Nov.) CIA/Mid Semester – Unit-I- Unit-III 1/2 Units(Nov) Monthly Test- Unit -IV(Nov) CIA/Model Examination- Unit –III ½ Unit- IV
Assignment	Assignment- I Unit- I& Unit- II Assignment- II Unit- III& Unit- IV
Quiz	One mark Quiz test Unit- V
Seminar	Unit- V
Tutorial Ward Meeting	Monthly Twice



Signature of the Principal



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Department of Geology

A. GENERAL INFORMATION

Name of the Faculty	:	Ms.R.Akshaya
Department	:	Geology
Programme	:	B.Sc
Programme Code	:	BGH
Name of the Paper	:	Mineralogy
Lecture Hours	:	75 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">• The first unit deals with the introduction to the rock forming minerals and other concepts related to mineralogy.• The second unit deals with the physical, chemical and optical properties of common rock forming minerals.• Recognize that minerals are chemical compounds made up of atoms linked	<p>Of the course students On completion should be able to</p> <ul style="list-style-type: none">• CO 1: Student thoroughly understands the various crystal structures and megascopic and optical characters of various minerals.• CO 2: Understand the basic crystal-chemical properties of minerals and how variability in these properties relates to physical and optical characteristics as well as the formation and stability of minerals in igneous, metamorphic, and sedimentary environments.• CO 3: Recognize and quantify the physical and optical properties of	<ul style="list-style-type: none">• Power Point• E – Module• Chalk & Talk Method• Lecture Method• Discussion Method• Study Assignment Method,• Seminar Method• Demonstration Method

<p>together by a variety of chemical bond types.</p> <ul style="list-style-type: none"> • Systematic mineralogy of common rock forming minerals. 	<p>minerals.</p> <ul style="list-style-type: none"> • CO 4: Microscopic thin section study and identify characterize common rock-forming minerals. • CO 5: Extract information about the conditions of formation and subsequent history of a mineral from its properties and its presence in a rock. 	
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C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Assessment Hrs	Remarks
UNIT I Lecture - 12 Hours, Assessment- 3 Hours, Total - 15 Hours	<ul style="list-style-type: none"> • DESCRIPTIVE MINERALOGY • Definition of Mineral and Mineraloid – Scope and aim of Mineralogy. Chemical elements and periodic Table – • Bonding of atoms – Metallic, Co-valent, Ionic and Van der Walls Bonding in Minerals, • Structure and classification of silicates. Isomorphism, Polymorphism and Pseudomorphism in minerals. • Physical properties of minerals depending upon cohesion and elasticity, specific gravity, light, heat, 	18.07.2022 to 04.08.2022	3 Hrs 3 Hrs 3 Hrs 3 Hrs	3 Hrs	-

	electricity, magnetism and the senses.				
UNIT II Lecture - 12 Hours, Assessment- 3 Hours, Total – 15 Hours	<ul style="list-style-type: none"> • Mineralogy, Structure, Chemistry, Optical and Physical properties, modes of occurrences and industrial uses of the following groups of minerals: Polymorph and varieties of Quartz • Alkali and Plagioclase group of Feldspars – Nepheline and Sodalite • Feldspathoides • Zeolites. 	05.08.2022 to 20.08.2022	3 Hrs 3 Hrs 3 Hrs 3 Hrs	3 Hrs	-
UNIT III Lecture - 12 Hours, Assessment- 3 Hours, Total – 15 Hours	<ul style="list-style-type: none"> • Mineralogy, Structure, Chemistry, Optical and Physical properties, Modes of occurrences and industrial uses of the following groups of minerals: Pyroxenes, • Amphiboles, • Micas and Olivine • Garnet. 	22.08.2022 to 07.09.2022	3 Hrs 3 Hrs 3 Hrs 3 Hrs	3 Hrs	-

<p>UNIT IV Lecture - 12 Hours, Assessment- 3 Hours, Total – 15 Hours</p>	<ul style="list-style-type: none"> • Nature of light – Ordinary and polarized light – Refraction and reflection. Refractive index, Critical angle and Total internal reflection. • Double refraction – Plane polarization by Reflection, Brewster’s law – Plane polarization by Refraction, Nicol Prism – Plane polarization by absorption, Polaroid. • Petrological microscope and its parts • Optical accessories, their construction and uses – Quartz wedge (Determination of order of Interference Colour) – Gypsum plate and Mica plate (Determination of Fast and Slow vibration directions) and Berek Compensator (Determination of Birefringence) 	<p>09.09.2022 to 27.09.2022</p>	<p>3 Hrs 3 Hrs 3 Hrs 3 Hrs</p>	<p>3 Hrs</p>	
<p>UNIT V Lecture - 12 Hours, Assessment-</p>	<ul style="list-style-type: none"> • Optical classification of minerals. Optical properties of isotropic and anisotropic minerals observed under 	<p>28.09.2022 to 29.10.2022</p>	<p>3 Hrs 3 Hrs 3 Hrs 3 Hrs</p>	<p>3 Hrs</p>	

<p>3 Hours, Total – 15 Hours</p>	<p>parallel and crossed Nicols. Differences between Isotropic and anisotropic minerals.</p> <ul style="list-style-type: none"> • Definition of extinction, Types of extinction, Extinction angles and their determination, and uses • Characters of Uniaxial and biaxial minerals – Optics axis and optic axial angle – Acute and Obtuse Bisectrix • Optic sign of Uniaxial and Biaxial minerals – Uniaxial and Biaxial Indicatrix – Sign of elongation – Optical anomalies. 				
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D. ACTIVITIES:

Activities Name	Details
Test	Unit Test Date 22.08.2022, 07.10.2022
Assignment	10.08.2022, 21.10.2022
Quiz	16.09.2022 and 19.10.2022(Objective Type Questions)
Seminar	05.09.2022 to 29.09.2022
Tutor Ward Meeting	Monthly Once
Mentor Mentee Meeting	Weekly Once



Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty	:	Ms.R.Akshaya
Department	:	Geology
Programme	:	B.Sc
Programme Code	:	BGS3
Name of the Paper	:	Geostatistics and Computer Application
Lecture Hours	:	30 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">• Understanding the mathematical and statistical principles of numerical data.• To determine whether the correlation and regression is significant.• To learn and practice basic keyboarding and mouse use and search engines, and locate www addresses.• To demonstrate an understanding of computer programming language concepts.• To gain a basic, Assessment understanding of GIS and GPS concepts, techniques and real world applications.	<p>On completion of the course students should be able to</p> <ul style="list-style-type: none">• CO 1: Perform proper and efficient sample statistical assessment and to statistically characterize spatially referenced data.• CO 2: Apply effective quantitative analysis of spatial and spatio-temporal data• CO 3: Demonstrate a basic understanding of computer hardware and software.• CO 4: Implement the algorithms and draw flowcharts for solving mathematical problems.• CO 5: Create maps, images to communicate spatial data in a meaningful way to others.	<ul style="list-style-type: none">• Power Point• E – Module• Chalk & Talk Method• Lecture Method• Discussion Method• Study Assignment Method,• Seminar Method• Demonstration Method

C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Assessment Hrs	Remarks
UNIT I Lecture - 4 Hours, Assessment- 2 Hours, Total – 6 Hours	<ul style="list-style-type: none"> Numerical data in geoscience. Frequency distribution: Mean median, mode, dispersion. Measures of Dispersion Skewness Kurtosis, addition, multiplication and division. 	20.07.2022 to 03.08.2022	4 Hrs	2 Hrs	-
UNIT II Lecture - 4 Hours, Assessment- 2 Hours, Total – 6 Hours	<ul style="list-style-type: none"> Sampling and sampling plan in Geoscience: Sample Random Sampling Systematic and stratified and Cluster sampling: Standard errors. Correlation Regression Analysis in Geoscience. 	04.08.2022 to 30.08.2022	4 Hrs	2 Hrs	-
UNIT III Lecture - 4 Hours, Assessment- 2 Hours, Total – 6 Hours	<ul style="list-style-type: none"> Introduction to Computer- Elements of computer: Hardware and Software. Input devices- keyboard, mouse. Output devices-Monitor, Printer. Memory: primary- ROM, RAM. Secondary Memory-Hard Disk, Floppy & CD. 	01.09.2022 to 23.09.2022	4 Hrs	2 Hrs	-

UNIT IV Lecture - 4 Hours, Assessment- 2 Hours, Total – 6 Hours	<ul style="list-style-type: none"> • A short account on: Algorithm-Flow charts • Programming languages. Computer applications in geology: • Flow chart for simple programmes • Geological aspects in window. 	27.09.2022 to 18.10.2022	4 Hrs	2 Hrs	-
UNIT V Lecture - 4 Hours, Assessment- 2 Hours, Total – 6 Hours	<ul style="list-style-type: none"> • Basic principles of GIS. Elements, concepts and • Usefulness of GIS, components of GIS. Data source, spatial data • Raster and vector data- Data analysis and application. • Global Positioning System. 	19.10.2022 to 09.11.2022	4 Hrs	2 Hrs	-

D. ACTIVITIES:

Activities Name	Details
Test	Unit Test Date 17.08.2022, 12.10.2022
Assignment	25.08.2022, 19.10.2022
Quiz	02.09.2022 and 07.10.2022(Objective Type Questions)
Seminar	09.09.2022 to 29.09.2022
Tutor Ward Meeting	Monthly Once
Mentor Mentee Meeting	Weekly Once

Signature of Principal

TEACHING PLAN

A. GENERAL INFORMATION

Name of the Faculty	:	Ms. P.V. Dhaarani
Department	:	Geology
Programme	:	B.Sc
Programme Code	:	BGG
Name of the Paper	:	Stratigraphy
Lecture Hours	:	75 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none"> • To learn about the geological time scale, principles of stratigraphy and the description of strata and their relationship to tectonics, climate, fossils along with their distribution in different parts of India from Precambrian to recent. • To study the geological and applications of stratigraphy. • To realize the different geological epoch formation. • To collect stratigraphic data in the field. 	<p>On completion of the course, learners should be able to</p> <p>CO 1: It focus specifically on settings and time periods that the students will encounter on our field trips, emphasizing the combined use of sedimentological characteristics and fossil content</p> <p>CO 2: Student would understand the Indian Stratigraphy and its age related problems.</p> <p>CO 3: Utilizes both forward reasoning and inverse reasoning to construct one or more hypotheses for the paleogeographic and environmental histories that produced a series of strata.</p> <p>CO 4: The course then adds larger</p>	<ul style="list-style-type: none"> ❖ Power Point ❖ E – Module ❖ Chalk & Talk Method ❖ Lecture Method ❖ Discussion Method ❖ Study Assignment Method, ❖ Problem Solving Method ❖ Seminar Method ❖ Demonstration Method

<ul style="list-style-type: none"> To synthesize geological and biological information to interpret local and regional geologic history. 	<p>geological principles to the foundation stratigraphy, effects of sedimentary processes and sedimentation rates on interpretation of evolution in the fossil record.</p>	
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C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Assessment Hrs	Remarks
Unit I Lecture - 12 Hours, Assessment- 3 Hours, Total – 15 Hours	<p>Principles of Stratigraphy:</p> <ul style="list-style-type: none"> Law of order of superposition. law of uniformitarianism and law of faunal succession. Correlation: fossiliferous and unfossiliferous rocks. Standard stratigraphic scale and Indian Geologic Time scale. Imperfections in Geological record. Geological divisions. Stratigraphic classification and Nomenclature. Stratigraphic Units: Lithostratigraphic unit, Biostratigraphic unit, Geochronologic Unit. Homotaxis. Physiographic divisions of 	18.07.2022 to 12.08.2022	3Hrs 3Hrs 3Hrs 3Hrs	3Hrs	-

	India: Peninsular India, Indogangetic alluvial plains, Extra Peninsular India.				
Unit II Lecture - 12 Hours, Assessment- 3 Hours, Total - 15 Hours	<p>Precambrian Stratigraphy:</p> <ul style="list-style-type: none"> • Archaeans of Dharwar Province, Archaeans of Eastern Ghat - The Sausar and Sakoli Group, Archaeans of Singhbhum – Iron Ore Group and Gangpur Group. • Archaeans of Tamilnadu, Mineral Wealth of Archaeans of India, The Eparchaeon Unconformity, • Stratigraphy and Mineral Wealth of Cuddapahs, • Stratigraphy and Mineral Wealth of Vindhyaans, Kurnool group, Life during Precambrian. 	17.08.2022 to 12.09.2022	3Hrs 3Hrs 3Hrs 3Hrs	3Hrs	-
Unit III Lecture - 12 Hours, Assessment- 3 Hours, Total - 15 Hours	<p>Paleozoic Stratigraphy:</p> <ul style="list-style-type: none"> • Distribution of Paleozoic rocks in India, Cambrian of Salt Range, Age of Saline Series, • Upper Carboniferous and Permian rocks of Salt Range, 	15.09.2022 to 21.10.2022	3Hrs 3Hrs 3Hrs 3Hrs	3Hrs	-

	<ul style="list-style-type: none"> • Paleozoic rocks of Kashmir Valley, Paleozoic rocks of Spiti Valley, • Paleozoic rocks of Peninsular India. 				
<p>UNIT IV</p> <p>Lecture - 12</p> <p>Hours,</p> <p>Assessment- 3 Hours,</p> <p>Total - 15 Hours</p>	<p>Mesozoic Stratigraphy:</p> <ul style="list-style-type: none"> • The Depositional Environment-distribution-life-classification and economic importance of Gondwana formations of India, • Coastal Gondwana of India, Gondwana formations of Tamilnadu, • Triassic of Spiti – The Lilang System, Jurassic of Kutch, • Cretaceous of Tiruchirapalli – Pondicherry – Bagh Beds, Deccan traps 		<p>3Hrs</p> <p>3Hrs</p> <p>3Hrs</p> <p>3Hrs</p>	3Hrs	-
<p>UNIT V</p> <p>Lecture - 12</p> <p>Hours,</p> <p>Assessment- 3 Hours,</p> <p>Total - 15 Hours</p>	<p>Cenozoic Stratigraphy:</p> <ul style="list-style-type: none"> • Comprehensive account of the geological events took place during Cenozoic era in India, • rise of Himalayas, stratigraphy of Siwalik Super Group, fauna and 		<p>3Hrs</p> <p>3Hrs</p> <p>3Hrs</p> <p>3Hrs</p>	3Hrs	-

	flora of Siwaliks, • Tertiary rocks of Assam, Karewa formation, Tertiary rocks of Tamilnadu, Tertiary rocks of Kerala, • Pleistocene Glaciation - Mineral wealth of Tertiary rocks of India.				
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D. ACTIVITIES:

Activities Name	Details
Test	Unit Test Date 16.8.2021, 14.9.2021, 25.10.2021,
Assignment	24.8.2022, 22.9.2022, 29.10.2021
Quiz	26.8.2022,15.10.2022, 30.10.2022(Objective Type Questions)
Seminar	27.9.2022,20.10.2022,28.10.2022
Tutor Ward Meeting	Monthly Once
Mentor Mentee Meeting	Weekly Once

Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty : Ms. P.V. Dhaarani
Department : Geology
Programme : B.Sc
Programme Code : BGS2
Name of the Paper : Water Quality Analysis
Lecture Hours : 30 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">• To study the physical properties of minerals• To study the pH and their measurements• To make the students understand the water pollution• To understand the Reverse Osmosis system• To gain knowledge on water borne diseases	<p>On completion of the course, learners should be able to</p> <p>CO 1: Students able to discuss the water quality parameters</p> <p>CO 2: Understand the laboratory techniques</p> <p>CO 3: To discuss the water related diseases and remedial measures.</p> <p>CO 4: Describe the Fluoride and Arsenic in groundwater</p> <p>CO 5: Students able to discuss the various drinking water standards</p>	<ul style="list-style-type: none">❖ Power Point❖ E – Module❖ Chalk & Talk Method❖ Lecture Method❖ Discussion Method❖ Study Assignment Method❖ Seminar Method❖ Demonstration Method

C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Assessment Hrs	Remarks
Unit I Lecture - 4 Hours, Assessment- 2 Hours, Total – 6 Hours	<ul style="list-style-type: none"> Physical properties of water: Colour, odour, taste, temperature, turbidity and viscosity. Methods of analysis of physical properties. World Health Organisation (WHO) Bureau of Indian Standards (BSI). 	02.08.2022 to 09.08.2022	4 Hrs	2 Hrs	-
Unit II Lecture - 4 Hours, Assessment- 2 Hours, Total – 6 Hours	<ul style="list-style-type: none"> Chemical properties of water: pH-alkalinity, acidity and their measurements ionization potential, gas solubility, precipitation and dissolution of ions, equivalent weight and its measurements, colloids and cogulation, Insoluble components and their measurements. 	19.08.2022 to 25.08.2022	4 Hrs	2 Hrs	-
Unit III Lecture - 4 Hours, Assessment- 2 Hours, Total – 6	<ul style="list-style-type: none"> Laboratory methods of Analysis: standard solutions- Determination of Ph-Hardness-Dissolved oxygen- BOD-COD,TDS-TSS. Determination of F, Cl, N, P, K, 	02.09.2022 to 07.09.2021	4 Hrs	2 Hrs	-

Hours	Na, Ca, Mg, Fe, CaCO ₃ , HCO ₃ & Trace Metals.				
UNIT IV Lecture - 4 Hours, Assessment- 2 Hours, Total – 6 Hours	<ul style="list-style-type: none"> • Utility of standards required for potable purpose • Agricultural purpose • Industrial purposes. • Tools used for assessing the quality of water 	20.09.2022 to 24.09.2022	4 Hrs	2 Hrs	
UNIT V Lecture - 4 Hours, Assessment- 2 Hours, Total – 6 Hours	<ul style="list-style-type: none"> • Water pollution: Urban, Industrial pollution and remedial measures. • Arsenic and Fluoride content in water. • Recycling of water, water borne diseases, • Reverse Osmosis (RO) system and Desalination of water. 	10.10.2022 to 15.10.2022	4 Hrs	2 Hrs	

D. ACTIVITIES:

Activities Name	Details
Test	Unit Test Date 17.8.2022, 15.9.2021, 26.10.2021,
Assignment	25.8.2022, 23.9.2022, 07.10.2021
Quiz	26.8.2022, 17.10.2022, 30.10.2022 (Objective Type Questions)
Seminar	28.9.2022, 21.10.2022, 12.11.2022
Tutor Ward Meeting	Monthly Once
Mentor Mentee Meeting	Weekly Once



Signature of Principal



A.D.M College For Women (Autonomous)

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DEPARTMENT OF GEOLOGY

A. GENERAL INFORMATION

Name of the Faculty	:	Ms.R.Akshaya
Department	:	Geology
Programme	:	B.Sc
Programme Code	:	BGC
Name of the Paper	:	Climatology
Lecture Hours	:	30 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">• Understanding the way in which the climate affects our everyday lives.• To know what the monsoons are and what causes them.• To understand the properties of air masses and fronts.• To describe how tornadoes arise.• To designate any climate station under Koppen's and Thornthwaite climatic scheme.	<p>On completion of the course students should be able to</p> <ul style="list-style-type: none">• CO 1: Demonstrate their understanding about Earth's present atmosphere evolved over time.• CO 2: Identify and explain the causes of season.• CO 3: Explain the different clouds and how cloudiness varies from pole to pole.• CO 4: Understand the concepts of major cyclones.• CO 5: Recognize how mankind is enhancing Global warming.	<ul style="list-style-type: none">❖ Power Point❖ E – Module❖ Chalk & Talk Method❖ Lecture Method❖ Discussion Method❖ Study Assignment Method,❖ Seminar Method❖ Demonstration Method

C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Assessment Hrs	Remarks
Unit - I	<ul style="list-style-type: none"> Nature and scope of climatology: elements of weather and climate – composition and structure of the atmosphere Insolation – heat budget Horizontal – vertical and seasonal distribution of temperature. 	21.12.2022 to 10.01.2023	4 Hrs	2 Hrs	-
Unit - II	<ul style="list-style-type: none"> Atmospheric pressure: vertical and horizontal distribution of pressure – Wind: planetary, seasonal – monsoon Local winds Atmospheric circulation – general and tri cellular model. 	11.01.2023 to 21.01.2023	4 Hrs	2 Hrs	-
Unit - III	<ul style="list-style-type: none"> Humidity, - cloud – fog Precipitation: forms and types - evaporation – condensation Hydrological cycle Air masses: types - fronts: classification and properties. 	22.01.2023 to 10.02.2023	4 Hrs	2 Hrs	-
Unit - IV	<ul style="list-style-type: none"> Atmospheric disturbances: 				-

	<ul style="list-style-type: none"> • Tropical and temperate cyclones • Anti cyclone • Thunderstorms – tornadoes. 	11.02.2023 to 02.03.2023	4 Hrs	2 Hrs	
Unit - V	<ul style="list-style-type: none"> • Climatic classification: Koppen's and Thornthwaite – • Atmospheric pollution – • Global warming –sea level rise • Ozone depletion. 	03.03.2023 to 18.03.2023	4 Hrs	2 Hrs	-

D. ACTIVITIES:

Activities Name	Details
Test	Monthly Test- Unit-I (December) Monthly Test - Unit-II(January) CIA / Mid Semester – Unit-I, II,III (First 1/2 Unit)- 2 ½ Units (February) Monthly Test- Unit –IV (March) 19.03.2023 to 27.03.2023 CIA / Model Exam-Unit-III(Second 1/2 Unit) –Unit-IV&V- 2 ½ Units
Assignment	Assignment I –Unit –I and Unit –II (January) Assignment II – Unit –III and Unit – IV (February)
Quiz	Two Mark Quiz Test - Unit I – Unit – V (March)
Seminar	Unit – I to V (End of March)
Tutorial Ward Meeting	Monthly once.

Signature of Principal



A.D.M College For Women (Autonomous)

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DEPARTMENT OF BIOCHEMISTRY

A. General Information:

Name of the Faculty	:	Ms. M. Bharathi
Department	:	Biochemistry
Programme	:	II - YEARS
Name of the Paper	:	WOMEN AND HEALTH
Programme code	:	USB
Lecture Hours	:	30 Hrs

B. About the Course:

Course Objective	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">➤ To learn the female reproductive system and diseases.➤ To understand the vaccines for during pregnancy.➤ To study of different types of parturition.➤ To learn the health problem in women.➤ To enable the students can get knowledge about balanced diet for women.	<ul style="list-style-type: none">➤ Ensure the students to acquire knowledge on anatomy of female reproductive system and related diseases.➤ To understand the concepts of vaccines and genetic complication during the pregnancy.➤ To understand acquire knowledge on different types of parturition and vaccination for infants.➤ Ensure the students to understand acquire knowledge on diagnosis and treatment in health problem for women➤ Ensure the students to understand acquire knowledge on balanced diet and physical activity for women	<ul style="list-style-type: none">➤ Power point E-Modules➤ Chalk and Talk method,➤ Lecture Method➤ Discussion Method➤ Study Assignment Method➤ Seminar Method

C. PLAN OF THE WORK:

Unit/ Modules	Topic to be Covered	Proposed date	Lecture Hours	Assessm ent Hrs	Remarks
Unit - I Content- 4Hrs, Assessment -2 Hrs Total - 6 Hrs	<ul style="list-style-type: none"> ➤ Study of the female reproductive system, female hormones, menarche, menstrual cycle. Menopause, associated problem's ➤ Premenstrual syndrome, amenorrhoea, dysmenorrhoea. ➤ Polycystic ovarian diseases (PCOD).Fallopian tube obstruction, nutrition during adolescence. 	19-07-2022 & 20-07-2022 27-07-2022 28-07-2022	2 Hrs 1 Hrs 1 Hrs	2 Hrs	-
Unit - II Content- 4Hrs, Assessment -2 Hrs Total - 6 Hrs	<ul style="list-style-type: none"> ➤ Pregnancy, vaccines and diagnosis test during pregnancy. ➤ Foetal testing – amniocentesis and other tests for genetic abnormalities. ➤ Genetic counselling complications associated with pregnancy. Gestational diabetes, ectopic pregnancy, miscarriage, nutrition during pregnancy. 	04-08-2022 05-08-2022 04-08-2022 & 05-08-2022	1 Hrs 1 Hrs 2 Hrs	2 Hrs	-

Unit – III Content-4Hrs, Assessment -2 Hrs Total - 6 Hrs	<ul style="list-style-type: none"> ➤ Parturition –different types, significance of breast feeding. ➤ Nutrition during lactation, vaccination for infants. ➤ contraceptive methods, sexually transmitted diseases. 	25-08-2022 26-08-2022 06-09-2022 07-09-2022	1 Hrs 2 Hrs 1Hrs	2 Hrs	-
Unit – IV Content-4Hrs, Assessment -2 Hrs Total - 6 Hrs	<ul style="list-style-type: none"> ➤ Health problems in women. Cancer breast cancer, cervical cancer ovarian cancer diagnosis and treatment. ➤ Menopause associated problems. ➤ Hormones replacement therapy 	15-09-2022 & 06-10-2022 07-10-2022 14-10-2022	2 Hrs 1 Hrs 1 Hrs	2 Hrs	-
Unit – V Content-4Hrs, Assessment -2 Hrs Total - 6 Hrs	<ul style="list-style-type: none"> ➤ Balanced diet for women –carbohydrate, lipids sources and deficiency disorders. ➤ Proteins vitamins and minerals’-sources and deficiency disorders. ➤ Physical activity – calorie expenditure for various activities, aerobics and yoga. 	17-10-2022 26-10-2022 27-10-2022 07-11-2022	1 Hrs 2 Hrs 1 Hrs	2 Hrs	-

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (June) Monthly Test - Unit-II (July) CIA / Mid Semester – Unit-I - Unit-III (First 1/2 Unit)- 2 ½ Units (August) Monthly Test– Unit –IV (September) CIA / Model Examination -Unit-III(Second 1/2 Unit) –Unit-V- 2 ½ Units (October)
Assignment	Assignment I –Unit –I and Unit –II (August) Assignment II – Unit –III and Unit – IV (September)
Quiz	Two Mark Quiz Test - Unit I – Unit – V (October)
Seminar	Unit –V (September and October)
Tutorial Ward Meeting	Monthly once
Mentor Mentee Meeting	Weekly Once



Signature of the Principal

A. General Information:

Name of the Faculty	:	Mrs. G. Dharani, Assistant Professor
Department	:	Biochemistry
Programme	:	II -B.Sc, Biochemistry
Name of the Paper	:	HUMAN PHYSIOLOGY
Programme code	:	USB
Lecture Hours	:	90 Hrs

B. About the Course:

Course Objective	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">➤ To enable the students can get knowledge about various physiological system and their function in human anatomy.➤ To learn the function of body fluid.➤ To study the concepts of digestive system.➤ To learn the structure if circulatory system.➤ To acquire knowledge about excretory, Nervous system and reproductive system.	<ul style="list-style-type: none">➤ Ensure the students to acquire knowledge on composition and function of body fluid.➤ To understand the apply the various concepts of digestive system.➤ To understand the anatomy and physiology and cardiovascular and respiratory system.➤ To classify different type of muscle and anatomy of excretory and nervous system.➤ To understand the general anatomy and function of the male and female reproductive organs.	<ul style="list-style-type: none">➤ Power point E-Modules➤ Chalk and Talk method,➤ Lecture Method➤ Discussion Method➤ Study Assignment Method➤ Seminar Method

C.PLAN OF THE WORK:

Unit/ Modules	Topic to be Covered	Proposed date	Lecture Hours	Remarks
Unit - I Content- 15Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ➤ Extra cellular fluid (plasma, interstitial and transcellular fluid). ➤ Intracellular fluid (lymph and Blood) composition and function. ➤ Osmolarity of body fluids, Ionic composition and Electrolytes, Body buffers. ➤ Blood cells, Haemoglobin, Haemopoiesis. ➤ Blood Coagulation and Blood Groups. 	19.07.2022 to 23.08.2022	4 Hrs 4 Hrs 4Hrs 3 Hrs 3 Hrs	-
Unit - II Content- 15Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ➤ Anatomy of digestive system salivary, Gastric Secretions ➤ Bile secretions - composition and functions. ➤ Intestinal hormones. Movements in Gastro intestinal tract. ➤ Digestion and absorption in the small intestine ➤ Digestion and absorption in the small intestine. Large intestine 	05.09.2022 to 23.9.2022	3 Hrs 4 Hrs 3 Hrs 4 Hrs 4 Hrs	-
Unit - III Content- 15Hrs, Assessment -3 Hrs	<ul style="list-style-type: none"> ➤ Structure of Heart and blood vessels, cardiac cycles ➤ Blood pressure, factors affecting Blood pressure ➤ Electrocardiogram. 	24.09.2022 to 11.10.2022	4 Hrs 4 Hrs 4 Hrs 2 Hrs 4 Hrs	-

Total - 18 Hrs	<ul style="list-style-type: none"> ➤ Respiration: Anatomy and physiology of respiration exchange of gases between lungs and blood, blood and tissues ➤ Role of lungs in acid - base balance. 			
Unit - IV Content- 15Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ➤ Structure of Kidney, nephron composition and formation of urine. ➤ Renal regulation of acid - base balance. ➤ Muscles: types of muscles structure, mechanism of muscle contraction. ➤ Nervous System: structure of brain, neuron, nerve impulse, synapse. ➤ Cerebrospinal fluid and blood brain barrier. 	12.10.2022 to 28.10.2022	4 Hrs 4 Hrs 3 Hrs 4 Hrs 3 Hrs	-
Unit - V Content- 15Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ➤ General anatomy of the male and female reproductive organs. ➤ Testis, ovary, Uterus, menstrual cycle, physiological changes ➤ Spermatogenesis, ovulation, ➤ Physiology of pregnancy- metabolic changes during pregnancy. 	2.11.2022 to 11.12.2022	4Hrs 4Hrs 3Hrs 3Hrs 4Hrs	-

D.ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (August) Monthly Test - Unit-II (September) CIA / Mid Semester – Unit-I - Unit-III (First 1/2 Unit)- 2 ½ Units (September) Monthly Test– Unit –IV (October) 10.11.2022 TO 17.11.2022 CIA / Model Examination -Unit-III(Second 1/2 Unit) –Unit-V- 2 ½ Units
Assignment	Assignment I –Unit –I and Unit –II (August) Assignment II – Unit –III and Unit – IV (September)
Quiz	Two Mark Quiz Test - Unit I – Unit – V (end of October)
Seminar	Monthly once
Tutorial Ward Meeting	Monthly once
Mentor Mentee Meeting	Weekly Once



Signature of Principal

A. General Information:

Name of the Faculty : Mrs. G. Dharani, Assistant Professor
Department : Biochemistry
Programme : I-B.Sc, Biochemistry
Name of the Paper : BIOMOLECULES
Programme code : USB
Lecture Hours : 90 Hrs

B. About the Course:

Course Objective	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">➤ To enable the students can get knowledge about structure, classification of carbohydrates, amino acids, lipids, vitamins. Learn the elements present in bio molecules and difference monomers.➤ Understand the fundamentals of carbohydrates, protein, lipids, porphyrins, Aminoacids and nucleic acids and their association with various metabolic diseases.➤ Identify their chemical elements of nucleotide➤ Learn about saturated and unsaturated fatty acids.➤ Learn about types and nutritional requirements of macro minerals and micro minerals.	<ul style="list-style-type: none">➤ Describe the structure of amino acids, proteins, enzymes, chemical messengers, carbohydrates, lipids and nucleic acids.➤ Explain the function of the above listed Bio molecules.➤ Describe the metabolism of carbohydrates, lipids, proteins and amino acids. Write chemical reactions for the individual steps in each.	<ul style="list-style-type: none">➤ Power point➤ E-Modules➤ Chalk and Talk method,➤ Lecture Method➤ Discussion Method➤ Study Assignment Method➤ Seminar Method

C. PLAN OF THE WORK:

Unit/ Modules	Topic to be Covered	Proposed date	Lecture Hours	Remarks
Unit - I Content- 15Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ➤ Carbohydrates structure and classification. ➤ Configuration of glucose and fructose ➤ Structure and biological functions of mono(Triose to xedose), Di, Oligo(Tri,tetra,pen ta) ➤ Polysaccharides ➤ Homo and Heteroglycans 	22.08.2022 to 12.09.2022	3 Hrs 4 Hrs 3 Hrs 4 Hrs 4 Hrs	-
Unit - II Content- 15Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ➤ Amino acids structure, classification ➤ Essential and non essential amino acids. ➤ Zwitter ions isoelectricpoint. ➤ Proteins structure, classification ➤ Denaturation and Renaturation with 	13.09.2022 to 26.9.2022	3 Hrs 3 Hrs 4 Hrs 4 Hrs 4 Hrs	-

	agents			
Unit - III Content- 15Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ➤ Fatty acids structure, classification. ➤ PUFA ➤ Essential and non essential fatty acids ➤ Lipids classification, structure, properties ➤ Example in lipids (cholesterol and lecithin structure). 	27.09.2022 to 13.10.2022	4 Hrs 3 Hrs 4 Hrs 4 Hrs 3 Hrs	-
Unit - IV Content- 15Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ➤ Purine and pyrimine base. ➤ Classification and structure of nucleicacids. ➤ Function of nucleicacids. ➤ DNA (Watson& crick model). ➤ RNA. 	17.10.2022 to 8.11.2022	4 Hrs 4 Hrs 3 Hrs 4 Hrs 3 Hrs	-
Unit - V Content- 15Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ➤ Classification and structure of vitamins. ➤ Deficiency diseases of fat and water soluble 	9.11.2022 to 23.11.2022	4 Hrs 4 Hrs 3 Hrs 3 Hrs 4 Hrs	-

	vitamins. ➤ Types and nutritional requirements of minerals. ➤ Macro Minerals ➤ Micro Minerals.			
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D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (September) Monthly Test- Unit-II (October) CIA / Mid Semester – Unit-I - Unit-III (First 1/2 Unit)- 2 ½ Units (September) Monthly Test- Unit –IV (October) Monthly Test- Unit –V (Beginning of November) 14.11.2022 TO 22.11.2022 CIA / Model Examination -Unit-III(Second 1/2 Unit) –Unit-V- 2 ½ Units
Assignment	Assignment I –Unit –I and Unit –II (September) Assignment II – Unit –III and Unit – IV (October)
Quiz	Two Mark Quiz Test- Unit I- Unit- V (November)
Seminar	Monthly once
Tutorial Ward Meeting	Monthly once
Mentor Mentee Meeting	Weekly Once

Signature of Principal



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Department of Biochemistry

A. GENERAL INFORMATION

Name of the Faculty	: Ms.M.Bharathi
Department	: Biochemistry
Programme	: III B.Sc, Biochemistry
Programme Code	: UBK
Name of the Paper	: Clinical biochemistry
Lecture Hours / Practical Hours	: 90 Hrs

B.ABOUT THE COURSE:

COURSE OBJECTIVES	COURSE OUTCOMES	TEACHING METHODOLOGY
<ul style="list-style-type: none">➤ To enable the students can get knowledge about the disease caused due to disorders of various metabolic reaction in living cells.➤ To use basic laboratory skills and apparatus to obtain reproducible data from biochemical experiments;➤ To implement experimental protocols, and adapt them to plan and carry out simple investigations;	<ul style="list-style-type: none">➤ will be able to clinically assess the laboratory indicators of physiologic conditions and diseases➤ will know the biochemical and molecular tools needed to accomplish preventive, diagnostic and therapeutic intervention on hereditary and acquired disorders Course contents➤ Assessment of the diagnostic performance of laboratory tests according to the clinical setting and prevalence of disease.➤ Determine various substances including substrates, enzymes, hormones, etc and their use in diagnosis and monitoring of disease	<ul style="list-style-type: none">➤ Class room Chalk and Talk➤ Power point.➤ e- Module➤ Classes through Practical demonstration.➤ Showing models to the students to make them understand.

<ul style="list-style-type: none"> ➤ To analyse, interpret and participate in reporting to their peers on the results of their laboratory experiments; ➤ To participate in and report orally on team work investigations of problem-based assignments; ➤ To build on their knowledge and understanding in tackling more advanced and specialised courses, and more widely to pursue independent, self-directed and critical learning. 	<p>are applied</p> <ul style="list-style-type: none"> ➤ Evaluate the abnormalities which commonly occur in the clinical field ➤ Review the information from each category of tests and develop a protocol for disease diagnosis 	
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C.PLAN OF THE WORK

Unit /Modules	Topic to be covered	Proposed Date	Lecture Hours	Practical Hours	Remark
UNIT -I Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ➤ Disorder of fluids ➤ Disorder involving H+ Concentration ➤ Water Toxicity, dehydration ➤ Renal function Test ➤ Normal and Abnormal 	20.12.2022 to 25.12.2022	2 hrs 1 hrs 2 hrs 2 hrs 3 hrs 2 hrs 2hrs	-	-

	constituents of urine ➤ Blood clotting mechanism ➤ Haemophilia ➤ Porphyria ➤ Anticoagulants		1hrs		
UNIT-II Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	➤ maintenance of blood sugar ➤ hypoglycemia, hyperglycemia, Glycouria ➤ Renal threshold value ➤ Diabetes mellitus ➤ Glucose tolerance test ➤ Diabetic coma, Diabetic ketoacidosis ➤ Glycogen storage disease ➤ Fructosuria, galactsemia, hypoglycemic agent	01.01.2023 to 19.01.2023	2 hrs 2 hrs 2 hrs 2hrs 1 hrs 2hrs 2hrs		
UNIT-III Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	➤ Liver and adipose disease ➤ Plasma lipoproteins ➤ Cholesterol ➤ Fatty liver, atherosclerosis ➤ Lipid storage disease ➤ Hypolipoproteinemia, hyperlipoproteinemia	20.01.2023 to 28.01.2023	2 hrs 3hrs 2hrs 3hrs 2hrs 3hrs		
UNIT-IV Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	➤ Plasma proteins ➤ Nitrogen balance, proteinuria ➤ Multiple myeloma, Wilson disease ➤ Liver function test ➤ Jaundice	16.02.2023 to 27.02.2023	2 hrs 2hrs 2 hrs 2hrs 1hrs 1hrs 2hrs		

	<ul style="list-style-type: none"> ➤ Phenyl ketoneuria, alkaptanuria, tyrosinemia, albinism, ➤ Gout-complications ➤ Lesch nyhan synthrome ➤ Oroticaciduria 		1hrs 1hrs 1hrs		
UNIT -V Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ➤ Thyroid disorder ➤ Pituitary disorder ➤ Adrenal medulla ➤ Sex hormones 	12.03.2023 to 24.03.2023	4hrs 4hrs 4hrs 3hrs		

D.ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (March) Monthly Test - Unit-II (March) CIA / Mid Semester – Unit-I - Unit-III (First 1/2 Unit)- 2 ½ Units (April) Monthly Test- Unit -IV (April) CIA / Model Examination -Unit-III(Second 1/2 Unit) -Unit-V- 2 ½ Units
Assignment	Assignment I –Unit -I and Unit -II (April) Assignment II – Unit -III and Unit - IV (March)
Quiz	Two Mark Quiz Test - Unit I – Unit - V (May)
Seminar	Unit -V (April)
Tutorial Ward Meeting	Monthly once



Signature of the Principal

A. GENERAL INFORMATION

Name of the Faculty	: Mrs.G.Dharani
Department	: Biochemistry
Programme	: III B.Sc, Biochemistry
Programme Code	: UBL
Name of the Paper	: Immunology
Lecture Hours / Practical Hours	: 6 Hrs / Week / Lecture Hours

B.ABOUT THE COURSE:

COURSE OBJECTIVES	COURSE OUTCOMES	TEACHING METHODOLOGY
<ul style="list-style-type: none">➤ To enable the students can get knowledge about the, immune system, immuneresponse and allergic reaction.➤ The students will be able to identify the cellular and molecular basis of immune responsiveness.➤ The students will be able to describe the roles of the immune system in both maintaining health and contributing to disease.➤ The students will be able to describe immunological response and how it is triggered and regulated.	<ul style="list-style-type: none">➤ will be able to clinically assess the laboratory indicators of physiologic conditions and diseases<ul style="list-style-type: none">➤ will know the biochemical and molecular tools needed to accomplish preventive, diagnostic and therapeutic intervention on hereditary and acquired disorders Course contents➤ Assessment of the diagnostic performance of laboratory tests according to the clinical setting and prevalence of disease.➤ Determine various substances including substrates, enzymes, hormones, etc and their use in diagnosis and monitoring of disease are applied➤ Evaluate the abnormalities which commonly occur in the clinical field	<ul style="list-style-type: none">➤ Class roomChalk and Talk➤ Power point.➤ e- Module➤ Classes through Practical demonstration.➤ Showing models to the students to make them understand.

➤ The students will be able to demonstrate a capacity for problem-solving about immune responsiveness.	➤ Review the information from each category of tests and develop a protocol for disease diagnosis	
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C.PLAN OF THE WORK

Unit /Modules	Topic to be covered	Proposed Date	Lecture Hours	Practical Hours	Remark
UNIT -I Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ➤ Lymphocytes ➤ Types of immunity ➤ Primary and lymphoid organ ➤ Immune response ➤ Antigen presenting cells ➤ classification of complement ➤ Immune tolerance 	20.12.2022 to 25.12.2022	2 hrs 2 hrs 2 hrs 4 hrs 3 hrs 1 hrs 1hrs	-	-
UNIT-II Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ➤ Structure of immunoglobulins ➤ Monoclonal antibodies ➤ Antigen antibody interaction ➤ Antitoxin, agglutination 	01.01.2023 to 19.01.2023	4 hrs 4 hrs 4 hrs 3hrs		
UNIT-III Content- 15 Hrs, Assessment	<ul style="list-style-type: none"> ➤ Production of antisera ➤ Immunoelectrophoresis ➤ Immunodiffusion. ➤ Immunoelectrophoresis 	20.01.2023 to 28.01.2023	2 hrs 2hrs 2hrs 2hrs		

-3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ➤ Radio immunoassay ➤ Immunofluorescence ➤ Complement fixation ➤ ELISA 		2hrs 2hrs 2hrs 1hrs		
UNIT-IV Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ➤ Blood group antigen ➤ Rhesus incompatibility ➤ Major Histocompatibility ➤ HLA-Immune response ➤ Pathogenesis of autoimmune disease 	16.02.2023 to 27.02.2023	3 hrs 3hrs 3hrs 3 hrs 3hrs		
UNIT -V Content- 15 Hrs, Assessment -3 Hrs Total - 18 Hrs	<ul style="list-style-type: none"> ➤ Hypersensitivity ➤ Macrophage activation ➤ Transplantation ➤ Immunosuppressive drug 	12.03.2023 to 24.03.2023	4hrs 4hrs 4hrs 3hrs		

D.ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (March) Monthly Test - Unit-II (April) CIA / Mid Semester – Unit-I - Unit-III (First 1/2 Unit)- 2 ½ Units (April) Monthly Test– Unit –IV (April) CIA / Model Examination -Unit-III(Second 1/2 Unit) –Unit-V- 2 ½ Units (May)
Assignment	Assignment I –Unit –I and Unit –II (April) Assignment II – Unit –III and Unit – IV (March)
Quiz	Two Mark Quiz Test - Unit I – Unit – V (May)
Seminar	Unit –V (April)
Tutorial Ward Meeting	Monthly once



Signature of the Principal

A. General Information

Name of the Faculty : Mrs.G.Dharani
Department : Biochemistry
Programme : II – B.Sc, Biochemistry
Name of the Paper : CELL AND MOLECULAR BIOLOGY
Programme code : USB
Lecture Hours : 75 Hrs

B. About the Course:

Course Objective	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">➤ To bring understanding of structure and function of cells.➤ To study about cell organelles.➤ To know about replication of DNA➤ To learn about Eukaryotic and prokaryotic transcription.➤ To learn the mechanism of translation.	<ul style="list-style-type: none">➤ To understand the cell and types of signal transduction system.➤ Ensure the students to understand structure and function of plant and animal cell organelles.➤ To study the basic types of replication and replication mechanism.➤ To understand the different stage of mechanism if transcription.➤ Ensure the students to understand acquire knowledge on prokaryotic and eukaryotic translation	<ul style="list-style-type: none">➤ Power point E-Modules➤ Chark and Talk method,➤ Lecture Method➤ Discussion Method➤ Study Assignment Method➤ Seminar Method

C. PLAN OF THE WORK:

Unit/ Modules	Topic to be Covered	Proposed date	Lecture Hours	Assessme nt Hrs	Remarks
Unit - I Content- 12Hrs, Assessment - 3 Hrs Total - 15 Hrs	<ul style="list-style-type: none"> ➤ Cell wall - structure, components and functions. ➤ Cell surface, function , surface receptor, surface carbohydrate and surface recognition and lectins. ➤ signal transduction system-types of transport across membrane receptor ➤ GPCR, Second messenger – CAMP,IP3,Ca+. ➤ cell division and cell cycle. 	20.12.2022 to 25.12.2022	2 Hrs 3 Hrs 3 Hrs 2 Hrs 2 Hrs	3 Hrs	-
Unit - II Content- 12Hrs, Assessment - 3 Hrs Total - 15 Hrs	<ul style="list-style-type: none"> ➤ Structure and functions of Endoplasmic reticulam, ➤ Golgi apparatus ➤ Lysosomes, Mitochondria, ➤ Ribosome's, Chloroplast, 	01.01.2023 to 19.01.2023	2 Hrs 3 Hrs 2 Hrs 3 Hrs 2 Hrs	3 Hrs	-

	<p>centrosomes,</p> <ul style="list-style-type: none"> ➤ Vacuoles, Nucleus and nucleoli. ➤ Chromatin structure and function. 				
<p>Unit - III</p> <p>Content- 12Hrs, Assessment - 3 Hrs Total - 15 Hrs</p>	<ul style="list-style-type: none"> ➤ Evidences of DNA as genetic material. ➤ Types of replication- Mechanism of replication- ➤ Enzymes and accessory proteins involved in replication, ➤ DNA repair mechanism. 	<p>20.01.2023 to 28.01.2023</p>	<p>3 Hrs 3 Hrs 3 Hrs 3 Hrs</p>	<p>3 Hrs</p>	<p>-</p>
<p>Unit - IV</p> <p>Content- 12Hrs, Assessment - 3 Hrs Total - 15 Hrs</p>	<ul style="list-style-type: none"> ➤ Prokaryotic transcription- Mechanism of initiation, elongation and termination of transcription. ➤ Eukaryotic transcription- Mechanism of initiation, elongation ➤ Post transcriptional 	<p>16.02.2023 to 27.02.2023</p>	<p>3 Hrs 3 Hrs 3 Hrs 3 Hrs</p>	<p>3 Hrs</p>	<p>-</p>

	<p>modification</p> <ul style="list-style-type: none"> ➤ Inhibitors of transcription-Jacob and Monod concept-Regulation of transcription. 				
<p>Unit - V</p> <p>Content- 12Hrs, Assessment - 3 Hrs Total - 15 Hrs</p>	<ul style="list-style-type: none"> ➤ Prokaryotic mechanism of translation, ➤ Eukaryotic translation mechanism ➤ post translational modification. ➤ Genetic code and its characteristic features. 	<p>12.03.2023 to 24.03.2023</p>	<p>3 Hrs 3 Hrs 3 Hrs 3 Hrs</p>	<p>3 Hrs</p>	<p>-</p>

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (March) Monthly Test - Unit-II (April) CIA / Mid Semester - Unit-I - Unit-III (First 1/2 Unit) - 2 ½ Units (February) Monthly Test- Unit -IV (March) CIA / Model Examination -Unit-III(Second 1/2 Unit) -Unit- V- 2 ½ Units (April)
Assignment	Assignment I -Unit -I and Unit -II (March) Assignment II -Unit -III and Unit - IV (April)
Quiz	Two Mark Quiz Test - Unit I - Unit - V
Seminar	Unit -V
Tutorial Ward Meeting	Monthly once
Mentor Mentee Meeting	Weekly Once



Signature of the Principal



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DEPARTMENT OF B.VOC SOFTWARE

A. General Information:

Name of the Faculty	:Ms. J.Suganya
Department	:B.Voc Software Development in Multimedia and Animation
Programme	:I – B.Voc
Name of the Paper	:Basic Computer Skills
Programme code	:XVGA
Lecture Hours	:4 Hrs / Week / Lecture Hours-60Hrs

B. About the Course:

Course Objective	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">The main objective of the subject is to impart the knowledge about the basic computing concepts and ability to use common software applications.	<ul style="list-style-type: none">Demonstrate a basic understanding of computer hardware and software.Demonstrate problem-solving skills.Apply logical skills to programming in a variety of languages.Utilize web technologies.Present conclusions effectively, orally, and in writing.	<ul style="list-style-type: none">Power point E-ModulesChalk and Talk methodLecture MethodDiscussion MethodStudy Assignment MethodSeminar Method

C. PLAN OF THE WORK:

Unit/ Modules	Topic to be Covered	Proposed date	Lecture Hours	Practical	Remarks
Unit – I Content- 10 Hrs, Assessment -2Hrs Total - 12Hrs	<ul style="list-style-type: none"> • Introduction of Computer • Basic introduction of computer • Classification of Computer • Characteristics of Computer • Components of Computer. 	04-08-2022 to 24-08-2022	3Hrs 3Hrs 2Hrs 2Hrs 2Hrs	-	-
Unit - II Content- 10 Hrs, Assessment -2Hrs Total - 12Hrs	<ul style="list-style-type: none"> • Computer Architecture - Introduction, First Electronic Computers, Low-Level Languages, High-Level Languages. • Memory Units: RAM ROM, PROM, EPROM, EEPROM and Flash Memory. • Auxiliary Storage Devices: Magnetic Tape, Hard Disk, Floppy Disk, Zip Disk, Jaz Disk, • Super Disk, Optical Disk, CD-ROM, CD-R Drive, CD-RW Disk. • Basic Input/Output Devices. 	25-08-2022 to 11-09-2022	3 Hrs 2Hrs 3 Hrs 2Hrs 2 Hrs		

<p>Unit – III Content- 10 Hrs, Assessment -2Hrs Total - 12Hrs</p>	<ul style="list-style-type: none"> • Introduction to Computer Software: Introduction- Compilers & Interpreters- DBMS. • Operating System: Functions of an Operating System • Classification of Operating Systems- • Programming Languages: Machine Languages- Assembly Languages- High-Level Languages • Compilers and Interpreters. 	<p>12.09.2022 to 03.10.2022</p>	<p>3Hrs 3Hrs 2 Hrs 2Hrs 2 Hrs</p>		
<p>Unit – IV Content- 10 Hrs, Assessment -2Hrs Total - 12Hrs</p>	<ul style="list-style-type: none"> • Microsoft Word: Introduction - Word Environment - Opening and Creating a New Document - Saving Documents • Proofing Features - Printing a Document - Formatting Text • Working with Shapes and Lists - Line and Paragraph Spacing- • Working with Tables - Working with Pictures- • Working with Headers 	<p>05.10.2022 to 23.10.2022</p>	<p>3Hrs 2Hrs 2Hrs 2Hrs 3Hrs</p>		

	and Footers Using Mail Merge.				
Unit – V Content- 10 Hrs, Assessment -2Hrs Total - 12Hrs	<ul style="list-style-type: none"> • Microsoft Excel: Introduction - Basic data entry, fill handle - Insert columns • Arithmetic Calculations & Formulas - Excel Formulas • Calculate with Functions - Function Library - Graphs and Charts - Printing the Document. • Microsoft Powerpoint: Starting PowerPoint - Working with Slides – Applying Theme • Animation- Transitions – Views. 	24.10.2022 to 28.10.2022 16.11.2022 to 21.11.2022	3 Hrs 2Hrs 2Hrs 3 Hrs 2 Hrs		

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (June) Monthly Test - Unit-II (July) CIA / Mid Semester – Unit-I - Unit-III (First 1/2 Unit) - 2 ½ Units (August) Monthly Test- Unit -IV (September) 27.11.2020 to 08.12.2020 CIA / Model Examination -Unit-III(Second 1/2 Unit) –Unit-V- 2 ½ Units(October)
Assignment	Assignment I –Unit –I and Unit –II (August) Assignment II –Unit –III and Unit – IV (September)
Quiz	Two Mark Quiz Test - Unit I – Unit – V (October)
Seminar	Unit –V (September and October)
Tutorial Ward Meeting	Monthly once



Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty : J.Suganya
Department : Software Development in Multimedia and Animation
Programme : B.Voc
Programme code : BVX1
Name of the Paper : Discrete Mathematics
Lecture Hours/Practical Hours : 90 Hours

B. ABOUT THE COURSE

Course Objectives	Course outcomes	Teaching Methodology
<ul style="list-style-type: none">The course objective is to provide students with an overview of discrete mathematics. Students will learn about topics such as logic and proofs, sets and functions, probability, recursion, graph theory, matrices, Boolean algebra and other important discrete math concepts.	<p>On Completion of the Course, Students should be able to do</p> <ul style="list-style-type: none">Use logical notationPerform logical proofsApply recursive functions and solve recurrence relationsDetermine equivalent logic expressionsDescribe useful standard library functions, create functions, and declare parameters	<ul style="list-style-type: none">Chalk and TalkQuizSeminarE-ContentE-Module

C. PLAN OF THE WORK

Unit/ Modules	Topic to be covered	Proposed date	Lecture Hrs	Practic al Hrs
Unit I Assignme nt 3Hrs	<ul style="list-style-type: none"> • Sets and Propositions: Definition and representation of sets. • Basic set operations - Venn diagrams - Set Identities • Principle of Inclusion - Exclusion. • Propositions: Introduction - Well formed formulas • Truth table - Tautology, Contradiction, Contingency - Propositional Equivalences • Logic- Connectives - Predicates and Quantifiers. 	09.08.2022 to 27.08.202	15Hrs	NIL
Unit II Assignme nt 3Hrs	<ul style="list-style-type: none"> • Functions and Relations: Definition and examples - One-to-one and onto functions • Permutations. Relations: Definition and examples - Binary Relations - Properties • Equivalence and Partial Ordering • Representation of relation 	28.08.2022 to 14.09.2022	15Hrs	NIL

	in matrix, by Digraph - closure operations on relations.			
Unit III Assignment 3Hrs	<ul style="list-style-type: none"> Algebraic Systems: Definition and examples, Semi groups and monoids: Definitions and examples, Subsemigroups and Submonoids Homomorphism of Semigroups and Monoids. Groups: Definitions and examples. 	25.09.2022 to 08.10.2022	15Hrs	NIL
Unit IV Assignment 3Hrs	<ul style="list-style-type: none"> Graph Theory: Introduction - Definition and Examples - Edges sequence, walks, paths and circuits Directed graph- Subgraph and operations on the graph Isomorphic graphs - Connected Matrix representation of Graphs. 	09.10.2022 to 23.10.2022 17.11.2022 To 23.11.2022	15Hrs	NIL
Unit V Assignment 3Hrs	<ul style="list-style-type: none"> Trees: Introduction - Properties - Special Classes of Trees Definition of spanning tree - minimal spanning tree. 	24.11.2022 to 15.12.2022	15Hrs	NIL

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (June) Monthly Test - Unit-II (July) CIA / Mid Semester – Unit-I - Unit-III (First 1/2 Unit)- 2 ½ Units (August) Monthly Test- Unit -IV (September) CIA / Model Examination -Unit-III(Second 1/2 Unit) -Unit-V- 2 ½ Units (October)
Assignment	Assignment I –Unit –I and Unit –II (August) Assignment II- Unit –III and Unit – IV (September)
Quiz	Two Mark Quiz Test - Unit I – Unit – V (October)
Seminar	Unit –V (September and October)
Tutorial Ward Meeting	Monthly once
Mentor Mentee Meeting	Weekly Once



Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty	: J.Suganya
Department	: Software Development in Multimedia and Animation
Programme	: B.Voc
Programme code	: RVXR
Name of the Paper	: Life Skills
Lecture Hours/Practical Hours	: 35 Hours

B. ABOUT THE COURSE

Course Objectives	Course outcomes	Teaching Methodology
This course is designed to enhance the employability and maximize the potential of the students by introducing them to the principles that underlay personal and professional success, and help them acquire the skills needed to apply these principles in their lives and careers	On Completion of the Course, Students should be able to do <ul style="list-style-type: none">• Define and Identify different life skills required in personal and professional life• Develop an awareness of the self and apply well-defined techniques to cope with emotions and stress.• Take part in group discussions• Use appropriate thinking and problem solving techniques to solve new problems• Understand the basics of teamwork and leadership	<ul style="list-style-type: none">• Chalk and Talk• Quiz• Seminar• E-Content• E-Module

C. PLAN OF THE WORK

Unit/ Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I	<ul style="list-style-type: none"> • Overview of Life Skills: Meaning and significance of life skills • Life skills identified by WHO: Selfawareness, Empathy, Critical thinking, Creative thinking, Decision making, problem solving, • Effective communication, interpersonal relationship, coping with stress, coping with emotion. • Life skills for professionals: positive thinking, right attitude, attention to detail, having the big picture, learning skills, research skills, perseverance, • Setting goals and achieving them, helping others, leadership, motivation, self-motivation, and motivating • personality development, IQ, EQ, and SQ 	10.08.2022 To 11.08.2022	4 Hrs	NIL	3 Hrs Assessment
Unit II	<ul style="list-style-type: none"> • Self-awareness: definition, need for self-awareness; 	26.08.2022 to	4Hrs	NIL	3 Hrs Assessment

	<p>Coping With Stress and Emotions</p> <ul style="list-style-type: none"> • Human Values, tools and techniques of SA: questionnaires, journaling, reflective questions, meditation, mindfulness, psychometric tests, feedback. • Stress Management: Stress, reasons and effects, identifying stress, stress diaries, the four A's of stress management, techniques • Approaches: action-oriented, emotion-oriented, acceptance-oriented, resilience, Gratitude Training, • Coping with emotions: Identifying and managing emotions, harmful ways of dealing with emotions, PATH method and relaxation techniques. • Morals, Values and Ethics: Integrity, Civic Virtue, Respect for Others, Living Peacefully. Caring, Sharing, 	<p>27.08.2022</p> <p>04.09.2022 to 13.09.2022</p>			<p>t</p>
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	<p>Honesty, Courage,</p> <ul style="list-style-type: none"> Valuing Time, Time management, Co operation, Commitment, Empathy, Self-Confidence Character, Spirituality, Avoiding Procrastination, Sense of Engineering Ethics 				
Unit III	<ul style="list-style-type: none"> 21st century skills: Creativity, Critical Thinking, Collaboration, Problem Solving, Decision Making, Need for Creativity in the 21st century Imagination, Intuition, Experience, Sources of Creativity, Lateral Thinking, Myths of creativity, Critical thinking Vs Creative thinking Functions of Left Brain & Right brain, Convergent & Divergent Thinking, Critical reading & Multiple Intelligence. Steps in problem solving: Problem Solving Techniques, Six Thinking Hats, Mind Mapping, 	<p>14.09.2022 20.09.2022 to 21.09.2022</p> <p>27.09.2022 to 28.09.2022</p>	4 Hrs	NIL	3 Hrs Assessment

	<p>Forced Connections.</p> <ul style="list-style-type: none"> Analytical Thinking, Numeric, symbolic, and graphic reasoning. Scientific temperament and Logical thinking. 				
Unit IV	<ul style="list-style-type: none"> Group and Team Dynamics: Introduction to Groups: Composition, formation, Cycle, thinking, Clarifying expectations, Problem Solving, Consensus, Dynamics techniques, Group vs Team, Team Dynamics, Virtual Teams. Managing team performance and managing conflicts, Intrapreneurship 	<p>04.10.2022 to 05.10.2022 11.10.2022 to 12.10.2022 22.10.2022</p>	4 Hrs	NIL	3 Hrs Assessment
Unit V	<ul style="list-style-type: none"> Leadership: Leadership framework, entrepreneurial and moral leadership, vision, cultural dimensions. Growing as a leader Turnaround leadership, managing diverse stakeholders, crisis 	<p>23.10.2022 to 20.11.2022 21.11.2022 to 30.11.2022</p>	4 Hrs	NIL	3 Hrs Assessment

	<p>management.</p> <ul style="list-style-type: none"> Types of Leadership, Traits, Styles, VUCA Leadership, Levels of Leadership, Transactional vs Transformational Leaders, Leadership Grid, Effective Leaders. 				
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D. ACTIVITIES

Activities Name	Details
Test	<p>Monthly Test- Unit-I (June)</p> <p>Monthly Test - Unit-II (July)</p> <p>CIA / Mid Semester – Unit-I - Unit-III (First 1/2 Unit)- 2 ½ Units (August)</p> <p>Monthly Test– Unit –IV (September)</p> <p>CIA / Model Examination -Unit-III(Second 1/2 Unit) –Unit-V- 2 ½ Units (October)</p>
Assignment	<p>Assignment I –Unit –I and Unit –II (August)</p> <p>Assignment II – Unit –III and Unit – IV (September)</p>
Quiz	Two Mark Quiz Test - Unit I – Unit – V (October)
Seminar	Unit –V (September and October)
Tutorial Ward Meeting	Monthly once
Mentor Mentee Meeting	Weekly Once

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DEPARTMENT OF B.VOC SOFTWARE

A. General Information:

Name of the Faculty	: Ms. S.Vaishali
Department	:B.Voc Software Development in Multimedia and Animation
Programme	:II – B.Voc
Name of the Paper	:Social Media Plan and Process
Programme code	:XVSF
Lecture Hours	:4 Hrs / Week / Lecture Hours-60Hrs

B. About the Course:

Course Objective	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">The main objective of the subject is to handle all the social media activities for their company/ multiple clients in order to create a brand awareness. It comprises of ideating, coordinating, executing social media campaigns, promotions and advertisements.	<ul style="list-style-type: none">Create the process flow for the social media marketing activities that needs to be conductedOrganize the work related to social media marketing activities to achieve the set targetsManage the available online tools to effectively perform the social media marketing activitiesDesign the content required to implement the social media marketing campaignsImplement the defined social media marketing strategy based on the organization's goals	<ul style="list-style-type: none">Power point E-ModulesChalk and Talk method,Lecture MethodDiscussion MethodStudy Assignment MethodSeminar Method

C. PLAN OF THE WORK:

Unit/ Modules	Topic to be Covered	Proposed date	Lecture Hours	Practica l	Remarks
Unit – I Content- 9 Hrs, Assessment - 3 Hrs Total - 12Hrs	<ul style="list-style-type: none"> • Setting Social Media Objectives - Social Media and its Importance - • Identify and Set Business Objectives - Identify and Set Targets for Each of Business Objectives 	24.02.2023 To 14.03.2023	12 Hrs	-	-
Unit - II Content- 9 Hrs, Assessment - 3 Hrs Total - 12 Hrs	<ul style="list-style-type: none"> • Identify Target Segments to Focus On - Social Media & Social Media Platforms/ channels. Emergence - Channel - Goals - scope- Utility • Social Media Channels and their utility • Facebook Marketing - YouTube Marketing - Twitter Marketing - 	05.03.2023 To 31.03.2023	12 Hrs	-	-

	<p>LinkedIn Marketing</p> <p>- Instagram Marketing</p> <ul style="list-style-type: none"> • Pinterest Marketing <p>- Google+ Marketing – Email Marketing – SMS Marketing</p>				
<p>Unit – III</p> <p>Content- 9 Hrs,</p> <p>Assessment - 3 Hrs</p> <p>Total - 12 Hrs</p>	<ul style="list-style-type: none"> • Social Media Budget Plan - Determine the budget requirements to conduct the social media campaign - Budget • Budget devoted to social campaign - Social media channels allow advertising – Advertising - Paid partnerships 	<p>01.04.2023</p> <p>To</p> <p>13.04.2023</p>	12 Hrs	-	-
<p>Unit – IV</p> <p>Content- 9 Hrs</p> <p>Assessment - 3 Hrs</p> <p>Total - 12 Hrs</p>	<ul style="list-style-type: none"> • Planning KPIs to measure performance of campaigns • Establish Key Performance Indicators (KPI) - Identify Targets for 	<p>27.04.2023</p> <p>To</p> <p>07.05.2023</p>	12 Hrs	-	-

	<p>Success Indicators</p> <ul style="list-style-type: none"> Choose and Use a Good Analytics Platform - Execute Real Time Improvements Based on Measurement Results 				
<p>Unit - V Content- 9 Hrs, Assessment - 3 Hrs Total - 12 Hrs</p>	<ul style="list-style-type: none"> Social Media KPIs for Reach - Social Media KPIs for Engagement Social Media KPIs for Conversions - Social Media KPIs for Customer Loyalty 	<p>11.05.2023 To 20.05.2023</p>	<p>12 Hrs</p>	-	-

D.ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (March) Monthly Test - Unit-II (April) CIA / Mid Semester (18.04.2023 to 26.04.2023) - Unit-I - Unit-III (First 1/2 Unit) - 2 ½ Units (February) Monthly Test- Unit -IV (March) CIA / Model Examination(23.05.2023 to 31.05.2023) -Unit-III(Second 1/2 Unit) -Unit-V- 2 ½ Units (April)
Assignment	Assignment I -Unit -I and Unit -II (March) Assignment II -Unit -III and Unit - IV (April)
Quiz	Two Mark Quiz Test - Unit I - Unit - V (April)
Seminar	Unit -V (May)
Tutorial Ward Meeting	Monthly once
Mentor Mentee Meeting	Weekly Once



Signature of the Principal

A. GENERAL INFORMATION

Name of the Faculty : S.Vaishali
Department : Software Development in Multimedia and Animation
Programme : B.Voc
Programme code : XVGE
Name of the Paper : MULTIMEDIA SYSTEMS
Lecture Hours/Practical Hours : 75 Hours

B. ABOUT THE COURSE

Course Objectives	Course outcomes	Teaching Methodology
<ul style="list-style-type: none">• To learn the basics and Fundamentals of Multimedia.• To introduce Multimedia components and Tools.• To understand how Multimedia can be incorporated	<p>On Completion of the Course, Students should be able to do</p> <ul style="list-style-type: none">• Define what Multimedia is and how that works• Understand multimedia components using various tools and techniques• Analyze and interpret Multimedia data• Discuss about different types of media format and their properties• Justify the right way of manipulating multimedia systems	<ul style="list-style-type: none">• Chalk and Talk• Quiz• Seminar• E-Content• E-Module

C. PLAN OF THE WORK

Unit/ Modules	Topic to be covered	Proposed date	Lecture Hrs	Practic al Hrs	Remarks
Unit I	<ul style="list-style-type: none"> • Multimedia Fundamentals -Multimedia - Multimedia in business and work - Multimedia in Schools- Multimedia at Home - Multimedia in Public Places. • Text - The Power of Meaning - The Power and Irregularity of English - About Fonts and Faces- Using Text in Multimedia - • Designing with Text - Choosing Text Fonts - Symbols and Icons • HTML Documents - Computers and Text - Font Editing and Design Tools - Hypermedia and Hypertext. 	24.02.2023 To 14.03.2023	12Hrs	NIL	3 Hrs Assessmen t
Unit II	<ul style="list-style-type: none"> • Images - Making Still Images – Bitmaps - Bitmap Sources - Bitmap Software – • Vector Drawing - How Vector Drawing Works- Vector-Drawn Objects vs. 	05.03.2023 To 31.03.2023	12Hrs	NIL	3 Hrs Assessmen t

	<p>Bitmaps</p> <ul style="list-style-type: none"> • 3-D Drawing and Rendering – Color- Understanding Natural Light and Color - Computerized Color- Color Palettes - Dithering Image File Formats. 				
Unit III	<ul style="list-style-type: none"> • Sound - The Power of Sound- Digital Audio- Making Digital Audio Files - MIDI Audio- MIDI vs. • Digital Audio- Multimedia System Sounds - Audio File Formats • Vaughan’s Law of Multimedia Minimums- Adding Sound to Your Multimedia Project - Space Considerations -Audio Recording 	01.04.2023 To 13.04.2023	12Hrs	NIL	3 Hrs Assessment
Unit IV	<ul style="list-style-type: none"> • Video - Using Video- How Video Works and Is Displayed - Analog Video – Displays- Interlacing and Progressive Scan- Digital Video Containers - Obtaining Video Clips- Shooting and Editing Video. 	27.04.2023 To 07.05.2023	12Hrs	NIL	3 Hrs Assessment

Unit V	<ul style="list-style-type: none"> • Making Multimedia and Delivering - The Stages of a Multimedia Project- The Intangibles - Hardware – Software • Text Editing and Word Processing Tools- Painting and Drawing Tools - 3-D Modeling and Animation Tools- Image-Editing Tools - Sound-Editing Tools Animation, Video, and Digital Movie Tools • Authoring Systems - Types of Authoring Tools - Choosing anAuthoring Tool. • Delivering – Testing - Preparing for Delivery- Delivering on CD-ROM- Delivering on DVD - Wrapping It Up- Delivering on the World Wide Web. 	11.05.2023 To 20.05.2023	12Hrs	NIL	3 Hrs Assessment
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D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (March) Monthly Test - Unit-II (April) CIA / Mid Semester (18.04.2023 to 26.04.2023) - Unit-I - Unit-III (First 1/2 Unit) - 2 ½ Units (February) Monthly Test- Unit -IV (March) CIA / Model Examination (23.05.2023 to 31.05.2023) -Unit-III(Second 1/2 Unit) -Unit-V- 2 ½ Units (April)
Assignment	Assignment I -Unit -I and Unit -II (March) Assignment II -Unit -III and Unit - IV (April)
Quiz	Two Mark Quiz Test - Unit I - Unit - V (April)
Seminar	Unit -V (May)
Tutorial Ward Meeting	Monthly once
Mentor Mentee Meeting	Weekly Once



Signature of Principal



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DEPARTMENT OF B.VOC MARINE FOOD PROCESSING AND PROCESSING TECHNOLOGY

A. GENERAL INFORMATION

Name of the faculty	: Miss. V. Santhiya
Department	: Marine Food Processing and Processing Technology
Programme	: III – B.Voc., Marine
Name of the Paper	: Core Paper – Fisheries Economics
Programme Code	: VZN
Lecture Hours	: 3 Hours / Week (45 Hours)

B. ABOUT THE COURSE

Course Objectives	Course Outcomes	Teaching Methodology
<p>After reading this lesson, you should be able to</p> <ul style="list-style-type: none">➤ To understand the concept of safe food and types of hazards associated with food.➤ To control the potential threats to Micro Economics .➤ To familiarize with the Good Hygienic Practices, Food Safety Management Systems and Food Regulations.➤ Highlight the General Agreement on Tariffs and Trade(GATT).	<ul style="list-style-type: none">➤ To control the potential threats to Micro Economics .➤ The marine fisheries sector in India is subsistence fishing and much different from the factory / commercial fishing of developed countries.➤ In addition the fuel subsidy provided contributes to less than 5 per cent of the total value	<ol style="list-style-type: none">1) Power point2)E Module3)Chalk & talk method4) Lecture method5) Discussion method6) Study Assignment method7) Seminar Method

<p>➤ Understand the meaning of Evaluates the Marine fish landings in India(QTY).</p>	<p>of landings.</p> <p>➤ But on the other side the welfare measures, saving cum relief, housing and other transfer payment adds to the subsidy component in the Indian context. Evaluates the Marine fish landings in India (Qty)</p> <p>➤ The delivery system should be able to accommodate the externality social cost.</p>	
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C. PLAN OF THE WORKS

Unit/Module	Topic to be covered	Proposed date	Lecture hours	Practical hours	Remarks
Unit – I	<p>➤ Introduction to Economics</p> <p>➤ Microeconomics</p> <p>➤ Demand</p> <p>➤ Elasticity of Demand</p> <p>➤ Supply and Marketable Prices</p> <p>➤ Law o diminishing Marginal Utility</p>	<p>18-07-2022 & 21-07-2022</p>	9 Hrs	-	-
Unit – II	<p>➤ Production</p>	24-07-2022	9 Hrs	-	-

	<ul style="list-style-type: none"> ➤ Production Function ➤ Cost and Returns of scale ➤ Break Even Analysis in Fish production system 	& 29-07-2022			
Unit – III	<ul style="list-style-type: none"> ➤ Profit Maximization ➤ Farm Planning and Budgeting ➤ Preparation of Enterprise budget for Integrated fish farming 	03-08-2022 & 08-08-2022	9 Hrs	-	-
Unit – IV	<ul style="list-style-type: none"> ➤ Introduction to General Agreement on Tariffs and Trade (GATT) ➤ World Trade Organization (WTO) ➤ WTO Framework ➤ Intellectual Property Rights (IPR) ➤ Trade Related Aspects of Intellectual Property Rights (TRIPS) ➤ Biospiracy 	18-08-2022 & 20-08-2022	9 Hrs	-	-
Unit – V	<ul style="list-style-type: none"> ➤ Economic growth ➤ Fisheries trade and Environment ➤ Patents in Indian Fisheries Sector ➤ GMOs in Fisheries ➤ Concepts of Externality and Social cost 	15-09-2022 & 24-09-2022 14-10-2022 & 29-10-2022	9 Hrs	-	-

D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (June) Monthly Test - Unit-II (July) CIA / Mid Semester – Unit-I - Unit-III Monthly Test- Unit -IV (September) 27.11.2022 to 08.12.2022 CIA / Model Examination -Unit-III
Assignment	Assignment I –Unit –I and Unit –II (August) Assignment II – Unit –III and Unit – IV (September)
Quiz	Two Mark Quiz Test - Unit I – Unit – V (October)
Seminar	Unit –V (September and October)
Tutorial Ward Meeting	Monthly once



Signature of Principal

A. GENERAL INFORMATION

Name of the faculty	- Miss. V. Santhiya
Department	- Marine Food Processing and Processing technology
Programme	- III – B.Voc., Marine
Name of the Paper	- Quality Control of Fish and Fishery Products
Programme Code	- VZO
Lecture Hours	- 4 Hours / Week (60 Hours)

B. ABOUT THE COURSE

Course Objectives	Course Outcomes	Teaching Methodology
<p>After reading this lesson, you should be able to</p> <ul style="list-style-type: none"> ➤ To enable the knowledge can get students about the experiment , fresh fish quality, fish spoilage process. ➤ the microbiological quality methods in determination of spoilage. ➤ The course will provide cured fish quality crystal formation process and methodology.. ➤ This involves learning about sea food production methods HACCP in biological 	<ul style="list-style-type: none"> ➤ Possess knowledge of the fish quality and intrinsic quality. ➤ Fish preservation methods. ➤ Modified Atmospheric packaging(MAP) ➤ Traditional method of fish preservation ➤ Methods of fish drying: Natural, Solar, Artificial, Mechanical dryer. ➤ Preparation of extruded products using single screw and twin screw extruder. 	<ul style="list-style-type: none"> ➤ Power point ➤ E Module ➤ Chalk & talk method ➤ Lecture method ➤ Discussion method ➤ Study Assignment method ➤ Seminar Method

<p>methods.</p> <p>➤ Understand the meaning of Evaluates the Marine fish landings in India(QTY).</p>		
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C. PLAN OF THE WORKS

Unit/Modules	Topic to be covered	Proposed date	Lecture hours	Practical hours	Remarks
Unit – I	<ul style="list-style-type: none"> ➤ Fresh Fish quality ➤ Maintenance of quality Fish spoilage ➤ Assessment offish quality ➤ Frozen fish quality ➤ Crystal formation ➤ Freezing rate determination ➤ Inspection of raw materials ➤ HACCP in Processing raw shrimp ➤ Recording, reporting and action 	18-07-2022 & 21-07-2022	12 Hrs	-	-
Unit – II	<ul style="list-style-type: none"> ➤ Cured fish quality ➤ Schedule of Quality control in the Sun dried fish ➤ Salted fish ➤ Types of salt 	24-07-2022 & 29-07-2022	12 Hrs	-	-

	<ul style="list-style-type: none"> ➤ Quality of salt ➤ Schedule of Quality control in the Salted fish ➤ Schedule of Quality control in the Hot smoked Fish 				
Unit - III	<ul style="list-style-type: none"> ➤ Canned fish quality ➤ Schedule of Quality control in the Production of Fishery Products ➤ Quality defect in Canned fish products ➤ Cut out test for Canned fishery products 	03-08-2022 & 08-08-2022	12 Hrs	-	-
Unit - IV	<ul style="list-style-type: none"> ➤ Microbiological quality ➤ Method of determination of the bacterial in Fish ➤ Determination of Spoilage 	10-08-2022 & 18-08-2022	12 Hrs	-	-
Unit - V	<ul style="list-style-type: none"> ➤ Sanitation ➤ Hygienic practices ➤ Cleaning procedures ➤ Hygienic practices check list ➤ Phases of good 	13-09-2022 & 21-09-2022 14-10-2022 & 24-10-2022	12 Hrs	-	-

	cleaning procedures ➤ HACCP ➤ Hazard analysis of food ➤ Critical Control Point ➤ Rules o applying HACCP ➤ Developing HACCP Plan ➤ Biological hazards ➤ Chemical hazards ➤ Hygienic practices				
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D. ACTIVITIES

Activities Name	Details
Test	Monthly Test- Unit-I (June) Monthly Test - Unit-II (July) CIA / Mid Semester – Unit-I - Unit-III Monthly Test- Unit -IV (September) 27.11.2022 to 08.12.2022 CIA / Model Examination -Unit-III
Assignment	Assignment I –Unit –I and Unit –II (August) Assignment II – Unit –III and Unit – IV (September)
Quiz	Two Mark Quiz Test - Unit I – Unit – V (October)
Seminar	Unit –V (September and October)
Tutorial Ward Meeting	Monthly once

Signature of Principal

A. GENERAL INFORMATION

Name of the Faculty	:Mrs.M.Jayasri
Department	:B.Voc., Marine Food Processing and Preservation Technology
Class	:I-B.Voc.,Marine
Programme Code	: MVGA
Name of the Paper	: Fundamentals of Marine Edible Animals
Lecture Hours	: 60 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">• To study planktons, the drifting life forms inhabiting water bodies that nourish the higher trophic levels in the ocean ecosystem and also act as indicator species.• To gain knowledge of Fishery Science with regards to Population Dynamics.• To consider the application of statistical tools to study fishery science.• To learn about aquaculture of fin fish as well as crustaceans and molluscs.	<ul style="list-style-type: none">➤ Living and non-living things in the sea - Marine flora and fauna - Basic characteristics of different sea species - The ocean zones.➤ Memorise the names of some sea creatures -Distinguish between sea animals and plants -understand the relationship between species.➤ To build a strong foundation in marine edible products.➤ To prepare students for career options in aquaculture centres,	<ul style="list-style-type: none">❖ Power Point❖ E – Module❖ Chalk & Talk Method❖ Lecture Method❖ Discussion Method❖ Study Assignment Method,❖ Problem Solving Method❖ Seminar Method❖ Demonstration Method

<ul style="list-style-type: none"> To attain a clear perception of the present status of sea farming in India. 	<p>marine products, etc.</p> <p>➤ Students acquired knowledge in fishery science, as well as crustaceans and molluscs.</p>	
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C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I (12 Hrs)	History and definition of Taxonomy. Sea Weeds – Zooplanktons – PhytoPlanktons, Systematics. Binomial nomenclature. Classification of commercially important fishes, crustaceans and molluscs.	07.09.2022 to 17.09.2022	12 Hrs	-	-
Unit II (12 Hrs)	Morphology and Sexual dimorphism in fishes, crustaceans and molluscs. Maturation and spawning in fishes. Maturity stages, Gonado-somatic index, Fecundity, ova diameter studies, breeding cycles.	19.09.2022 to 30.09.2022	12 Hrs	-	-
Unit III (12 Hrs)	Life history of economically important fish species. Age and growth in fish. Methods	06.10.2022 to 17.10.2022	12 Hrs	-	-

	employed for age determination, direct and indirect methods, scales, otoliths, length frequency studies, Length-weight relationships and relative condition factor. Types of migration in fishes. Breeding migration in fishes and Crustaceans.				
Unit IV	Structure of digestive system in fishes, molluscs and crustaceans. Digestive glands and enzymes. Modification of digestive tract in relation to feeding habits. Food and feeding habits of fishes, molluscs and crustaceans. Feeding in relation to age, sex, season and maturity. Food analysis indices.	18.10.2022 to 29.10.2022	12 Hrs	-	-

Unit V (12 Hrs)	Respiration-Structure of gills, branchial glands, mechanism of ventilation, respiratory pigments, Mechanism of gas exchange. Accessory respiratory organs in fishes and its significance. Endocrine system,-Pituitary gland in fishes. Pheromones in fishes. Endocrine control of reproduction in crustaceans and molluscs.	31.10.2022 to 10.11.2022	12 Hrs	-	-
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D. ACTIVITIES:

Activities Name	Details
Test	Unit-17.09.2022
	Monthly-05.10.2022
Assignment	Mid semester-
Quiz	Model-16.11.2022
Seminar	08.11.2022
Tutor Ward Meeting	27.10.2022
	31.10.2022

Signature of Principal



A.D.M College For Women (Autonomous)

Nationally Accredited with 'A' by NAAC (Cycle-IV)

Nagapattinam -611 001

TamilNadu.



DEPARTMENT OF B.VOC MARINE FOOD PROCESSING AND PROCESSING TECHNOLOGY

A. GENERAL INFORMATION

Name of the Faculty	:	MS.V.SANTHIYA
Department	:	B.VOC MARINE
Programme	:	I-B.VOC MARINE
Programme Code	:	VZG
Name of the Paper	:	FOOD SAFETY IN SEAFOOD INDUSTRY
Lecture Hours	:	60 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
<ul style="list-style-type: none">➤ To equip the students about to provide an optimum environment for students to gain an understanding of the chemical bases of food component reactivity and functionality.➤ To enable the students to provide an opportunity for students to develop skills for experimenting with food systems.	<ul style="list-style-type: none">➤ Understand the concept of food safety, types of hazards and their control measures.➤ Identify and prevent potential sources of food contaminationComprehend the need of hygiene and sanitation for ensuring food safety.➤ Students will be able to provide a theoretical explanation for observed extents and rates of reactions that are common to foods.➤ Students will be able to predict how changes in overall	<ul style="list-style-type: none">➤ Power Point➤ E - Module➤ Chalk & Talk Method➤ Lecture Method➤ Discussion Method➤ Study Assignment Method,➤ Problem Solving Method➤ Seminar Method➤ Demonstration Method

<ul style="list-style-type: none"> ➤ To make the students to know about various types of hazards associated with food. To understand the concept of safe food ➤ To provide knowledge to the students about to control the potential threats to safety of food. ➤ To update the students with familiarize with the Good Hygienic Practices, Food Safety Management Systems and Food Regulations. 	<p>composition are likely to change the reactivity of individual food components.</p> <ul style="list-style-type: none"> ➤ Knowledge of Food Safety Management tools. 	
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C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I	Microbiological standards in seafood industry. Source of microorganism to fish-Sanitary measures adopted to reduce microbial load in fish. Food borne nonbacterial infections and intoxications: Aflatoxins, patulin, ochratoxin and other fungal toxins found in food, toxin producer, source, nature	20.12.2022 to 25.12.2022	12 Hrs	-	-

	of toxin, toxicity and significance in foods.				
Unit II	Public health microbiology- Food borne pathogens: Emerging food-borne pathogens. Waterandborne diseases. Bacteria of public health significance in fish/fishery products/environments. <i>Salmonella, Clostridia, Staphylococcus, E. coli, Streptococcus, Vibrio, Aeromonas, Listeria, Yersinia, Bacillus.</i>	01.01.2023 to 19.01.2023	12 Hrs	-	-
Unit III	Total plate count Coliforms- concept- indicator organism- MPN estimation-isolation and identification-faecal coliforms. Salmonella-Isolation and identification. Vibrio- Isolation and identification. Streptococcus- Isolation and identification. <i>Listeria</i> spp isolation and identification.	20.01.2023 to 28.01.2023	12 Hrs	-	-

Unit IV	<p>Quality control of Laboratories. Good Laboratory Practices (GLP), ISO/IEC17025. Types of laboratories, General requirements for a food laboratory. (Lay out, Environmental requirements, Safety requirement etc) Food borne diseases- Food infection and food intoxication. Botulism. Typhoid and Paratyphoid, <i>Clostridium perfringens</i>, Listeriosis.</p>	16.02.2023 to 27.02.2023	12 Hrs	-	-
Unit V	<p>Antimicrobial systems and food preservation: ecological concepts: Lactoperoxidase. Nisin, Lysozyme, Bacteriocins. Packaging and modified atmosphere on the microbiology and shelf life of fishery products. Norms for using antimicrobial systems in food processing and preservation. Food Safety, Risk analysis. Potential health hazards and risks associated with fish products. Predictive modeling in quality and safety assurance of fishery products.</p>	12.03.2023 to 24.03.2023	12 Hrs	-	-

D.ACTIVITIES:

Activities Name	Details
Test	Unit Test Date: 18.9.2022, 6. 10.2022, 03.11.2022
Assignment	21.9.2022, 9.10.2022, 5.11.2022
Quiz	29.9.2022,12.10.2022(Objective Type Questions)
Seminar	30.9.2022,20.10.2022,22.10.2022,14.11.2022
Tutor Ward Meeting	Monthly Once

**Signature of Principal**

A. GENERAL INFORMATION

Name of the Faculty : MS.V.SANTHIYA
 Department : B.VOC MARINE
 Programme : II B.VOC MARINE
 Programme Code : RVZLY
 Name of the Paper : FISH PRODUCTS AND BY PRODUCTS TECHNOLOGY
 Lecture Hours : 90 Hrs

B. ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
<p>On Completion of the Course, Students should be able to</p> <ul style="list-style-type: none"> ➤ Understand the basic concepts Principle of fish preservation and processing. Processing of fish by traditional methods – salting, sun drying, smoking, marinading and fermentation. ➤ Assess about consumer behaviour, Theory of salting, methods of salting –wet salting and dry salting. ➤ Understand the drying and dehydration-theory, importance of 	<p>On completion of the course students should be able to</p> <ul style="list-style-type: none"> ➤ Outline the students about Has profound and detailed scientific knowledge and understanding of the (bio)chemical processes in biological raw materials during postharvest storage and their transformation into food products. ➤ Create an understanding of important Has profound and detailed scientific knowledge and understanding of ecology, physiology, 	<ul style="list-style-type: none"> ➤ Students have to be in time for the laboratory. ➤ Students are not allowed into the lab without prepared Protocol and Observation note. ➤ Chalk & Talk Method ➤ A Student has to complete the practical and calculations at the stipulated time give to them. ➤ Students have to receive the signature in the observation note on the same day on or before entering the next practical class.

<p>water activity in relation to microbial growth .Sun drying and artificial drying- solar dryer.</p> <p>➤ 4 .Acquire knowledge about Packaging and storage of salted and dried fish. Different types of spoilage in salt cured fish. Quality standard for salted and dry fish.</p> <p>➤ Learn about the recent trends in Fish preservation by smoking- chemical composition of wood smoke and their role in preservation. Methods of smoking and equipments used for smoking.</p>	<p>detection, use and combat microorganisms in food systems.</p> <p>➤ Learn about the Has profound and detailed scientific knowledge in different fields of product technology such as vegetable products, dairy products, meat products, fish products,</p> <p>➤ Plan to gain knowledge on Colour impaired to the fish by the smoking process is due to carbonyl amino reactions of the Maillard typework.</p> <p>➤ Assess the knowledge about these are splitting and cleaning, salting and hanging.</p>	
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C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I	<ul style="list-style-type: none"> ➤ Principles of Fish Preservation: ➤ Composition of fish - Proximate composition - Seafood spoilage - Fish preservation. ➤ Fish preservation methods and principles: Chilling- Freezing - MAP (Modified Atmospheric Packaging) - Curing (drying, salting and smoking) ➤ Canning and Retort pouch packaging Marinating- Boiling- Fermentation- Irradiation - Freeze-drying - Hurdle technology. 	20.12.2022 to 25.12.2022	-	18 Hrs	-
Unit II	<ul style="list-style-type: none"> ➤ Extrusion: ➤ Extrusion- Extruder- Extrusion cooking- Extruded products- Extrusion processing 	01.01.2023 to 19.01.2023	-	18 Hrs	-

	<p>steps.</p> <ul style="list-style-type: none"> ➤ Types of extruders: Single screw extruder- Twin screw extruder. ➤ Difference between ➤ The single screw and twine screw extruder. ➤ Advantages of extrusion cooking. 				
Unit III	<ul style="list-style-type: none"> ➤ Fish protein concentrate: ➤ Fish protein concentrate- Methods used for preparation of Fish Protein Concentrate-. ➤ Types of FPC- Proximate composition of FPC- Use of FPC. ➤ Fish Protein Hydrolysate: Fish protein hydrolysates. Methods of protein hydrolysis: Acid hydrolysis- Alkali Hydrolysis- Biochemical methods. ➤ Critical parameters while preparing Fish protein hydrolysate. 	20.01.2023 to 28.01.2023	-	18 Hrs	

	<p>Proximate composition and Nutritional value. Autolysis assisted hydrolysis of fish protein hydrolysate.</p> <p>Application of fish Protein Hydrolysate.</p> <p>Advantages of preparation of protein hydrolysates.</p>				
Unit IV	<ul style="list-style-type: none"> ➤ Fish meal and fish oil: ➤ Fish meal- Use of fish meal as feed ingredient- Raw materials used in fish meal. ➤ Processing Method: Wet reduction/rendering process- Dry reduction/rendering process. Equipments used in fish meal plant- Fish meal quality. ➤ Fish oil: Production of fish oil- Wet Reduction Process- Dry reduction Process- Processing of 	16.02.2023 to 27.02.2023	-	18 Hrs	

	fish oil. Unsaturated Fatty acids.				
Unit V	<p>Fish By- products:</p> <ul style="list-style-type: none"> ➤ Isinglass- Shark leather- Fish glue- Pearl Essence- Beche-de -mer. ➤ Chitin and Chitosan: Characteristics of chitin and chitosan- Preparation of Chitin and Chitosan- Uses of Chitin and chitosan. ➤ Seaweeds: Types of seaweeds- Species of seaweeds cultured- Seaweed resources of India- Utilization of seaweeds- Agar agar- Carrageenan- Other hydrocolloids. ➤ Diversified fish products/ value addition: Breaded and Battered Products- Fish finger and Fish cutlet- Imitation products- HACCP in product 	12.03.2023 to 24.03.2023	-	18 Hrs	

	preparation- Determination of CCPs- Specification of criteria for control- Monitoring and checking system.				
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D. ACTIVITIES:

Activities Name	Details
Test	Unit Test Date: 01.02.2023 and 13.02.2023 and 26.02.2023 and 16.03.2023
Assignment	12.02.2023, 08.03.2023
Quiz	12.03.2023(Objective Type Questions)
Seminar	11.03.2023,12.03.2023,13.03.2023
Tutor Ward Meeting	Monthly once



Signature of Principal

A.GENERAL INFORMATION:

Name of the Faculty : Mrs.M.Jayasri
Department : B.Voc., Marine Food Processing and Preservation Technology
Programme : II B.Voc.,Marine
Programme Code : MVGM
Name of the Paper : PACKING AND LABELLING OF FISH AND FISHERY PRODUCTS
Lecture Hours : 60 Hrs

B.ABOUT THE COURSE:

Course Objectives	Course Outcomes	Teaching Methodology
<p>On Completion of the Course, Students should be able to</p> <p>1. To enable the students to know the Packaging the means of ensuring the safe delivery of a product to the end consumer in sound condition at the minimum overall cost.</p> <p>2. To acquire knowledge about Foodpackaging is an external means of preservation of food during storage transportation and distribution.</p> <p>3. To make the students to understand storage, effective chilling, internal and long distance transport, easy determination of quantities and display in whole sale and retail markets.</p> <p>4. To provide knowledge on Packaging</p>	<p>On the completion of the Course, Learners will be able to</p> <p>➤ Acquire knowledge about the Identifies packing materials like Glass containers, Metal cans, Types of paper packages, Cellophane, LDPE, HDPE, Aluminium foil and Retort pouch</p> <p>➤ Gain knowledge on Practises packing of Frozen Material like IQF products, Block frozen Products.</p> <p>➤ Learn to prepare Practises packing methods like,</p>	<p>❖ Power Point</p> <p>❖ E – Module</p> <p>❖ Chalk & Talk Method</p> <p>❖ Lecture Method</p> <p>❖ Discussion Method</p> <p>❖ Study and Assignment Method,</p> <p>❖ Problem Solving Method</p> <p>❖ Seminar Method</p> <p>❖ Demonstration Method</p>

<p>materials protect the product from contamination or loss. The printing on the exterior of the package helps to identify the brand and attract the buyer's attention.</p> <p>5. To inculcate the students about the familiarize with the Good Hygienic Practices, Fish Safety Management Systems and Fish Regulations.</p>	<p>packing on stand pouch, packing in polythene covers.</p> <ul style="list-style-type: none"> ➤ Familiarise the concepts of Categorises the packing of various value added fishery products and by products. ➤ Understand the knowledge about Classifies the packaging of canned fish and fish pickle 	
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C. PLAN OF THE WORK:

Unit / Modules	Topic to be covered	Proposed date	Lecture Hrs	Practical Hrs	Remarks
Unit I (12 hrs)	<p>Food packaging</p> <ul style="list-style-type: none"> ❖ Food packing, its purposes and procedures; technological aspects of packaging fishery products; ❖ Packing of fresh and frozen fish for consumers, ❖ Packaging for transport shipping and Institutional supplies ❖ .packaging standards for domestic and international trade. 	20.12.2022 & 02.01.2023	12 Hrs	-	-

Unit II (12hrs)	<p>Packaging materials</p> <ul style="list-style-type: none"> ❖ Packaging materials, ❖ Basic films and laminates , ❖ Their manufacture and identification, ❖ Resistance of packaging materials ❖ Development of protective packaging for fishery products. 	05.01.2023 & 18.01.2023	12 Hrs	-	-
Unit III (12hrs)	<ul style="list-style-type: none"> ❖ Methods of testing for packaging materials ❖ Methods of testing for packaging materials for their manufacture physical properties ❖ Containers and their testing and evaluation ❖ Package Design; ❖ resistance of package , ❖ Resistance of packages to hazards in handling transport and storage. 	20.01.2023 & 06.02.2023	12 Hrs	-	-
Unit IV (12 hrs)	<p>Modified Atmosphere Packaging:</p> <ul style="list-style-type: none"> ❖ MAP, ❖ controlled packaging ❖ Aseptic packaging , ❖ Flexible packaging retort pouch processing at fish and fishery products and techniques 	24.02.2023 & 09.03.2023	12 Hrs	-	-

	❖ Combination and synergistic effects of fishery products.				
Unit V (12 hrs)	Labelling of packaging materials : ❖ Labelling and printing at packaging materials of seafood industry ❖ Sea food industry labelling requirements-national and international, legislation on labelling for product traceability. , ❖ Types of labelling for organic foods and sea foods ❖ Irradiated foods, label design and specification –size, colour.	13.03.2023 & 01.04.2023	12 Hrs	-	-

D. ACTIVITIES:

Activities Name	Details
Test	Unit Test :10.01 2023
Assignment	Monthly-21.01.2023
Quiz	Mid semester-10.02.2023
	Model- 10.04.2023
Seminar	20.03.2023 24.03.2023
Tutor Ward Meeting	14.03.2023



Signature of Principal