

**WAVOO WAJEEHA WOMEN'S COLLEGE OF ARTS AND SCIENCE,
KAYALPATNAM**

DEPARTMENT OF TAMIL

COURSE OUTCOME

B.A. Tamil

Programme Outcomes

On the completion of the programme, the students are

- ❖ Gaining knowledge on the usage of basic language skills such as Listening, Speaking, Reading and Writing (LSRW) without error.
- ❖ Knowing the background history of Tamil literature.
- ❖ Understanding the civilization, culture and politics of Tamils with evidence.
- ❖ Learning the skill of creativity
- ❖ Gaining knowledge to become a researcher through reviews and criticisms.

Programmer Specific Outcomes

The programmer will enable the students

- ❖ To develop writing and communicative skills through Nannool literary book.
- ❖ To write poetry/ poems with the support of Yappilakanam and Thandialangaram lessons.
- ❖ To gain knowledge on Tamil culture and change in politics through the lessons on the history of Tamil culture.
- ❖ To understand the different periods of politics and social life of Tamils through Chitrillakkiyam lessons.
- ❖ To gain knowledge about basic needs of life and code of conduct for the people through Araillakiam lessons.
- ❖ To make aware of the life style and culture of the folk through folk literature lessons.
- ❖ To learn about equality, fraternity, human societies and culture through Penniyam and Dalitiam lessons.
- ❖ To make aware of secularism among them through religious oriented literature lessons.
- ❖ To know the history of temple architecture through kavin kalai (art of sculpture) and kovilkalai (art of temple).

Course Outcomes:

The courses will enable the students

- ❖ To cope with the modern trends in creating new literary works
- ❖ To know the culture, tradition and customs through ancient Tamil literature.
- ❖ To understand the origin of language, types and its history.
- ❖ To learn good virtues like discipline, equality and fraternity.
- ❖ To understand the history and evolution of Tamil literature.
- ❖ To know the knowledge about inter disciplinary learning in Tamil language

**WAVOO WAJEEHA WOMEN'S COLLEGE OF ARTS AND SCIENCE,
KAYALPATNAM**

DEPARTMENT OF TAMIL

COURSE OUTCOME

M.A. Tamil

Programmer Outcomes

- The students know the background history of Tamil literature.
- They are learning the skill of creativity.
- They are also gaining knowledge to become a researcher through reviews and criticisms.

Programmer Specific Outcomes

At the end of the programmer, students will enable

- To develop writing and commutative skills through Tholkappiyam literary book.
- To know the life style of Tamils during the sangam period through Agam and Puram literatures.
- To understand the different periods of politics and social life of Tamils through Chitrillakkiyam lessons.
- To gain knowledge about basic needs of life and code of conduct for the people through Araillakiam lessons.
- To make aware of the life style and culture of the folk through folk literature lessons.
- To understand the role of students in media through media literature.
- To learn about equality, fraternity, human societies and culture through Anthropology lessons.
- To make aware of secularism among them through religious oriented literature lessons.
- To get trained in creative writings such as poems, essays and research articles through modern literature.

Course Outcomes

The courses help the students

- To cope with the modern trends in creating new literary works.
- To know the culture, tradition and customs through ancient Tamil literature.
- To learn good virtues like discipline, equality and fraternity.
- To understand the history and evolution of Tamil literature.
- To know the knowledge about inter disciplinary learning in Tamil languages

**WAVOO WAJEEHA WOMEN'S COLLEGE OF ARTS AND SCIENCE,
KAYALPATNAM**

DEPARTMENT OF ENGLISH

COURSE OUTCOME

Under Graduate Programme

B A ENGLISH

Programme Outcomes:

PO1: Disciplinary Knowledge: Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of an under graduate programme of study.

PO2: Critical Thinking: Capability to apply analytic thought to a body of knowledge; analyse and evaluate evidence, arguments, claims, beliefs on the basis of empirical evidence; identify relevant assumption so simplifications; formulate coherent arguments; critical ly evaluate practices, policies and theories by followings scientific approach to knowledge development.

PO3: Problem Solving: Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge; and apply one's learning to real life situations.

PO4: Analytical Reasoning: Ability to evaluate the reliability and relevance of evidence; identify logical flaws and holes in the arguments of others; analyze and synthesize data from a variety of sources; draw valid conclusions and support them with evidence and examples and addressing opposing viewpoints.

PO5: Scientific Reasoning: Ability to analyse, interpret and draw conclusions from quantitative Qualitative data; and critically evaluate ideas, evidence, and experiences from an open minded and reasoned perspective.

PO6: Self-directed & Lifelong Learning: Ability to work independently, identify and manage a project. Ability to acquire knowledge and skills, including "learning how to learn", through self-placed and self-directed learning aimed at personal Development, meeting economic, social and cultural objectives.

PO7: Reflective Thing: Critical sensibility to lived experiences, with self-awareness and reflexivity of both self and society

PO8: Reading & Projects: Document their reading and interpretive practices in assignments, translation works and independent projects.

PO 10: Social Skills & Empathetic Approach: Reorganize a professional and reflective approach to leadership, responsibility, personal integrity, empathy, care and respect for others, accountability and self-regulation.

PSO1: Acquire good knowledge and understanding, to solve specific theoretical & applied problems in different area of English Language and Literature.

PSO3: To prepare the students who will demonstrate respectful engagement with other's ideas, behaviors, and beliefs apply diverse frames of references to decisions and actions. To create effective entrepreneurs by enhancing their critical thinking, problem solving, decision making and leadership skill that will facilitate startups and high potential organizations.

PSO5: Equipping their employ ability skills to excel in professions like teaching and exposing them to various activities to empower them through communication skills.

Mapping of Course Learning Outcomes (CLOs) with Programme Outcomes (POs) and Programme Specific Outcomes() can be carried out accordingly, assigning the appropriate level in the grids:

[illegible]

Course Outcomes		
Course Outcomes	On completion of this course ,students will;	
CO1	Appreciate and analyse and the basic elements of poetry, including meter, rhyme, and theme.	PO1
CO2	Gain knowledge of the elements of fiction including narrative structure, character analysis and comparison between different but related texts.	PO1,PO2
CO3	Explore the dramatic story telling including play structure, monologues ,dialogue ,and scene setting.	PO4,PO6
CO4	Use library resources to research and develop arguments about literary works.	PO4,PO5,PO6
CO5	Work skill fully with in a team ,respect co-workers ,delegate work and contribute to a group project.	PO3,PO8

Mapping with Programme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	3	3	3	3	2	3	2
CO2	2	3	3	3	2	3	3	2	2	2
CO3	3	3	3	2	3	3	3	2	3	2
CO4	3	3	3	3	3	3	3	2	2	2
CO5	3	2	3	3	3	3	3	2	2	3

3 – Strong, 2 – Medium , 1 –Low

Mapping with Programme Specific Outcomes:

O/PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage of Course Contribution to PSOs	3.0	3.0	3.0	3.0	3.0

Course Outcomes	On completion of this course ,students will;	
CO1	Appreciate the historical trajectory of various genres of Indian Writing in English from colonial times to till the present	PO1
CO2	Analyze Indian literary texts written in English in terms of colonialism, post colonialism ,regionalism, and nationalism	PO1,PO2
CO3	Understand the role of English as a medium for Political a wakening and the use of English in India for creative writing	PO4,PO6
CO4	Analyze how the sociological, historical, cultural and political context impacted the texts selected for study	PO4,PO5,PO6
CO5	Evaluate critically the contributions of major Indian English poets and dramatists	PO3,PO8

Mapping with Programme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	3	3	3	3	2	3	2
CO2	2	3	3	3	2	3	3	2	2	2
CO3	3	3	3	2	3	3	3	2	3	2
CO4	3	3	3	3	3	3	3	2	2	2
CO5	3	2	3	3	3	3	3	2	2	3

3–Strong, 2–Medium, 1–Low

Mapping with Programme Specific Outcomes:

CO/PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	2	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	14	15
Weighted percentage of Course Contribution to PSOs	3.0	3.0	3.0	2.8	3.0

Course Outcomes		
Course Outcomes	On completion of this course, students will;	
CO1	Gain extensive insight into the history of English literature, while laying special emphasis on various literary movements, genres and writers that are held to be there preventatives of their times	PO1
CO2	Evaluate the way socio-cultural and historical phenomena influenced literary production of a particular period	PO1,PO2
CO3	Familiarize themselves with the socio-cultural ambience and the discursive frame works of various ages	PO4,PO6
CO4	Develop nuanced appreciation of the literacy's of those times.	PO4,PO5,P O6
CO5	Gain in-depth understanding on the growth of the English language under the influence of various other languages including Latin and French, besides being mentored in the structural nitty-gritties of the language.	PO3,PO8

Mapping with Programme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	3	3	3	3	2	3	2
CO2	2	3	3	3	2	3	3	2	2	2
CO3	3	3	3	2	3	3	3	2	3	2
CO4	3	3	3	3	3	3	3	2	2	2
CO5	3	2	3	3	3	3	3	2	2	3

3–Strong, 2–Medium, 1-Low

Mapping with Programme Specific Outcomes:

CO/PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	2	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weight age	15	15	15	14	15
Weighted percentage of Course Contribution to PSOs	3.0	3.0	3.0	2.8	3.0

	Course Outcomes	
Course Outcomes	On completion of this course, students will;	
CO1	Have a diachronic understanding of the evolution of philosophy from the time of Greek masters to 20 th century.	PO1
CO2	Have an awareness of the major schools of thought in western philosophy.	PO1,PO2
CO3	Have a healthy epistemological foundation at undergraduate level that ensures scholarship At advanced levels of learning.	PO4,PO6
CO4	Talk about some of the key figures in Philosophy.	PO4,PO5,PO6
CO5	Analyze and appreciate texts critically, from different philosophical perspectives.	PO3,PO8

Mapping with Programme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	3	3	3	3	2	3	2
CO2	2	3	3	3	2	3	3	2	2	2
CO3	3	3	3	2	3	3	3	2	3	2
CO4	3	3	3	3	3	3	3	2	2	2
CO5	3	2	3	3	3	3	3	2	2	3

3–Strong, 2–Medium, 1-L

Mapping with Programme Specific Outcomes:

CO/PO	PSO1	PSO2	PSO3	PSO4	PSO5
C01	3	3	3	3	3
C02	3	3	3	3	3
C03	3	3	3	2	3
C04	3	3	3	3	3
C05	3	3	3	3	3
Weightage	15	15	15	14	15
Weighted percentage of Course Contribution to PSO	3.0	3.0	3.0	2.8	3.0

Mapping with Programme Specific Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
C01	3	3	3	3	3	3	3	2	3	2
C02	2	3	3	3	2	3	3	2	2	2
C03	3	3	3	2	3	3	3	2	3	2
C04	3	3	3	3	3	3	3	2	2	2
C05	3	2	3	3	3	3	3	2	2	3

Course Outcomes

Course Outcome	On completion of this course, students will;	
CO1	Recall the fundamentals of English Grammar	PO1
CO2	Understand the formal and informal usages to obtain proficiency	PO1,PO2
CO3	Analyze Sentence structure, synthesis and usages	PO4,PO6
CO4	Recognize and use of Auxiliary and module verbs in writing and speaking	PO4,PO5,PO6
CO5	Evaluate the Patterns of expression, basic structure and sentence pattern	PO3,PO8

CO/PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage of Course Contribution to PSO	3.0	3.0	3.0	3.0	3.0

FIRST YEAR-SEMESTER		
Course Outcomes		
Course Outcomes	On completion of this course, students will;	
CO1	Demonstrate knowledge of the major social, political, philosophical, and scientific events forming the back drop for the development of early British Literature.	PO1
CO2	Synthesize, integrate, and connect information by writing essays using techniques of criticism and evaluation.	PO1,PO2
CO3	Read and discuss the themes, approaches, styles and contributions to the development of British literature from the Medieval Period to the end of the eighteenth-century	PO4,PO6
CO4	Distinguish between the characteristics of British Literary movements in discussing and writing about British literature.	PO4,PO5,PO6
CO5	Write about literature using standard literary terminology and other literary conventions.	PO3,PO8

Mapping with Programme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	3	3	3	3	2	3	2
CO2	2	3	3	3	2	3	3	2	2	2
CO3	3	3	3	2	3	3	3	2	3	2
CO4	3	3	3	3	3	3	3	2	2	2
CO5	3	2	3	3	3	3	3	2	2	3

3 – Strong, 2 – Medium, 1-Low

Mapping with Programme Specific Outcomes:

CO/PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	2	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	14	15
Weighted percentage of Course Contribution to PSO	3.0	3.0	3.0	2.8	3.0

Course Outcomes	On completion of this course, students will;	
CO1	Analyze and discuss works of American literature from a range of genres (e.g. poetry, nonfiction, slave narrative, captivity narrative, literary fiction, genre fiction, sermon, public proclamations, letters, etc.).	PO1
CO2	Identify relationships between moments in American history ,colonialism, and culture and their representation in works of American literature.	PO1,PO2

Mapping with Programme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	3	3	3	3	2	3	2
CO2	2	3	3	3	2	3	3	2	2	2
CO3	3	3	3	2	3	3	3	2	3	2
CO4	3	3	3	3	3	3	3	2	2	2
CO5	3	2	3	3	3	3	3	2	2	3

3–Strong,2 –Medium,1-Low

Mapping with Programme Specific Outcomes:

CO/PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	2	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	14	15
Weighted percentage of Course Contribution to PSOs	3.0	3.0	3.0	2.8	3.0

FIRSTYEAR- SEMESTER IIME2– Course Outcomes		
Course Outcomes	On completion of this course, students will;	
CO1	Gain extensive insight into the history of English literature, while laying special emphasis on various Literary movements, genres and writers that are held to be there preventative's of their times.	PO1
CO2	Evaluate the way socio-cultural And historical phenomena influence the Literary production of a particular period	PO1,PO2
CO3	Familiarize themselves with the socio-cultural ambience and the discursive frame works of various ages	PO4,PO6
CO4	Develop a nuanced appreciation of the literary stalwarts of those times.	PO4,PO5,PO6
CO5	Gain in depth understanding on the growth of the English language under the influence of various other languages including Latin and French, besides being mentored in the structural nitty-gritties of the language.	PO3,PO8

Mapping with Programme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	3	3	3	3	2	3	2
CO2	2	3	3	3	2	3	3	2	2	2
CO3	3	3	3	2	3	3	3	2	3	2
CO4	3	3	3	3	3	3	3	2	2	2
CO5	3	2	3	3	3	3	3	2	2	3

3–Strong,2–Medium,1–Low

Mapping with Programme Specific Outcomes:

CO/PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage Of Course Contribution to PSOs	3.0	3.0	3.0	3.0	3.0

Course Outcomes		
Course Outcomes	On completion of this course, students will;	
CO1	Have a diachronic understanding of the evolution of philosophy from the time of Greek masters to 20th century.	PO1
CO2	Have an awareness of the major schools of thought in western philosophy.	PO1,PO2
CO3	Have a healthy epistemological foundation at under graduate level that ensures scholarship at advanced levels of learning	PO4,PO6
CO4	Talk about some of the key figures in Philosophy.	PO4, PO5,PO6
CO5	Analyze and appreciate texts critically, from different philosophical perspectives.	PO3,PO8

Mapping with Programme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	3	3	3	3	2	3	2
CO2	2	3	3	3	2	3	3	2	2	2
CO3	3	3	3	2	3	3	3	2	3	2
CO4	3	3	3	3	3	3	3	2	2	2
CO5	3	2	3	3	3	3	3	2	2	3

3–Strong, 2–Medium, 1–Low

Mapping with Programme Specific Outcomes:

CO/PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage of Course Contribution to PSOs	3.0	3.0	3.0	3.0	3.0

Course Outcomes		
Course Outcomes	On completion of this course, students will;	
CO1	Identify the basic principles of communication	PO 1
CO2	Analyze the various types of communication	PO1,PO2
CO3	Make use of the essential Principles of communication	PO4,PO6
CO4	Identify the prominent methods and models Of Communication.	PO4,PO5,PO6
CO5	Learn about the four skills of language and get familiarized with them.	PO3,PO8

Mapping with Programme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	3	3	3	3	2	3	2
CO2	2	3	3	3	2	3	3	2	2	2
CO3	3	3	3	2	3	3	3	2	3	2
CO4	3	3	3	3	3	3	3	2	2	2
CO5	3	2	3	3	3	3	3	2	2	3

3–Strong, 2–Medium, 1–Low

Mapping with Programme Specific Outcomes:

CO/PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	2	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	14	15
Weighted percentage of Course Contribution to PSO	3.0	3.0	3.0	2.8	3.0

**WAVOO WAJEEHA WOMEN'S COLLEGE OF ARTS AND SCIENCE,
KAYALPATNAM**

Department of English

COURSE OUTCOME

M.A. English Literature

Course Outcomes	
Course	Outcomes
British Literature	To acquire a sound comprehension of literary ,societal ,cultural ,biographical and historical background of the greatest writings in British Literature.
American Literature	To get a better comprehension of literary ,societal ,cultural ,biographical and historical background of the greatest writings in American Literature.
New Literatures in English	To obtain adequate information on colonization and post-war consequences through the literary, societal, cultural, biographical and historical background of the greatest writings in Commonwealth literature
The English Language	To trace out the history of English Language and varied components of linguistic structures of the language.
Grammar for Communication	To gain knowledge on fundamental principles of English grammar including parts of speech, sentence types, sentence analysis, simple/compound/complex sentences, subject-verb agreement ,pronoun usage ,punctuation, capitalization etc.
Indian Writing in English	To learn the literary, societal ,cultural ,biographical and historical background of the greatest English writings penned by Indian Authors.
Indian Literature In English Translation	To know the basic principles in translation ,issues faced by translators and the popularity gained through target language.
Project Work	The aim of the Project work is to acquire practical knowledge on the Implementation of perceptions studied through the programme.

**WAVOO WAJEEHA WOMEN'S COLLEGE OF ARTS AND SCIENCE,
KAYALPATNAM**

DEPARTMENT OF ECONOMICS

COURSE OUTCOME

B.A.ECONOMICS

CHOICE BASED CREDIT SYSTEM AND LEARNING OUTCOMES-BASED CURRICULUM FRAME WORK BASED B.A.ECONOMICS SYLLABUS	
Programme Outcomes:	<p>PO1:Knowledge of Economics: Ability to understand Economic Theories And functioning of Economic Models. To develop an adequate competency In the Economic Theory and Methods.</p> <p>PO2:Analytical Reasoning and Critical Thinking: Critically Analyze and Assess the way in which economists examine there a world to understand the Current events and evaluate specific proposals.</p> <p>PO3:Logical Reasoning and Quantitative Ability: Ability to understand How to collect and analyse data and use empirical evidence to evaluate the Validity of hypothesis, using Quantitative Methodology and conduct data Analysis to interpret results.</p> <p>PO4:Communication and Research Skills: Developing a sense of capability for relevant/appropriate inquiry and asking questions, synthesizing And articulating and reporting results and to efficiently communicate Thoughts and ideas in a clear and concise manner.</p> <p>PO5: Gender, Environment and Sustainability: Comprehend the Environmental issues and Sustainable Development and strive to achieving Economic and social equity for women and be Gender Sensitive.</p> <p>PO6: Employ ability and Leadership Skills: Become empowered Individuals to be employed in various positions in industry,academia and Research and have the potential to become Entrepreneurs and take leadership Roles in their chosen occupations and communities.</p> <p>PO7:Social Interaction: Acquire the ability to engage in relevant Conversations and have the ability to understand the view so society that Would help initiate policy making.</p> <p>PO8:Digital Literacy and Life long Learning: Capability to use ICT tools In a variety of learning situation and use appropriate software for analysis of Data – Ability to acquire Knowledge situations and skills for life through self Directed learning and adapt to different learning environments</p>

Programme Specific Outcomes:	<p>PSO1: To enable students to apply basic micro economic, macro-economic and monetary concepts and theories in real life and decision making.</p> <p>PSO2: To sensitize students to various economic issues related to Development, Growth, International Economics, Sustainable Development and Environment.</p> <p>PSO3: To familiarize students to the concepts and theories related to Finance, Investments and Modern Marketing.</p> <p>PSO 4: Evaluate various social and economic problems in the society and develop answer to the problems as global citizens.</p> <p>PSO5: Enhances skills of analytical and critical thinking to analyze Effectiveness of economic policies.</p>
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	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
PSO1	Y	Y	Y	Y	Y	Y	Y	Y
PSO2	Y	Y	Y	Y	Y	Y	Y	Y
PSO3	Y	Y	Y	Y	Y	Y	Y	Y
PSO4	Y	Y	Y	Y	Y	Y	Y	Y
PSO5	Y	Y	Y	Y	Y	Y	Y	Y

3 –Strong,2-Medium,1- Low

Course Outcomes		Programme Outcomes
CO	On completion no this course ,students will	
1.	Understand the meaning of basic concepts and the need for the study of Microeconomics.	PO1,PO2
2.	Evaluate the Types of Utility and Consumer Behaviour.	PO2,PO3
3.	Acquire knowledge on various market equilibrium ,Demand And Supply Functions	PO1,PO2
4.	To understand the meaning of Production Functions	PO1
5.	To understand the theory of firms ,Cost and Revenue	PO1

Mapping with Programme Outcomes:

S-		PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
	CO1	3	3	3	3	3	3	3	3
	CO2	3	3	3	3	3	3	3	3
	CO3	3	3	3	3	3	3	3	3
	CO4	3	3	3	3	2	3	2	3
	CO5	2	2	2	2	2	3	2	3
	Weightage	14	14	14	14	13	15	13	15
	Weighted percentage of course Contribution to POS	2.8	2.8	2.8	2.8	2.6	3.00	2.6	3.00

Strong-3M-Medium-2 L-Low-1

Level of Correlation between PSO's and CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	2	2
CO2	3	3	2	2	2
CO3	3	3	3	3	3
CO4	3	3	3	2	2
CO5	3	3	3	2	2
Weightage	15	15	14	11	11
Weighted percentage of Course Contribution to PSOs	3	3	2.8	2.2	2.2

Course Outcomes		Programme Outcomes
CO	On completion of this course ,students will	
1	Understand the over view of statistics and basic knowledge of Statistical tools.	PO1, PO3,PO8
2	Differentiate Types of Data and its Classification	PO1,PO2, PO3,PO8
3	Explain the concept of Averages and its application	PO1, PO2,PO3
4	Know the concept of Dispersion and its application	PO1, PO2,PO3
5	Calculate Correlation and estimate values using Regression	PO3,PO7,PO8

Mapping with Programme Outcomes:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO1	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	2	3	2	3
CO5	3	2	2	2	3	3	3	3
Weightage	15	14	14	14	14	15	14	15
Weighted percentage of course contribution To POS	3.00	2.8	2.8	2.8	2.8	3.00	2.8	3.00

S-Strong-3

M-Medium-2L-Low-1

Level of Correlation between PSO's and CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage of Course Contribution to PSOs	3	3	3	3	3

Strong-3 M-Medium-2L-Low

Course Outcomes		Programme Outcomes
CO	On completion of this course ,students will	
1	Understand the foundations and importance of Management.	PO1
2	Demonstrate an understanding of Planning	PO2,PO3
3	Analyze the organization a levels and Process of selection	PO1,PO2,PO3
4	Discuss the relevance of Organizational Culture	PO1,PO2,
5	Examine the importance of quality control	PO4

Mapping with Programme Outcomes:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO1	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	2	3	3	3
CO5	3	2	3	2	3	2	3	3
Weightage	15	14	15	14	14	14	15	15
Weighted percentage of Course contribution to POS	3.0	2.8	3.0	2.8	2.8	2.8	3.0	3.00

S-Strong-3 M-Medium-2 L-Low-1

Level of Correlation between PSO's and CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	2	2
CO2	3	3	3	2	3
CO3	3	3	3	2	3
CO4	3	3	2	2	2
CO5	3	3	3	3	3
Weightage	15	15	14	11	13
Weighted percentage of Course Contribution to PSOs	3	3	2.8	2.2	2.6

Strong-3 M-Medium-2L-Low-1

Course Outcomes		Programme Outcomes
CO	On completion of this course ,students will	
1	Understand the contributions of sociologists in the Field of sociology	PO1,PO2
2	Understand the basic aspects of Sociology	PO1,PO2
3	Examine the impact of individuals ,groups and society	PO1,PO5,PO7
4	Understand the dimension so social stratification	PO2,PO7
5	Analyze and design Policy for social change	PO2,PO3,PO7

Mapping with Programme Outcomes:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO1	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	2	3	2	3
CO5	2	3	3	2	3	2	3	3
Weightage	14	14	14	14	14	15	14	15
Weighted percentage of course contribution to POS	2.8	3.00	3.00	2.8	2.8	2.8	2.8	3.00

S-Strong-3M-Medium-2L-Low-1

Level of Correlation between PSO's and CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	2
CO2	3	3	3	3	2
CO3	2	3	3	3	2
CO4	3	3	2	3	3
CO5	3	3	3	3	2
Weightage	15	15	14	15	11
Weighted percentage of Course Contribution to PSOs	3	3	2.8	3	2.2

Strong-3 M-Medium-2L-Low-1

Course Outcomes		Programme Outcomes
CO	On completion of this course ,students will	
1	Describe the various theories of Population Growth	PO1,PO7
2	Understand Demographic Indicators	PO2,PO3
3	Assess the causes and impact of Migration on rural-urban Population distribution	PO2,PO7
4	Analyse the major demographic trends and their determinants	PO1,PO2
5	Evaluate Population Policy of India and analyse recent trends.	PO1,PO2,PO3

Mapping with Programme Outcomes:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO1	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	2	3	2	3
CO5	3	3	3	2	3	2	3	3
Weightage	15	14	15	14	14	15	14	15
Weighted percentage of course contribution to POS	3.00	3.00	2.8	2.8	2.8	2.8	2.8	3.00

S-Strong-3M-Medium-2L-Low-1

Level of Correlation between PSO's and CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	2	2
CO2	3	3	3	2	2
CO3	3	3	3	3	3
CO4	3	2	2	3	3
CO5	3	3	3	3	3
Weightage	15	14	14	13	13
Weighted percentage of Course Contribution to PSOs	3	2.8	2.8	2.6	2.6

Strong-3 M-Medium-2L-Low-1

Course Outcomes		Programme outcomes
CO	On completion no this course ,students will	
1.	Understand the basics of communication and its Process, Elements, and its importance.	PO1,PO2
2.	Acquire communication skills.	PO1,PO4
3.	Apply the art of writing Business Letters	PO2,PO6
4.	Use appropriate technology for business presentations and digital Communication and write E-mails in a structured pattern.	PO5,PO6, PO8
5.	Employ the art of report preparation	PO4,PO6,PO7

Mapping with Programme Outcomes:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO1	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	2	3	2	3
CO5	3	3	3	2	3	2	3	3
Weightage	15	14	15	14	14	15	14	15
Weighted percentage of course contribution to POS	3.00	3.00	2.8	2.8	2.8	2.8	2.8	3.00

S-Strong-3 M-Medium-2L-Low-1

Level of Correlation between PSO's and CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3	2	3	3
CO2	2	2	3	3	3
CO3	3	2	2	3	3
CO4	2	2	3	2	2
CO5	2	2	3	3	3
Weightage	11	11	13	14	14
Weighted percentage of Course Contribution to PSOs	2.2	2.2	2.6	2.8	2.8

Strong-3 M-Medium-2L-Low-1

Course Outcomes		Programme Outcomes
CO	On completion of this course ,students will	
1	Understand the equilibrium conditions in Perfect Competition.	PO1,PO2
2	Analyze the equilibrium conditions under Monopoly Market Structure.	PO1,PO2
3	Describe the Market Equilibrium under Monopolistic and Oligopoly Market.	PO1,PO2
4	Know the importance of theories of Distribution.	PO1,PO2
5	Evaluate the aspects of Welfare Economics and General Equilibrium.	PO2,PO3,PO7

Mapping with Programme Outcomes:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO1	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	2	3	2	3
CO5	2	3	2	3	3	2	3	3
Weightage	14	15	14	15	14	14	14	15
Weighted percentage of course contribution To POS	2.8	3.00	2.8	3.00	2.8	2.8	2.8	3.00

S-Strong-3 M-Medium-2 L-Low

Level of Correlation between PSO's and CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	2
CO2	3	3	3	2	2
CO3	3	3	3	2	3
CO4	3	3	3	2	2
CO5	3	3	3	3	3
Weightage	15	15	15	12	12
Weighted percentage of Course Contribution to PSOs	3	3	3	2.4	2.4

Strong-3 M-Medium-2L-Low-1

Course Outcomes		Programme Outcomes
CO	On completion of this course ,students will	
1	Gain Knowledge on the Index Numbers	PO1,PO2,PO3
2	Analyze the importance of Time Series Data and Its measurement	PO1,PO2,PO3
3	Understand the concept of Probability	PO2
4	Identify the various Sampling Methods	PO1,PO2
5	Acquire Knowledge on Hypothesis Testing	PO2,PO3,PO7,PO8

Mapping with Programme Outcomes:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO1	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	2	3	2	3
CO5	3	2	2	2	3	2	3	3
Weightage	15	14	14	14	14	14	14	15
Weighted percentage of course contribution to POS	3.00	2.8	2.8	2.8	2.8	2.8	2.8	3.00

S-Strong-3M-Medium-2L-Low-1

Level of Correlation between PSO's and CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage of Course Contribution to PSOs	3	3	3	3	3

Strong-3 M-Medium-2 L-Low-1

Course Outcomes		Programme Outcomes
CO	On completion of this course ,students will	
1	Acquire knowledge on the subject matter of History of Economic Thought.	PO1
2	Understand the contribution so the Classical Ideas of Economics.	PO1,PO2
3	Describe Neo Classical and Institutional Economic Ideas	PO1,PO2
4	Examine the Keynesian School and Modern Economic Ideas	PO1,PO2
5	Understand the contribution of Nobel Laureates and Indian Economic Ideas	PO1,PO2,PO8

Mapping with Programme Outcomes:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO1	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	2	3	3	3
CO5	2	2	2	2	3	2	3	3
Weightage	14	14	14	14	14	14	15	15
Weighted percentage of course contribution to POS	2.8	2.8	2.8	2.8	2.8	2.8	3.00	3.00

S-Strong-3 M-Medium-2L-Low-1

Level of Correlation between PSO's and CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	2	2
CO2	3	3	3	2	2
CO3	3	3	3	3	3
CO4	3	3	2	2	2
CO5	3	3	3	3	3
Weightage	15	15	14	12	12
Weighted percentage of Course Contribution to PSOs	3	3	2.8	2.6	2.6

Strong-3 M-Medium-2L-Low-1

Course Outcomes		Programme Outcomes
CO		
1	Understand the pros & cons of E-commerce.	PO1,PO2
2	Analyze the various models of E-commerce.	PO1,PO2
3	Understand the online business transaction and their impact on Related service providers.	PO2,PO3
4	Understand the e-marketing mix and be familiar with consumer Protection.	PO3,PO4
5	Know the mechanism of E-payment and its operations.	PO2,PO3, PO8

Mapping with Programme Outcomes:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO1	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	2	3	3	3
CO5	2	2	3	3	3	2	3	3
Weightage	14	14	15	15	14	14	15	15
Weighted percentage of course contribution to POS	2.8	2.8	3.0	3.0	2.8	2.8	3.0	3.00

S-Strong-3M-Medium-2L-Low-1

Level of Correlation between PSO's and CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	2	2
CO2	3	3	3	2	2
CO3	3	2	2	3	3
CO4	3	2	2	3	3
CO5	3	2	2	3	3
Weightage	15	12	12	14	14
Weighted percentage of Course Contribution to PSOs	3	2.6	2.6	2.8	2.8

Strong-3 M-Medium-2L-Low-1

Course Outcomes		Programme Outcomes
CO	On completion of this course ,students will	
1	Describe the types and importance of savings and investments.	PO1
2	Explain the available investment a venues	PO2
3	Understand the operation so different types of investment Markets.	PO1,PO2
4	Evaluate the economic fundamentals and information.	PO1,PO3
5	Construct objective enabling investment plans ,strategy ,evaluate And restructure if required.	PO2,PO3,PO4

Mapping with Programme Outcomes:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO1	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	2	3	3	3
CO5	2	2	3	3	3	2	3	3
Weightage	14	14	15	15	14	14	15	15
Weighted percentage of course contribution to POS	2.8	2.8	3.0	3.0	2.8	2.8	3.0	3.00

S-Strong-3 M-Medium-2L-Low

Level of Correlation between PSO's and CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	2
CO2	3	3	3	2	2
CO3	2	2	3	3	3
CO4	3	3	2	2	2
CO5	2	2	3	3	3
Weightage	13	13	14	13	12
Weighted percentage of Course Contribution to PSOs	2.6	2.6	2.8	2.6	2.4

Strong-3 M-Medium-2L-Low-1

Course Outcomes		Programme Outcomes
CO	On completion of this course ,students will	
1	Understand basic components of Computer and its functions.	PO1,PO3,PO8
2	Gain Knowledge of MSOffice.	PO3,PO8
3	Outline data processing technique so MS Excel.	PO2,PO3,PO8
4	Understand basic Operation in MS Excel.	PO1,PO2,PO8
5	Apply MS Excel in Statistics and Economics.	PO2,PO3,PO8

Mapping with Programme Outcomes:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO1	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	2	3	3	3
CO5	3	2	2	3	3	3	3	3
Weightage	15	14	14	15	14	15	15	15
Weighted percentage of course contribution to POS	3.0	2.8	2.8	3.0	2.8	3.0	3.0	3.00

S-Strong-3 M-Medium-2L-Low-1

Level of Correlation between PSO's and CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	2	3	3
CO2	2	2	2	3	3
CO3	2	2	2	3	3
CO4	2	2	2	3	3
CO5	3	3	3	3	3
Weightage	11	11	11	15	15
Weighted percentage of Course Contribution to PSOs	2.2	2.2	2.2	3	3

Strong-3 M-Medium-2 L-Low-1

**WAVOO WAJEEHA WOMEN'S COLLEGE OF ARTS AND SCIENCE,
KAYALPATNAM**

DEPARTMENT OF BUSINESS ADMINISTRATION

COURSE OUTCOME

BBA

Programme Outcomes:	<p>PO1: Disciplinary knowledge: Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate Programme of study</p> <p>PO2: Communication Skills: Ability to express thoughts and ideas effectively in writing and orally; Communicate with others using appropriate media; confidently share one's views and express herself/himself; demonstrate the ability to listen carefully, read and write analytically, and present complex information in a clear and concise manner to different groups.</p> <p>PO3: Critical thinking: Capability to apply analytic thought to a body of knowledge; analyse and evaluate evidence, arguments, claims, beliefs on the basis of empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach to knowledge development.</p> <p>PO4: Problem solving: Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge; and apply one's learning to real life situations.</p> <p>PO5: Analytical reasoning: Ability to evaluate the reliability and relevance of evidence; identify logical flaws and holes in the arguments of others; analyze and synthesize data from a variety of sources; draw valid conclusions and support them with evidence and examples, and addressing opposing viewpoints.</p> <p>PO6: Research-related skills: A sense of inquiry and capability for asking relevant/appropriate questions, problem arising, synthesizing and articulating; Ability to recognize cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyse, interpret and draw conclusions from data, establish hypotheses, predict cause-and-effect relationships; ability to plan, execute and report the results of an experiment or investigation</p> <p>PO7: Cooperation/Team work: Ability to work effectively and respectfully with diverse teams; facilitate cooperative or coordinated effort on the part of a group, and act together as a group or a team in the interests of a common cause and work efficiently as a member of a team</p> <p>PO8: Scientific reasoning: Ability to analyse, interpret and draw conclusions from quantitative/qualitative data; and critically evaluate ideas, evidence and experiences from an open-minded and reasoned perspective.</p> <p>PO9: Reflective thinking: Critical sensibility to lived experiences, with self-awareness and reflexivity of both self and society.</p> <p>PO10 Information/digital literacy: Capability to use ICT in a variety of learning situations, demonstrate ability to access, evaluate, and use a variety of relevant information sources; and use appropriate software for analysis of data.</p> <p>PO 11 Self-directed learning: Ability to work independently, identify appropriate resources required for a project, and manage a project through to completion.</p>
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	<p>PO 12 Multicultural competence: Possess knowledge of the values and beliefs of multiple cultures and a global perspective; and capability to effectively engage in a multicultural society and interact respectfully with diverse groups.</p> <p>PO 13: Moral and ethical awareness/reasoning: Ability to embrace moral/ethical values in conducting one's life, formulate a position/argument about an ethical issue from multiple perspectives, and use ethical practices in all work.</p> <p>Capable of demonstrating the ability to identify ethical issues related to one's work, avoid unethical behaviour such as fabrication, falsification or misrepresentation of data or committing plagiarism, not adhering to intellectual property rights; appreciating environmental and sustainability issues; and adopting objective, unbiased and truthful actions in all aspects of work.</p> <p>PO 14: Leadership readiness/qualities: Capability for mapping out the tasks of a team or an organization, and setting direction, formulating an inspiring vision, building a team who can help achieve the vision, motivating and inspiring team members to engage with that vision, and using management skills to guide people to the right destination, in a smooth and efficient way.</p> <p>PO 15: Lifelong learning: Ability to acquire knowledge and skills, including „learning how to learn“, that are necessary for participating in learning activities throughout life, through self-paced and self-directed learning aimed at personal development, meeting economic, social and cultural objectives, and adapting to changing trades and demands of work place through knowledge/skill development/reskilling.</p>
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Programme Specific Outcomes:	<p>PSO1: To enable students to apply basic microeconomic, macroeconomic and monetary concepts and theories in real Life and decision making.</p> <p>PSO 2: To sensitize students to various economic issues related to Development, Growth, International Economics, Sustainable Development and Environment.</p> <p>PSO 3: To familiarize students to the concepts and theories Related to Finance, Investments and Modern Marketing.</p> <p>PSO 4: Evaluate various social and economic problems in the Society and develop answer to the problems as global citizens.</p> <p>PSO 5: Enhance skills of analytical and critical thinking to Analyze effectiveness of economic policies.</p>
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	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
PSO 1	Y	Y	Y	Y	Y	Y	Y	Y
PSO 2	Y	Y	Y	Y	Y	Y	Y	Y
PSO3	Y	Y	Y	Y	Y	Y	Y	Y
PSO 4	Y	Y	Y	Y	Y	Y	Y	Y
PSO 5	Y	Y	Y	Y	Y	Y	Y	Y

Course Outcomes	On completion of this course, students will;	Program Outcomes
CO1	Describe nature, scope, role, levels, functions and approaches of management	PO5
CO2	Apply planning and decision making in management	PO2, PO5, PO6, PO8
CO3	Identify organization structure and various organizing techniques	PO1, PO4
CO4	Understand Direction, Co-ordination & Control mechanisms	PO2, PO6
CO5	Relate and infer ethical practices of Organisation.	PO3, PO8

Mapping with program outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	M	L	S	S	S	S	M	S
CO 2	M	S	S	S	M	M	L	S
CO 3	M	S	S	M	S	S	M	S
CO 4	S	M	S	S	S	S	L	S
CO 5	M	S	S	S	S	S	M	S

S –Strong M-Medium L-Low

CO-PO Mapping with program specific outcomes ,

Level of Correlation between PSO's and CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage of Course Contribution to Pos	3.0	3.0	3.0	3.0	3.0

Course Outcomes		
Course Outcomes	On completion of this course, students will;	Program Outcomes
CO1	Prepare Journal, ledger, trial balance and cash book	PO2, PO1
CO2	Classify errors and making rectification entries	PO1
CO3	Prepare final accounts with adjustments	PO2, PO6
CO4	To understand Hire Purchase system	PO2, PO6
CO5	Prepare single and double entry system of Accounting.	PO6

Mapping with program outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	M	M	M	M	M	S	L	M
CO 2	S	M	M	M	M	S	L	S
CO 3	S	M	M	M	M	S	L	S
CO 4	S	M	M	M	M	S	L	M
CO 5	S	M	M	M	M	S	L	M

S-Strong

M-Medium

L-Low

CO-PO Mapping with program specific outcomes (Course Articulation Matrix)

Level of Correlation between PSO's and CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage of Course Contribution to Pos	3.0	3.0	3.0	3.0	3.0

Course Outcomes		
Course Outcomes	On completion of this course, students will;	Program Outcomes
CO1	Analyze & apply the various managerial economic concepts in individual & business decisions.	PO2, PO6,PO8
CO2	Explain demand concepts, underlying theories and identify demand forecasting techniques.	PO6, PO8
CO3	Employ production, cost and supply analysis for business decision making	PO1, PO2,PO6
CO4	Identify pricing strategies	PO1, PO2,PO6
CO5	Classify market structures under competitive scenarios.	PO2, PO6, PO8

Mapping with program outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	M	S	M	M	M	S	L	M
CO2	S	L	M	M		S		S
CO3	S	S	M	M	M	S		M
CO4	S	S	M	M		S		M
CO5		S	M	M		S		S

CO-PO Mapping (Course Articulation Matrix)Level

of Correlation between PSO's and CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage of Course Contribution to PO's	3.0	3.0	3.0	3.0	3.0

Course Outcomes		
Course Outcomes	On completion of this course, students will;	Program Outcomes
CO1	To understand basics of event management	PO1, PO6
CO2	To design events	PO5, PO6
CO3	To study feasibility of organising an event	PO2, PO6
CO4	To gain Familiarity with marketing & promotion of event	PO6
CO5	To develop event budget	PO6, PO8

Mapping with program outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	M	S	S	S	M	S	S	S
CO 2	M	S	S	S	M	S	S	S
CO 3	S	M	S	S	S	S	S	M
CO 4	S	M	S	S	S	S	S	S
CO 5	M	S	S	S	M	S	S	S

S-Strong

M-Medium

L-Low

CO-PO Mapping (Course Articulation Matrix)

Level of Correlation between PSO's and CO's

CO/PO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3
CO 2	3	3	3	3	3
CO 3	3	3	3	3	3
CO 4	3	3	3	3	3
CO 5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted Percentage of Course Contribution to Pos	3.0	3.0	3.0	3.0	3.0

Course Outcomes		
Course Outcomes	On completion of this course, students will;	Program Outcomes
CO1	Understand communication process and its barriers.	PO1,PO2,PO3,PO4, PO8
CO2	Develop business letters in different scenarios	PO1,PO2,PO3,PO4, PO5,PO6
CO3	Develop oral communication skills & conducting interviews	PO2,PO3,PO4,PO5, PO6,PO7
CO4	Use managerial writing for business communication	PO1,PO2,PO4,PO5, PO6,PO8
CO5	Identify usage of modern communication tools & its significance for managers	PO3,PO4,PO5,PO6, PO7,PO8

II SEMESTER

Course Outcomes	On Completion of the course the students will	Program Outcomes
CO1	To define Organizational Behavior, Understand the opportunity through OB.	PO1, PO2, PO6, PO7
CO2	To apply self-awareness, motivation, leadership and Learning theories at workplace.	PO2, PO4, PO5, PO6
CO3	To analyze the complexities and solutions of group behavior.	PO1, PO2, PO4, PO5, PO6
CO4	To impact and bring positive change in the culture of the organization.	PO2, PO3, PO4 PO5, PO8
CO5	To create a congenial climate in the organization.	PO1, PO2, PO5 PO6, PO8

Mapping with program outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	M	S	M	M	S	S	M	M
CO 2	S	S	M	S	S	S	M	S
CO 3	S	M	M	M	S	S	M	S
CO 4	S	S	M	M	S	S	M	M
CO 5	S	S	M	M	S	S	M	M

S-Strong

M-Medium

L-Low

CO-PO Mapping with Programme Specific Outcomes (Course Articulation Matrix): Level of Correlation between PSO's and CO's

CO/PO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3
CO 2	3	3	3	3	3
CO 3	3	3	3	3	3
CO 4	3	3	3	3	3
CO 5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted Percentage of Course Contribution to Pos	3.0	3.0	3.0	3.0	3.0

Course Outcomes		
Course Outcomes	On completion of this course, students will;	Program Outcomes
CO1	Interpret cost sheet & write comments.	PO1, PO2, PO4
CO2	Compare cost, management & financial accounting	PO6
CO3	Analyze the various ratio and compare it with standards to assess deviations	PO2, PO6
CO4	Estimate budget and use budgetary control	PO1, PO2, PO8
CO5	Evaluate marginal costing and its components	PO2, PO6

Mapping with program outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	S	S	M	S	M	S	S	S
CO 2	S	S	S	S	S	S	M	M
CO 3	M	S	S	S	S	S	S	M
CO 4	S	S	M	S	S	S	M	S
CO 5	M	M	S	S	S	S	S	S

S-Strong

M-Medium

L-Low

CO-PO Mapping with program specific outcomes (Course Articulation Matrix) Level of
Correlation between PSO's and CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage of Course Contribution to Pos	3.0	3.0	3.0	3.0	3.0

Mapping with program outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	M	M	M	M	M	S	L	M
CO 2	S	M	M	M	M	S	L	S
CO 3	S	M	M	M	M	S	L	S
CO 4	S	M	M	M	M	S	L	M
CO 5	S	M	M	M	M	S	L	M

S-Strong

M-Medium

L-Low

CO-PO Mapping with program specific outcomes (Course Articulation Matrix)

Level of Correlation between PSO's and CO's

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted percentage of Course Contribution to Pos	3.0	3.0	3.0	3.0	3.0

Course Outcomes	On Completion of the course the students will	Program Outcomes
CO1	Explain Indian Contracts Act	PO1,PO3,PO6,PO8
CO2	Understand Sales of goods act and Contract of Agency	PO1,PO2,PO3,PO4, PO5,PO8
CO3	Understand Indian Companies Act 1956	PO3,PO4,PO6,PO8
CO4	Understand Consumer Protection Act – RTI	PO1,PO2,PO3,PO6, PO7,PO8
CO5	Understand Cyber law	PO1,PO3,PO6,PO7, PO8

Mapping with program outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	S	M	M	M	S	S	L	S
CO 2	S	M	M	M	S	S	L	S
CO 3	S	M	M	M	S	S	L	S
CO 4	S	M	M	M	S	S	L	S
CO 5	S	M	M	M	S	S	L	S

S-Strong

M-Medium

L-Low

CO-PO Mapping with Programme Specific Outcomes (Course Articulation Matrix):Level
of Correlation between PSO's and CO's

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3
CO 2	3	3	3	3	3
CO 3	3	3	2	3	3
CO 4	3	3	3	3	3
CO 5	3	3	3	3	3
Weightage	15	15	13	15	15
Weighted percentage of Course Contribution to Pos	3.0	3.0	2.6	3.0	3.0

Course Outcomes		
Course Outcomes	On completion of this course, students will;	Program Outcomes
CO1	Identify the personal qualities that are needed to Sustain in the world of work.	PO1, PO2, PO6, PO7
CO2	Explore more advanced Management Skills such as conflict resolution, empowerment, working with teams And creating a positive environment for change.	PO1, PO2, PO5
CO3	Acquire practical management skills that are of Immediate use in management or leadership positions.	PO6, PO7
CO4	Employ critical-thinking and analytical skills to investigate complex business problems to propose Viable solutions.	PO1, PO2
CO5	Make persuasive presentations that reveal strong written And oral communication skills needed in the workplace.	PO4

Mapping with program outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	M	M	S	S	S	M	M	S
CO 2	M	M	S	S	S	S	S	M
CO 3	S	S	S	S	S	S	S	
CO 4	S	S	S	S	S	S	M	S
CO 5	M	M	S	S	S	M	S	S

S-Strong

M-Medium

L-Low

**CO-PO Mapping with Programme Specific Outcomes (Course
Articulation Matrix):Level of Correlation between PSO's and CO's**

CO/PO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3
CO 2	3	3	3	3	3
CO 3	3	3	3	3	3
CO 4	3	3	3	3	3
CO 5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted Percentage of Course Contribution to Pos	3.0	3.0	3.0	3.0	3.0

Course Outcomes		
Course Outcomes	On completion of this course, students will;	Program Outcomes
CO1	Describe basic concepts of business etiquette and corporate grooming.	PO5, PO6,
CO2	Outline the etiquette and grooming standards followed in business environment and the significance of communication	PO4, PO2, PO5, PO6
CO3	Create cultural awareness and moral practices in real life workplace scenarios	PO8, PO6
CO4	Analyze work place courtesy and resolve ethical issues with respect to etiquette and grooming for success	PO1, PO3, PO8, PO6
CO5	Apply the professionalism in the workplace considering diversity and courtesy	PO3, PO8, PO6

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	M	M	S	S	S	M	M	S
CO 2	M	M	S	S	S	M	M	S
CO 3	M	M	S	S	S	M	M	S
CO 4	M	M	S	S	S	S	M	S
CO 5	M	M	M	S	S	S	M	S

**CO-PO Mapping with Programme Specific Outcomes (Course
Articulation Matrix):Level of Correlation between PSO's and CO's**

CO/PO		PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1		3	3	3	3	3
CO 2		3	3	3	3	3
CO 3		3	3	3	3	3
CO 4		3	3	3	3	3
CO 5		-	3	3	3	3
Weight age		12	15	15	15	15
Weighted Percentage of Course Contribution to Pos		2.4	3.0	3.0	3.0	3.0

**WAVOO WAJEEHA WOMEN'S COLLEGE OF ARTS AND SCIENCE,
KAYALPATNAM**

DEPARTMENT OF COMMERCE

COURSE OUTCOME

B.COM

Programme Outcomes:	<p>PO1: Disciplinary knowledge: Capable of demonstrating Comprehensive knowledge and understanding of one or more Disciplines that form a part of an undergraduate Programme of study</p> <p>PO2: Communication Skills: Ability to express thoughts and ideas effectively in writing and orally ;Communicate with others using appropriate media; confidently share one's views and express herself/himself; demonstrate the ability to listen carefully, read and write analytically, and present complex information in a clear and concise manner to different groups.</p> <p>PO3:Critical thinking: Capability to apply analytic thought to a body of knowledge; analyse and evaluate evidence, arguments, claims, beliefs on the basis of empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies stand theories by following scientific approach to knowledge development.</p> <p>PO4:Problem solving: Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge; and apply one's learning to real life situations.</p> <p>PO5:Analytical reasoning: Ability to evaluate there liability and Relevance of evidence; identify logical flaw sand Hogles in the arguments of others; analyze and synthesize data from a variety of sources; draw valid conclusions and support them with evidence and examples, and addressing opposing view points.</p> <p>PO6: Research-related skills: A sense of inquiry and capability for asking relevant/ appropriate questions, problem arising, synthesizing and articulating; Ability to recognize cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyse ,inter pretand draw conclusions from data, establish hypotheses, predict cause-and-effect relationships; ability to plan, execute and report the results of an experiment or investigation</p> <p>PO7:Cooperation/Team work: Ability to work effectively and Respect fully with diverse teams; facilitate cooperative or coordinated effort on the part of a group, and act together as a group or a team in the interests of a common cause and work efficiently as a member of a team</p> <p>PO8: Scientific reasoning: Ability to analyse, interpret and draw conclusions from quantitative/qualitative data; and critically evaluate ideas, evidence and experiences from an open-minded and reasoned perspective.</p> <p>PO9: Reflective thinking: Critical sensibility to lived experiences, with self-awareness and reflexivity of both self and society.</p> <p>PO10 Information/digital literacy: Capability to use ICT in a variety of learning situations, demonstrate ability to access, evaluate, and use a variety of relevant information sources; and use appropriate software for analysis of data.</p>
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	<p>PO 11 Self-directed learning: Ability to work independently, identify appropriate resources required for a project, and manage a project through of completion.</p> <p>PO 12 Multicultural competence: Possess knowledge of the values and beliefs of multiple cultures and a global perspective; and capability to effectively engage in a multicultural society and interact respectfully with diverse groups.</p> <p>PO 13: Moral and ethical awareness/reasoning: Ability to embrace moral/ethical values in conducting one's life, formulate a position/argument about an ethical issue from multiple perspectives, and use ethical practices in all work. Capable of demonstrating the ability to identify ethical issues related to one's work, avoid unethical behaviour such as fabrication, falsification or misrepresentation of data or committing plagiarism, not adhering to intellectual property rights; appreciating environmental and sustain ability issues; and adopting objective, unbiased and truthful actions in all aspects of work.</p> <p>PO14:Leadershipreadiness/qualities: Capability for mapping out The asks of a team or an organization, and setting direction, formulating an inspiring vision, building a team who can help achieve the vision, motivating and inspiring team members to engage with that vision, and using management skills to guide people to the right destination, in a smooth and efficient way.</p> <p>PO 15: Lifelong learning: Ability to acquire knowledge and skills, including „learning how to learn“, that are necessary for participating in learning activities throughout life, through self-paced and self directed learning aimed at personal development, meeting economic, social and cultural objectives, and adapting to changing trades and demands of workplace through knowledge/skill development/ re skilling.</p>
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<p>Programme Specific Outcomes:</p>	<p>PSO1–Placement: To prepare the students who will demonstrate respectful engagement with others' ideas, behaviors, belief and apply diverse frames of reference to decisions and actions.</p> <p>PSO2-Entrepreneur: To create effective entrepreneurs by enhancing their critical thinking, problem solving, decision making and leadership skill that will facilitate startups and high potential organizations</p> <p>PSO3–Research and Development: Design and implement HR systems and practice grounded in research that comply with employment laws, leading the organization towards growth and development.</p> <p>PSO4– Contribution to Business World: To produce employable, ethical and innovative professionals to sustain in the dynamic business world.</p> <p>PSO5–Contribution to the Society: To contribute to the development of the society by collaborating with stakeholders for mutual benefit</p>
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CO	Course Outcomes
CO1	Remember the concept of rectification of errors and Bank reconciliation Statements
CO2	Apply the knowledge in preparing detailed accounts of sole trading concerns
CO3	Analyse the various methods of providing depreciation
CO4	Evaluate the methods of calculation of profit
CO5	Determine the royalty accounting treatment and claims from insurance Companies in case of loss of stock.

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	3	2	3	2	2	3	2	2
CO2	3	2	3	3	3	2	2	2	3	2	2
CO3	3	2	3	3	3	2	2	2	3	2	2
CO4	3	2	3	3	2	2	2	2	3	2	2
CO5	3	2	3	3	3	2	2	2	3	2	2
TOTAL	15	10	15	15	13	11	10	10	15	10	10
AVERAGE	3	2	3	3	2.6	2.2	2	2	3	2	2

3– Strong, 2-Medium, 1-Low

FIRST YEAR– SEMESTER–ICORE –II:PRINCIPLES OF MANAGEMENT

Course Outcomes	
CO1	Demonstrate the importance of principles of management.
CO2	Paraphrase the importance of planning and decision making in an organization.
CO3	Comprehend the concept of various authorizes and responsibilities of an Organization.
CO4	Enumerate the various methods of Performance appraisal
CO5	Demonstrate the notion of directing, co-coordination and control in the Management.

**MAPPING WITH PROGRAMME OUTCOMES
AND PROGRAMME SPECIFIC OUTCOMES**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	2	3	3	2	2	2	3	2	3
CO2	3	2	3	3	2	2	2	2	3	2	2
CO3	3	2	2	3	2	2	2	1	3	2	2
CO4	3	2	2	3	2	2	2	2	3	2	2
CO5	3	2	3	3	2	2	2	1	3	2	2
TOTAL	15	10	12	15	11	10	10	8	15	10	11
AVERAGE	3	2	2.4	3	2.2	2	2	1.6	3	2	2.2

3– Strong, 2-Medium, 1-Low

FIRSTYEAR-SEMESTER-

IELECTIVE-I: BUSINESS COMMUNICATION

Course Outcomes	
CO1	Acquire the basic concept of business communication.
CO2	Exposed to effective business letter
CO3	Paraphrase the concept of various correspondences.
CO4	Prepare Secretarial Correspondence like agenda, minutes and various business Reports.
CO5	Acquire the skill of preparing an effective resume

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3
CO1	3	3	2	3	2	2	2	2	2	2	2
CO2	3	3	2	3	2	2	2	3	2	2	2
CO3	3	3	2	3	2	2	2	2	2	2	2
CO4	3	3	2	3	2	2	2	2	2	2	2
CO5	3	3	2	3	2	2	2	2	2	2	2
TOTAL	15	15	15	15	10	10	10	11	10	10	10
AVERAGE	3	3	3	3	2	2	2	2.2	2	2	2

3– Strong, 2-Medium, 1-Low

FIRSTYEAR–SEMESTER-IELECTIVE-

I:INDIAN ECONOMIC DEVELOPMENT

Course Outcomes	
CO1	Elaborate the role of State and Market in Economic Development
CO2	Explain the Sector a contribution to National Income
CO3	Illustrate and Compare National Income at constant and current prices.
CO4	Describe the canons of public expenditure
CO5	Understand the theories of money and supply

**MAPPING WITH PROGRAMME OUTCOME AND
PROGRAMME SPECIFIC OUTCOMES**

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3
CO1	3	2	2	3	2	2	2	2	2	2	2
CO2	3	2	3	3	2	2	2	2	2	3	2
CO3	3	2	3	3	2	2	2	2	2	2	2
CO4	3	2	3	3	2	2	2	2	2	2	2
CO5	3	2	3	3	2	2	2	2	2	2	2
TOTAL	15	10	14	15	10	10	10	10	10	13	10
AVERAGE	3	2	2.8	3	2	2	2	2	2	2.2	2

3– Strong, 2-Medium, 1-Low

FIRSTYEAR – SEMESTER–I:ELECTIVE-I:BUSINESS ECONOMICS

Course Outcomes	
CO1	Explain the positive and negative approaches in economic analysis
CO2	Understood the factors of demand forecasting
CO3	Know the assumptions and significance of indifference curve
CO4	Outline the internal and external economies of scale
CO5	Relate and apply the various methods of pricing

**MAPPING WITH PROGRAMME OUTCOMES AND
PROGRAMME SPECIFIC OUTCOMES**

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3
CO1	3	2	2	2	2	2	2	2	1	2	2
CO2	3	2	3	3	2	2	2	2	2	2	2
CO3	3	2	3	3	2	2	2	2	2	2	2
CO4	3	2	2	3	2	2	2	2	2	2	2
CO5	3	2	3	3	2	2	2	2	2	2	2
TOTAL	15	10	13	14	11	10	10	10	10	10	10
AVERAGE	3	2	2.6	2.8	2.2	2	2	2	2	2	2

3– Strong, 2-Medium, 1-Low

DIGITAL BANKING

Course Outcomes:	
	After the successful completion of the course, the students will be able to:
CO1:	Explain the need for digital banking products and the usage of cards.
CO2:	Classify the usage of various payment systems.
CO3:	Discuss the profit ability, risk management and frauds of mobile and internet banking.
CO4:	Analyse the approval processes of POS terminals.
CO5:	Explain the product features and services of ATM and Cash Deposit Machine.
Course Outcomes:	
	After the successful completion of the course ,the students will be able to:
CO1:	Acquire practical knowledge in MS Word
CO2:	Construct worksheet in MS Excel using basic functions
CO3:	Construct Excel sheets in MS Excel using advanced functions
CO4:	Prepare presentations in MS Power Point using various Templates
CO5:	Create a data base using Power point

FUNDAMENTALS OF BUSINESS STUDIES

Course Outcomes:	
	After the successful completion of the course, the students will be able to:
CO 1:	To make the students familiar with the basic concepts of commerce and Management Fields.
CO 2:	To encourage and motivate the Students for the commerce Education.
CO 3:	To make the students aware towards the various branches of commerce for Example, Accounts, Banking and Auditing.

Course Outcomes	
CO1	To evaluate the Hire purchase accounts and installment systems
CO2	To prepare Branch accounts and Departmental Accounts
CO3	To understand the accounting treatment for admission and retirement in Partnership
CO4	To know Settlement of accounts at the time of dissolution of a firm.
CO5	To elaborate the role of IFRS

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3
CO1	3	2	3	3	2	3	2	2	3	2	2
CO2	3	2	3	3	3	2	2	2	3	2	2
CO3	3	2	2	3	3	2	2	2	3	2	2
CO4	3	2	3	3	2	2	2	2	3	2	2
CO5	3	3	3	3	3	3	3	3	3	3	3
TOTAL	16	11	14	15	14	12	11	11	15	11	11
AVERAGE	3.2	2.2	2.8	3	2.8	2.4	2.2	2.2	3	2.2	2.2

3– Strong, 2-Medium, 1-Low

FIRST YEAR – SEMESTER – IICore–IV:BUSINESS LAW

Course Outcome	
CO1	Explain the Objectives and significance of Mercantile law
CO2	Understand the clauses and exceptions of Indian Contract Act.
CO3	Outline the contract of indemnity and guarantee
CO4	Familiar with the provision relating to Bailment and Pledge
CO5	Explain the various provisions of Sale of Goods Act 1930

**MAPPING WITH PROGRAMME OUTCOMES AND
PROGRAMME SPECIFIC OUTCOMES**

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3
CO1	3	2	2	3	2	2	2	2	2	2	2
CO2	3	2	3	3	2	2	2	2	2	2	2
CO3	3	2	2	3	2	2	2	2	2	2	2
CO4	3	2	3	3	2	2	2	2	2	2	2
CO5	3	2	3	3	2	2	2	2	2	2	2
TOTAL	15	10	13	15	10	10	10	10	10	10	10
AVERAGE	3	2	2.6	3	2	2	2	2	2	2	2

3– Strong, 2-Medium, 1-Low

FIRST YEAR – SEMESTER – IIELECTIVE–II:BUSINESS ENVIRONMENT

Course Outcomes	
CO1	Remember then ex us between environment and business.
CO2	Apply the knowledge of Political Environment in which the businesses operate.
CO3	Analyze the various aspects of Social and Cultural Environment.
CO4	Evaluate the parameters in Economic Environment.
CO5	Create a conducive Technological Environment for business to operate globally.

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3
CO1	3	2	3	3	3	2	2	3	2	3	3
CO2	3	2	2	3	3	2	3	3	2	3	3
CO3	3	2	3	3	3	2	3	3	2	3	3
CO4	3	2	3	3	3	2	2	3	2	3	3
CO5	3	2	3	3	3	2	3	3	3	3	3
TOTAL	15	10	14	15	15	10	13	15	11	15	15
AVERAGE	3	2	2.8	3	3	2	2.6	3	2.2	3	3

3– Strong, 2-Medium, 1-Low

FIRSTYEAR– SEMESTER-II
ELECTIVE -II: INSURANCE AND RISK MANAGEMENT

Course Outcomes	
CO1	Identify the workings of insurance and hedging
CO2	Evaluate the types of insurance policies and settlement
CO3	Settle claims under various types of general insurance
CO4	Know the protection provided for insurance policy holder under IRDA
CO5	Evaluate the assessment and retention of risk

FIRST YEAR – SEMESTER – II ELECTIVE -

II: INTERNATIONAL TRADE

Course Outcomes	
CO1	Distinguish between the concept of internal and international trade.
CO2	Define the various theories of international trade.
CO3	Examine the balance of trade and exchange rates
CO4	Appraise the role of IMF and IBRD.
CO5	Define the workings of WTO and with special reference to India.

**MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME
SPECIFIC OUTCOMES**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	2	2	2	2	2	2	2	2
CO2	3	2	3	2	2	2	2	2	2	2	2
CO3	3	2	3	2	2	2	2	2	2	2	2
CO4	3	2	3	2	2	2	2	2	2	2	2
CO5	3	2	3	2	2	2	2	2	2	2	2
TOTAL	15	10	15	10	10	10	10	10	10	10	10
AVERAGE	3	2	3	2	2	2	2	2	2	2	2

3– Strong, 2-Medium, 1-Low

**MAPPING WITH PROGRAMME OUTCOMES
AND PROGRAMME SPECIFIC OUTCOMES**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	2	2	2	2	2	2	3	2
CO2	3	2	3	2	3	2	2	2	2	3	2
CO3	3	2	3	2	3	2	2	2	2	3	2
CO4	3	2	3	2	2	2	2	2	2	3	2
CO5	3	2	3	2	2	2	2	2	2	3	2
TOTAL	15	10	15	10	12	10	10	10	10	15	10
AVERAGE	3	2	3	2	2.4	2	2	2	2	3	2

3– Strong, 2-Medium, 1-Low

Course Outcomes:	
	After the successful completion of the course, the students will be able to:
CO1:	Explain the basic concept of Securities Market
CO2:	Practice Trading on Stock Market
CO3:	Analyse the legal Frame work of Securities Market
CO4:	Explain different segment of Stock Exchange
CO5:	Perform Demand Trading

Course Outcomes:	
	After the successful completion of the course, the students will be able to:
CO1:	Generate a business idea using different techniques and describe sources of innovative ideas
CO2:	Evaluate advantages of acquiring a non -going venture with a case study;
CO3:	Present a comparative analysis of various government schemes which are suitable for the business idea;
CO4:	Develop a marketing plan for a business idea;
CO5:	Prepare and present a well- conceived Business Plan

**DEPARTMENT OF M.COM
COURSE OUTCOME**

Master of Commerce- M.Com.

Programme Outcomes

- Students have a sound understanding of the basic principles of human resource management, recruitment process, training, performance appraisal, recent trends in human resource and its application in the business and industry.
- Students can develop accounting knowledge, acquire skills of maintaining accounts, develop necessary professional knowledge and skills in finance and taxation and develop competency to make the students employable in the global market.
- Students gain knowledge and skills to implement traditional and modern strategies and practices in management and organizational development.
- Students can practice different statistical techniques and tools in academics, business and research.

Programme Specific Outcomes

This Programme can provide well trained professionals such as

- Managers
- Accountants
- Cost Accountants
- Bank Managers
- Teachers

Course Outcomes

The courses of this programmer will help the students to

- Acquire how interpersonal skills should be practiced and developed within an organization and personal life, and also make the students to understand sensitive situations such as delivering a difficult message to the employees handling a complaint or building a relationship with a new colleague or client.
- Empower in the concepts and application of accounting in management, acquire knowledge and skills in investment settings and valuation of securities and also know the responsibilities of retail personnel in the numerous career positions available in the retail field.

**WAVOO WAJEEHA WOMEN'S COLLEGE OF ARTS AND SCIENCE,
KAYALPATNAM**

DEPARTMENT OF MATHEMATICS

COURSE OUTCOME

B.Sc. Mathematics :

Programme Outcome, Programme Specific Outcome and Course Outcome

Mathematics is the study of quantity, structure, space and change, focusing on problem solving, with wider scope of application in science, engineering, technology, social sciences etc. The key core areas of study in Mathematics include Algebra, Analysis (Real & Complex), Differential Equations, Geometry, and Mechanics. The Bachelor's Degree B.Sc. Mathematics is awarded to the students on the basis of knowledge, understanding, skills, attitudes, values and academic achievements expected to be acquired by learners at the end of the Programme. Learning outcomes of Mathematics are aimed at facilitating the learner to acquire these attributes, keeping in view of their preferences and aspirations for gaining knowledge of Mathematics.

Bachelor's degree in Mathematics is the culmination of in-depth knowledge of algebra, calculation, geometry, differential equations and several other branches of Mathematics. This also leads to study of related areas like Computer science, Financial Mathematics, Statistics and many more. Thus, this programme helps learners in building a solid foundation for higher studies in Mathematics. The skills and knowledge gained have intrinsic aesthetics leading to proficiency in analytical reasoning. This can be utilised in Mathematical modelling and solving real life problems.

Students completing this programme will be able to present Mathematics clearly and precisely, make abstract ideas precise by formulating them in the language of Mathematics, describe Mathematical ideas from multiple perspectives and explain fundamental concepts of Mathematics to non-Mathematicians.

Completion of this programme will also enable the learners to join teaching profession, enhance their employability for government jobs, jobs in banking, insurance and investment sectors, data analyst jobs and jobs in various other public and private enterprises.

Under Graduate Program

Programme Outcomes:

PO1: Disciplinary Knowledge: Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form apart of an undergraduate program of study.

PO2: Critical Thinking: Capability to apply analytic thought to a body of knowledge; analyse and evaluate evidence, arguments, claims, beliefs on the basis of empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices ,policies and theories by following scientific approach to knowledge development.

PO3: Problem Solving: Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge and apply one's earning to real life situations.

PO4:Analytical Reasoning: Ability to evaluate their liability and relevance of evidence ; identify logical flaws and holes in the arguments of others; analyze and synthesize data from a variety of sources; draw valid conclusions and support them with evidence and examples and addressing opposing viewpoints.

PO5:Scientific Reasoning: Ability to analyse ,interpret and draw conclusions from quantitative / qualitative data; and critically evaluate ideas, evidence, and experiences from an open minded and reasoned perspective.

PO6: Self-directed & Lifelong Learning :Ability to work in dependently ,identify and manage a project. Ability to acquire knowledge and skills ,including “learning how to learn” ,through self-placed and self-directed learning aimed at personal development, meeting economic, social and cultural objectives.

B.Sc Mathematics Program Specific Outcomes:

PSO1: Acquire good knowledge and understanding, to solve specific theoretical & applied problems in different area of mathematics & statistics.

PSO2: Understand, formulate, develop mathematical arguments, logically and use quantitative models to address issues arising in social sciences ,business and other context/fields.

PSO3: To prepare the students who will demonstrate respectful engagement with other's ideas behaviors, beliefs and apply diverse frames of references to decisions and actions. To create effective entrepreneurs by enhancing their critical thinking, problem solving, decision making and leadership skill that will facilitate startups and high potential organizations.

Mapping of Course Learning Outcomes (CLOs) with Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) can be carried out accordingly, assigning the appropriate level in the grids:

	POs							PSOs		
	1	2	3	4	5	6	...	1	2	...
CLO1										
CLO2										
CLO3										
CLO4										
CLO5										

Course Learning Outcome (for Mapping with POS and PSOs)

Students will be able to

CLO1: Classify and Solve reciprocal equations

CLO2: Find the sum of binomial ,exponential and logarithmic series

CLO3: Find Eigen values ,eigenvectors ,verify Cay ley–Hamilton theorem.

CLO4:Expand the powers and multiples of trigonometric functions in terms of sine and cosine

CLO5:Determine relationship between circular and hyper bolic functions.

	POs						PSOs		
	1	2	3	4	5	6	1	2	3
CLO1	3	1	3	-	-	-	3	2	1
CLO2	2	1	3	1	-	-	3	2	1
CLO3	3	1	3	1	-	-	3	2	1
CLO4	3	1	3	-	-	-	3	2	1
CLO5	3	1	3	-	-	-	3	2	1

Course Learning Outcome (for Mapping with PLOs and PSOs)

Students will be able to

CLO1: Find the derivative, form equation involving derivatives and apply Leibnitz formula

CLO2: Find the partial derivative and total derivative coefficient

CLO3: Use the Language method of undetermined multipliers

CLO4: Find the envelope of a given family of curves

CLO5: Find the evaluates and involutes and to find there a discussion of curvature using polar co-ordinates

	POs						PSOs		
	1	2	3	4	5	6	1	2	3
CLO1	3	1	3	-	-	-	3	2	1
CLO2	2	1	3	-	-	-	3	2	1
CLO3	3	2	3	2	-	-	3	2	1
CLO4	3	2	3	2	1	-	3	2	1
CLO5	3	2	3	2	1	-	3	2	1

Course Learning Outcome

After completion of this course successfully, the students will be able to

CLO 1: Prove the binomial theorem and apply it to find the expansions of any $(x + y)^n$ and also, solve there latered problems

CLO2: Find the various sequences and series and solve the problems related to them. Explain the principle of counting.

CLO3: Find the number of permutations and combinations in different cases. Apply the principle of counting to solve the problems on permutations and combinations

CLO 4: Explain various trigonometric ratios and find them for different angles, including sum of the angles, multiple and submultiple angles, etc. Also, they can solve the problems using the transformations.

CLO5: Find the limit and derivative of a function at a point, the definite and in definite integral of a function. Find the points of min/max of a function.

Mapping of Course Learning Outcomes (CLOs) with Program Learning Outcomes (PLOs) and Program Specific Outcomes (PSOs)

	POs						PSOs	
	1	2	3	4	5	6	1	2
CLO1	1	1	1	1	1	1	1	1
CLO2	2	1	1	2	2	1	2	1
CLO3	2	1	1	2	2	1	2	1
CLO4	1	1	1	1	1	1	2	1
CLO5	1	1	1	1	1	1	2	1

Course Learning Outcome (for Mapping with POS and PSOs)

Students will be able to

CLO 1: Find pole, polar for conics, diameters, conjugate diameters for ellipse and hyper bola

CLO2: Find the polar equations of straight line and circle, equations of chord, tangent and normal

CLO3: Explain in detail the system of Planes

CLO4: Explain in detail the system of Straight lines

CLO5: Explain in detail the system of Spheres

	POs						PSOs		
	1	2	3	4	5	6	1	2	3
CLO1	2	2	2	1	-	-	3	2	1
CLO2	2	2	2	1	-	-	3	2	1
CLO3	3	2	2	1	-	-	3	2	1
CLO4	3	2	3	1	-	-	3	2	1
CLO5	3	2	3	1	-	-	3	2	1

Course Learning Outcome (for Mapping with POS and PSOs)

Students will be able to

CLO1: Determine the integrals of algebraic, trigonometric and logarithmic functions and to find their education formulae

CLO 2: Evaluate double and triple integrals and problems using change of order of integration
CLO3: Solve multiple integrals and to find the areas of curved surfaces and volumes of solids of revolution

CLO4: Explain beta and gamma functions and to use them in solving problems of integration

CLO 5: Explain Geometric and Physical applications of integral calculus

	POs						PSOs		
	1	2	3	4	5	6	1	2	3
CLO1	3	1	3	-	-	-	3	2	1
CLO2	3	1	3	-	-	-	3	2	1
CLO3	3	1	3	-	-	-	3	2	1
CLO4	3	1	3	-	-	-	3	2	1
CLO5	3	1	3	-	2	1	3	2	1

**WAVOO WAJEEHA WOMEN'S COLLEGE OF ARTS AND SCIENCE,
KAYALPATNAM**

DEPARTMENT OF MATHEMATICS

COURSE OUTCOME

M.Sc.Mathematics

Programmer

Outcomes

- This programme provides to inculcate the logical, analytical and critical thinking which in turn provides the confidence to face any competitive examination especially in banking sector ,TNPSC and civil service examinations.
- The students can obtain adequate information and become a competent teacher after pursuing their graduation.

Programmer Specific Outcomes

- The students can acquire the knowledge of solving problems by applying the skills and the knowledge gained.
- By virtue of the training they can acquire in depth knowledge in the classical and applied mathematical concepts, and also get the ability of solving mathematical problems.
- The students are capable to face the NET/SET Examinations confidently.

Course Outcomes

- The students can understand the fundamental so mathematics.
- They are able to perform basic computation in higher mathematics.
- They can demonstrate proficiency in writing the proof and the working knowledge to handle the practical problems.
- They can also demonstrate the basic manipulative skills in Algebra , Geometry ,Trigonometry and Statistics.
- Students can able to acquire basic knowledge
- About various instruments and statistical techniques in mathematical research.

**WAVOO WAJEEHA WOMEN'S COLLEGE OF ARTS AND SCIENCE,
KAYALPATNAM**

DEPARTMENT OF PHYSICS

COURSE OUTCOME

B.Sc PHYSICS

Programme Outcomes: (These are mere guide lines .Faculty can create POs based on their curriculum or adopt from UGC or the University for their Programme)	<p>PO1:Disciplinary knowledge: Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate Programme of study</p> <p>PO2:Communication Skills: Ability to express thoughts and ideas effectively in writing and orally communicate with others using appropriate media; confidently share one's views and express herself/himself; demonstrate the ability to listen carefully; read and write analytically and present complex information in a clear and concise manner to different groups.</p> <p>PO3:Critical thinking: Capability to apply the analytic thought to a body of knowledge; analyses and evaluate the proofs, arguments, claims, beliefs on the basis of empirical evidences; identify relevant assumptions implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach.</p> <p>PO4: Problem solving: Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge; and apply one's learning to real life situations.</p> <p>PO5:Analytical reasoning: Ability to evaluate their liability and relevance of evidence; identify logical flaws and holes in the arguments of others; analyze and synthesize data from a variety of sources; draw valid conclusions and support them with evidenced examples, and addressing opposing viewpoints.</p> <p>PO6:Research-related skills: A sense of inquiry and capability for asking relevant/appropriate questions, problem arising, synthesis in grand articulating; Ability to recognize cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses , analyze ,interpret and draw conclusions from data, establish hypotheses, predict cause-and-effect relationships; ability to plan, execute and report the results of an experimenter investigation</p>
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PO7:Cooperation / Teamwork:

Ability to work effectively and respectfully with diverse teams; facilitate cooperative or coordinated effort on the part of a group, and act together as a group or a team in the interests of a common cause and work efficiently as a member of a team.

PO8:Scientific reasoning:

Ability to analyses interpret and draw conclusions from quantitative/qualitative data; and critically evaluate ideas, evidence and experiences from an open-minded and reasoned perspective.

PO9:Reflective thinking:

Critical sensibility to lived experiences, with self-awareness and reflexivity of both self and society.

PO10:Information/digital literacy:

Capability to use ICT in a variety of learning situations, demonstrate ability to access, evaluate, and use a variety of relevant information sources; and use appropriate software for analysis of data.

PO11 :Self-directed learning:

Ability to work independently, identify appropriate resources required or a project, and manage a project through to completion.

PO12Multiculturalcompetence:

Possess knowledge of the values and beliefs of multiple cultures and a global perspective; and capability to effectively engage in a multicultural society and interact respect fully with diverse groups.

PO13: Moral and ethical awareness/reasoning:

Ability to embrace moral /ethical values in conducting one's life, formula tea position/argument about an ethical issue from multiple perspectives, and use ethical practices in all work. Capable of demonstrating the ability to identify ethical issues related to one's work, avoid unethical behaviour such as fabrication,falsificationormisrepresentationofdataorcommittingplagiarism,notadheringtointel lectual property rights; appreciating environmental and sustainabilityissues;andadoptingobjective,unbiasedandtruthfulactionsinallaspectsof work.

PO14:Leadership readiness/qualities:

Capability for mapping out the tasks of a team or an organization, andsettingdirection,formulatinganinspiringvision,buildingateamwhocan help achieve the vision, motivating and inspiring team members to engage with that vision, and using management skills to guide people to the right destination, in smoothened efficient way.

PO15:Lifelong learning:

Ability to acquire knowledge and skills, including "learning howtolearn",thatarenecessaryforparticipatinginlearningactivitiesthroughout life, through self-paced and self-directed learning aimed at personal development, meeting economic, social and cultural objectives, and adapting to changing trades and demands of work place through knowledge/skill development/reskilling.

Programme Specific Outcomes: (These are mere guidelines. Faculty can create POs)	PSO1:Placement: To prepare the students who will demonstrate respectful engagement with others' ideas, behaviors, and beliefs and apply diverse frames of reference to decisions and actions. PSO2:Entrepreneur: To create effective entrepreneurs by enhancing their critical thinking, problem solving, decision making and leadership skill that will facilitate start-up sand high potential organizations
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based on their curriculum or adopt from UGC or University for their Programme)	PSO3:Researchand Development: Design and implement HR systems and practices grounded in research that comply with employment laws, leading the organization to wards growth and development. PSO4:Contributionto Business World: To produce employable, ethical and innovative professionals to sustain in the dynamic business world PSO5:Contribution to the Society: To contribute to the development of the society by collaborating with stakeholders for mutual benefit
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COURSE OUTCOMES:

At the end of the course ,the student will be able to:

COURSE OUTCOMES	CO1	Apply concept of vectors to understand concepts of Physics and solve problems
	CO2	Appreciate different forces present in Nature while learning about phenomena related to these different forces.
	CO3	Quantify energy in different process and relate momentum, velocity and energy
	CO4	Differentiate different types of motions they would encounter in various courses and understand their basis
	CO5	Relate various properties of matter with their behavior and connect them with different physical parameters involved.

MAPPING WITH PROGRAM OUTCOMES:

Map course outcomes (CO) for each course with program outcomes (PO) in the 3-point scale of STRONG(3), MEDIUM(2) and LOW(1).

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	3	3	3	3	2	3	2
CO2	2	3	3	3	2	3	3	2	2	2
CO3	3	3	3	2	3	3	3	2	3	2
CO4	3	3	3	3	3	3	3	2	2	2
CO5	3	2	3	3	3	3	3	2	2	3

COURSE OUTCOMES:

At the end of the course, the student will be able to:

COURSE OUTCOMES	CO1	Relate elastic behavior in terms of three moduli of elasticity and working of torsion pendulum.
	CO2	Able to appreciate concept of bending of beams and analyze the expression, quantify and understand nature of materials.
	CO3	Explain the surface tension and viscosity of fluid and support the interesting phenomena associated with liquid surface, soap films provide an analogue solution to many engineering problems.
	CO4	Analyze simple harmonic motions mathematically and apply them. Understand the concept of resonance and use it to evaluate the frequency of vibration. Setup experiment to evaluate frequency of acais
	CO5	Understand the concept of acoustics, importance of constructing buildings with good acoustics. Able to apply their knowledge of ultrasonic in real life, especially in medical field and assimilate different methods of production of ultrasonic waves

MAPPING WITH PROGRAM OUTCOMES:

Map course outcomes (CO) for each course with program outcomes (PO) in the 3-point scale of STRONG(3), MEDIUM(2) and LOW(1).

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	M	M	S	M	M	S	M	S
CO2	M	S	S	S	M	M	S	M	S	S
CO3	S	M	S	M	S	S	M	S	S	S
CO4	S	S	S	S	S	M	S	M	M	M
CO5	M	M	S	S	M	S	S	S	S	M

COURSE	FIRST SEMESTER –CORE PRACTICAL1
COURSE TITLE	PRACTICAL1
CREDITS	3
COURSE OBJECTIVES	Apply various physics concepts to understand properties of Matter, setup experimentation to verify theories, quantify and analyses ,able To do error analysis and correlate results

COURSE OUTCOMES:

At the end of the course ,the student will be able to:

COURSE OUTCOMES	CO1	Acquires knowledge on how to distinguish between temperature and heat. Introduce him/her to the field of the Monetary and explain practical measurements of high temperatures well a slow temperature physics .Student identifies the relationship between heat capacity, specific heat capacity. The study of Low temperature Physics sets the basis for the students to understand cryogenics, superconductivity ,super fluidity and Condensed Matter Physics
	CO2	Derive the efficiency of Carnot's engine. Discuss the implications of the laws of Thermo dynamics in diesel and petrol engines
	CO3	Able to analyze performance of thermodynamic systems inefficiency by problems. Gets an insight into thermo dynamic properties like enthalpy, entropy
	CO4	Study the process of thermal conductivity and apply it to good and bad conductors. Quantify different parameters related to heat, relate them with various physical parameters and analyse them
	CO5	Interpret classical statistics concepts such as phase space, ensemble, Maxwell-Boltzmann distribution law. Develop the statistical interpretation of Bose-Einstein and Fermi-Dirac. Apply to quantum particles such as photon and electron

MAPPING WITH PROGRAM OUTCOMES:

Map course outcomes (CO) for each course with program outcomes (PO) in the 3-point scale of STRONG(S), MEDIUM(M) and LOW (L).

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	S	S	S	S	M	S	M
CO2	M	S	S	S	M	S	S	M	M	M
CO3	S	S	S	M	S	S	S	M	S	M
CO4	S	S	S	S	S	S	S	M	M	M
CO5	S	S	M	S	S	S	M	M	S	M

**WAVOO WAJEEHA WOMEN'S COLLEGE OF ARTS AND SCIENCE,
KAYALPATNAM
DEPARTMENT OF COMPUTER SCIENCE**

COURSE OUTCOMES

B.SC Computer Science

Programme Outcomes (PO) of B.Sc. degree programme in Computer Science

- Scientific aptitude will be developed in Students
- Students will acquire basic Practical skills & Technical knowledge along with domain knowledge of different subjects in the Computer Science & humanities stream.
- Students will become employable; Students will be eligible for career opportunities in education field, Industry ,or will be able to opt for entrepreneurship.
- Students will possess basic subject knowledge required for higher studies, professional and applied courses.
- Students will be aware of and able to develop solution oriented approach towards various Social and Environmental issues.
- Ability to acquire in-depth knowledge of several branches of Computer Science and aligned areas. This Programme helps learners in building a solid foundation for higher studies in Computer Science and applications.
- The skills and knowledge gained leads to proficiency in analytical reasoning, which can be utilized in modeling and solving real life problems.
- Utilize computer programming skills to solve theoretical and applied problems by critical understanding, analysis and synthesis.
- To recognize patterns and to identify essential and relevant aspects of problems.
- Ability to share ideas and insights while seeking and benefiting from knowledge and insight from others.
- Mould the students into responsible citizens in a rapidly changing interdependent society.

The above expectations generally can be pooled into 6 broad categories and can be modified according to institutional requirements:

PO1: Knowledge

PO2: Problem Analysis

PO3: Design/Development of Solutions

PO4: Conduct investigations of complex problems

PO5: Modern tool usage

PO6: Applying to society

Programme Specific Outcomes of B.Sc. Degree Programme in Computer Science

PSO1: Think in a critical and logical based manner

PSO2: Familiarize the students with suitable of ware tools of computer science and industrial applications to handle issues and solve problems in mathematics or statistics and real time application related sciences.

PSO3: Know when there is a need for information, to be able to identify ,locate, evaluate ,and effectively use that information for the issue or problem at hand.

PSO4: Understand, formulate, develop programming model with logical approaches to a Address issues arising in social science, business and other contexts.

PSO5: Acquire good knowledge and understanding to solve specific theoretical and applied problems in advanced areas of Computer science and Industrial statistics.

PSO6: Provide students/learners sufficient knowledge and skills enabling them to undertake further studies in Computer Science or Applications or Information Technology and its allied areas on multiple disciplines linked with Computer Science.

PSO7: Equip with Computer science technical ability, problem solving skills, creative talent and power of communication necessary for various forms of employment.

PSO8: Develop a range of generic skills helpful in employment ,internships & societal activities.

PSO9: Get adequate exposure to global and local concerns that provides platform for further exploration into multi-dimensional aspects of computing sciences.

Mapping of Course Learning Outcomes (CLOs) with Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) can be carried out accordingly, assigning the appropriate level in the grids:(put tick mark in each row)

PO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
PO1	<input type="checkbox"/>					
PO2		<input type="checkbox"/>				
PO3			<input type="checkbox"/>			
PO4				<input type="checkbox"/>		
PO5					<input type="checkbox"/>	
PO6						<input type="checkbox"/>

FIRST SEMESTER

CORE PAPER

Course Outcomes		Programme Outcomes
CO	On completion of this course, students will	
CO1	Learn the basics of python, Do simple programs on python, Learn how to use an array.	PO1,PO2,PO3,PO4 , PO5,PO6
CO2	Develop program using selection statement, Work with Looping and jump statements, Do programs on Loops and jump statements.	PO1,PO2,PO3,PO4,PO5,PO6
CO3	Concept of function, function arguments, Implementing the concept strings in various application, Significance of Modules, Work with functions, Strings and modules.	PO1,PO2,PO3,PO4,PO5,PO6
CO4	Work with List, tuples and dictionary, Write program using list, Tuples and dictionary.	PO1,PO2,PO3,PO4,PO5,PO6
CO5	Usage of File handlings in python, Concept of reading and writing files, Do programs using files.	PO1,PO2,PO3,PO4,PO5,PO6

Mapping with Programme Outcomes:

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	3	3	3	3	3
CO2	3	3	3	3	2	3
CO3	3	3	3	3	2	2
CO4	3	3	3	3	2	3
CO5	3	2	3	3	3	3
Weight age of course contributed to each PSO	15	14	15	15	13	14

S-Strong-3 M-Medium-2 L-Low-1

Course Outcomes	
On completion of this course, students will	
CO1	Demonstrate the understanding of syntax and semantics of PYTHON language
CO2	Identify the problem and solve using PYTHON programming techniques.
CO3	Identify suitable programming constructs for problem solving.
CO4	Analyze various concepts of PYTHON language to solve the problem in an efficient way.
CO5	Develop a PYTHON program for a given problem and test for its correctness.

Mapping with Programme Outcomes:

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	3	3	3	3	3
CO2	3	3	1	3	2	3
CO3	3	3	3	3	2	2
CO4	3	3	3	3	2	3
CO5	3	2	3	3	3	3
Weight age of course contributed to each PSO	15	15	13	15	13	14

S-Strong-3 M-Medium-2L-Low-1

Course Outcomes:(for students: To know what they are going to learn

CO1: Understand the basics of computer systems and its components.

CO2: Under stand and apply the basic concepts of word processing package

CO3: Understand and apply the basic concepts of electronic spread sheet software.

CO4: Understand and apply the basic concepts of database management system.

CO5: Understand and create a presentation using PowerPoint tool.

Course Outcomes		Programme Outcomes
CO	On completion of this course, students will	
CO1	Study the basic knowledge of Computers .Analyze the programming languages.	PO1,PO2,PO3,P O4,PO5,PO6
CO2	Study the data types and arithmetic operations. Know about the algorithms. Develop program using flowchart and pseudo code.	PO1,PO2,PO3,P O4,PO5,PO6
CO3	Determine the various operators .Explain about the structures. Illustrate the concept of Loops	PO1, PO2, PO3,PO4,PO5,P O6
CO4	Study about Numeric data and character-based data. Analyze about Arrays.	PO1,PO2,PO3, PO4,PO5,PO6
CO5	Explain about DFD Illustrate program modules. Creating and reading Files	PO1, PO2, PO3,PO4,PO5,P O6

Mapping with Programme Outcomes:

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	3	3	3	3	3
CO2	3	3	3	3	3	3
CO3	3	2	3	3	3	3
CO4	3	3	2	3	3	3
CO5	3	3	3	3	3	2
Weight age of course Contributed to each PSO	15	14	14	15	15	14

S-Strong-3M-Medium-2L-Low-1

Semester II

Course Outcomes		Programme Outcome
CO	On completion of this course, students will	
CO1	Understand the concept of Dynamic memory management , data types, algorithms, Big O notation	PO1,PO6
CO2	Understand basic data structures such as arrays, linked lists, stacks and queues	PO2
CO3	Describe the hash function and concepts of collision and Its resolution methods	PO2,PO4
CO4	Solve problem involving graphs, trees and heaps	PO4,PO6
CO5	Apply Algorithm for solving problems like sorting, searching, insertion and deletion of data	PO5,PO6

Mapping with Programme Outcomes:

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	3	3	3	3	3
CO2	3	3	1	3	3	3
CO3	3	3	3	2	3	2
CO4	3	2	3	2	3	3
CO5	3	3	3	3	3	3
Weight age of course Contributed to each PSO	15	14	13	13	15	14

S-Strong-3 M-Medium-2L-Low-1

Programme Outcome		
CO		
1		PO1,PO4,PO5
2	Understand basic data structures such as arrays, linked lists, stacks and queues	PO1,PO4,PO6
3	Describe the hash function and concepts of collision and Its resolution methods	PO1,PO3,PO6
4	Solve problem involving graphs, trees and heaps	PO3,PO4
5	Apply Algorithm for solving problems like sorting, searching, insertion and deletion of data	PO1,PO5,PO6

Mapping with Programme Outcomes:

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	3	3	3	3	3
CO2	3	3	1	3	2	3
CO3	3	3	3	3	2	3
CO4	3	3	3	3	2	3
CO5	3	2	3	3	3	3
Weight age of course contributed to each PSO	15	15	13	15	13	15

Mapping with Programme Outcomes:

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	3	3	3	3	3
CO2	3	3	1	3	2	3
CO3	3	3	3	3	2	3
CO4	3	3	3	3	2	3
CO5	3	2	3	3	3	3
Weight age of course contributed to each PSO	15	15	13	15	13	15

S-Strong-3 M-Medium-2 L-Low-1

Course Outcomes						ProgrammeOutcome
CO	On completion of this course, students will					
CO1	Understand the concept of various number systems					PO1,PO6
CO2	Understand basic concepts of digital systems					PO2
CO3	Describe the storage structures					PO2,PO4
CO4	Solve problems using SOP and PoS					PO4,PO6
CO5	Apply concepts for simplifications					PO5,PO6
Mapping with Programme Outcomes:						
CO/PO	PSO					
	1	2	3	4	5	%ofco's
CO1	3	3	2	2	2	2.5
CO2	3	3	3	3	2	2.7
CO3	2	3	3	3	2	2.5
CO4	2	2	3	3	3	2.6
CO5	2	2	3	3	3	2.7
						Average of CO's=2.6(high)

Strongly correlated-3 moderately correlated-2 weakly correlated-1

Course Outcomes		Programme Outcome
CO	On completion of this course, students will	
CO1	Understand the concept of various tags	PO1,PO6
CO2	Understand basic designing	PO2
CO3	Describe the hash function and concepts of Tables ,designing etc	PO2,PO4
CO4	Solve problem involving style sheets	PO4,PO6
CO5	Apply the attributes in designing webpages	PO5,PO6

Mapping with Programme Outcomes:

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	3	3	3	3	3
CO2	3	3	1	3	3	3
CO3	3	3	3	2	3	2
CO4	3	2	3	2	3	3
CO5	3	3	3	3	3	3
Weight age of course contributed to each PSO	15	14	13	13	15	14

S-Strong-3 M-Medium-2L-Low-1

Course Outcomes		Programme Outcome
CO	On completion of this course, students will	
CO1	Understand the concept of network	PO1,PO6
CO2	Understand basic languages	PO2
CO3	Describe the security hash function and concepts of Security methods	PO2,PO4
CO4	Solve problem involving malware	PO4,PO6
CO5	Apply Algorithm for secure network	PO5,PO6

Mapping with Programme Outcomes:

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	3	3	3	3	3
CO2	3	3	1	3	3	3
CO3	3	3	3	2	3	2
CO4	3	2	3	2	3	3
CO5	3	3	3	3	3	3
Weight age of course contributed to each PSO	15	14	13	13	15	14

S-Strong-3 M-Medium-2L-Low-1

**WAVOO WAJEEHA WOMEN'S COLLEGE OF ARTS AND SCIENCE,
KAYALPATNAM**

DEPARTMENT OF INFORMATION TECHNOLOGY

COURSE OUTCOME

B.Sc. Information Technology

Programme Outcomes:	<p>PO1: Disciplinary knowledge: Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate Programme of study</p> <p>PO2: Communication Skills: Ability to express thoughts and ideas effectively; Communicate with others using appropriate media; confidently share one's views; demonstrate the ability to listen carefully, read and write analytically, and present complex information in a clear and concise manner to different groups.</p> <p>PO3: Critical thinking: Capability to apply analytic; analyse and evaluate evidence, arguments, claims, beliefs on the basis of empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach to knowledge development.</p> <p>PO4: Problem solving: Capacity to extrapolate from what one Has learned and apply their competencies to solve different kinds of non-familiar problems and apply to real life situations.</p> <p>PO5: Analytical reasoning: Ability to evaluate the reliability and relevance of evidence; identify logical flaws and holes in the arguments of others; analyze and synthesize data; draw valid conclusions and support them with evidence and examples, and addressing opposing viewpoints.</p> <p>PO6: Research-related skills: A sense of inquiry and capability for asking relevant / appropriate questions ,synthesizing and articulating; Ability to recognize cause- and –effect relationships ,define problems ,formulate and test hypotheses, analyse ,interpret and draw conclusions from data, establish hypotheses ,predict cause-and-effect relationships; ability to plan, execute and report the results of an experiment or investigation</p> <p>PO7: Cooperation/Teamwork: Ability to work effectively and respectfully with diverse teams ;facilitate cooperative or coordinated effort on the part of a group, and act together as a group or a team in the interests of a common cause and work efficiently as a member of a team</p>
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	<p>PO8: Scientific reasoning: Ability to analyse, interpret and draw conclusions from quantitative/qualitative data; critically evaluate ideas, evidence and experiences from an open-minded and reasoned perspective.</p> <p>PO9: Reflective thinking: Critical sensibility to lived experiences, with self-awareness and reflexivity of both self and society.</p> <p>PO10 Information/digital literacy: Capability to use ICT in a variety of learning situations, demonstrate ability to access, evaluate and use appropriate software for analysis of data.</p> <p>PO11 Self-directed learning: Ability to work independently, identify appropriate resources required for a project, and manage a project through to completion.</p> <p>PO12 Multicultural competence: Possess knowledge of the values and beliefs of multiple cultures and a global perspective; and capability to effectively engage in a multicultural society and interact successfully with diverse groups.</p> <p>PO13: Moral and ethical awareness/reasoning: Ability to embrace moral/ethical values in conducting one's life, formulate a position/argument about an ethical issue from multiple perspectives, and use ethical practices in all work. Capable of demonstrating the ability to identify ethical issues, avoid unethical behaviours such as fabrication, falsification or misrepresentation of data or committing plagiarism, not adhering to intellectual property rights; appreciating environmental and Sustainability issues; and adopting objective, unbiased and truthful actions in all aspects of work.</p> <p>PO 14: Leadership readiness/qualities: Capability for mapping out the tasks of a team or an organization, and setting direction, formulating an inspiring vision, building a team who can help achieve the vision, motivating and inspiring team members to engage with that vision, and using management skills to guide people to the right destination, in a smooth and efficient way.</p> <p>PO15: Lifelong learning: Ability to acquire knowledge and skills, including learning "how to learn", through self-paced and self-directed learning aimed at personal development, meeting economic, social and cultural objectives, and adapting to changing trades and demands of work place through Knowledge /skill development/reskilling.</p>
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Programme Specific Outcomes:	<p>PSO1: To enable students to apply basic microeconomic, Macroeconomic and monetary concepts and theories in real life And decision making.</p> <p>PSO2:To sensitize students to various economic issues related To Development, Growth, International Economics, Sustainable Development and Environment.</p> <p>PSO3: To familiarize students to the concepts and theories Related to Finance, Investments and Modern Marketing.</p> <p>PSO4:Evaluate various social and economic problems in the Society and develop answer to the problems as global citizens.</p> <p>PSO5: Enhance skills of analytical and critical thinking to Analyze effectiveness of economic policies.</p>
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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
PSO1	S	S	L	S	S	S	M	S
PSO2	S	S	S	S	S	L	S	S
PSO3	M	S	M	S	M	S	L	S
PSO4	S	S	S	S	S	S	S	S
PSO5	L	S	S	S	S	S	S	M

S–Strong ,M-Medium ,L-Low

CO	Course Outcomes
CO1	Outline the fundamental concepts of C programming languages, and its features
CO2	Demonstrate the programming methodology.
CO3	Identify suitable programming constructs for problem solving.
CO4	Select the appropriate data representation ,control structures, functions and concepts Based on the problem requirement.
CO5	Evaluate the program performance by fixing the errors.

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	2	2	3	2	2
CO2	3	3	2	3	2	2
CO3	3	3	3	3	2	2
CO4	3	3	2	3	2	2
CO5	3	3	2	3	2	2
Weightage of course contributed to each PSO	15	14	11	15	10	10

CC2-1: CORE PRACTICAL I: CPROGRAMMING PRACTICAL

CO	Course Outcomes
CO1	Demonstrate the understanding of syntax and semantics of C programs.
CO2	Identify the problem and solve using C programming techniques.
CO3	Identify suitable programming constructs for problem solving.
CO4	Analyze various concepts of C language to solve the problem in an efficient way.
CO5	Develop a C program for a given problem and test for its correctness.

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	2	2	3	2	2
CO2	3	3	2	3	2	2
CO3	3	3	3	3	2	2
CO4	3	3	2	3	2	2
CO5	3	3	2	3	3	2
Weightage of course contributed to each PSO	15	14	11	15	11	10

CC2-2: Core Practical 2

Mapping With Programme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	M	S	M			M		L
CO2	S	M	S			M		
CO3		S	S		M		L	
CO4			S	L	M		M	
CO5				M		S	M	S

S-Strong M-Medium L-Low

COURSE OUTCOME:

On successful completion of the course ,the learners will be able to

1. Obtain numerical solutions of algebraic and transcendental equations
2. Solve system of linear equations numerically using direct and iterative methods
3. Solve ordinary differential equations
4. Compute integration using Simpson's & Trapezoidal Rule
5. Apply numerical methods in real life problems

CO-PO-PSO Mapping

NUMERICAL METHODS											
CO	PO					PSO					COGNITIVE LEVEL
	1	2	3	4	5	1	2	3	4	5	
CO 1	S	S	S	M	S	S	S	M	S	S	K- 2
CO 2	S	S	M	S	S	S	S	S	S	S	K- 6
CO 3	S	S	M	S	S	S	S	S	S	S	K- 4
CO 4	S	S	M	S	S	S	S	S	S	S	K- 6
CO 5	S	S	M	S	S	S	S	S	S	S	K- 6

Strongly Correlated–S, Moderately Correlated–M, Weekly Correlated-L

COURSE OUTCOMES

On Successful completion of the course, the student will be able to

- CO1:To recall basic concepts for clear understanding of mathematical principles
- CO2:To explain practical problems.
- CO3:To construct matrices using discrete mathematics
- CO4:To analyze techniques to draw graph using mathematics
- CO5:To design graphs using the representations

Mapping with Programme Outcomes:

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	3	3	3	3	3
CO2	3	3	3	3	3	3
CO3	3	3	3	3	3	3
CO4	3	3	3	3	2	3
CO5	3	3	2	3	3	2
Weightage of course contributed to each PSO	15	15	14	15	14	14

S-Strong-3 M-Medium-2 L-Low-1

SEC1: Skill Enhancement Course :1 A

Course Outcomes		Programme Outcomes
CO	On completion of this course ,students will	
CO1	Knows the basic concept in HTML Concept of resources in HTML	PO1,PO2, PO3,PO4, PO5,PO6
CO2	Knows Design concept. Concept of Meta Data Understand the concept of save the files.	PO1,PO2, PO3,PO4, PO5,PO6
CO3	Understand the page formatting. Concept of list	PO1,PO2, PO3,PO4, PO5,PO6
CO4	Creating Links. Know the concept of creating link to email address	PO1,PO2, PO3,PO4, PO5,PO6
CO5	Concept of adding images Understand the table creation.	PO1,PO2, PO3,PO4, PO5,PO6

Mapping with Programme Outcomes:

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	3	3	3	3	3
CO2	3	3	2	3	3	3
CO3	2	3	3	3	3	3
CO4	3	3	3	3	3	3
CO5	3	3	3	2	3	3
Weightage of course Contributed to each PSO	14	15	14	14	15	15

S-Strong-3 M-Medium-2 L-Low-1

SEC1: Skill Enhancement Course: 1B

Course Outcomes		Programme Outcome
CO	On completion of this course, students will	
1	Develop working knowledge of HTML	PO1,PO3,PO6,PO8
2	Ability to Develop and publish Webpages using Hypertext Markup Language (HTML).	PO1,PO2,PO3,PO6
3	Ability to optimize page styles and layout with Cascading Style Sheets (CSS).	PO3,PO5
4	Ability to develop a java script	PO1,PO2,PO3,PO7
5	An ability to develop web application using Ajax.	PO2,PO6,PO7

Mapping with Programme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S		M			L		M
CO2	S	M	L			M		
CO3			S		M			
CO4	S	M	M				L	
CO5		M				L	M	

S-Strong M-Medium L-Low

Foundation Course-I Fundamentals of Computers**FC1:**

CO	Course Outcomes
CO1	Outline the Computer fundamentals and various problem solving concepts in Computers
CO2	Describe the basic computer organization, software ,computer languages ,software development lifecycle and the need of structured programming in solving a Computer problem
CO3	Identify the type soft computer languages, software, computer problems and examine How to setup expressions and equations to solve the problem.
CO4	Choose most appropriate programming languages, constructs and features to solve the Problems in diversified domains.
CO5	Analyze the design of modules and functions in structuring the solution and various Organizing tools in problem solving.

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	2	2	2	2	3
CO2	3	2	2	2	3	2
CO3	3	3	3	3	2	2
CO4	3	2	2	2	2	3
CO5	3	3	2	2	3	2
Weightage Of course contributed to each PSO	15	12	11	11	12	12

FIRSTYEAR-SEMESTER-II

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	2	2	2	2	2
CO2	2	3	2	2	2	2
CO3	2	3	3	3	2	2
CO4	2	3	2	2	2	2
CO5	3	3	2	2	2	2
Weightage of course contributed to each PSO	12	14	11	11	10	10

CC3: Core Course 3: JAVAPROGRAMMING

CO	Course Outcomes
CO1	Outline the basic terminologies of OOP, programming language techniques, JDB C and Internet programming concepts
CO2	Solve problems using basic constructs ,mechanisms, technique sand technologies of Java
CO3	Analyse and explain the behavior of simple programs involving different techniques such as Inheritance, Packages, Interfaces, Exception Handling and Thread and technologies such as JDB C and Servlets
CO4	Assess various problem-solving strategies involved in Java to develop a high-level application.
CO5	Design GUI based JDBC applications and able to develop Servlets using suitable OOP concepts and techniques

C4-1:Java Programming& Data Structures Practical

CO	Course Outcomes
CO1	Identify and explain the way of solving the simple problems
CO2	Use appropriate software development environment to write, compile and execute object-oriented Java programs
CO3	Analyze and identify necessary mechanisms of Java needed to solve real-world problem
CO4	Test for defects and validate a Java program with different inputs
CO5	Design, develop and compile Core Java, GUI,JDBC and servlet applications that Utilize OOP and data structure concepts

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	2	3	3	2	2
CO2	3	3	3	3	2	2
CO3	3	3	3	2	2	3
CO4	3	3	3	3	3	2
CO5	3	3	2	3	2	2
Weightage Of course contributed to each PSO	15	14	14	14	11	11

CC4-2:PHPSCRIPTING– PRACTICAL

CO	Course Outcomes					
CO1	Demonstrate simple programs using PHP and j Query					
CO2	Apply the interface setup, styles & themes for the given application					
CO3	Analyze the problem and add necessary user interface components multimedia Components and web data source into the application					
CO4	Evaluate the results by implementing the correct techniques on the web form					
CO5	Construct web applications with the facilitated components in PHP and j Query					
CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	2	2	3	3	2
CO2	3	3	2	2	2	3
CO3	3	2	3	2	2	3
CO4	3	2	2	2	2	3
CO5	3	2	2	3	2	2
Weightage of course c on tribute to each PSO	15	11	11	12	11	13

EC2A: Elective Course DATA STRUCTURES

THEORY 100%	
CO	Course Outcomes
CO1	Outline the different fundamental concepts of data structures
CO2	Make use of different memory representation for data storage and apply various operations
CO3	Construct an algorithm for different data structure operations.
CO4	Analyse the data structures applications.
CO5	Discover suitable technique stop roved solution for solving the problems.

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	3	2	2	3	3	3
CO2	3	3	2	3	3	3
CO3	3	3	3	3	3	2
CO4	3	3	2	3	3	3
CO5	3	3	2	3	3	2
Weightage Of course contribute to each PSO	15	14	11	15	15	13

S-Strong M-Medium L-Low

Course Outcome:

On successful completion of the course, the learners will be able to CO1. Formulate and solve Linear Programming Problems.

CO2. Analyze the usage of Sequencing Problems. CO3.

Evaluate Queuing Models.

CO4. Apply PERT and CPM techniques of in the optimal solution.

CO-PO-PSO Mapping

OPTIMIZATION TECHNIQUES											
CO	PO					PSO					COGNITIVE LEVEL
	1	2	3	4	5	1	2	3	4	5	
CO1	S	S	S	M	S	S	S	M	S	S	K-2
CO2	S	S	M	S	S	S	S	S	S	S	K-1
CO3	S	S	M	S	S	S	S	S	S	S	K-3
CO4	S	S	M	S	S	S	S	S	S	S	K-5
CO5	S	S	M	S	S	S	S	S	S	S	K-6

Skill Enhancement Course: SEC2A

Course Outcomes		Programme Outcomes
CO	On completion of this course, students will	
1	Describe the different physical forms of robot architectures.	PO1
2	Kinematic ally model simple manipulator and mobile robots.	PO1,PO2
3	Mathematically describe a kinematic bot system	PO4,PO6
4	Analyze manipulation and navigation problems using knowledge of coordinate frames, kinematics, optimization, control, and uncertainty.	PO4,PO5,PO6
5	Program robotics algorithms related to kinematics, control, optimization, and uncertainty.	PO3,PO8

Mapping with Programme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6
CO1	S					
CO2	M	S				
CO3				S		S
CO4				S	S	M
CO5			S			

S-Strong M-Medium L-Low

Skill Enhancement Course : SEC2B

Course Outcomes		Programme Outcome
CO	On completion of this course, students will	
1	Understand the concepts, application and the problems of numbers	PO1
2	To have basic knowledge and understanding about percentage, profit& loss related processing's	PO1,PO2
3	To understand the concepts of time and work	PO4,PO6
4	Speaks about the concepts of probability, discount	PO4,PO5,PO6
5	Understanding the concept of problem solving involved in stocks & shares, graphs	PO3,PO8

Mapping with Programme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S							
CO2	M	S						
CO3				S		S		
CO4				S	S	M		
CO5			S					S

S-Strong M-Medium L-Low

Skill Enhancement Course : SEC3A

Course Outcomes		Program Outcomes
CO	On completion of this course, students will	
1	Students learn to apply software testing knowledge and engineering methods	PO1
2	Have an ability to identify the needs of software test Automation ,and define and develop a test tool to	PO1,PO2
	Support test automation.	
3	Have an ability understand and identify various software testing problems, and solve these problems by designing and selecting software test models ,criteria ,strategies, and methods.	PO4,PO6
4	Have basic understanding and knowledge of contemporary issues in software testing, such as component-based software testing problems	PO4,PO5,PO6
5	Have an ability to use software testing methods and modern software testing tools for their testing projects.	PO3,PO8

Mapping with Programme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S							
CO2	M	S						
CO3				S		S		
CO4				S	S	M		
CO5			S					S

Skill Enhancement Course : SEC3B

Course Outcomes		Programme Outcomes
CO	On completion of this course students will	
1	Understand the definition of computer forensics fundamentals.	PO1
2	Evaluate the different types of computer forensics technology.	PO1,PO2
3	Analyze various computer forensics systems.	PO4,PO6
4	Apply the methods for data recovery, evidence collection and data seizure.	PO4,PO5,PO6
5	Gain your knowledge of duplication and preservation of digital evidence.	PO3,PO8

Mapping with Programmed Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	S							
CO2	M	S						
CO3				S		S		
CO4				S	S	M		
CO5			S					S

S-Strong M-Medium L-Low