

D.S GOVERNMENT COLLEGE FOR WOMEN

OUTCOME BASED EDUCATION

CO- PO ATTAINMENT REPORT

CO- PO MAPPING, COMPUTATION AND ANALYSIS

PROGRAM WISE & COURSE WISE ANALYSIS



DEPARTMENT OF COMPUTER SCIENCE

SEMESTER I
INFORMATION TECHNOLOGY
B. Com (CA)

PROGRAMME OUTCOMES
(Common to all UG Programmes)

PO no.	On the completion of a Programme, The students will be able to	Benchmarks	Remarks
PO1	Acquire a comprehensive understanding of domain-specific knowledge and demonstrate their acquired skills effectively during practical transactions within the specific domain.	70%	
PO2	Demonstrate proficient analytical and problem-solving skills through the application of critical thinking strategies to address real-world situations effectively.	60%	
PO3	Master effective communication, collaborate skilfully with diverse stakeholders, nurture meaningful dialogues, build strong professional bonds in and beyond college	60%	
PO4	Exhibit proficiency in ethically using information from diverse sources, analysing and synthesizing data effectively for real-world research.	50%	
PO5	Exemplify ethical standards in personal and professional contexts, appreciate diverse cultures, evaluate social responsibility's impact on well-being, and advocate for women students' betterment.	70%	
PO6	Actively promote social awareness through community service, contributing to a more inclusive and compassionate global community.	80%	Designed for CSP
PO7	Embrace continuous learning, create professional growth chances, and prioritize personality development and physical well-being for a holistic approach.	60%	
PO8	Foster self-confidence, advocate women empowerment, demonstrate expertise for growth in studies, employment, and entrepreneurship, creating a brighter and equitable future.	80%	Designed for Internships

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Programme Specific Outcomes (PSO)

B. Com (CA)

PSO-No	Upon the successful completion of B.Com., degree with Computer Application as one of the subject, the students will be able to:	Mapping with POs
PSO - 1	Understand the social impact of business and apply ethical considerations to technology integrated business practices.	PO1
PSO - 2	Acquire accounting knowledge and skills for effective financial management, utilizing computer applications for accurate record-keeping.	PO4
PSO - 3	Develop entrepreneurial, managerial, and legal proficiencies, integrating computer application skills to enhance business operations..	PO8
PSO - 4	Enhance communication abilities for successful interactions in business and personal contexts, guided by ethical principles.	PO2
PSO-5	Develop competence in utilizing computer applications for data analysis and effective problem solving with in the context of commerce and business applications.	PO8
PSO-6	Foster ethically aware and socially responsible business standards, while utilizing computer applications to streamline process and make informed decisions.	PO8



Levels of attainment of PO

POs & PSOs attainment are characterized in to 3 levels

Level 3 – High

Level 2 – Medium

Level 1 – Low Not addressed

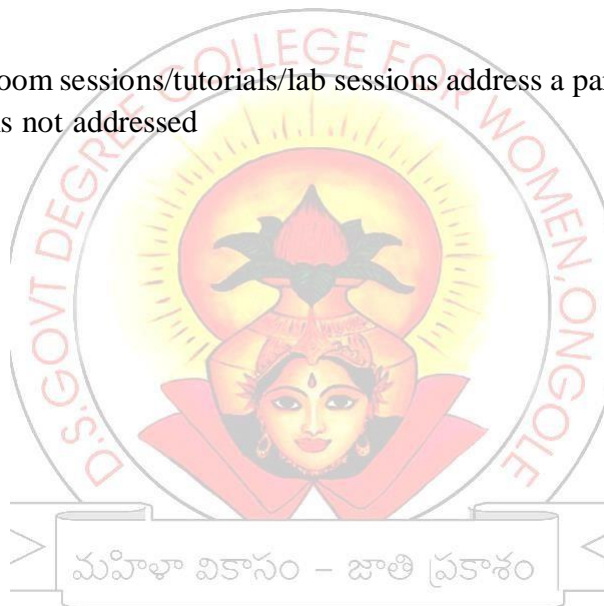
Targets/ benchmarks for the level at which a PO is addressed

If 50% of classroom sessions/tutorials/lab sessions address a particular PO, it is considered that the PO is addressed at Level 3

If 25% to 49% (less than 50% and rounded off to two decimals) of classroom sessions/tutorials/lab sessions address a particular PO, it is considered that the PO is addressed at Level 2

If 5% to 24% (less than 25% and rounded off to two decimals) of classroom sessions/tutorials/lab sessions address a particular PO, it is considered that the PO is addressed at Level 1

If less than 5% of classroom sessions/tutorials/lab sessions address a particular PO, it is considered that the PO is not addressed



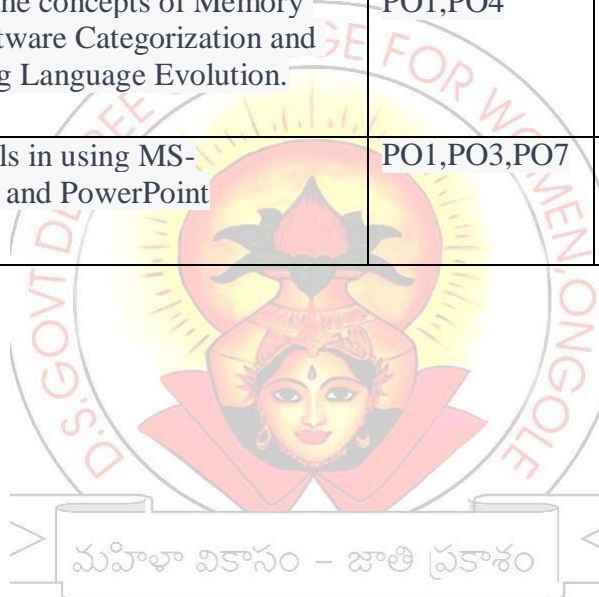
Semester I

Course: Information Technology

Programme: B.Com(CA)

Faculty concerned : Smt. M.Hema

CO No	Upon the successful completion of the course students will be able to	PO's/PSO's	Cognitive level
CO-1	Understand the concepts of Computer Fundamentals	PO1,PO2,	L1,L2,L3
CO-2	Understand the concepts of Memory Systems,Software Categorization and Programming Language Evolution.	PO1,PO4	L1,L2
CO-3	Develop skills in using MS-Word,Excel and PowerPoint	PO1,PO3,PO7	L4,L5,L6



Mid 1 Question paper

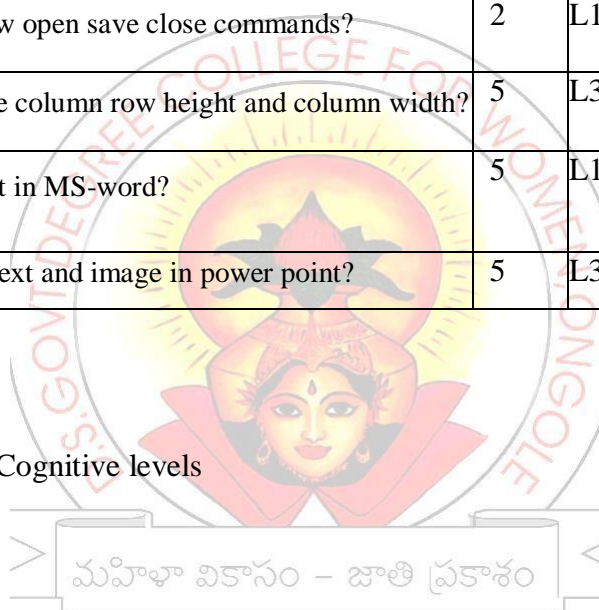
Question number	Question	MA	CL	CO mapped
1	Draw a neat sketch of computer functionalities	5	L6	CO3
2	Explain the applications of computer.	5	L2	CO1
3	Describe memory? Explain about features of secondary memory	5	L1,L2	CO1
4	Name and explain Input devices	2	L1	CO1
5	Describe primary memory	2	L1	CO1
6	Differentiate generations of a computer	2	L4	CO2
7	Construct the cache memory representation	2	L6	CO3
8	Describe about Software	2	L1	CO1
9	List out programming languages	2	L1	CO1
10	Identify the characteristics of a computer	2	L4	CO2
11	Identify input device?		L4	CO2
12	RAM stands for?	0.5	L1	CO1
13	How many types of memory are there?	0.5	L1	CO1
14	What is the example of a binary number?	0.5	L2	CO1
15	Types of RAM?	0.5	L4	CO2
16	How many keys are there on the keyboard?	0.5	L4	CO2
17.	Expand OS	0.5	L3	CO2
18	How many generations can a computer be classified?	0.5	L1	CO1
19	What is the meaning of DRAM?	0.5	L4	CO2
20	Which of the following fast access memory?	0.5	L1	CO1

MA: Marks allotted, CL: Cognitive levels

Mid 2 Question paper

Question number	Question	MA	CL	CO mapped
1	Explain the process of creating mail merge in Microsoft word?	2	L2	CO1
2	Demonstrate macro's in MS -Excel?	2	L3	CO2
3	Explain about word processing.	2	L2	CO1
4	How to create a table?	2	L6	CO3
5	How to insert clip art and pictures in Ms word?	2	L3	CO2
6	How to manage the MS-Excel workbook ?	2	L3	CO2
7	Explain the new open save close commands?	2	L1	CO2
8	How to change column row height and column width?	5	L3	CO2
9	How to edit text in MS-word?	5	L1	CO1
10	How to insert text and image in power point?	5	L3	CO2

MA: Marks allotted CL: Cognitive levels



Assignments

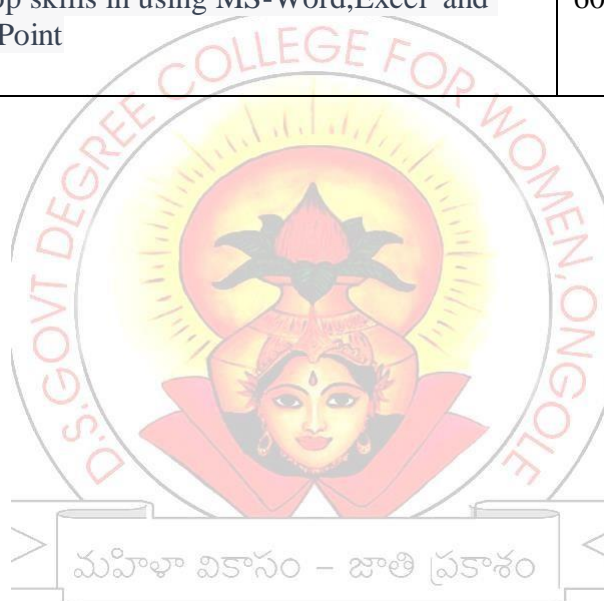
Assignment No	Assignment Questions	Assigned to	Bloom's cognitive levels	CO mapped
A1	Classification of Computer	Total class	L4	CO2
A2	Explain the different types of Computer memories	Total class	L2	CO1
A3	What is formatting MS-Word	Total class	L3	CO2
A4	How to inserting ,deleting rows, columns in cell	Total class	L2	CO1
A5	How to create different types of point presentation	Total class	L6	CO 3



Information Technology

Computation of CO attainment: Benchmarks for the attainment of COs:

CO. No	Upon the successful completion of the course, students will be able to	Targets
CO - 1	Understand the concepts of Computer Fundamentals	60%
CO - 2	Understand the concepts of Memory Systems, Software Categorization and Programming Language Evolution.	60%
CO - 3	Develop skills in using MS-Word, Excel and PowerPoint	60%



Levels of overall CO attainment for a Course:

S.No	Range of average attainment of all COs	Level of attainment
1	Greater than or equal to 60	3
2	Between 50 and 60	2
3	Between 40 and 50	1
4	Less than or equal to 40	CO not at all attained

1. Weightages assigned:

Weightage to CIA = 50%,

Weightage to SEE = 50%

Weightage to each item in

CIA Mid 1 = 40%

Mid 2 = 30%

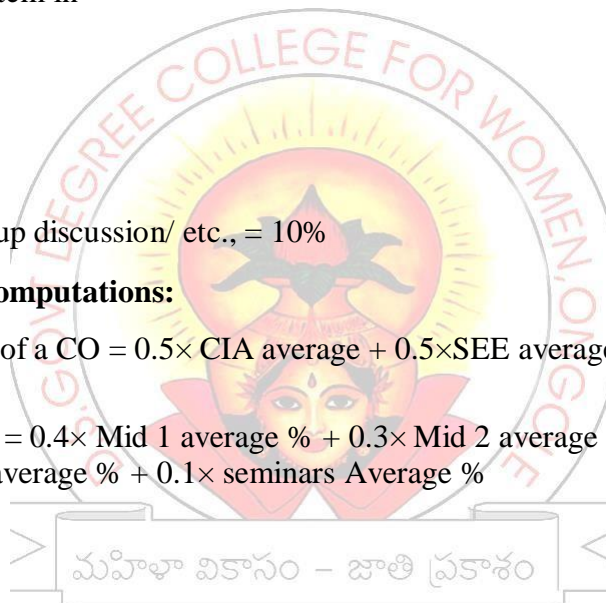
Assignments = 20%

Seminar/ Quiz/ Group discussion/ etc., = 10%

Formulae for the computations:

i) Direct attainment of a CO = $0.5 \times \text{CIA average} + 0.5 \times \text{SEE average}$

ii) CIA average (%) = $0.4 \times \text{Mid 1 average \%} + 0.3 \times \text{Mid 2 average \%} + 0.2 \times \text{Assignments average \%} + 0.1 \times \text{seminars Average \%}$

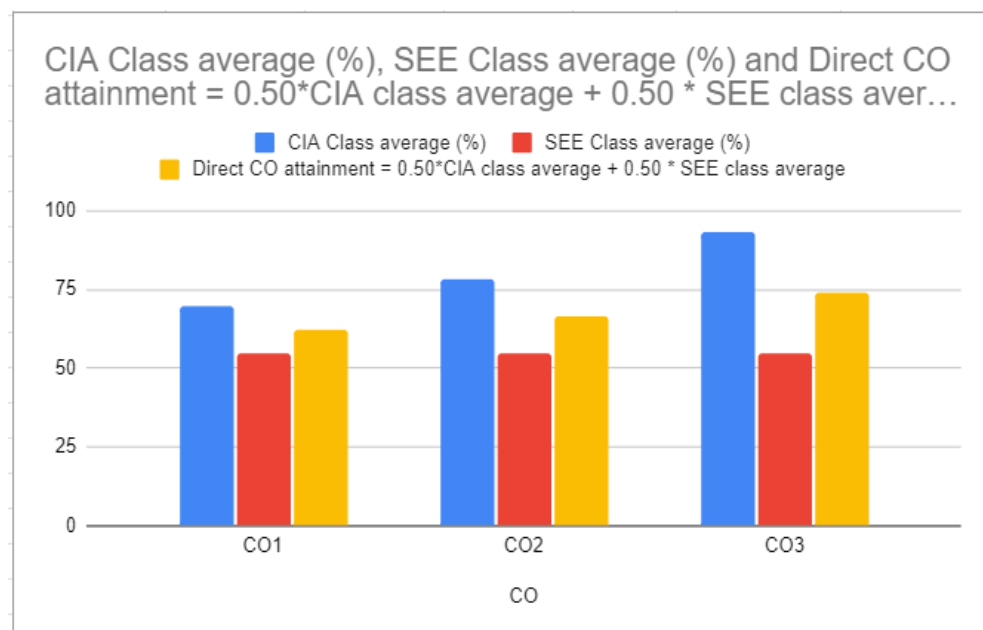


Class Average Percentage in CIA

CO	Class Average				
	Mid 1	Mid 2	Assignments	SEMINAR	CIA average %
CO1	70.86	70.7215	100		69.560
CO2	82	84.4	100		78.12
CO3	84	99.38	100	100	93.414

Direct attainment of Cos

CO	CIA Class average(%)	SEE Class average(%)	Direct CO attainment = $0.50 \times \text{CIA class average} + 0.50 \times \text{SEE class average}$
CO1	69.560	54.70909091	62.13
CO2	78.12	54.70909091	66.41
CO3	93.414	54.70909091	74.06



Analysis of the results:

CO attainment gap

CO	CO target %	CO attainment %	CO attainment gap	Attained or not attained
CO1	60	62.13	2.13	Attained
CO2	60	66.41	6.41	Attained
CO3	60	74.06	14.06	Attained

Plan of action (Closure of the quality loop)

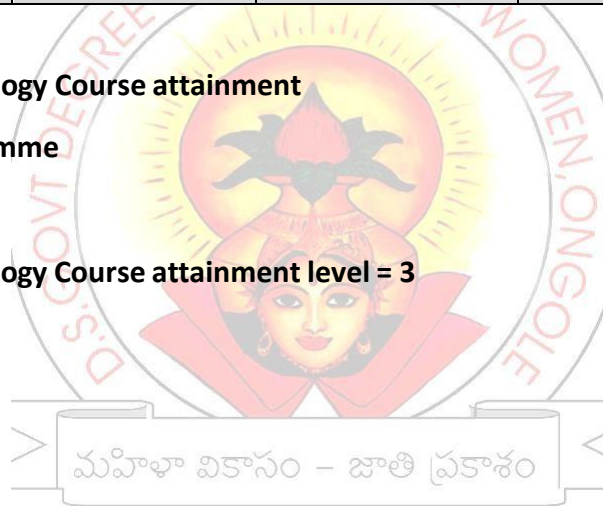
CO	Target %	CO attainment gap %	Action proposed to bridge the gap	Modification of target where achieved
CO1	60	2.13	No gap	Increase targets to 70%
CO2	60	6.41	No gap	Increase targets to 70%
CO3	60	14.06	No gap	Increase targets to 70%

Information Technology Course attainment

value for the programme

B.Com(CA)= 67.53

Information Technology Course attainment level = 3



Computation of attainment of POs

Number of sessions or hours of instruction (class sessions, lab sessions, tutorials etc.,)used to address the COs:

CO. No	Upon the successful completion of the course, students will be able to	POs/PSOs mapped	cognitive level	Class sessions
CO-1	Understand the concepts of Computer Fundamentals	PO1,PO2,	L1,L2,L3	25
CO-2	Understand the concepts of Memory Systems,Software Categorization and Programming Language Evolution.	PO1,PO4	L1,L2	35
CO-3	Develop skills in using MS-Word,Excel and PowerPoint	PO1,PO3,PO7	L4,L5,L6	30
Total Hours of instruction				90

Number of hours spent to address the POs

PO	COs	Total number of sessions
PO1	CO1, CO2,CO3	20+10+5 =35
PO2	CO1	25
PO3	CO3	15
PO4	CO2	10
PO7	CO3	5
No. of Hours		90

PO mapping strength:

PO	Number of hours consumed	Total number of hours allotted	Percentage	Mapping strength
PO1	35	90	38.88	2
PO2	25	90	27.77	2
PO3	15	90	16.66	1
PO4	10	90	11.11	1
PO5	0	0	0	0
PO6	0	0	0	0
PO7	5	90	5.55	1
PO8	0	0	0	0

Direct Attainment of PO

PO	COs mapped	Mapping strength	CO attainment percentage			PO attainment percentage
			CO1	CO2	CO3	
PO1	CO1, CO2, CO3	2	69.56	78.12	93.414	53.576
PO2	CO1	2	69.56			15.45
PO3	CO3	1			93.414	10.379
PO4	CO2	1		78.12		8.68
PO5						
PO6						
PO7	CO3	1			93.414	10.379
PO8						

Lecturer

Lecturer in Charge

Coordinator
OBE/ Addl. Coordinator
IQAC

Principal