CO-PO ATTAINMENT

Details of the course

Course Name – TYBCOM SEM VI (COMPUTER SYSTEM AND ITS APPLICATION VI)

Total no. of students = 119

Course Code: 83020

Course Objective: develop an understanding of how computing technology presents new ways to address problems; and to use computational thinking to analyse problems and to design, develop and evaluate solutions. read, write, test, and modify computer programs.

Course Outcomes (COs):

CO1: The students will able to examine the current E-commerce business and threats facing organizations that conduct business online and also discuss the cryptography and related security techniques.
CO2: The student will be able to execute and compare the different database functions (LOOKUP, VLOOKUP, HLOOKUP), conditional logic functions (IF, Nested IF, COUNTIF, SUMIF) and string functions (LEFT, RIGHT, LEN, UPPER, LOWER, PROPER, TRIM, FIXED) in excel.
CO3: The student will be able to demonstrate the use of different Date, Statistical functions and data analysis Using Scenarios, Goal Seek, Solver and executing Macros.
CO4: The student will be able to create a simple visual basic project using different visual basic controls, variables, constant, decision and Condition statement, sub procedures

S.E.M.T'S

MOINUDDIN B. HARRIS COLLEGE OF ARTS,
A.E.KALSEKAR COLLEGE OF COMMERCE & MANAGEMENT.
(Affiliated to the University of Mumbai)
SOPARA GAON, SOPARA (W), Vasai, Dist- Palghar
PIN - 401 203, (MAHARASHTRA)

NAAC Accreditation : 'B++'

Program Outcomes (PO) and Program Specific Outcomes (PSO).

PSO1: Demonstrate progressive knowledge of accounting, finance, marketing, human resource management, taxation, business laws and international business. Students will demonstrate progressive affective domain development of values, the role of accounting in society and business.	PO1 · Acquire the knowledge of accounting fundamentals, finance, marketing, human resource management, taxation, business laws and international business to the solution of accounting & management problems.
	PO2. Identify and formulate know-how on socio – economic problems to arrive at substantiated conclusions using principles and theories of commerce and accounting. PO3 · Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern statistical tools & software.
PS02: Develop accounting career skills applying both quantitative and qualitative knowledge to their future careers in Commerce.	PO4. Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional accounting practice and management practice
	PO5 · Understand the impact of the professional accounting and management solutions in societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development.
	PO6 · Apply ethical principles and commit to professional ethics and responsibilities and norms of the accounting and commerce practices.

S.E.M.T'S

**MOINUDDIN B. HARRIS COLLEGE OF ARTS,
A.E.KALSEKAR COLLEGE OF COMMERCE & MANAGEMENT.
(Affiliated to the University of Mumbai)
SOPARA GAON, SOPARA (W), Vasai, Dist- Palghar
PIN - 401 203, (MAHARASHTRA)**
NAAC Accreditation : 'B++'

PSO3: Develop proficiency with the ability to engage in competitive exams like CA, CS, ICWA and other courses	PO7. Function effectively as an individual, and as a member or leader in teams, and in multidisciplinary settings to accomplish finance and management practices.
	PO8 · Communicate effectively with the accounting professional & IT community and with society at large.
	PO9 · Demonstrate knowledge and understanding of management & commercial principles and apply these to one's own work, as a member and leader in a team. Manage project in multidisciplinary environments.
	PO10 · Recognize the need for and have the preparation and ability to engage in independent and life – long learning in the broadest context of technological change.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	1	-	3	1	-	1	-	-	1	3	1	3	2
CO2	-	1	3	-	1	-	2	3	2	3	3	1	1
CO3	2	-	3	-	-	1	2	3	2	3	2	3	3
CO4	3	-	3	-	-	-	2	3	3	3	2	2	3
Average	0.86	0.25	3	0.25	0.25	0.5	1.5	2.25	2	3	2	2.25	2.25

Here in the table, **'3'** corresponds to a high correlation; **'2'** corresponds to a medium correlation, and **'1'** corresponds to a low correlation, between CO and PO/PSO.
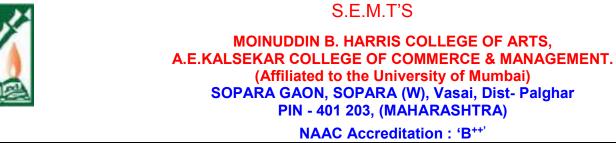
Table for CO attainment calculations.

CO Attainment Calculations			
	Direct assessment		Indirect Assessment
	Internal	External	
	CIA	ESE	Course Exit Survey
Number of students who have scored more than the target (P) *(Target is 60%)*	114	112	94
Percentage of students who have achieved the target = (P/N)*100 *(N is the number of students who appeared in the exam)*	95.8%	94.12%	79%
A) Attainment Level (3 for >80%, 2 for >70%, 1 for> 60%)	a = 3	b = 3	c = 2
B) Attainment based on internal assessment (CIA) CIA = 3			
C) Direct CO Attainment Level (DA) =40%CIA + 60% End-Term (c) ; DA = 1.2+1.8=3			
D) Indirect CO Attainment Level (IA) (based on Exit Survey (d)); IA = 2			
80 % of DA = 2.4			
20 % IA = 0.40			
CO Attainment Level (COA) = 80 % DA+ 20 % IA; COA = 2.80			

S.E.M.T'S

MOINUDDIN B. HARRIS COLLEGE OF ARTS,
A.E.KALSEKAR COLLEGE OF COMMERCE & MANAGEMENT.
(Affiliated to the University of Mumbai)
SOPARA GAON, SOPARA (W), Vasai, Dist- Palghar
PIN - 401 203, (MAHARASHTRA)
NAAC Accreditation : 'B++'

Calculation of Course Outcome attainment (COA) level:

A: Assign the attainment level (3 for>80%/ 2 for >70%/ 1 for>60%) for Direct Assessment and Indirect Assessment.

B: Attainment based on Internal Assessment

C: Direct CO Attainment Level (DA) =40%CIA + 60% End-Term (c)

D: Indirect CO Attainment Level (IA)

E: Course Outcome Attainment (COA) level = 80% of DA and 20% of IA

PO/PSOATTAINMENT CALCULATIONS

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
AVERAGE MAPPING (M)	0.86	0.25	3	0.25	0.25	0.5	1.5	2.25	2	3	2	2.25	2.25
PO/PSO ATTAINMENT LEVEL	0.81	0.23	2.8	0.23	0.23	0.47	1.4	2.1	1.87	2.8	1.87	2.1	2.1

PO/PSO ATTAINMENT= COA X M/3