



# **Program Code: PCC**

# 2021-2022 onwards



# MANNAR THIRUMALAI NAICKER COLLEGE

(AUTONOMOUS) Re-accredited with "A" Grade by NAAC PASUMALAI, MADURAI – 625 004

#### Eligibility

Admission for M.Com (CA) Program is open to the candidates having Bachelor Degree in B.Com (CA), B.Com, Management, Corporate Secretarial ship and other related program of any recognized university.

#### **Duration of the Course**

The duration of the course shall be two academic year comprising four semesters with two semesters in each academic year.

#### Subjects of Study

The courses offered under the PG programs belong to the following categories:

- 1. Core Subjects
- 2. Electives
- 3. Non Major Electives (NME)

#### Pattern of the question paper for the Continuous Internal Assessment Note: Duration – 1 hour 30 minutes

The components for continuous internal assessment are: Part –A Four multiple choice questions (answer all) 4 x01= 04 Marks Part –B 3 x02 = 06 MarksThree short answers questions (answer all) Part –C Two questions ('either .... or 'type) 2 x 05=10 Marks Part –D Two questions out of three  $2 \ge 10 = 20$  Marks \_\_\_\_\_ Total 40 Marks \_\_\_\_\_

#### The scheme of Examinations

The components for continuous internal assessment are:

(40 M	arks of two	continuous	internal	assessments	will be	converted to	15 marks)
Turo	tasts and th	oir overege	14	mortes			

I wo lesis and then average	15 marks
Seminar /Group discussion	5 marks
Assignment	5 marks
Total	25 Marks

Pattern of the question paper for the Summative Example.	ninations:	
Note: Duration- 3 hours		
Part –A		
Ten multiple choice questions	10 x01	= 10 Marks
No Unit shall be omitted: not more than two questions from	om each unit	.)
Part –B		
Short answer questions (one question from each unit)	5 x02	= 10 Marks
Part –C		
Five Paragraph questions ('either or 'type)	5 x 05	= 25 Marks
(One question from each Unit)		
Part –D		
Three Essay questions out of five	3 x 10	=30 Marks
(One question from each Unit)		
Total		75 Marks

### Minimum Marks for a Pass

50% of the aggregate (Internal +Summative Examinations).

No separate pass minimum for the Internal Examinations.

34 marks out of 75 is the pass minimum for the Summative Examinations.

#### VISION

To promote the department of commerce as a "Research Centre with Excellence" in Commerce and create the Professionals with Ethical values

#### MISSION

- To achieve academic excellence by providing knowledge about contemporary aspects in commerce education
- To equip the students to emerge as an efficient and ethical Business Consultants, Chartered Accountants and Business Managers
- To establish an industry-academia interface for generating advanced opportunities for the students
- > To create an urge in students to take up entrepreneurship
- > To involve in projects leading to high-quality research

The 12 Graduate Attributes\*:

- 1. (KB) A knowledge base for engineering: Demonstrated competence in university level mathematics, natural sciences, engineering fundamentals, and specialized engineering knowledge appropriate to the program.
- 2. (PA) Problem analysis: An ability to use appropriate knowledge and skills to identify, formulate, analyze, and solve complex engineering problems in order to reach substantiated conclusions
- 3. (Inv.) Investigation: An ability to conduct investigations of complex problems by methods that include appropriate experiments, analysis and interpretation of data and synthesis of information in order to reach valid conclusions.
- 4. (Des.) Design: An ability to design solutions for complex, open-ended engineering problems and to design systems, components or processes that meet specified needs with appropriate attention to health and safety risks, applicable standards, and economic, environmental, cultural and societal considerations.
- 5. (Tools) Use of engineering tools: An ability to create, select, apply, adapt, and extend appropriate techniques, resources, and modern engineering tools to a range of engineering activities, from simple to complex, with an understanding of the associated limitations.
- 6. (Team) Individual and teamwork: An ability to work effectively as a member and leader in teams, preferably in a multi-disciplinary setting.
- 7. (Comm.) Communication skills: An ability to communicate complex engineering concepts within the profession and with society at large. Such ability includes reading, writing, speaking and listening, and the ability to comprehend and write effective reports and design documentation, and to give and effectively respond to clear instructions.

- 8. (Prof.) Professionalism: An understanding of the roles and responsibilities of the professional engineer in society, especially the primary role of protection of the public and the public interest.
- 9. (Impacts) Impact of engineering on society and the environment: An ability to analyze social and environmental aspects of engineering activities. Such ability includes an understanding of the interactions that engineering has with the economic, social, health, safety, legal, and cultural aspects of society, the uncertainties in the prediction of such interactions; and the concepts of sustainable design and development and environmental stewardship.
- 10. (Ethics) Ethics and equity: An ability to apply professional ethics, accountability, and equity.
- 11. (Econ.) Economics and project management: An ability to appropriately incorporate economics and business practices including project, risk, and change management into the practice of engineering and to understand their limitations.
- 12. (LL) Life-long learning: An ability to identify and to address their own educational needs in a changing world in ways sufficient to maintain their competence and to allow them to contribute to the advancement of knowledge

WA	Graduate Attributes	Caption as
1	A knowledge base for engineering: Demonstrated competence in	Knowledge
	university level mathematics, natural sciences, engineering	Base
	fundamentals, and specialized engineering knowledge appropriate to	
282	the program.	Duelalaus
283	Problem analysis: An ability to use appropriate knowledge and skills	A polyoio &
	numbers in order to reach substantiated conclusions	Analysis &
	Investigation: An ability to conduct investigations of complex	Investigation
	problems by methods that include appropriate experiments analysis	
	and interpretation of data and synthesis of information in order to	
	reach valid conclusions.	
4&7	Design: An ability to design solutions for complex. open-ended	Communication
	engineering problems and to design systems, components or processes	Skills & Design
	that meet specified needs with appropriate attention to health and	C
	safety risks, applicable standards, and economic, environmental,	
	cultural and societal considerations.	
	Communication skills: An ability to communicate complex	
	engineering concepts within the profession and with society at large.	
	Such ability includes reading, writing, speaking and listening, and the	
	ability to comprehend and write effective reports and design	
	documentation, and to give and effectively respond to clear	
	Instructions.	T 1' ' 1 1 1
0	Individual and teamwork: An ability to work effectively as a member	Individual and
00-10	Drofossionalism: An understanding of the roles and responsibilities of	Drafaggionaligm
8010	the professional engineer in society especially the primery role of	Ethics
	protection of the public and the public interest	, Eunics and
	Ethics and equity. An ability to apply professional ethics	equity
	Lenes and equity. An ability to apply professional ethes,	<u> </u>

accountability, and equity.	
12 Life-long learning: An ability to identify and to address their own Lifelong educational needs in a changing world in ways sufficient to maintain their competence and to allow them to contribute to the advancement of knowledge	

	PROGRAM EDUCATIONAL OBJECTIVES (PEOs)
PEO1:	Toacquireentrepreneurialandmanagerialskillstobecomeasuccessfulentrepreneurof
	Micro to Large scale industries.
PEO2:	$\label{eq:constraint} To cultivate the students in intellectual, personal, interpersonal and societal skills with a standard st$
	Focus on relevant professional career to maximize professional growth.
PEO3:	To acquire practical skills to work on ICT environment.
	To Train and develop students with the much needed business education to take up
<b>PEO4</b> :	higher
	Education and professional/competitive exams.
PEO5:	To transform the student into ethically & socially responsible professionals through
	Excellence.
PEO6:	To involve in continuous learning process for attaining economic goals of self, family
	and society

PO NO	PROGRAMME OUTCOMES (POs)	
At the end		
PO – 1	Integrate the academic abilities and expertise gained from the study of humanities and arts and other similar fields, and gains requisite scope and breadth for a transdisciplinary context.	Knowledge Base
PO – 2	Demonstrate proficiency in the use of effective disciplinary techniques in research, critical study, artistic work and professional performance.	Problem Analysis & Investigation
PO – 3	Communicate observations, recommendations and suggestions effectively, concisely and accurately, both verbally and in writing, to various types of audiences.	Communication Skills & Design
PO - 4	Articulate and apply principles, concepts, ethics and ideals resulting from an integrated view of their fields of research and to show knowledge and resolution of existing social and environmental issues.	Individual and Team Work
PO - 5	Apply professional ethics, accountability and equity in all their endeavours.	Professionalism, Ethics and Equity
PO - 6	Use new tools, resources and technology to keep abreast with current developments in their discipline and practice life-long learning.	Lifelong learning

	PROGRAM SPECIFIC OUTCOME (PSOs)						
PSO1:	Comprehend the concepts and applications of commerce in the areas related to Finance,						
	Marketing, entrepreneurship, HR, Logistics and supply chain etc.,						
PSO2:	Apply the learning from the courses and develop strategies for business issues.						
PSO3:	Utilize the advanced developments by using modern techniques such as Tally ERP and						
12000	SPSS for growth and development of organization as well as nation.						
PSO4:	Competent to pursue CA, CS, CFA, CMA, B.Ed. Ph.D and also can appear on National						
	And State Eligibility Test.						
PSO5:	Analyze and evaluate the operation of the business related issues and Communicate						
	Professionally and face challenges ethically with concern to social welfare						
PSO6:	Excel in contemporary knowledge of business and provide to the manpower needs of						
	companies.						

# **Bloom's Taxonomy**



## MANNAR THIRUMALAI NAICKER COLLEGE (Autonomous), Pasumalai

### M.Com.,CA., Curriculum

(For the student admitted during the academic year 2021-2022 onwards)

Course	Title of the Course	Ung	Credita	Maximum Marks					
Code	The of the Course	пrs	Creatis	Int	Ext	Total			
	FIRST SEMESTER								
PART - III	Core Courses								
21PCCC11	Advanced Financial Accounting	6	4	25	75	100			
21PCCC12	Tally ERP 9	6	4	25	75	100			
21PCCC13	Quantitative Methods	6	4	25	75	100			
21PCCC14	Security Analysis And Portfolio Management	6	4	25	75	100			
21PCCC15	Insurance And Risk Management	6	4	25	75	100			
	Total	30	20	125	375	500			
	SECOND SEMES	ГER							
Part - III	Core Courses								
21PCCC21	Applied Costing	6	4	25	75	100			
21PCCC22	<b>Business Research Methods</b>	6	4	25	75	100			
21PCCC23	Applied Operations Research	6	4	25	75	100			
21PCCC24	Applied E-Commerce	6	4	25	75	100			
Part IV	Non Major Elective Course								
21PCCNP1	Advanced Excel - Lab	6	6	40	60	100			
	Total	30	22	140	360	500			

THIRD SEMESTER								
Part - III	Core Courses							
21PCCC31	Advanced Corporate Accounting	6	4	25	75	100		
21PCCC32	Accounting for Management	6	4	25	75	100		
21PCCC33	Direct Taxes	6	4	25	75	100		
	Elective 1							
21PCCE31	Programming in Python							
21PCCE32	Programming with PHP	6	6	25	75	100		
21PCCE33	Visual Programming							
	Elective 2							
21PCCEP1	Programming in Python – Lab							
21PCCEP2	Programming with PHP – Lab	6	6	40	60	100		
21PCCEP3	Visual Programming - Lab							
	Total	24	140	360	500			
FOURTH SEMESTER								
Part - III	Core Courses							
21PCCC41	Indirect Tax	6	4	25	75	100		
21PCCC42	Advanced Financial Management	6	4	25	75	100		
21PCCPR1	Project	6	4	40	60	100		
	Elective 3							
21PCCE41	Database Management System							
21PCCE42	Web Technology	6	6	25	75	100		
21PCCE43	Programming in Vb.Net							
	Elective 4							
21PCCEP4	Database Management System-Lab							
21PCCEP5	Web Technology Lab	6	6	40	60	100		
21PCCEP6	Programming in Vb.Net-Lab							
	Total	30	24	155	345	500		
	Grand Total	120	90	560	1440	2000		







# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

Course Name	Ad	dva	nced Financ	cial Accountin	g					
Course Code	21	IPC	CC11		-			L	P	C
Category	Co	ore						6	-	4
Nature of CourseEMPLOYABILITY✓SKILL ORIENTEDENTREPRENEURSH								SHI	Р	
Course Objectives:										
<ol> <li>Familiarize with the fundamental aspects of financial accounting standards.</li> <li>Prepare income and expenditure accounts and balance sheets of non-trading concerns.</li> <li>Prepare the branch accounts and departmental accounts.</li> <li>Accumulate knowledge and accounting skills required for calculating loss of stock and loss of profit.</li> <li>To inculcate skills in preparing their application to lease accounting and human resource accounting</li> </ol>									it. g.	
Unit: I Ac	cour	ntir	ng Standard	S					18	8
Indian and In 1,2,7,16,19,23 Disadvantages	terna and -The	atio 1 A eory	onal Accoun An overview y only.	ting Standards of IFRS- A	s – Applic	Accounting Standards ation – Scope – For	2,3,6,9,10,16 a rmulation – Ad	and 1 dvant	Ind age	As es –
Unit: II Ac	cour	ntir	ng of Not for	Profit Organ	izatio	n			18	3
Introduction -	Fina	al a	accounts of	Not for Prof	it Or	ganization –Receipts	and Payments-	Incor	ne	and
Expenditure Ac	cou	int a	and Balance S	Sheet.					1	
Unit: III Br	anch	h a	nd Departn	nental Accour	ntsH	lire purchase and ins	stallment purcl	nase	18	8
Branch Acces	systems									
Accounts- Mea hire Purchase S Meaning Accounts	ining Syste Intin	g of em- ng ti	departmenta Meaning- A reatment for	al accounting real Accounting treat installment.	need f atmer	or departmental account t for hire purchase sys	nting –Accounti tem – Installme	ng m nt Sy	eth /ste	ods- em –
Unit: IV Ins	sura	ince	e Claims						18	8
Meaning– Need – Importance of Insurance Claim – Loss of profit Policy - Difference between Fire Insurance Policy and Loss of Profit Policy – Computation of claim for Loss of Profit Policy — Loss of Stock Policy - Average clause.										
Meaning- Impo	ortan	nt F	features of a	lease _Types-	Advar	ntages and Disadvantag	es-Lease distino	nishe	h h	rom
other modes of Human Resour	acq ces A	juisi Acc	itions- Metho counting - So	ods of Account cial Accounting	ting T g -the	Freatment – simple prol cory only.	olem - Inflation	Acco	ount	ing-
							Total Ho	urs	90	)
(80% of marks must be allotted to problem solving questions. 20% of marks must be allotted to Theory questions).										
Book for study:										
<ol> <li>T.S.Reddy and A.Murthy, Corporate Accounting, Margham Publications, Chennai, 2018.</li> <li>S. R.S.N. Pillai, Bagavathi &amp; S. Uma, <i>"Fundamentals of Advanced Accountancy"</i>, Third Edition, 2015, Sultan Chand, New Delhi.</li> </ol>										

- 1. M.A.Arulanandam & K.S. Raman, "*Advanced Accountancy*" Vol-I, Sixth Edition, 2015, Himalaya Publishing House, Mumbai.
- 2. S.P.Jain and K.L. Narang, Advanced Accountancy -II, Kalyani Publishers, New Delhi, 2014.
- 3. R.L.Gupta and M.Radaswamy, Corporate Accounting, Sultan Chand Publisher, Kolkatta, 2013
- **4.** .S. N. Maheshwari & Suneel K Maheshwari, *"Financial Accounting"*, Fifth Edition, 2012, Vikas Publishing House.

Web	Web Resources:					
1. www.jstor.org						
COURSE OUTCOME						
After	the completion of the course the student will be able to,					
CO1	Understand the principles, procedure accounting standards	Up to k3				
CO2	Prepare accounts for non-trading concern.	Up to k3				
<b>CO3</b>	Create branch and departmental accounts	Up to k5				
<b>CO4</b>	Calculate insurance claims	Up to k4				
<b>CO5</b>	Construct Lease accounting.	Up to k5				

## CO & PO Mapping:

COS	PO 1	<b>PO 2</b>	<b>PO 3</b>	<b>PO 4</b>	<b>PO 5</b>	PO 6
CO 1	3	2	2	1	3	2
CO 2	3	3	3	3	2	3
<b>CO 3</b>	3	3	3	3	2	3
<b>CO 4</b>	3	3	3	3	2	3
CO 5	2	3	3	3	3	3
Weightage	14	14	14	13	12	14

\*3 – Advanced Application; 2 – Intermediate Development; 1 - Introductory Level

### **LESSON PLAN**

UNIT	COURSE NAME	Hrs	Mode
Ι	Accounting Standards Indian and International Accounting Standards – Accounting Standards 2,3,6,9,10,16 and IND As 1,2,7,16,19,23 and An overview of IFRS-	18	L/Chalk and Talk
II	Accounting of Not for -Profit Organization Final accounts of Not for Profit Organization –Receipts and Payments- Income and Expenditure Account and Balance Sheet.	18	L/Chalk and Talk
III	<b>Branch and Departmental AccountsHire purchase and installment</b> <b>purchase systems</b> Branch Accounts - Departmental Accounts- –Accounting methods- hire Purchase System- Accounting treatment for hire purchase system – Installment System	18	L/Chalk and Talk
IV	Insurance Claims Meaning– Need – Importance of Insurance Claim – Loss of profit Policy - Difference between Fire Insurance Policy and Loss of Profit Policy – Computation of claim for Loss of Profit Policy — Loss of Stock Policy - Average clause.	18	L/Chalk and Talk
V	Lease AccountingLease Accounting Methods of Accounting TreatmentInflationAccounting- Human Resources Accounting - Social Accounting	18	L/Chalk and Talk

Course designed by:

- 1. Dr. V. Suresh Babu, Assistant Professor.
- 2. 2. Dr. S. Ganesan, Assistant Professor.

	Learning Outcome Based Education & Assessment (LOBE) Formative Examination - Blue Print Articulation Mapping – K Levels with Course Outcomes (COs)									
Inte rnal				Section A		Section	n B			
	0			MC	CQs	Short An	swers	Section C	Section D	
	Cos		K Level	No. of. Questio ns	K - Level	No. of. Questions	K – Level	Either or Choice	Open Choice	
CI	CC	)1	Up to K3	2	K1,K2	1	K1	2(K2&K2)	1(K3)	
AI	CO2		Up to K3	2	K1,K2	2	K2	2(K3&K3)	1 (K2)	
CI	<b>CO3</b>		Up to K5	2	K1,K2	1	K2	2(K4&K4)	1 (K5)	
AII	<b>CO4</b>		Up to K4	2	K1,K2	2	K2	2(K3&K3)	1(K4)	
		Qu	No. of lestions to be asked	4		3		4	2	
Ques n	tio	No. of Questions to be answered		4		3		2	1	
CIA I II		N	Aarks for each question	1		2		5	10	
		То	otal Marks for each section	4		6		10	10	

\*Note: It is the decision of the course teacher to ask 2 Questions in any unit under section-B (short answer questions)

Distribution of Marks with K Level CIA I & CIA II									
	K Level	Section A (Multiple Choice Questions )	Section B (Short Answer Questions)	Section C (Either / Or Choice )	Secti on D (Ope n Choi ce)	Total Marks	% of (Marks without choice)	Consolid ate of %	
	K1	2	2	-	-	4	8	60	
	K2	2	4	10	10	26	52	00	
	K3	-	-	10	10	20	40	40	
CI	K4	-	-	-	-	-	-	-	
ΑI	K5	-	-	-	-	-	-	-	
	Marks	4	6	20	20	50	100	100	
	K1	2	2	-	-	4	8	20	
	K2	2	4	-	-	6	12	20	
СТ	K3	-	-	10	-	10	20	20	
	K4	-	_	10	10	20	40	40	
АП	K5	-	_	_	10	10	20	20	
	Marks	4	6	20	20	50	100	100	

K1- Remembering and recalling facts with specific answers

K2- Basic understanding of facts and stating main ideas with general answers

K3- Application oriented- Solving Problems

K4- Examining, analyzing, presentation and make inferences with evidences

CO5 will be allotted for individual Assignment which carries five marks as part of CIA component.

S	Summative Examination – Blue Print Articulation Mapping – K Level with Course Outcomes (COs)									
			MCC	)s	Short An	swers	Section C	Section D (Open Choice)		
S.No	COs	K - Level	No. of Questions	K – Level	No. of Question	K – Level	(Either / or Choice)			
1	CO1	Up tok3	2	K1,K2	1	K1	2(K2&K3)	1(K2)		
2	CO2	Up tok3	2	K1,K2	1	K2	2(K3&K3)	1 (K3)		
3	CO3	Up to k5	2	K1,K2	1	K2	2(K4&K4)	1 (K3)		
4	CO4	Up to k4	2	K1,K2	1	K2	2(K3&K3)	1(K4)		
5	CO5	Up to k5	2	K1,K2	1	K2	2(K4&K4)	1(K5)		
No	. of Quest Aske	ions to be ed	10		5		10	5		
No. of Questions to be answered		10		5		5	3			
Marks for each question			1		2		5	10		
Total Marks for each section			10		10		25	30		
	(Figures	in parenthesi	is denotes, qu	iestions s	hould be as	ked with	the given K	level)		

Summative Examinations - Distribution of Marks with K Level									
K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either/ or Choice)	Section D ( Open Choice)	Total Marks	% of (Marks without choice)	Consolidated %		
K1	5	1	-	-	7	5.83	20		
K2	5	4	1	1	28	23.33	29		
K3	-	-	5	3	55	45.84	46		
K4	-	-	4	1	30	25	25		
Marks	10	10	50	50	120	100	100		
NB: Hig	gher level of p	erformance o	of the students	s is to be asse	essed by a	attempting	higher level		

of K levels.

Section A (Multiple Choice Questions)							
Answer	All Qu	estions	(10x1=10 marks)				
Q. No	CO	K Level	Questions				
1	CO1	K1					
2	CO1	K2					
3	CO2	K1					
4	CO2	K2					
5	CO3	K1					
6	CO3	K2					
7	CO4	K1					
8	CO4	K2					
9	CO5	K1					
10	CO5	K2					
Section 1	B (Shor	rt Answers	)				
Answer	All Qu	estions	(5x2=10 marks)				
Q. No	CO	K Level	Questions				
11	CO1	K1					
12	CO2	K2					
13	CO3	K2					
14	CO4	K2					
15	CO5	K2					
Section	C (Eith	er/Or Typ	e)				
Answer	All Qu	estions	(5 x 5 = 25 marks)				
Q. No	CO	K Level	Questions				
16) a	CO1	K2					
16) b	CO1	K3					
17) a	CO2	K3					
17) b	CO2	K3					
18) a	CO3	K4					
18) b	CO3	K4					
19) a	CO4	K3					
19) b	CO4	K4					
20) a	CO5	K3					
20) b	CO5	K4					
NB: Hig	her lev	el of perfo	rmance of the students is to be assessed by attempting higher				
level of l	K levels	5					
Section 1	D (Ope	n Choice)					
Answer	Answer Any Three questions(3x10=30 marks)						
Q. No	CO	K Level	Questions				
21	CO1	K2					
22	CO2	K3					
23	CO3	K3					
24	CO4	K4					
25	CO5	K5					

# **Summative Examinations - Question Paper – Format**



# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

Course Na	me	TALLY ERP 9							
Course Co	de	21PCCC12					L	Р	С
Category		Part III - Core					6	-	4
Nature of c	ourse	<b>EMPLOYABILITY</b>	<b>√</b>	SKILL ORIENTED	✓	ENTREPI	RENE	UR	SHIP
Course Ob	jectiv	ves:							
<ol> <li>To imp</li> <li>To intro</li> <li>To lear account</li> </ol>	<ol> <li>To impart knowledge regarding concepts of Financial Accounting.</li> <li>To introduce the Basics of Accountancy and the usage of Tally for accounting purpose</li> <li>To learn its principles, concepts, conventions, recording procedures, Bank reconciliation, final accounts etc.</li> <li>To make students equipped with essential skill for employability in the job market</li> </ol>								
4. To mak	te stuc Stice (	lents equipped with ess computerised Accounting	entia	ll skill for employability ystems using Tally ERP	in th 9	ie job mark	et.		
Unit: I	Fun	damentals of Tally ER	P 9:	ystems using Tuny.Ditt	.,				15
Introduction Tally.ERP	on- G 9 – Ci	etting started with Ta reating a company - Fea	lly H ature	ERP.9 – Mouse / Key s and configurations.	boar	d Convent	ions -	- C	losing
Unit: II	I Ledgers ,Groups and Vouchers : 15								15
Ledger Creation - Multi Ledger creation – Altering and Displaying Ledgers – Deleting Ledgers – Group Creation – Altering Groups – Deleting Groups – Inventory Master Creation –Voucher Entry.									
Unit: III	Acco	ounting Reports:							15
Basic feature categories -	Basic features of displaying reports – Financial statements – Banking – Cost centre and Cost categories – Order Processing – Data Backup and restore.								
Unit: IV									15
TDS: Intro returns. Advanced Export and	oducti featu impo	on - Basic concepts of res of Tally ERP 9: E rt of data.	TDS E-mai	5 – TDS in Tally.ERP 9 iling in Tally ERP.9 – 1	– Tl E-ma	DS reports	– E-F	iling Bene	TDS
Unit: V	Goo	ds and Services Tax:							15
Introductio Goods – G	on – T ST Re	Transferring Input Tax ports – GST Tax Paym	cree ent –	dit to GST – Interstate - Exempted Goods/Serve	e sup ices.	ply of Goo	ods –	Retu	ırn of
					Tot	al Lecture	Hou	ſS (	75
<ul> <li>Books for Study:</li> <li>1. Tally Education Private Limited, Official Guide to Financial Accounting with Tally ERP</li> <li>9, BPB publications, New Delhi, Fourth Edition, 2018.</li> </ul>									
Books for 1 1. <u>Nad</u> 2. P.R Publica	<ul> <li>9, BPB publications, New Delhi, Fourth Edition, 2018.</li> <li>Books for References: <ol> <li><u>Nadhani</u>, Tally ERP 9 Training Guide, BPB Publications ,New Delhi, 2009.</li> <li>P.Rizwar Ahmed , Computer Applications In Business With Tally ERP 9, Margham Publications.Chennai- First Edition, 2017.</li> </ol> </li> </ul>								

Course Outcomes								
After	After the completion of the course the student will be able to,							
CO1:	Learn the ideas and practices about Tally	<b>Up To K2</b>						
CO2:	Develop computer skills and research of annual accounts and reports using Tally	Up To K3						
CO3:	Apply the proficiency as Tally data entry operator.	<b>Up To K3</b>						
<b>CO4:</b>	Analyze the deepness and professional knowledge of Tally course	Up To K4						
CO5:	Create own company, enter accounting voucher entries including advance voucher entries, and reconcile bank statement	Up To K2						

# CO & PO Mapping:

COS	<b>PO 1</b>	PO 2	<b>PO 3</b>	PO 4	PO 5	<b>PO 6</b>
CO 1	3	3	2	2	2	3
CO 2	3	3	3	1	3	2
CO 3	3	2	2	3	3	3
<b>CO 4</b>	1	3	2	3	3	3
CO 5	2	3	3	3	3	3

\*3 – Advanced Application; 2 – Intermediate Development; 1 - Introductory Level

UNIT	COURSE NAME	HOURS	PEDAGOGY		
	<b>Fundamentals of Tally ERP 9:</b> Introduction- Getting started with Tally ERP.9	5			
UNIT - I	Mouse / Keyboard Conventions	3	PP1, Practical		
	Closing Tally.ERP 9 – Creating a company	2	Demonstration		
	Features and configurations	5			
UNIT - II	Ledgers ,Groups and Vouchers : Ledger Creation - Multi Ledger creation	5	Challs & Talls		
	Altering and Displaying Ledgers – Deleting Ledgers	3			
	Group Creation – Altering Groups – Deleting Groups	2 Exercise			
	Inventory Master Creation –Voucher Entry.	5			
	Accounting Reports: Basic features of displaying reports – Financial statements	5	Quiz Program,		
UNII - III	Banking – Cost centre and Cost categories	5	PPT		
	Order Processing – Data Backup and restore.	5			
	<b>TDS:</b> Introduction - Basic concepts of TDS – TDS in Tally.ERP 9	5			
UNIT - IV	TDS reports – E-Filing TDS returns.	5	Chalk & Talk, PPT		
	Advanced features of Tally ERP 9: E-mailing in Tally ERP.9 – E-mailing a report – Benefits – Export and import of data	5			
	<b>Goods and Services Tax:</b> Introduction – Transferring Input Tax credit to GST	5	Group		
$\bigcup \mathbf{NII} - \mathbf{V}$	Interstate supply of Goods – Return of Goods – GST Reports	5	Discussion,		
	GST Tax Payment – Exempted Goods/Services	5	Exercise		

#### **LESSON PLAN**

Course designed by:

- 1. Mrs.A.Nagaswathy, Assistant Professor.
- 2. 2. Mrs.M.Muthulakshmi, Assistant Professor.

Volume – I Arts Syllabus / 2021 - 2022 Learning Outcome Based Education & Assessment (LOBE) **Formative Examination - Blue Print Articulation Mapping – K Levels with Course Outcomes (COs)** Section A Section B Section D Section C **MCOs Short Answers** Internal Cos **K** Level **Either or** Open No. of. К-No. of. К-Choice Choice Questions Level Questions Level **CO1** Up tok3 2 K1,K2 K1 2(K2&K2) 1(K3) 1 CI AI 2 2 **CO2** Up tok3 K1,K2 K2 2(K3&K3) 1 (K3) **CO3** Up to k5 2 K1,K2 1 K2 2(K4&K4) 1 (K5) CI 2 2 AII Up to k4 K1,K2 K2 **CO4** 2(K3&K3) 1 (K4) No. of 4 3 4 2 Questions to be asked No. of Questions to 3 2 Question 4 1 be answered Pattern CIA I & II Marks for each 1 2 5 10 question Total Marks for each 4 6 10 10 section

	Distribution of Marks with K Level CIA I & CIA II										
	K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either / Or Choice)	Section D (Open Choice)	Total Marks	% of (Marks without choice)	Consolidate of %			
	K1	2	2	-	-	4	8	40			
	K2	2	4	10	-	16	32	40			
	K3	-	-	10	20	30	60	60			
CIA	K4	-	-	-	-	-	-	-			
Ι	K5	-	-	-	-	-	-	-			
	Marks	4	6	20	20	50	100	100			
	K1	2	-	-	-	2	4	20			
	K2	2	6	-	-	8	16	20			
СТА	K3	-	-	10	-	10	20	20			
II	K4	-	-	10	10	20	40	40			
	K5	-	-	-	10	10	20	20			
	Marks	4	6	20	30	50	100	100			

K1- Remembering and recalling facts with specific answers

K2- Basic understanding of facts and stating main ideas with general answers

K3- Application oriented- Solving Problems

K4- Examining, analyzing, presentation and make inferences with evidences

CO5 will be allotted for individual Assignment which carries five marks as part of CIA component.

S	Summative Examination – Blue Print Articulation Mapping – K Level with Course Outcomes (COs)							
			MCC	2s	Short An	swers	Section C	Section D
S.No	COs	K - Level	No. of Questions	K – Level	No. of Question	K – Level	(Either / or Choice)	(Open Choice)
1	CO1	Up tok3	2	K1,K2	1	K1	2(K2&K2)	1(K2)
2	CO2	Up tok3	2	K1,K2	1	K2	2(K3&K3)	1 (K3)
3	CO3	Up to k5	2	K1,K2	1	K2	2(K4&K4)	1 (K4)
4	<b>CO4</b>	Up to k4	2	K1,K2	1	K2	2(K3&K3)	1(K3)
5	CO5	Up to k4	2	K1,K2	1	K2	2(K4&K4)	1(K4)
No. of Questions to be Asked		ions to be ed	10		5		10	5
No. of Questions to be answered			10		5		5	3
Marks for each question			1		2		5	10
Total Marks for each section			10		10		25	30
	(Figures in parenthesis denotes, questions should be asked with the given K level)							

	Summative Examinations - Distribution of Marks with K Level								
K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either/ or Choice)	Section D ( Open Choice)	Total Marks	% of (Marks without choice)	Consolidated %		
K1	5	1	-	-	7	5.83	20		
K2	5	4	1	1	28	23.33	29		
K3	-	-	5	3	55	45.84	46		
K4	-	-	4	1	30	25	25		
Marks	10	10	50	50	120	100	100		
NTD TT		0	<b>0</b> · <b>1</b> · <b>1</b> · <b>1</b>	• • •					

NB: Higher level of performance of the students is to be assessed by attempting higher level of K levels.

Section A	Section A (Multiple Choice Questions)							
Answer A	All Que	stions	(10x1=10 marks)					
Q. No	CO	K Level	Questions					
1	CO1	K1						
2	CO1	K2						
3	CO2	K1						
4	CO2	K2						
5	CO3	K1						
6	CO3	K2						
7	CO4	K1						
8	CO4	K2						
9	CO5	K1						
10	CO5	K2						
Section B	(Short	Answers)						
Answer A	All Que	stions	(5x2=10 marks)					
Q. No	CO	K Level	Questions					
11	CO1	K1						
12	CO2	K2						
13	CO3	K2						
14	CO4	K2						
15	CO5	K2						
Section C	C (Eithe	r/Or Type						
Answer A	All Que	stions	(5 x 5 = 25 marks)					
Q. No	CO	K Level	Questions					
16) a	CO1	K2						
16) b	CO1	K3						
17) a	CO2	K3						
17) b	CO2	K3						
18) a	CO3	K4						
18) b	CO3	K4						
19) a	CO4	K3						
19) b	CO4	K4						
20) a	CO5	K3						
20) b	CO5	K4						
NB: High	er leve	l of perfor	mance of the students is to be assessed by attempting higher					
level of K	levels							
Section D	) (Open	Choice)						
Answer A	Any Th	ree questio	ns (3x10=30 marks)					
Q. No	CO	K Level	Questions					
21	CO1	K2						
22	CO2	K3						
23	CO3	K3						
24	CO4	K4						
25	CO5	K5						

# **Summative Examinations - Question Paper – Format**



# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

Course Name	QU	JA	NT	ГТА	TI	VEI	мет	HOI	DS														
Course Code	21I	PC	CCC	13																	L	Р	С
Category	Co	re	ļ																		6	-	4
Nature of Cour	rse	I	EMI	PLO	YA	BI	LITY		✓	S	SKII	L	OF	RIE	NT	ED		ENI	REI	PRE	NEU	RSH	IP
Course Object	ives:	:							1														
<ol> <li>To enable th</li> <li>To impart k estimating v</li> <li>To teach p variable in t</li> <li>To analyze t</li> <li>To apply in representativ</li> <li>Unit: I Con</li> </ol>	<ol> <li>To enable the students to apply the statistical tools in analysis and interpretation of data.</li> <li>To impart knowledge on extrapolation and interpolation. Polynomial interpolation is a method of estimating values between known data points.</li> <li>To teach probability, theoretical probability distribution and probability distribution of random variable in the three important interrelated trades which going to learn.</li> <li>To analyze the statistical tools using SPSS software package.</li> <li>To apply inferential statistical analysis to draw conclusions about an entire population based on a representative sample.</li> <li>Unit: I Correlation – Karl Pearson's Co – efficient of correlation -Partial and Multiple correlation – Snarman's method for analysis.</li> </ol>																						
correlations – S	pear:	m	an's	ran	k C	orre	lation	1 – R	legr	es	sion	A	nal	ysi	<b>s</b> − ]	Regr	es	sion	Line	s ar	id reg	ressi	on Co
- efficient - Wultiple. Unit: II Interpolation and extrapolation 18																							
Interpolation a	nd E	Ext	rapo	latio	on -	- M	ethod	s of	Inte	erp	polat	io	n –	Bi	non	nial I	Ex	pans	ion l	Met	hod -	- Nev	vton's
Method – Lagra	inge'	's ]	Met	hod	- P	arat	olic (	Curv	e M	et	thod	_ ]	Ext	trap	ola	ion -	- 1	/ital	Stati	stic	s - L	ife T	ables.
Unit: III Pro	bab:	oili	ty a	nd o	list	ribu	tion	1	4 N/	r	14:41		4:00	. т	1			1.4		4:00	1 17		18 i
Theoretical Dist	ribu	en:	is a <u>r</u> ons -	piyi - Rii	ng 1011	Adc 1ial -	- Pois	ai an sson	a IV. N	1U. [01	rmal	D	u101 istr	n 1 'ibu	neo tior	rem	- ]	viatr	lema	tica	гехр	ectal	1000  ms - 1000  ms
Unit: IV Hy	poth	ies	sis T	esti	ng	nai	1 01	55011	1		IIIIai		1511	100	1101	•						1	0
					0		_																10
Procedure for I standard deviat square test – Sig	Hypo ions gn te:	oth – est	esis Sm – M	Tes all s an V	ting sam Vhi	g – ( ple tney	Dne ta tests <u>Ute</u>	ailed (t- t st – 1	anc est) Kru	l ] sk	Гwo - F t cal W	Ta est Val	aile t ar llis	d T nd tes	°est Ana t.	– La lysis	rgo 5 O	e Sai f Va	nple trian	test ce (	s for ANC	mean VA)	ns and . Chi-
Unit: V Dat	ta Ai	na	lysi	s th	rou	gh S	Statis	tical	Pa	ck	kage											1	8
Introduction to SPSS Package – Procedure for Statistical analysis in SPSS – Descriptive –Mean – Median- Mode and Standard deviation – Chi square test – Correlation – Regression – Analysis of Variance.																							
Tot	al E	Но	urs																			Ģ	0
<b>Book for study</b> 1. S. P. Gupta,	stat	tist	tical	Me	tho	ds, S	ultan	Cha	and a	an	nd So	ons	s, N	lew	De	lhi, 2	201	4.					
<ol> <li>Books for Reference:</li> <li>R.S.N. Pillai, Bhagavathi, <i>Statistics – Theory and Practice</i>, S. Chand Publication, New Delhi, 2016.</li> <li>C. B. Gupta and Vijay Gupta, <i>An Introduction to Statistical Methods</i>, Vikas Publishing House, India, 2004</li> </ol>																							

#### Web Resources:

1. <u>ht</u>	tps://nptel.ac.in/courses/111/105/111105041/									
2. <u>ht</u>	<u>tp://ndl.iitkgp.ac.in/document/MDl5cHdNUUlnd0lnZHNoQXlvOG5lRUcyRDVyYT</u>	p://ndl.iitkgp.ac.in/document/MDl5cHdNUUlnd0lnZHNoQXlvOG5lRUcyRDVyYTRabnR3								
N	GFLYX01dTBRST0									
3. <u>ht</u>	tp://ndl.iitkgp.ac.in/document/OEYweXpIRmlkYURkM3JkbUdtKy9UWit4Y3NtOX	KdKKy9H								
Q	<u>k1pU010UzF3bVJSRzNIdXVoWEpLQzJoSTlQcWF3K0V0MXFTU1plMmhRbXZ</u>	Hd3ZESz								
F	RQ0E9PQ									
4. <u>ht</u>	tp://ndl.iitkgp.ac.in/document/WEtvZWhwaDFwSG04NzJ5eWRRdTFEQzZJSHVj	OVhGQ2								
V	MYjhBdmNKa290OD0									
5. <u>ht</u>	tp://ndl.iitkgp.ac.in/document/ZGRZQjU5TzROQmFHNlNnN1FQRmdRMSt0SU9	a <mark>MjJsbU</mark>								
p	vcm56TVd3SUNCbz0									
Cour	se Outcomes:	K Level								
After	the completion of the course the student will be able to,									
CO1	Understand the application of Correlation and Regression	Un to K4								
COI	onderstand the upproducion of correlation and regression.	op to R4								
cor	Apply extrapolation and interpolation statistical method to predict values in relation	Up to V2								
	to the data.	Орюкз								
	Solve the problems related to probability									
CO3		Up to K3								
	Test hypothesis to assess the plausibility of a hypothesis by using sample data in									
<b>CO4</b>	Business Research	Up to K5								
CO5	Do statistical analysis using SPSS	Up to K3								

## CO & PO Mapping:

COS	<b>PO 1</b>	<b>PO 2</b>	<b>PO 3</b>	<b>PO 4</b>	<b>PO 5</b>	<b>PO 6</b>
CO 1	3	3	3	2	3	3
CO 2	3	3	3	3	2	2
CO 3	3	3	3	3	3	3
CO 4	3	3	3	2	3	3
<b>CO 5</b>	3	3	3	3	3	3

\*3 – Advanced Application; 2 – Intermediate Development; 1 - Introductory Level

## LESSON PLAN

UNIT	QUANTITATIVE METHODS	Hrs	Mode
I	<b>Correlation</b> Correlation –Karl Pearson's Co – efficient of correlation– Spearman's rank Correlation – Regression Analysis – Regression Lines and regression Co – efficient.	18	Chalk & Talk
II	<b>Interpolation and extrapolation</b> Interpolation and Extrapolation – Methods of Interpolation – Binomial Expansion Method – Newton's Method – Lagrange's Method – Parabolic Curve Method – Extrapolation – Vital Statistics – Life Tables.	18	Chalk & Talk
III	<b>Probability and distribution</b> Probability – Problems applying Additional and Multiplication Theorem – Mathematical Expectations – Theoretical Distributions – Binomial – Poisson – Normal Distribution.	18	Chalk & Talk
IV	<b>Hypothesis Testing</b> Procedure for Hypothesis Testing – One tailed and Two Tailed Test – Large Sample tests– Small sample tests – F test and Analysis of Variance. Chi- square test – Sign test – Man Whitney U test – Kruskal Wallis test.	18	Chalk & Talk
V	<b>Statistical Package</b> Introduction to SPSS Package – Procedure for Statistical analysis in SPSS – Descriptive– Chi square test – Correlation – Regression – Analysis of Variance	18	Chalk & Talk

Course Designated by: Dr. R. Kajapriya, Assistant Professor.

&

Dr. S. Venkateswaran, Head & Associate Professor.

		Lear	rning Outcon F	ne Based 'ormative	Education & Examinatio	x Assessr n - Blue	nent (LOBE) Print		
			Sect	tion A	Sect	ion B	Soution C	US)	
Intornal	Cos	K Level	MCQ	s	Short A	nswers	Section C	Section D	
Internar	COS		No. of.	K -	No. of.	K –	Choice	Choice	
			Questions	Level	Questions	Level	Choice	Choice	
CI	CO1	Up To K4	2	K1,K2	1	K1	2(K4&K4)	1(K4)	
AI	CO2	<b>Up To K3</b>	2	K1,K2	2	K2	2(K3&K3)	1 (K2)	
CI	CO3	<b>Up To K3</b>	2	K1,K2	2	K2	2(K3&K3)	1 (K3)	
AII	<b>CO4</b>	<b>Up To K5</b>	2	K1,K2	1	K2	2(K4&K4)	1(K5)	
Question Pattern CIA I & II		No. of Questions to be asked	4		3		4	2	
		No. of Questions to be answered	4		3		2	1	
		Marks for each question	1		2		5	10	
		Total Marks for each section	4		6		10	10	

\*Note: It is the decision of the course teacher to ask 2 Questions in any unit under section-B (short answer questions)

			Dist	ibution of M	larks with <b>K</b>	K Level C	IA I & CI	AII
	K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either / Or Choice)	Section D (Open Choice)	Total Marks	% of (Marks without choice)	Consolidate of %
	K1	2	2	-	-	4	8	40
	K2	2	4	-	10	16	32	40
	K3	-	-	10	-	10	20	20
CIA	K4	-	-	10	10	20	40	40
I	K5	-	-	-	-	-	-	-
	Marks	4	6	20	20	50	100	100
	K1	2	2	-	-	4	8	20
	K2	2	4	-	-	6	12	20
СТА	K3	-	-	10	10	20	40	40
	K4	-	-	10	-	10	20	20
11	K5	-	-	-	10	10	20	20
	Marks	4	6	20	20	50	100	100

K1- Remembering and recalling facts with specific answers

K2- Basic understanding of facts and stating main ideas with general answers

K3- Application oriented- Solving Problems

K4- Examining, analyzing, presentation and make inferences with evidences

CO5 will be allotted for individual Assignment which carries five marks as part of CIA component.

S	Summative Examination – Blue Print Articulation Mapping – K Level with Course							
S.No	COs	K - Level	MCC No. of Questions	2s K – Level	Short An No. of Question	swers K – Level	Section C (Either / or	Section D (Open Choice)
1	CO1	Up To K4	2	K1,K2	1	K1	2(K4&K4)	1(K4)
2	CO2	Up To K3	2	K1,K2	1	K2	2(K3&K3)	1 (K3)
3	CO3	Up To K3	2	K1,K2	1	K2	2(K3&K3)	1 (K2)
4	CO4	Up To K5	2	K1,K2	1	K2	2(K4&K4)	1(K5)
5	CO5	Up To K3	2	K1,K2	1	K2	2(K3&K3)	1(K3)
No. of Questions to be Asked			10		5		10	5
No. of Questions to be answered			10		5		5	3
Marks for each question			1		2		5	10
Total Marks for each section			10		10		25	30
	(Figures in parenthesis denotes, questions should be asked with the given K level)							

	Summative Examinations - Distribution of Marks with K Level								
K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either/ or Choice)	Section D ( Open Choice)	Total Marks	% of (Marks without choice)	Consolidated %		
K1	5	1	-	-	7	5.83	25		
K2	5	4	-	1	23	19.17	23		
K3	-	-	6	2	50	41.67	42		
K4	-	-	4	1	30	25	25		
K5	-	-	-	1	10	8.33	8		
Marks	10	10	50	50	120	100	100		
NB: Higher level of performance of the students is to be assessed by attempting higher level									
of K lev	els.								

Section	ection A (Multiple Choice Questions)							
Answei	r All Q	uestions	(10x1=10 marks)					
Q. No	CO	K Level	Questions					
1	CO1	K1						
2	CO1	K2						
3	CO2	K1						
4	CO2	K2						
5	CO3	K1						
6	CO3	K2						
7	CO4	K1						
8	CO4	K2						
9	CO5	K1						
10	CO5	K2						
Section	B (Sho	ort Answer	rs)					
Answei	r All Q	uestions	(5x2=10 marks)					
Q. No	CO	K Level	Questions					
11	CO1	K1						
12	CO2	K2						
13	CO3	K2						
14	CO4	K2						
15	CO5	K2						
Section	C (Eit	her/Or Ty	pe)					
Answei	r All Q	uestions	(5 x 5 = 25 marks)					
Q. No	CO	K Level	Questions					
16) a	CO1	K4						
16) b	CO1	K4						
17) a	CO2	K3						
17) b	CO2	K3						
18) a	CO3	K3						
18) b	CO3	K3						
19) a	CO4	K4						
19) b	CO4	K5						
20) a	CO5	K3						
20) b	<u>CO5</u>	K3						
NB: Hi	gher le	vel of perf	ormance of the students is to be assessed by attempting higher					
level of	K leve							
Section	D (Op	en Choice	) (2-10, 20					
Answei	$\frac{r \text{ Any I}}{CO}$	I hree ques	tions (3x10=30 marks)					
<b>Q.N0</b>	$\frac{0}{0}$	K Level	Questions					
21		K4 V2						
22	$\frac{CO2}{CO2}$	KJ VO						
23	$\frac{003}{004}$	<u>N</u> 2 V5						
24	$\frac{004}{005}$	KJ K2						
23	005	КĴ						

# **Summative Examinations - Question Paper – Format**



# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) **DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS** (For those who join in 2021-2022 and after)

Course Name	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT							
Course Code	21PCCC14			L	Р	С		
Category	Core			6	-	4		
Nature of Cour	e EMPLOYABILITY ✓ SK	ILL ORIENTED	ENTREPREN	NEUF	SHI	)		
Course Objectives:								
<ol> <li>To introduce the fundamental concepts of investment decision making.</li> <li>To impart knowledge on the basics of measuring risk and return.</li> <li>To develop the skills required to make portfolio decision making.</li> <li>To teach the uses of CAPM and APM.</li> <li>To apply tools for choosing best investment avenues.</li> <li>Unit: I SECURITIES MARKET – AN OVERVIEW: 18</li> <li>Securities – Meaning – Types – Securities Markets – Participants of Securities Market – Organization and Structure of the Securities Market in India – Primary Market – Secondary Market – Derivatives market - Securities and Exchange Board of India (SEBI) - Investors Protection in the Primary and Secondary Market.</li> <li>Unit: II SECURITY ANALYSIS: 18</li> <li>Fundamental Analysis - Economic analysis, Industry analysis and Company analysis, Technical analysis - Market indicators, forecasting individual stock performance - Valuation models of equity and bonds.</li> <li>Unit: III PORTFOLIO ANALYSIS: 18</li> </ol>								
Risk - Types and sources - Measurement of Return - Risk-Return Relationship - Random walk,								
Efficient market	hypothesis, Strong, semi-strong and	l weak forms - Capit	al market theo	ory th	ree le	vels		
Unit: IV PO	TFOLIO SELECTION:	Incient frontier.		18	2			
Portfolio – Mea regulations – po Sharpe Index M Evaluation – Pro Constant Rupee	Unit: IVPORTFOLIO SELECTION:18Portfolio – Meaning, Types – Portfolio Management: Meaning, Need, Types and Importance – SEBIregulations – portfolio performance - portfolio theory, objectives, Markowitz portfolio analysis -Sharpe Index Model - Capital Asset Pricing Theory and Arbitrage Pricing Theory. PortfolioEvaluation – Process of evaluation – Portfolio Revision – The Formula Plans Rupee cost average –Constant Rupee value – Constant ratio and variable ratio plans.							
Unit: V DE	IVATIVES MARKET	chierra Chandras d		18	8			
Tote	and Contract – Futures Contract – Oj 1 Hours	puons Contract.		9(	)			
Book for study	* *******				•			
1. Punithavathy Private Ltd, Nev	1. Punithavathy Pandian, Security analysis and Portfolio Management, Vikas Publishing House Private Ltd, New Delhi, 2013.							
Books for Refer	ence:							
<ol> <li>Balla, V.K., 1</li> <li>Avadhani, V 2016.</li> <li>Prasanna Ch 2017.</li> </ol>	Fundamentals of Investment Manage A, Investment & Security Markets andra, Investment Analysis and Por	ment, S.Chand , Ran in India, Himalaya rtfolio Management	n Nagar, New Publishing Ho , Mc-GrawHil	Delh ouse, 1 Pul	i, 200 Murr olicati	6. Ibai, ons,		
Academic (	ouncil Meeting Held On 29.04.202	21		Pa	ge 20			

Page 20

4. Ke	Kevin S, 'Security Analysis and Portfolio Management' Prentice Hall of India, New Delhi, 2011.					
5. Gu	rusamy .S, 'Security Analysis and Portfolio Management', Vijay Nicole Imprints	Ltd, 2017.				
Web ]	Web Resources:					
1. <u>htt</u>	os://play.google.com/store/apps/details?hl=en&id=com.mhrd.ndl					
Cours	Course Outcomes K Level					
After	After the completion of the course the student will be able to,					
<b>CO1</b>	Understand the structure and functions of securities market.	Up To K3				
CO2	Analyze the securities by applying appropriate tools.	Up To K3				
<b>CO3</b>	Discover the risk and return associated with the securities.	Up To K4				
<b>CO4</b>	Examine the best model for portfolio selection Up To K5					
CO5	O5 Understand the basic concepts of derivative markets Up To K4					

# CO & PO Mapping:

COS	<b>PO 1</b>	PO 2	<b>PO 3</b>	PO 4	<b>PO 5</b>	<b>PO 6</b>
CO 1	3	2	2	2	2	2
CO 2	3	3	3	3	3	3
CO 3	3	3	3	3	3	3
<b>CO 4</b>	2	3	3	3	3	3
CO 5	2	2	2	3	3	3

\*3 – Advanced Application; 2 – Intermediate Development; 1 - Introductory Level

#### **LESSON PLAN**

UNIT	SUBJECT NAME	Hrs	Mode
Ι	<b>SECURITIES MARKET</b> Securities –Participants of Securities Market - Organization and Structure of the Securities Market in India - Securities and Exchange Board of India - Investors Protection in the Primary and Secondary Market.	18	Lecture, PPT
II	<b>SECURITY ANALYSIS</b> Fundamental Analysis - Economic analysis, Industry analysis and Company analysis, Technical analysis - Market indicators, forecasting individual stock performance - Valuation models of equity and bonds.	18	Lecture, PPT
III	<b>PORTFOLIO ANALYSIS</b> Risk - Risk-Return Relationship - Random walk, Efficient market hypothesis, Strong, semi-strong and weak forms - Capital market theory three levels	18	Lecture, PPT
IV	<b>PORTFOLIO SELECTION AND EVALUATION</b> Portfolio –Portfolio Management – SEBI regulations – portfolio performance - portfolio theory, Markowitz portfolio analysis - Sharpe Index Model - Capital Asset Pricing Theory and Arbitrage Pricing Theory. Portfolio Evaluation – Process of evaluation – Portfolio Revision – The Formula Plans Rupee cost average – Constant Rupee value – Constant ratio and variable ratio plans.	18	Lecture, PPT
V	<b>DERIVATIVES MARKET</b> Meaning – Forward Contract – Futures Contract – Options Contract.	18	Lecture, PPT

Course designated by: Dr. K. Bala Sathya, Assistant Professor.

&

Dr. S. Venkateswaran, Head & Associate Professor.

car ming O	Articulation Mapping – K Levels with Course Outcomes (COs)								
			Section	n A	Section	n B	Section C		
Intornal	Cos		MCQ	)s	Short Ans	swers	Section C	Section D	
mternar	COS	K Level	No. of.	К-	No. of.	K –	Choice	<b>Open Choice</b>	
			Questions	Level	Questions	Level	Choice		
СТАТ	<b>CO1</b>	<b>Up To K3</b>	2	K1,K2	1	K1	2(K3&K3)	1(K2)	
CIAI	CO2	<b>Up To K3</b>	2	K1,K2	2	K2	2(K3&K3)	1(K3)	
CI AII	CO3	<b>Up To K4</b>	2	K1,K2	1	K2	2(K3&K3)	1(K4)	
	<b>CO4</b>	<b>Up To K5</b>	2	K1,K2	2	K2	2(K4&K4)	1(K5)	
		No. of							
		Questions to	4		3		4	2	
		be asked							
		No. of							
Quest	ion	Questions to	4		3		2	1	
Pattern	CIA I	be answered							
CIA	II	Marks for each	1		2		5	10	
		question	L		4		5	10	
		Total Marksfor							
		each	4		6		10	10	
		section							

Jutcome Resad Education & Assessment (I ORE) Formative Evamination Rhua Print

\*Note: It is the decision of the course teacher to ask 2 Questions in any unit under section-B (short answer questions)

	Distribution of Marks with K Level CIA I & CIA II								
	K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either / Or Choice)	Section D (Open Choice)	Total Marks	% of (Marks without choice)	nsolidateof %	
	K1	2	2	-	-	4	8	40	
	K2	2	4	-	10	16	32	40	
	K3	-	-	20	10	30	60	60	
СТАТ	K4	-	-	-	-	-	-	-	
	K5	-	-	-	-	-	Ι	-	
	Marks	4	6	20	20	50	100	100	
	K1	2	-	-	-	2	4	20	
	K2	2	6	-	-	8	16	20	
	K3	-	-	10	-	10	20	20	
CIAII	K4	-	-	10	10	20	40	40	
	K5	-	-	-	10	10	20	20	
	Marks	4	6	20	20	50	100	100	

K1- Remembering and recalling facts with specific answers

K2- Basic understanding of facts and stating main ideas with general answers

K3- Application oriented- Solving Problems

K4- Examining, analyzing, presentation and make inferences with evidences

CO5 will be allotted for individual Assignment which carries five marks as part of CIA component.

S	Summative Examination – Blue Print Articulation Mapping – K Level with Course								
				ls	Short Answers		Section C	Section D	
S.No	COs	K - Level	No. of Questions	K – Level	No. of Question	K – Level	(Either / or Choice)	(Open Choice)	
1	CO1	<b>Up To K3</b>	2	K1,K2	1	K1	2(K3&K3)	1(K2)	
2	CO2	<b>Up To K3</b>	2	K1,K2	1	K2	2(K3&K3)	1 (K3)	
3	CO3	Up To K4	2	K1,K2	1	K2	2(K3&K3)	1 (K4)	
4	CO4	<b>Up To K5</b>	2	K1,K2	1	K2	2(K4&K4)	1(K5)	
5	CO5	Up To K4	2	K1,K2	1	K2	2(K4&K4)	1(K4)	
No	of Quest. Aske	ions to be ed	10		5		10	5	
No. of Questions to be answered		10		5		5	3		
Marks for each question		1		2		5	10		
Total Marks for each section			10		10		25	30	
	(Figures	in parenthesi	is denotes, qu	estions s	hould be asl	ked with	the given K	level)	

	Summative Examinations - Distribution of Marks with K Level							
K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either/ or Choice)	Section D ( Open Choice)	Total Marks	% of (Marks without choice)	Consolidated %	
K1	5	1	-	-	7	5.83	26	
K2	5	4	-	1	23	19.56	20	
K3	-	-	6	1	40	33.33	33	
K4	-	-	4	2	40	33.33	33	
K5	-	-	-	1	10	8.33	8	
Marks	10	10	50	50	120	100	100	
NB: Hig of K lev	NB: Higher level of performance of the students is to be assessed by attempting higher level of K levels							

Section	A (Mul	tiple Choice	e Questions)
Answer	All Qu	estions	(10x1=10 marks)
Q. No	CO	K Level	Questions
1	CO1	K1	
2	CO1	K2	
3	CO2	K1	
4	CO2	K2	
5	CO3	K1	
6	CO3	K2	
7	CO4	K1	
8	CO4	K2	
9	CO5	K1	
10	CO5	K2	
Section	B (Shoi	rt Answers)	
Answer	All Qu	estions	(5x2=10 marks)
Q. No	CO	K Level	Questions
11	CO1	K1	
12	CO2	K2	
13	CO3	K2	
14	CO4	K2	
15	CO5	K2	
Section	C (Eith	er/Or Type	
Answer	All Qu	estions	(5  x  5 = 25  marks)
Q. No	CO	K Level	Questions
16) a	CO1	K3	
16) b	COl	<u>K3</u>	
17) a	CO2	<u>K3</u>	
17) b	CO2	<u>K3</u>	
18) a	CO3	<u>K3</u>	
18) b	CO3	<u>K3</u>	
19) a	CO4	<u>K4</u>	
19) b	CO4	<u>K4</u>	
20) a	CO5	<u>K4</u>	
20) b	<u>CO5</u>	<u>K4</u>	
NB: Hig	gher lev	el of perfor	mance of the students is to be assessed by attempting higher level of K
levels			
Section	D (Ope	n Choice)	(2-10, 20
Answer	Any II	Iree questio	Overficere (3X10=30 marks)
<b>Q.NO</b>	CO1	K Level	Questions
21	CO1	<u>K2</u>	
22	CO2	KJ V4	
23	CO3	K4 V5	
24	CO4	KJ KA	
23	CUS	<b>K</b> 4	

# **Summative Examinations - Question Paper – Format**



## MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

Course Code       21PCCC15       L       P       C         Category       Core       6       -       4         Nature of course:       EMPLOYABILITY       ✓       SKILL ORIENTED       ENTREPRENEURSHIP         Course Objectives:       1. To familiarize the student's competence in Insurance at an advanced level       2.       5. To inpart knowledge on the principles of life insurance and types of policies       4.         3. To impart knowledge on the principles of non-life insurance policies       5.       5. To make the students on the nature and types of non-life insurance policies       5.         5. To make the students on the nature and types of non-life insurance policies       18       18         History of Insurance in world and India- Need for Insurance – Nature and Working of Insurance - Major Types of Insurance and their Features – Importance of Insurance Industry - Role of Insurance Sector-Privatization and Liberalization in India- Insurance Market - New Entrants to the Indian Insurance Market - New Entrants to the Indian Insurance Market - New Entrants to the Indian Insurance for Sintluencing Demand for Insurance - First Premium – Renewal – Mode of Premium Payment – Limited Period Payment and Single Premium – Lapse & Revival – Paid Up Policy – Deferment Period – Nomination & Assignment of Policy - Donus – Surrender Value.       20         Introduction of General Insurance - Concept and Need- Essential Features and Requirements of Fire Policy, Loss of Profits Policy, Marine Cargo Policy, Marine Hull Policy and Motor Insurance Policy including Vehicle and Third Party Insurance - Cerefficates of In	Course Name	INSURANCE AND RISK M	IAN	AGEMENT					
Category       Core       6       -       4         Nature of course:       EMPLOYABILITY       ✓       SKILL ORIENTED       ENTREPRENEURSHIP         Course Objectives:       1. To familiarize the student's competence in Insurance at an advanced level       2. To focus on increasing proficiency in the basic Insurance, rules, policy, Risk in the workplace, etc.       3. To impart knowledge on the principles of life insurance and types of policies       4. To teach students on the nature and types of non-life insurance and types of policies       5. To make the students understand on the various aspects of risk management       18         History of Insurance in world and India- Need for Insurance – Nature and Working of Insurance – Major Types of Insurance and their Features – Importance of Insurance Industry – Role of Insurance in Economic Development – Insurance and Policy types       18         Nature of Life Insurance-Principles of Insurance-Terms used in Insurance- Life Insurance Principles of Insurance - Terms used in Insurance - Life Insurance Droduct – Various Schemes – Characteristics of an Insurable risk – Role of Insurance- Factors influencing Demand for Insurance - Firsciples of Insurance - Mode of Premium Payment – Limited Priod Payment and Single Premium – Lapse & Revival – Paid Up Policy – Deferment Period – Nomination & Assignment of Policy – Bonus – Surrender Value.       20         Intri UIII       Non-Life Insurance Concept and Need- Essential Features and Requirements of Fire Policy. Loss of Profits Policy, Marine Cargo Policy, Marine Hull Policy and Motor Insurance Policy including Vehice and Third Party Insurance - Miscellaneous Policies like Personal Accident, Fidelity Guarantee,	Course Code	21PCCC15	21PCCC15 L P						
Nature of course;       EMPLOYABILITY       ✓       SKILL ORIENTED       ENTREPRENEURSHIP         Course Objectives:         1. To familiarize the student's competence in Insurance at an advanced level       2. To focus on increasing proficiency in the basic Insurance, rules, policy, Risk in the workplace, etc.         3. To impart knowledge on the principles of life insurance and types of policies       5. To make the students on the nature and types of non-life insurance policies         5. To make the students understand on the various aspects of risk management       18         History of Insurance in world and India- Need for Insurance – Nature and Working of Insurance – Major       Types of Insurance and their Features – Importance of Insurance Industry - Role of Insurance Ectors in the Insurance Sector-         Privatization and Liberalization in India- Indian Insurance Market- New Entrants to the Indian Insurance       18         Nature of Life Insurance-Principles of Insurance-Terms used in Insurance-Factors influencing Demand for Insurance - First Premium – Renewal – Mode of Premium Payment – Limited Period Payment and Single Premium – Lapse & Revival – Paid Up Policy – Deferment Period – Nomination & Assignment of Policy – Bonus – Surrender Value.       20         Init: III       Non-Life Insurance - Concept and Need- Essential Features and Requirements of Fire Policy, Loss of Profits Policy, Marine Cargo Policy, Marine Hull Policy and Motor Insurance and Reinsurance – Loss: Total Loss, Actual or Constructive Loss-Valued Policy – Foneers In Life and General Insurance Activities – Role of Insurance Fine origi relading Vehice and Third Party Insurance - Cerc	Category	Core				6	-	4	
Course Objectives:         1. To familiarize the student's competence in Insurance at an advanced level       2. To focus on increasing proficiency in the basic Insurance, rules, policy, Risk in the workplace, etc.         3. To impart knowledge on the principles of life insurance and types of policies       4. To teach students on the nature and types of non-life insurance of the workplace, etc.         5. To make the students understand on the various aspects of risk management       18         Unit: 1       Introduction to Insurance and Risk       18         History of Insurance in world and India- Need for Insurance – Nature and Working of Insurance – Major Types of Insurance in due their Features – Importance of Insurance Industry - Role of Insurance – Nature and Policy types       18         Privatization and Liberalization in India- India Insurance Market- New Entrants to the Indian Insurance Market. – Risk- Meaning – advantage.       18         Various Schemes – Characteristics of an Insurable risk – Role of Insurance-Influencing Demand for Insurance - First Premium – Renewal – Mode of Premium Payment – Limited Period Payment and Single Premium – Lapse & Revival – Paid Up Policy – Deferment Period – Nomination & Assignment of Policy – Bomus – Surrender Value.       20         Introduction of General Insurance Concept and Need- Essential Features and Requirements of Fire Policy, Loss of Profits Policy, Marine Cargo Policy, Marine Hull Policy and Motor Insurance and Reinsurance.       20         Introduction of General Insurance Cover Notes – Certificates of Insurance – Open Policy – Floater – Excess – Franchise – Claims – Salvage – Coinsurance – Loss: T	Nature of cours	e: EMPLOYABILITY	✓	SKILL ORIENTED	ENTREPRE	NEU	RSH	IP	
1. To familiarize the student's competence in Insurance at an advanced level         2. To focus on increasing proficiency in the basic Insurance, rules, policy, Risk in the workplace, etc.         3. To impart knowledge on the principles of life insurance and types of policies         5. To make the students understand on the various aspects of risk management         Unit: I       Introduction to Insurance and Risk       18         History of Insurance in world and India- Need for Insurance – Nature and Working of Insurance – Major       Types of Insurance and their Features – Importance of Insurance Industry - Role of Insurance in Economic Development – Insurance and Social Security – Reforms in the Insurance Sector-Privatization and Liberalization in India - India Insurance Market. – New Entrants to the Indian Insurance Market. – New Entrants to the Indian Insurance Market. – Risk- Meaning – advantage.       18         Various Schemes – Characteristics of an Insurable risk – Role of Insurance-Life Insurance Product – Various Schemes – Characteristics of an Insurable risk – Role of Insurance-Intencing Demand for Insurance - First Premium – Renewal – Mode of Premium Payment – Limited Period Payment and Single Premium – Lapse & Revival – Paid Up Policy – Deferment Period – Nomination & Assignment of Policy , Loss of Profits Policy, Marine Cargo Policy, Marine Hull Policy and Motor Insurance and Reinsurance and Reinsurance and Reduirements of Fire Policy, Loss of Profits Policy, Marine Cargo Policy, Marine Hull Policy and Motor Insurance and Reinsurance - General Insurance Cover Notes – Certificates of Insurance – Open Policy – Floater – Excess – Franchise – Claim, Salvage – Coinsurance – Loss: Total Loss, Actual or Constructive Loss-Valued Policy – Agreed Value – First Loss – Increased Valu	Course Objectives:								
2. To inpart knowledge on the principles of life insurance, and types of policies       Image: State of the	1. To familiarize the student's competence in Insurance at an advanced level 2. To focus on increasing proficiency in the basic Insurance, rules, policy. Pick in the workplace, etc.								
4. To teach students on the nature and types of non-life insurance policies       5. To make the students understand on the various aspects of risk management         Unit: I       Introduction to Insurance and Risk       18         History of Insurance in world and India- Need for Insurance – Nature and Working of Insurance – Major Types of Insurance and their Features – Importance of Insurance Industry - Role of Insurance in Economic Development – Insurance and Social Security – Reforms in the Insurance Sector-Privatization and Liberalization in India- Indian Insurance Market- New Entrants to the Indian Insurance Market Risk- Meaning – advantage.       18         Unit: II       Life Insurance Nature and Policy types       18         Nature of Life Insurance-Principles of Insurance-Terms used in Insurance-Life Insurance Product – Various Schemes – Characteristics of an Insurable risk – Role of Insurance - First Premium – Renewal – Mode of Premium Payment – Limited Period Payment and Single Premium – Lapse & Revival – Paid Up Policy – Deferment Period – Nomination & Assignment of Policy – Bonus – Surrender Value.       20         Introduction of General Insurance Cargo Policy, Marine Hull Policy and Motor Insurance and Reinsurance - General Insurance - Miscellaneous Policies like Personal Accident, Fidelity Guarantee, Health & Medi-claim, Burglary and Loss of Baggage- Co-insurance, Double Insurance and Reinsurance - General Insurance Cover Notes – Certificates of Insurance - Open Policy – Floater – Excess – Franchise – Claims – Salvage – Coinsurance – Loss: Total Loss, Actual or Constructive Loss- Valued Policy – Agreed Value – First Loss – Increased Value – Insurance Time or Institute Cargo Clauses – Solarium.       16         Public Sector Pioneers in	3. To impart kn	owledge on the principles of life	e ins	urance and types of polici	ies	piece	, etc.		
5. To make the students understand on the various aspects of risk management       III         Unit: I       Introduction to Insurance and Risk       I8         History of Insurance in world and India- Need for Insurance – Nature and Working of Insurance – Major       Types of Insurance and their Features – Importance of Insurance Industry - Role of Insurance in Economic Development – Insurance and Social Security – Reforms in the Insurance Sector-Privatization and Liberalization in India- Indian Insurance Market- New Entrants to the Indian Insurance Market. – Risk- Meaning – advantage.       I8         Vinit: II       Life Insurance Nature and Policy types       I8         Nature of Life Insurance Principles of Insurance-Terms used in Insurance - Life Insurance Product – Various Schemes – Characteristics of an Insurable risk – Role of Insurance - Kaistore – Sirst Premium – Renewal – Mode of Premium Payment – Limited Period Payment and Single Premium – Lapse & Revival – Paid Up Policy – Deferment Period – Nomination & Assignment of Policy – Bonus – Surrender Value.       20         Introduction of General Insurance - Concept and Need- Essential Features and Requirements of Fire Policy, Loss of Profits Policy, Marine Cargo Policy, Marine Hull Policy and Motor Insurance market and Reinsurance - General Insurance Cover Notes – Certificates of Insurance, Duble Insurance and Reinsurance – Surance, Duble Insurance and Reinsurance - General Insurance Cover Notes – Certificates of Insurance, Open Policy – Floater – Excess – Franchise – Claims – Salvage – Coinsurance – Loss: Total Loss, Actual or Constructive Loss-Valued Policy – Agreed Value – Full Value – First Loss – Increased Value – Insurance Agents and Brokers – Surveyors – Medical Examiners – Third Party Administrators – Regulators: I	4. To teach stud	lents on the nature and types of	non-	life insurance policies					
Unit: 1       Introduction to Insurance and Risk       18         History of Insurance in world and India- Need for Insurance – Nature and Working of Insurance – Major       Types of Insurance and their Features – Importance of Insurance Industry - Role of Insurance in Economic Development – Insurance and Social Security – Reforms in the Insurance Sector-Privatization and Liberalization in India- Indian Insurance Market- New Entrants to the Indian Insurance Market. – Risk- Meaning – advantage.       18         Nature of Life Insurance-Nature and Policy types       18         Nature of Life Insurance-Principles of Insurance-Terms used in Insurance-Life Insurance Product – Various Schemes – Characteristics of an Insurable risk – Role of Insurance-Factors influencing Demand for Insurance - First Premium – Renewal – Mode of Premium Payment – Limited Period Payment and Single Premium – Lapse & Revival – Paid Up Policy – Deferment Period – Nomination & Assignment of Policy – Bonus – Surrender Value.         Unit: III       Non-Life Insurance - Concept and Need- Essential Features and Requirements of Fire Policy, Loss of Profits Policy, Marine Cargo Policy, Marine Hull Policy and Motor Insurance Policy including Vehicle and Third Party Insurance - Miscellaneous Policies like Personal Accident, Fidelity Guarantee, Health & Medi-claim, Burglary and Loss of Baggage- Co-insurance, Double Insurance and Reinsurance and Policy – Sector Notes – Certificates of Insurance – Open Policy – Floater – Excess – Franchise – Claims – Salvage – Coinsurance – Loss: Total Loss, Actual or Constructive Loss-Valued Policy – Agreed Value – First Isms in India       16         Public Sector Pioneers in Life and General Insurance Activities — Role of Insurance Agents and Brokers – Surveyors – Medical Examiners – Third Part	5. To make the	students understand on the vari	ous a	spects of risk management	nt				
History of Insurance in world and India- Need for Insurance – Nature and Working of Insurance – Major Types of Insurance and their Features – Importance of Insurance Industry - Role of Insurance Sector- Privatization and Liberalization in India- Indian Insurance Market- New Entrants to the Indian Insurance Market. – Risk- Meaning – advantage. Unit: II Life Insurance Nature and Policy types 18 Nature of Life Insurance Nature and Policy types 18 Nature of Life Insurance-Principles of Insurance-Terms used in Insurance-Life Insurance Product – Various Schemes – Characteristics of an Insurable risk – Role of Insurance-Factors influencing Demand for Insurance - First Premium – Renewal – Mode of Premium Payment – Limited Period Payment and Single Premium – Lapse & Revival – Paid Up Policy – Deferment Period – Nomination & Assignment of Policy – Bonus – Surrender Value. Unit: III Non-Life Insurance and Policy types 20 Introduction of General Insurance - Concept and Need- Essential Features and Requirements of Fire Policy, Loss of Profits Policy, Marine Cargo Policy, Marine Hull Policy and Motor Insurance and Reinsurance - General Insurance Cover Notes – Certificates of Insurance – Open Policy – Floater – Excess – Franchise – Claims – Salvage – Coinsurance – Loss: Total Loss, Actual or Constructive Loss- Valued Policy – Agreed Value – First Loss – Increased Value – Insurance Time or Institute Cargo Clauses – Solarium. Unit: IV Life and Non-Life Insurers Firms in India 16 Public Sector Pioneers in Life and General Insurance Activities — Role of Insurance Agents and Brokers – Surveyors – Medical Examiners – Third Party Administrators – Regulators: Insurance Regulatory and Development Authority (IRDA) of India- Insurance Policy in Surance Regulatory and Development Authority (IRDA) of India- Insurance Pricing : Factors and Determinants. Unit: V Insurance Customers and Risk Management Insurance Customers: Mind Set as to Insurance- Investment or Risk Management – Compulsion Vs Voluntarism- Ethical Be	Unit: I Int	roduction to Insurance and R	isk	r				8	
Types of Insurance and unter Features – Importance of Insurance Industry – Role of Insurance of Insurance Economic Development – Insurance and Social Security – Reforms in the Insurance Sector-Privatization and Liberalization in India - Indian Insurance Market - New Entrants to the Indian Insurance Market. – Risk- Meaning – advantage.       18         Unit: II       Life Insurance Nature and Policy types       18         Nature of Life Insurance-Principles of Insurance-Terms used in Insurance-Factors influencing Demand for Insurance - First Premium – Renewal – Mode of Premium Payment – Limited Period Payment and Single Premium – Lapse & Revival – Paid Up Policy – Deferment Period – Nomination & Assignment of Policy – Bonus – Surrender Value.       20         Introduction of General Insurance - Concept and Need- Essential Features and Requirements of Fire Policy, Loss of Profits Policy, Marine Cargo Policy, Marine Hull Policy and Motor Insurance and Reinsurance - General Insurance Cover Notes – Certificates of Insurance – Open Policy – Floater – Excess – Franchise – Claims – Salvage – Coinsurance – Loss: Total Loss, Actual or Constructive Loss-Value Policy – Agreed Value – First Disarance Activities — Role of Insurance Agents and Brokers – Surveyors – Medical Examiners – Third Party Administrators – Regulators: Insurance Regulatory and Development Authority (IRDA) of India - Insurance Councils – Ombudsmen – Educational Institutes – Councils – Tariff Advisory Committe – Insurance Rusters: Mind Set as to Insurance- Investment or Risk Management – Compulsion Vs Voluntarism- Ethical Behavior – Risk	History of Insu	ance in world and India- Need	tor	Insurance – Nature and W	orking of Ins	uranc	e - N	lajor	
Incomme       Instrance       and Social Security – Reforms in the Instrance Security         Privatization       and Liberalization in India- Indian Insurance Market- New Entrants to the Indian Insurance         Market. – Risk- Meaning – advantage.       18         Nature of Life Insurance-Principles of Insurance-Terms used in Insurance-Life Insurance Product –       18         Nature of Life Insurance-Principles of Insurance-Terms used in Insurance-Factors influencing Demand for Insurance - First Premium – Renewal – Mode of Premium Payment – Limited Period Payment and Single Premium – Lapse & Revival – Paid Up Policy – Deferment Period – Nomination & Assignment of Policy – Bonus – Surrender Value.       20         Introduction       of General Insurance Concept and Need- Essential Features and Requirements of Fire Policy, Loss of Profits Policy, Marine Cargo Policy, Marine Hull Policy and Motor Insurance Policy including Vehicle and Third Party Insurance- Miscellaneous Policies like Personal Accident, Fidelity Guarantee, Health & Medi-claim, Burglary and Loss of Baggage- Co-insurance, Double Insurance and Reinsurance- General Insurance Cover Notes – Certificates of Insurance – Open Policy – Floater – Excess – Franchise – Claims – Salvage – Coinsurance – Loss: Total Loss, Actual or Constructive Loss-Valued Policy – Agreed Value – Full Value – First Loss – Increased Value – Insurance Agents and Brokers – Surveyors – Medical Examiners – Third Party Administrators – Regulators: Insurance Regulator: and Development Authority (IRDA) of India- Insurance Policy : Factors and Brokers – Surveyors – Medical Examiners – Third Party Administrators – Regulators: Insurance Regulators: Insurance Customers and Risk Management       18         Individual and Corporate Ins	Economic Do	ance and their Features – In	iport Soci	ance of insurance indus	in the Incu	ronco		e in	
Initial and Electric Nature and Policy types       18         Market. – Risk. Meaning – advantage.       18         Nature of Life Insurance Nature and Policy types       18         Nature of Life Insurance-Principles of Insurance-Terms used in Insurance- Life Insurance Product – Various Schemes – Characteristics of an Insurable risk – Role of Insurance-Factors influencing Demand for Insurance - First Premium – Renewal – Mode of Premium Payment – Limited Period Payment and Single Premium – Lapse & Revival – Paid Up Policy – Deferment Period – Nomination & Assignment of Policy – Bonus – Surrender Value.       20         Introduction of General Insurance and Policy types       20         Introduction of General Insurance Concept and Need- Essential Features and Requirements of Fire Policy, Loss of Profits Policy, Marine Cargo Policy, Marine Hull Policy and Motor Insurance Policy including Vehicle and Third Party Insurance- Miscellaneous Policies like Personal Accident, Fidelity Guarantee, Health & Medi-claim, Burglary and Loss of Baggage- Co-insurance, Double Insurance and Reinsurance- General Insurance Cover Notes – Certificates of Insurance – Open Policy – Floater – Excess – Franchise – Claims – Salvage – Coinsurance – Loss: Total Loss, Actual or Constructive Loss-Valued Policy – Agreed Value – Full Value – First Loss – Increased Value – Insurance Time or Institute Cargo Clauses – Solarium.         Unit: IV       Life and Non-Life Insurers Firms in India       16         Public Sector Pioneers in Life and General Insurance Activities – Role of Insurance Agents and Brokers – Surveyors – Medical Examiners – Third Party Administrators – Regulators: Insurance Regulatory and Development Authority (IRDA) of India- Insurance Pricing : Factors and	Privatization an	d Liberalization in India- India	n Inc	al Security – Kelorins surance Market- New Ent	rants to the In	dian 1	neur	ance	
Unit: II       Life Insurance Nature and Policy types       18         Nature of Life Insurance-Principles of Insurance-Terms used in Insurance- Life Insurance Product –       Various Schemes – Characteristics of an Insurable risk – Role of Insurance-Factors influencing Demand for Insurance - First Premium – Renewal – Mode of Premium Payment – Limited Period Payment and Single Premium – Lapse & Revival – Paid Up Policy – Deferment Period – Nomination & Assignment of Policy – Bonus – Surrender Value.       20         Unit: III       Non-Life Insurance and Policy types       20         Introduction of General Insurance Concept and Need- Essential Features and Requirements of Fire Policy, Loss of Profits Policy, Marine Cargo Policy, Marine Hull Policy and Motor Insurance Policy including Vehicle and Third Party Insurance- Miscellaneous Policies like Personal Accident, Fidelity Guarantee, Health & Medi-claim, Burglary and Loss of Baggage- Co-insurance, Double Insurance and Reinsurance- General Insurance Cover Notes – Certificates of Insurance – Open Policy – Floater –         Excess – Franchise – Claims – Salvage – Coinsurance – Loss: Total Loss, Actual or Constructive Loss-Valued Policy – Agreed Value – Full Value – First Loss – Increased Value – Insurance Time or Institute Cargo Clauses – Solarium.         Unit: IV       Life and Non-Life Insurers Firms in India       16         Public Sector Pioneers in Life and General Insurance Activities – Role of Insurance Agents and Brokers – Surveyors – Medical Examiners – Third Party Administrators – Regulators: Insurance Regulatory and Development Authority (IRDA) of India- Insurance Pricing : Factors and Determinants.       18         Individual and Corporate Insurance Customers –	Market. – Risk-	Meaning – advantage.	II IIIc	Surance Market- New Lin	rants to the m		insur	ance	
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	Volume – I Arts Syllabus / 2021 - 2022						
Mar	agement Attitude Control of Risk- Avoidance, Prevention, Reduction, Retention	or Transfer-					
Fact	ors Influencing Policyholder Satisfaction- Retention of Customers by Insurers.						
	Total H	Iours 90					
Boo	ok for Study						
1.	Alka Mittal and Gupta S L , <i>Principles of Insurance and Risk Management</i> , Sultan Ch	and & Sons,					
	New Delhi., 2013						
Boo	ks for Reference						
1.	Periasamy P, Principles and Practice of Insurance, Himalaya Publishing House.2011						
2.	Mishra M N & Mishra S B, Insurance-Principles and Practice, S. Chand & Con	mpany, New					
	Delhi.2010.	1 37					
Wel	o Resources:						
1.	http://ndl.iitkgp.ac.in/document/aUUzSzg0NXozaDZheVpnMEtnb3lZbW5oVXhRa	DVXMXR					
	<b>2ZGE4NTY0RzlaVT0</b> (Source: National Digital Library of India)						
2.	http://ndl.iitkgp.ac.in/document/aUUzSzg0NXozaDZheVpnMEtnb3lZa0.16REIUOHgyaGc3On						
	Vuc2UzUiU1MD0 (Source: National Digital Library of India)						
3.	https://voutu.be/IPIC7M4 K00 (Source: CEC EduSat)						
4.	https://youtu.be/xfguWRVOOfO (Source: Inflibnet-e-PG Pathshala)						
5.	https://youtu.be/6FLA8Wpg.IDc (Source: NPTEL)						
CO		K Level					
Afte	er the completion of the course the student will be able to.						
CO	1 Understand the basics of insurance and risk	Up to K2					
CO	2 Interpret the types of Life Insurance Policies and various schemes	Up to K5					
CO	3 Describe concept of non life insurance policies (Fire and Marine) and indicate	Up to K4					
00	various policy conditions	cp to m					
CO	4 Understand the Life and Non-Life Insurers Firms in India and the operation of	Un to K3					
	- IRDA						
CO	5 Recognize the various aspects of risk management	Up to K3					

# CO & PO Mapping:

COS	<b>PO 1</b>	<b>PO 2</b>	<b>PO 3</b>	PO 4	<b>PO 5</b>	<b>PO 6</b>
CO 1	3	3	2	2	2	3
CO 2	3	3	3	3	3	3
CO 3	3	3	3	3	3	3
<b>CO 4</b>	3	3	3	3	3	3
CO 5	3	3	2	3	3	3

\*3 – Advanced Application; 2 – Intermediate Development; 1 - Introductory Level
# **LESSON PLAN**

UNIT	INSURANCE AND RISK MANAGEMENT	Hrs	Mode
Ι	<b>Introduction to Insurance</b> History of Insurance in world and India- Need for Insurance –Types & Features – Importance - Role Reforms in the Insurance Sector- Privatization and Liberalization - Indian Insurance Market- Risk.	18	Lecture / (PPT)
Π	Life Insurance Nature and Policy types Life Insurance Product–Schemes– Characteristics-Risk–Role -Factors influencing Demand-First Premium–Renewal–Lapse & Revival – Paid Up Policy–Deferment Period–Nomination & Assignment of Policy– Bonus–Surrender Value.	18	Lecture (PPT)
III	Non-Life Insurance and Policy types General Insurance- Fire Policy, Marine Cargo Policy, Marine Hull Policy and Motor Insurance, Third Party Insurance- General Insurance Cover Notes – Certificates of Insurance –Loss- Valued Policy – Agreed Value – Full Value – First Loss – Increased Value – Insurance Time or Institute Cargo Clauses – Solarium.	20	Lecture (PPT)
IV	Life and Non-Life Insurers Firms in India Public Sector Pioneers in Life and General Insurance Activities — Role of Insurance Agents and Brokers – Surveyors – Medical Examiners – Third Party Administrators – Regulators - Insurance Pricing : Factors and Determinants.	16	Lecture (PPT)
V	Insurance Customers and Risk Management Individual and Corporate Insurance Customers –Investment or Risk Management – Compulsion Vs Voluntarism- Ethical Behavior – Risk Management Attitude Control of Risk- Factors Influencing Policyholder.	18	Lecture (PPT)

Course designated by:

Dr. R. Kajapriya, Assistant Professor.

&

Dr. B. Kothai Nachiar, Assistant Professor.

Learning (	Learning Outcome Based Education & Assessment (LOBE)Formative Examination - Blue Print Articulation Mapping – K Levels with Course Outcomes (COs)									
Internet	Cos		Section A MCOs		Section B Short Answers		Section C	Section D		
Internal		K Level	No. of. Questions	K -	No. of. Questions	K –	Choice	Open Choice		
CIAI	CO1	Up To K2	2	K1,K2	2 l	K1	2(K2&K2)	1(K2)		
CIAI	CO2	Up To K5	2	K1,K2	2	K2	2(K4&K4)	1(K5)		
CLAII	CO3	Up To K4	2	K1,K2	1	K2	2(K4&K4)	1(K4)		
<b>UI AII</b>	<b>CO4</b>	<b>Up To K3</b>	2	K1,K2	2	K2	2(K3&K3)	1(K2)		
		No. of Questions to be asked	4		3		4	2		
Question Pattern CIA I & II		No. of Questions to be answered	4		3		2	1		
		Marks for each question	1		2		5	10		
		Total Marksfor each section	4		6		10	10		

**\*Note:** It is the decision of the course teacher to ask 2 Questions in any unit under section-B (short answer questions)

	Dist ibution of Marks with K Level CIA I & CIA II											
	K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either / Or Choice)	Section D (Open Choice)	Total Marks	% of (Marks without choice)	nsolidateof %				
	K1	2	2	-	-	4	8	60				
	K2	2	4	10	10	26	52	00				
	K3	-	-	-	-	-	-	-				
CTAT	K4	-	-	10	-	10	20	20				
CIAI	K5	-	-	-	10	10	20	20				
	Marks	4	6	20	20	50	100	100				
	K1	2	-	-	-	2	4	40				
	K2	2	6	-	10	18	36	40				
	K3	-	-	10	-	10	20	20				
CIAII	K4	-	-	10	10	20	40	40				
	K5	-	-	-	-	-	-	-				
	Marks	4	6	20	20	50	100	100				

K1- Remembering and recalling facts with specific answers

K2- Basic understanding of facts and stating main ideas with general answers

K3- Application oriented- Solving Problems

K4- Examining, analyzing, presentation and make inferences with evidences

CO5 will be allotted for individual Assignment which carries five marks as part of CIA component.

S	Summative Examination – Blue Print Articulation Mapping – K Level with Course Outcomes (COs)									
		K - Level	MCC	2s	Short An	swers	Section C	Section D		
S.No COs	COs		No. of Questions	K – Level	No. of Question	K – Level	(Either / or Choice)	(Open Choice)		
1	CO1	<b>Up To K2</b>	2	K1,K2	1	K1	2(K2&K2)	1(K2)		
2	CO2	Up To K5	2	K1,K2	1	K2	2(K4&K4)	1 (K5)		
3	CO3	Up To K4	2	K1,K2	1	K2	2(K4&K4)	1 (K4)		
4	CO4	Up To K3	2	K1,K2	1	K2	2(K3&K3)	1(K3)		
5	CO5	Up To K3	2	K1,K2	1	K2	2(K3&K3)	1(K3)		
No	of Quest. Aske	ions to be ed	10		5		10	5		
No. of Questions to be answered		10		5		5	3			
Marks for each question		1		2		5	10			
Total Marks for each section		10		10		25	30			
	(Figures	in parenthesi	is denotes, qu	iestions s	hould be as	ked with	the given K	level)		

	Summative Examinations - Distribution of Marks with K Level										
K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either/ or Choice)	Section D ( Open Choice)	Total Marks	% of (Marks without choice)	Consolidated %				
K1	5	1	-	-	7	5.83	34				
K2	5	4	2	1	33	27.5	54				
K3	-	-	4	2	40	33.33	33				
K4	-	-	4	1	30	25	25				
K5	-	-	-	1	10	8.33	8				
Marks	10	10	50	50	120	100	100				
NB: Hig of K lev	gher level of p els.	NB: Higher level of performance of the students is to be assessed by attempting higher level of K levels.									

Section	Section A (Multiple Choice Questions)							
Answei	r All Q	uestions	(10x1=10 marks)					
Q. No	CO	K Level	Questions					
1	CO1	K1						
2	CO1	K2						
3	CO2	K1						
4	CO2	K2						
5	CO3	K1						
6	CO3	K2						
7	CO4	K1						
8	CO4	K2						
9	CO5	K1						
10	CO5	K2						
Section	B (She	ort Answei	rs)					
Answei	r All Q	uestions	(5x2=10 marks)					
Q. No	CO	K Level	Questions					
11	CO1	K1						
12	CO2	K2						
13	CO3	K2						
14	CO4	K2						
15	CO5	K2						
Section	C (Eit	her/Or Ty	pe)					
Answei	r All Q	uestions	(5  x  5 = 25  marks)					
<b>Q. No</b>	<u>CO</u>	K Level	Questions					
16) a	COI	K2						
16) b		K2						
1/) a	<u>CO2</u>	K4						
1/)b	<u>CO2</u>	K4						
18) a	<u>CO3</u>	K4						
18) b	<u>CO3</u>	K4 K2						
19) a	<u>CO4</u>	K3 K2						
19) b	<u>CO4</u>	K3 K2						
20) a	<u>C05</u>	K3 K2						
20) D	$\frac{005}{2}$	KJ vol of moref	among of the students is to be assessed by attempting high or					
ND: HI	gner ie	ver of peri	ormance of the students is to be assessed by attempting figher					
Section	$\mathbf{N}$ leve	an Choice						
Answor	Section D (Open Unoice)							
		K I ovol	Augestions (JAIV-JU MarKs)					
21	$\frac{00}{01}$	K2	Questions					
21	$\frac{001}{002}$	K5						
22	<u>CO2</u>	K4						
23	$\frac{003}{004}$	K3						
25	CO5	K3						
25	005	11.5						

# **Summative Examinations - Question Paper – Format**



Academic Council Meeting Held On 29.04.2021



### MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

Course Name	APPLIED COSTING								
Course Code	21PCC21	21PCC21							
Category	gory Core						4		
Nature of course: EMPLOYABILITY ✓ SKILL ORIENTED ENTREPRENEURS						HIP			
Course Objecti	ves:								
1. To familiariz	ze the students with the var	ious	s cost concepts, and eler	nents of cost.					
2. To enable th	<ol> <li>To enable the students to prepare cost sheets.</li> </ol>								
3. To apply dif	ferent methods and techniq	ues	of cost control.						

4. To acquaint the application of costing methods.

5. To apply the appropriate tools to take decisions.

**COST ACCOUNTING AND COST CONCEPT (CAS-6)** Unit: I

Cost Accounting - Meaning - Objectives And Importance - Installation Of Cost Accounting -Status And Functions Of Cost Accountant - Cost Concepts: Elements Of Cost -Consumption Of Total Cost -Classification Of Cost - Cost Sheet - Material Cost And Control -Objectives Of Material Control - Material Control Material Control Techniques - EOQ - Material Level Setting -Activity Based Costing.

EMPLOYEE COST (CAS - 7)AND OVERHEADS(CAS - 3) 18 Unit: II Employee (Labour) cost - Cost Control - Attendance & Payroll Procedures - IdleTime - Overtime - Labour Utilization - Systems of Wage Payment and Incentives - Absorption of Wages -Efficiency Rating Procedures - Employee (Labour) Turnover - Overheads Costing -Introduction -Classification of Overheads - Accounting and Control of Manufacturing Overheads - Steps for the Distribution of Overheads – Methods of Absorbing Overheads – Types of Overhead rates Treatment of Under-Absorbed and Over-Absorbed Overheads - Accounting and control of Administrative, Selling and Distribution Overheads - Concept related to capacity - Treatment of Certain Items in Costing.

#### Unit: III | OPERATING COSTING

Operating Costing-Services Costing-Transport - Electricity Generation- Single unit or Output Costing – Job and Batch Costing.

Unit: IV PROCESS COSTING

Features of Process Costing-Distinction between Process And Job Costing-Costing Procedure Normal And Abnormal Process Losses & Gains-Inter Process Profits-Equivalent Production methods of computing equivalent units - Joint And By Products costing - accounting for joint products & by-products.

Unit: V INTEGRATED & NON - INTEGRATED ACCOUNTING SYSTEM 18 Introduction -- Non- Integrated Accounting System - Integrated /Integral Accounting System -Reconciliation of Cost and Financial Accounts - Accounting and Management Information and cost control -Cost management - Cost Reduction - Target Costing -Life Cycle.

#### (20% Theory and 80% Problems)

**Book for study** 

- 1. Jain S.P & Narang K.L, Cost Accounting, Kalyani Publishers, 2015.
- 2. Reddy T S and Hari Prasad Reddy, Cost and Management Accounting, Margham Publications,

#### Academic Council Meeting Held On 29.04.2021

90

**Total Hours** 

18

18

18

#### 2018

#### **Books for Reference**

- 1. Arora M N, Cost and Management Accounting, Himalaya Publishing House, 2017.
- 2. Murthy A and Gurusamy S, Cost Accounting, Vijay Nicole Imprints Pvt. Ltd, 2018.

Web R	Resources						
1. http	1. https://play.google.com/store/apps/details?hl=en&id=com.mhrd.ndl						
COURSE OUTCOMES							
After t	After the completion of the course the student will be able to,						
CO1	Understand the basic concepts of costing and its profitability techniques in	Up To V2					
	business	Up 10 K2					
	Gain knowledge of different methods of payment of wages and incentives &						
CO2	assess the allocation and apportionment of overhead among production and	Up To K4					
	service department						
CO3	Identify the operating costing methods practiced by different sectors	<b>Up To K5</b>					
<b>CO4</b>	Examine the methods of process costing to avoid losses	<b>Up To K3</b>					
CO5	Get acquaintance with the application of Integrated Accounting system	Up To K3					

#### CO & PO Mapping:

COS	<b>PO 1</b>	PO 2	<b>PO 3</b>	PO 4	PO 5	<b>PO 6</b>
CO 1	2	2	2	3	2	3
CO 2	3	3	3	3	3	3
CO 3	3	3	3	3	3	3
<b>CO 4</b>	3	3	3	3	2	3
CO5	2	3	3	2	2	2

\*3 – Advanced Application; 2 – Intermediate Development; 1 - Introductory Level

#### LESSON PLAN

UNIT	SUBJECT NAME	Hrs	Mode
I	<b>COST ACCOUNTING AND COST CONCEPT (CAS-6)</b> Cost Accounting — Status And Functions Of Cost Accountant - Cost Concepts - Cost Sheet – Material Cost And Control — EOQ – Material Level Setting - Activity Based Costing.	18	Lecture- Chalk & Talk
Ш	<b>EMPLOYEE COST (CAS - 7)AND OVERHEADS(CAS - 3):</b> Employee cost – Cost Control – Attendance & Payroll Procedures – Idle Time – Overtime – Labour Utilization – Systems of Wage Payment and Incentives – Overheads –Concept related to capacity – Treatment of Certain Items in Costing.	18	Lecture- Chalk & Talk
ш	<b>OPERATING COSTING</b> Operating and Operation Costing-Services Costing-Transport, Electricity Generation, Single unit or Output Costing – Job and Batch Costing.	18	Lecture- Chalk & Talk
IV	<b>PROCESS COSTING</b> Distinction between Process And Job Costing-Costing Procedure - Normal And Abnormal Process Losses & Gains-Inter Process Profits- Equivalent Production - accounting for joint products & by-products.	18	Lecture- Chalk & Talk
V	<b>INTEGRATED &amp; NON - INTEGRATED ACCOUNTING</b> <b>SYSTEM:</b> Introduction –Reconciliation of Cost and Financial Accounts – Accounting and Management Information and cost control -Cost management – Cost Reduction – Target Costing –Life Cycle.	18	Lecture- Chalk & Talk

Course Designed by,

Dr. K. Bala Sathya, Assistant Professor.

&

Dr. S. Ganesan, Associate Professor.

	Articulation Mapping – K Levels with Course Outcomes (COs)								
			Sectior	n A	Section	n B	Seation C		
Intornal	Cog	<b>V</b> L ovol	MCQs		Short Answers		Section C	Section D	
Internal	Cos	K Level	No. of.	К -	No. of. K –		Choice	<b>Open Choice</b>	
			Questions	Level	Questions	Level	Choice		
CIAI	CO1	<b>Up To K2</b>	2	K1,K2	1	K1	2(K2&K2)	1(K2)	
CIAI	CO2	<b>Up To K4</b>	2	K1,K2	2	K2	2(K4&K4)	1(K3)	
CI AII	CO3	Up To K5	2	K1,K2	1	K2	2(K4&K4)	1 (K5)	
	<b>CO4</b>	Up To K3	2	K1,K2	2	K2	2(K3&K3)	2(K2)	
		No. of						_	
		Questions to	4		3		4	2	
		be asked							
		No. of							
Question 1	Pattern	Questions to	4		3		2	1	
CIAI	& II	be answered							
	~ 11	Marks for each	1		2		5	10	
		question	1				5	10	
		Total Marksfor							
		each	4		6		10	10	
		section							

ning Outcome Resed Education & Assessment (LORE) Formative Examination -Rhua Print

\*Note: It is the decision of the course teacher to ask 2 Questions in any unit under section-B (short answer questions)

	Distribution of Marks with K Level CIA I & CIA II											
	K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either / Or Choice)	Section D (Open Choice)	Total Marks	% of (Marks without choice)	nsolidateof %				
	K1	2	2	-	-	4	8	60				
	K2	2	4	10	10	26	52	00				
	K3	-	-	-	10	10	20	20				
CTAT	K4	-	-	10	-	10	20	20				
	K5	-	-	-	-	-	-	-				
	Marks	4	6	20	20	50	100	100				
	K1	2	-	-	_	2	4	40				
	K2	2	6	-	10	18	36	40				
	K3	-	-	10	_	10	20	20				
CIAII	K4	-	-	10	10	20	40	40				
	K5	-	-	-	_	-	-	-				
	Marks	4	6	20	20	50	100	100				

K1- Remembering and recalling facts with specific answers

**K2**- Basic understanding of facts and stating main ideas with general answers

**K3**- Application oriented- Solving Problems

K4- Examining, analyzing, presentation and make inferences with evidences

CO5 will be allotted for individual Assignment which carries five marks as part of CIA component.

S	Summative Examination – Blue Print Articulation Mapping – K Level with Course Outcomes (COs)									
			MCOs		Short An	swers	Section C			
S.No	COs	K - Level	No. of Questions	K – Level	No. of Question	K – Level	(Either / or Choice)	(Open Choice)		
1	CO1	<b>Up To K2</b>	2	K1,K2	1	K1	2(K2&K2)	1(K2)		
2	CO2	Up To K4	2	K1,K2	1	K2	2(K4&K4)	1 (K4)		
3	CO3	<b>Up To K5</b>	2	K1,K2	1	K2	2(K4&K4)	1 (K5)		
4	<b>CO4</b>	<b>Up To K3</b>	2	K1,K2	1	K2	2(K3&K3)	1(K3)		
5	CO5	<b>Up To K3</b>	2	K1,K2	1	K2	2(K3&K3)	1(K3)		
No	of Quest. Aske	ions to be ed	10		5		10	5		
No. of Questions to be answered		ions to be red	10		5		5	3		
Mar	ks for eac	ch question	1		2		5	10		
Total Marks for each section		10		10		25	30			
	(Figures	in parenthesi	is denotes, qu	estions s	hould be as	ked with	the given K	level)		

	Sum	mative Exan	ninations - D	Distribution	of Mark	s with K	Level		
K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either/ or Choice)	Section D ( Open Choice)	Total Marks	% of (Marks without choice)	Consolidated %		
K1	5	1	-	-	7	5.83	24		
K2	5	4	2	1	33	27.5	54		
K3	-	-	4	2	40	33.33	33		
K4	-	-	4	1	30	25	25		
K5	-	-	-	1	10	8.33	8		
Marks	10	10	50	50	120	100	100		
NB: Hig	NB: Higher level of performance of the students is to be assessed by attempting higher level								
of K lev	els.								

Section	A (Mul	tiple Choice	e Questions)
Answer	All Qu	estions	(10x1=10 marks)
Q. No	CO	K Level	Questions
1	CO1	K1	
2	CO1	K2	
3	CO2	K1	
4	CO2	K2	
5	CO3	K1	
6	CO3	K2	
7	CO4	K1	
8	CO4	K2	
9	CO5	K1	
10	CO5	K2	
Section	B (Shoi	rt Answers)	
Answer	All Qu	estions	(5x2=10 marks)
Q. No	CO	K Level	Questions
11	CO1	K1	
12	CO2	K2	
13	CO3	K2	
14	CO4	K2	
15	CO5	K2	
Section	C (Eith	er/Or Type	
Answer	All Qu	estions	(5  x  5 = 25  marks)
Q. No	CO	K Level	Questions
16) a	CO1	K2	
16) b	CO1	K2	
17) a	CO2	K4	
17) b	CO2	K4	
18) a	CO3	K4	
18) b	CO3	K4	
19) a	CO4	K3	
19) b	CO4	K3	
20) a	CO5	K3	
20) b	CO5	K3	
NB: Hig	gher lev	el of perfor	mance of the students is to be assessed by attempting higher level of K
levels			
Section	D (Ope	n Choice)	
Answer	Any TI	nree questio	ons (3x10=30 marks)
<b>Q.No</b>		K Level	Questions
21		K2 K4	
22	CO2	K4	
23	CO3	K5 K2	
24	CO4	K3	
25	005	K3	

# **Summative Examinations - Question Paper – Format**



# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) **DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS** (For those who join in 2021-2022 and after)

Course Name	<b>BUSINESS RESEARCH METHODS</b>							
Course Code	21PCCC22		L	Р	С			
Category	CORE		6	-	4			
Nature of cours	e: EMPLOYABILITY - SKILL ORIENTED	✓ ENTREPRENE	URS	HIP	$\checkmark$			
Course Object	ives:							
1. Provide basic knowledge about the concept, tools and techniques of business research.								
2. Identify various sources of information for literature review and data collection.								
3. Teach the	preparation of questionnaire and Interview Sch	edule and formul	ate &	&Test	the			
Hypothesis.								
4. Help the stud	ents to adopt appropriate statistical tools for drawin	g inference.						
5. Write a resea	rch report and thesis.			1	0			
Unit: I Int	roduction To Research	1			8			
Meaning and D	efinition of Social Research – Objectives of Resear	ch – Types of Resea	arch -	Rese	earch			
process – Criter	ia of Good Research – Maintaining Objectivity in	Research – Problem	ns En	coun	tered			
by Researchers.					0			
Unit: II Pro	blem Formulation		1 · •		8			
Identifying Res	earch Problem – Sources of Research Problem –	Techniques Involved		Jefini	ng a			
Research Probl	em – Research Design: Meaning and Importance	e; Types of Resea	Irch I	Jesig	ns –			
Exploratory – L	Descriptive – Case Study Design.			1	0			
Unit: III Dat	ta Collection	0.1	<u>a 11</u>	1.	8			
Methods of L	lata Collection –Observation – Questionnaire	&Interviewing –	Guide	elines	for			
Constructing Q	Determining Congline Engage Determining Congline Engage	Design: Defining	Unr	verse	and			
Sampling Unit -	- Determining Sampling Frame – Probability and P	Non-Probability San		g Met	noas			
- Sample Size I	Determination – Sampling and Non sampling Error	s – Scaling Method	s – H	ypotr	lesis;			
Hypothesis For	nulation and Hypothesis Testing.			1	0			
Unit: IV Da	ta analysis and interpretation using SPSS	uia Analasia Tra	-4 /		ð 7 A			
Descriptive stat	istics – Factor Analysis – Reliability test – Parame	tric Analysis – 1-te	SI - F	ANO	$A - M_{a}$			
Correlation –Re	egression – Non-Parametric Analysis – Chi-squar	e – Sign Test – w	ncox	on –	IVIC-			
Iller A V	gorou Smirnov test – Mann- wnitney U test – Krusk	ai wanis H test.		1	0			
Denort Writing	Vinda of Dessent Dessents Stores in Dessent Wei	ing Lawayt of Da	1	1	8			
Report writing	- Kinds of Research Reports - Steps in Report with	ling – Layout of Res	searci	і кер	ort –			
Mechanics in W	Thing a Research Report –Precautions in writing a	Research Report.		0	0			
Dools for study				9	U			
<b>BOOK IOF Study</b>	: Anor Domalo & Schindler, J.K. Sharma (2012), Dua	inaa Daaaanah Ma	thada	Ma	<b>7</b>			
1. Donald R Co	Jper, Pameia 5 Schnuler, J K Sharma (2012), Dus India) Naw Dalhi	mess Research, Me	thous	, MCC	Jraw			
2 Kothari C P	Gauray Gara (2015) Research Methodology N	aw Aga Internation	5a1 (D	) I in	nitad			
2. Rothard C R	, Gaulav Gaig, (2015), Research Methodology N	ew Age Internation	iai (1	) Liii	meu			
Rook for Refer	0000							
1 Gunta S P (	2009) Statistical Methods S Chand& Sons Publish	er New Delhi						
2 MartynDen	scombe (2003) The Good Research Guide for St	mall Scale Research	hProi	ecte	Viva			
Books Pvt	Ltd.		in roju	,	, 1 , a			
Academic	Council Meeting Held On 29.04.2021		Pa	$1 \text{ ge } 3^{-1}$	)			

- 3. PankajMadan, VageeshPaliwal, RajulBhardwaj, (2010), Research Methodology,Global Vision Publishing House New Delhi.
- 4. Pillai R S N, and Bagavathi V (2010), Statistics, S.Chand& Sons Publisher, NewDelhi.

5. Suchdeva, (2010), "Business Research Methodology", Himalaya Publishing House, Mumbai.

#### Web Resources:

1.Natic	onal Digital Library		
COUR	RSE OUTCOME	K Level	
After o	completion of the course the student will be able to,		
CO1	Understand the Concepts Relating to Business Research, Types and Process.	K3	
CO2	Identify the Research Problem and Draw the Design.	K4	
CO3	Prepare Questionnaire and Interview Schedule and Formulate & Test the	K5	
005	Hypothesis.	K3	
CO4	Adopt Appropriate Statistical Tools for the Inferences.	K4	
<b>CO5</b>	Write a Research Report.	K3	

### CO & PO Mapping:

COS	<b>PO 1</b>	<b>PO 2</b>	<b>PO 3</b>	PO 4	<b>PO 5</b>	<b>PO 6</b>
CO 1	3	3	3	3	3	3
CO 2	3	3	3	3	3	3
CO 3	3	3	2	2	3	3
CO 4	3	3	2	3	2	3
CO5	3	3	3	3	3	3

\*3 – Advanced Application; 2 – Intermediate Development; 1 – Introductory Level

### **LESSON PLAN**

UNIT	SUBJECT NAME	Hrs	Mode
Ι	<b>Introduction to Research</b> Meaning and Definition of Social Research – Objectives of Research – Types of Research - Research process – Criteria of Good Research – Maintaining Objectivity in Research – Problems Encountered by Researchers.	18	PPT & Lecture
II	<b>Problem Formulation</b> Identifying Research Problem – Sources of Research Problem – Techniques Involved in Defining a Research Problem – Research Design: Meaning and Importance; Types of Research Designs – Exploratory – Descriptive – Case Study Design.	18	PPT & Lecture
III	Data CollectionMethods of DataCollection–Questionnaire &Interviewing –SampleDesign - SamplingFrame – Probability and Non-Probability SamplingMethods–SampleSizeDetermination–Errors–ScalingHypothesis.Hypothesis.	18	PPT & Lecture
IV	<b>Data analysis and Interpretation using SPSS</b> Descriptive statistics – Factor Analysis –Parametric Analysis – T-test – ANOVA – Correlation –Regression – Non-Parametric Analysis – Chi- square – Sign Test – Wilcoxon – Mc-Nemar –Kolmogorou Smirnov test – Mann-Whitney U test – Kruskal Wallis H test.	18	PPT & Lecture
V	<b>Report Writing</b> Report Writing – Kinds of Research Reports – Steps in Report Writing – Layout of Research Report – Mechanics in Writing a Research Report – Precautions in Writing a Research Report.	18	PPT & Lecture

Course Designed by:

Dr. V. Geetha, Assistant Professor. & Dr. V. Devika, Assistant Professor.

Volume – I Arts Syllabus / 2021 - 2022 Learning Outcome Based Education & Assessment (LOBE) **Formative Examination - Blue Print Articulation Mapping – K Levels with Course Outcomes (COs)** Section A Section B Section D Section C **MCOs Short Answers** Internal Cos **K** Level **Either or** Open No. of. К-No. of. К-Choice Choice Questions Level Questions Level **CO1** Up To K3 2 K1,K2 K1 2(K3&K3) 1(K2) 1 CI AI 2 K1,K2 2 CO2 Up To K4 K2 2(K4&K4) 1 (K4) CO3 Up To K5 2 K1,K2 1 K2 2(K4&K4) 1 (K5) CI 2 2 AII K1.K2 K2 2(K3&K3) **CO4** Up To K4 1 (K4) No. of Questions to 4 3 4 2 be asked No. of Questions to 3 2 Question 4 1 Pattern be answered CIA I & II Marks for each 1 2 5 10 question Total Marks for each 4 6 10 10 section

		D	istribution of	f Marks with	K Level CI	A I & CI	AII	
	K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either / Or Choice)	Section D (Open Choice)	Total Marks	% of (Marks without choice)	Consolidate of %
	K1	2	2	-	-	4	8	40
	K2	2	4	-	10	16	32	40
	K3	-	-	10	-	10	20	20
CIA	K4	-	-	10	10	20	40	40
Ι	K5	-	-	-	-	-	-	-
	Marks	4	6	20	30	60	100	100
	K1	2	-	-	-	2	4	20
	K2	2	6	-	-	8	16	20
СТА	K3	-	-	10	-	10	20	20
	K4	-	-	10	10	20	40	40
11	K5	_	_	_	10	10	20	20
	Marks	4	6	20	30	60	100	100

K1- Remembering and recalling facts with specific answers

K2- Basic understanding of facts and stating main ideas with general answers

K3- Application oriented- Solving Problems

K4- Examining, analyzing, presentation and make inferences with evidences

CO5 will be allotted for individual Assignment which carries five marks as part of CIA component.

S	Summative Examination – Blue Print Articulation Mapping – K Level with Course Outcomes (COs)									
			MCC	)s	Short An	swers	Section C	Section		
S.No COs	COs	K - Level	No. of	K –	No. of	K –	(Either / or	D (Open		
			Questions	Level	Question	Level	Choice)	Choice)		
1	CO1	Up To K3	2	K1,K2	1	K1	2(K3&K3)	1(K2)		
2	CO2	Up To K4	2	K1,K2	1	K2	2(K3&K3)	1 (K4)		
3	CO3	Up To K5	2	K1,K2	1	K2	2(K4&K4)	1 (K5)		
4	CO4	Up To K4	2	K1,K2	1	K2	2(K4&K4)	1(K4)		
5	CO5	Up To K3	2	K1,K2	1	K2	2(K3&K3)	1(K3)		
No	. of Quest	tions to be	10		5		10	5		
	Aske	ed	10		5		10	5		
No	. of Quest	tions to be	10		5		5	2		
	answe	ered	10		2		5	3		
Mar	ks for eac	ch question	1		2		5	10		
Total I	Marks for	each section	10		10		25	30		
	(Figures	in parenthesi	is denotes, qu	estions s	hould be asl	ked with	the given K le	vel)		

	Summative Examinations - Distribution of Marks with K Level									
K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either/ or Choice)	Section D ( Open Choice)	Total Marks	% of (Marks without choice)	Consolidated %			
K1	5	1	-	-	7	5.83	26			
K2	5	4	-	1	23	19.67	20			
K3	-	-	6	1	40	33.33	33			
K4	-	-	4	2	40	33.33	33			
K5	-	-	-	1	10	8.33	8			
Marks	10	10	50	50	120	100	100			
NB: Hig	NB: Higher level of performance of the students is to be assessed by attempting higher level									
of K lev	els.									

Section	Section A (Multiple Choice Questions)							
Answei	r All Q	uestions	(10x1=10 marks)					
Q. No	CO	K Level	Questions					
1	CO1	K1						
2	CO1	K2						
3	CO2	K1						
4	CO2	K2						
5	CO3	K1						
6	CO3	K2						
7	CO4	K1						
8	CO4	K2						
9	CO5	K1						
10	CO5	K2						
Section	B (Sho	ort Answer	·s)					
Answei	r All Q	uestions	(5x2=10 marks)					
Q. No	CO	K Level	Questions					
11	CO1	K1						
12	CO2	K2						
13	CO3	K2						
14	CO4	K2						
15	CO5	K2						
Section	C (Eit	her/Or Ty	pe)					
Answei	r All Q	uestions	(5  x  5 = 25  marks)					
Q. No	CO	K Level	Questions					
16) a	CO1	K3						
16) b	COl	K3						
17) a	<u>CO2</u>	K3						
17) b	<u>CO2</u>	K3						
18) a	<u>CO3</u>	K4						
18) b	<u>CO3</u>	K4						
19) a	<u>CO4</u>	K4						
19) b	<u>CO4</u>	K4						
20) a	<u>CO5</u>	K3						
20) b	<u>CO5</u>	K3						
NB: HI	gher le	vel of perf	ormance of the students is to be assessed by attempting higher					
level of	K leve		<u></u>					
Section	D (Op	en Choice	) (21020					
Answei	$\frac{r \text{ Any I}}{CO}$	I nree ques	tions (3x10=30 marks)					
<b>Q.NO</b>	$\frac{CO}{CO1}$	K Level	Questions					
21		NZ VA						
22	$\frac{CO2}{CO2}$	N4 1/5						
23	$CO_4$	KJ VA						
24 25	CO4	K4 V2						
23	005	КЭ						

# **Summative Examinations - Question Paper – Format**



# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

Course Name	APP	LIED OPERATIONS R	ESI	EARCH					
Course Code	21PC	CCC23				L	Р	С	
Category	COR	E				6	-	4	
Nature of Cour	se	EMPLOYABILITY	✓	SKILL ORIENTED	ENTREPR	ENE	URSI	HIP	
Course Objecti	ves:								
1. To find the	1. To find the most economical solution to a managerial problem within all of its limitations and								
constrains.	, tha	minimum cost of produ	at di	stribution from a numb	or of course	na ta		har of	
2. 10 calculate destinations	e the	minimum cost of produc			er of source	-5 10	num	Der Or	
3. To solve th	e prol	olems involve queries (v	vaiti	ng line) and to constru	ct cost effe	ctive	work	t flow	
systems.	1	1 ``							
4. To gain kno	wledg	e on the operations of a r	eal-v	vorld process or system t	hrough sim	ilatio	n.		
5. To develop	proje	ct's procedures of initia	tion,	planning, execution an	d closure v	vithin	the	set of	
scope, time,	qualit	y and budget standards.	Duog	nomming			1	0	
Ouantitative Ar	proge	h to Decision Making	PTO <u>P</u> Na	ture and Significance of	f OR in D	ocisio	$\mathbf{M}$	o aking_	
Models in Ope	ration	s Research- Application	Ar	eas of Operation Resea	arch- Linea	r Pro	ogram	ming-	
General Conce	pts -I	Definitions - Assumption	ons	in Linear Programming	g - Limita	tions	in 1	Linear	
Programming -	Applic	cations of Linear Program	nmin	g - Formulation of LP P	roblems – S	oluti	on Me	ethods	
- Graphical m	nethod	- maximization and	miı	nimization- Simplex n	nethod -ma	ximi	zatior	n and	
minimization-B	ig M N	Aethod.					•		
Unit: II Tra	nspor	tation and Assignment	Prol	olems			1	.8	
Transportation	proble	ms (Initial Basic Feasible	e So	lution) $-$ assumptions $-$ (	degenerate s	oluti	on – 1	North-	
west corner me	thod -	- least cost method $- V_{0}$	ogel	's approximation method	1 – Assignn the d	nent	probl	ems –	
Features – I rans	sporta	10n problem Vs Assignm	ent j	problem – Hungarian Me	ethod.		1	0	
Game theory	meani	ng types of games ba	cic a	ssumptions finding val	ue of game	for n	ure st	.0 rategy	
– mixed strateo	$v = I_1$	ng – types of games – ba determinate matrix and	ave	rage method – graphica	l method –	niire	strat	tegy -	
saddle point $-p$	av-off	matrix – value of game.	uve	ruge method grupmed	i memou	pure	5 Still	юду	
Oueuing theory	– need	1 – objective – applicatio	n – 0	characteristics – limitatio	ns – queuin	g mo	dels (	single	
channel)		5 11			1	0	Ì		
Unit: IV Sim	ulatio	on and Replacement mo	dels				1	8	
Simulation – m	eaning	g – advantages – limitatio	ons –	Monte Carlo simulation	– finding ra	ndor	nized	result	
– simulation p	roblen	ns - Replacement mode	els -	factors for replacement	nt – replac	emer	nt mo	odel –	
application – de	termin	ing optimum replacemen	it age	e (ORA).			<u> </u>	_	
Unit: V Pro	ject N	lanagement	<u></u>		1 0 1 14		1	.8	
Project Manage	ement	-Introduction- Types of	t Ne	tworks - CPM : Critica	I Path Met	hod	and I	PERT:	
Programme Eva	iluatio	n Review Technique – I f Critical Dath, Tima acti	Jasi	c differences between C	PM and PE	KI -	Drav	ving a	
Determination of	nnig C If float	s-(total-free-independent	iiiidt t	es for activities-Probabili	ity of compl	cuon	i or pi	oject-	
Tot		irs	ι.				Q	0	
100		<b>41</b> 0						v	

#### **Book for study:**

A. M. Natarajan, P. Balasubramanie & A. Tamilarasi (2014), Operations Research, Pearson India

#### **Books for Reference:**

- 1. Dr. P. R. Vittal (2003), Introduction to Operations Research, Margham Publications, Chennai
- 2. Kanti Swarup, P. K. Gupta & Man Mohan, (2010), 'Operations Research', Jain Book Agency, New Delhi
- 3. Kapoor V K, (2016), 'Operations Research Techniques for Management', Sultan Chand and Sons, New Delhi

#### Web Resources:

http://ndl.iitkgp.ac.in/document/Z2RWUHoyS0JXTUdZczNJeE9zVU9OOFlBYkplNWN1Q0pCd EVQSFo5RHNGTT0

http://ndl.iitkgp.ac.in/document/OEYweXpIRmlkYURkM3JkbUdtKy9UZjBqcW9qYU04Y09rT XpzSVR3OWRrTGUzd1NEUXIOWndubWJuNzE4WXluUXozanJOc1UxOTBXMHA5YW5sRjJ ESXc9PO

http://ndl.iitkgp.ac.in/document/OEYweXpIRmlkYURkM3JkbUdtKy9UVVp4TWJ4RDBMUnM yazB2b09tOHJoMkJIU0NYTEVyVGZYcGprbzJrMWM3bnZnQ1V2QmRyK2hPRWdtOC9PM CtiV2c9PO

https://nptel.ac.in/courses/111/107/111107128/

Course	e Outcomes:	K Level				
After t	After the completion of the course the student will be able to,					
CO1	Understand the conceptual aspects of operations research and knowledge on linear programming problem	Up to K2				
CO2	Apply Assignment and Transportation methods for effective operation of business	Up to K4				
CO3	Solve the problems related to Game theory	Up to K5				
<b>CO4</b>	Perform Queuing models	Up to K3				
CO5	Know the techniques of project management which is used to manage certain and uncertain activities of any project.	Up to K3				

#### CO & PO Mapping:

COS	<b>PO 1</b>	<b>PO 2</b>	<b>PO 3</b>	<b>PO 4</b>	<b>PO 5</b>	<b>PO 6</b>
CO 1	3	2	2	3	2	2
CO 2	3	3	3	3	3	3
CO 3	3	3	2	3	3	3
<b>CO 4</b>	3	3	3	2	3	3
<b>CO 5</b>	3	3	3	3	3	3

\*3 – Advanced Application; 2 – Intermediate Development; 1 - Introductory Level

### **LESSON PLAN**

UNIT	APPLIED OPERATIONS RESEARCH	Hrs	Mode
Ι	<b>Operation Research &amp; Linear Programming</b> Operations Research- Application - Linear Programming– Solution Methods - Graphical method - Simplex method	18	Chalk & Talk
Π	<b>Transportation and Assignment Problems</b> Transportation problems (Initial Basic Feasible Solution) – assumptions – degenerate solution – North-west corner method – least cost method – Vogel's approximation method – Assignment problems – Features – Transportation problem Vs Assignment problem – Hungarian Method	18	Chalk & Talk
III	<b>Game and Queuing Theory</b> Game theory– basic assumptions – finding value of game for pure strategy – mixed strategy – Indeterminate matrix and average method .	18	Chalk & Talk
IV	<b>Simulation and Replacement models</b> Simulation –Replacement models - factors – application – determining optimum replacement age .	18	Chalk & Talk
V	<b>Project Management</b> Introduction- Types of Networks – CPM – PERT - Drawing a network - Time estimates for activities-Probability of completion of project- Determination of floats (total, free, independent )	18	Chalk & Talk

Course designed by:

Dr. R. Kajapriya, Assistant Professor.

&

Dr. S. Venkateswaran, Head & Associate Professor.

Articulation Mapping – K Levels with Course Outcomes (COs)								
			Sectior	n A	Section	n B	Seation C	
Intornal	Cos	<b>K</b> Lovel	MCQ	s	Short Ans	swers	Section C	Section D
mernar	COS	K Level	No. of.	К-	No. of.	K –	Choice	<b>Open Choice</b>
			Questions	Level	Questions	Level		
CIAI	CO1	<b>Up To K2</b>	2	K1,K2	1	K1	2(K2&K2)	1(K2)
UIAI	CO2	Up To K4	2	K1,K2	2	K2	$2(K4\&K\overline{4})$	1 (K3)
СТАП	<b>CO3</b>	<b>Up To K5</b>	2	K1,K2	1	K2	2(K4&K4)	1(K5)
UIAII	<b>CO4</b>	<b>Up To K3</b>	2	K1,K2	2	K2	2(K3&K3)	1(K3)
		No. of						
		Questions to	4		3		4	2
		be asked						
		No. of						
Question 1	Dattarn	Questions to	4		3		2	1
	aiici 11 87 II	be answered						
	x 11	Marks for each	1		2		5	10
		question	L		4		3	10
		Total Marksfor						
		each	4		6		10	10
		section						

ning Outcome Based Education & Assessment (LORE) Formative Evamination -Rhua Print

\*Note: It is the decision of the course teacher to ask 2 Questions in any unit under section-B (short answer questions)

	Distribution of Marks with K Level CIA I & CIA II									
	K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either / Or Choice)	Section D (Open Choice)	Total Marks	% of (Marks without choice)	nsolidateof %		
	K1	2	2	-	-	4	8			
	K2	2	4	10	10	26	52			
	K3	-	-	-	10	10	20			
CIAI	K4	-	-	10	-	10	20			
	K5	-	-	-	-	-	-			
	Marks	4	6	20	20	50	100	100		
	K1	2	-	-	-	2	4	20		
	K2	2	6	-	-	8	16	20		
	K3	-	-	10	10	20	40	40		
CIAII	K4	-	-	10	-	10	20	20		
	K5	-	_	-	10	10	20	20		
	Marks	4	6	20	20	50	100	100		

K1- Remembering and recalling facts with specific answers

K2- Basic understanding of facts and stating main ideas with general answers

K3- Application oriented- Solving Problems

K4- Examining, analyzing, presentation and make inferences with evidences

CO5 will be allotted for individual Assignment which carries five marks as part of CIA component.

S	Summative Examination – Blue Print Articulation Mapping – K Level with Course Outcomes (COs)								
			MCC	)s	Short An	swers	Section C	Carthan D	
S.No	COs	K - Level	No. of Questions	K – Level	No. of Question	K – Level	(Either / or Choice)	(Open Choice)	
1	CO1	Up To K2	2	K1,K2	1	K1	2(K2&K2)	1 (K2)	
2	CO2	Up To K4	2	K1,K2	1	K2	2(K4&K4)	1 (K4)	
3	CO3	Up To K5	2	K1,K2	1	K2	2(K4&K4)	1 (K5)	
4	CO4	<b>Up To K3</b>	2	K1,K2	1	K2	2(K3&K3)	1 (K3)	
5	CO5	<b>Up To K3</b>	2	K1,K2	1	K2	2(K3&K3)	1 (K3)	
No. of Questions to be Asked		10		5		10	5		
No. of Questions to be answered		10		5		5	3		
Marks for each question		1		2		5	10		
Total Marks for each section		10		10		25	30		
	(Figures	in parenthesi	is denotes, qu	estions s	hould be as	ked with	the given K	level)	

Summative Examinations - Distribution of Marks with K Level									
K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either/ or Choice)	Section D ( Open Choice)	Total Marks	% of (Marks without choice)	Consolidated %		
K1	5	1	-	-	7	5.83	24		
K2	5	4	2	1	33	27.5	54		
K3	-	-	4	2	40	33.33	33		
K4	-	-	4	1	30	25	25		
K5	-	-	-	1	10	8.33	8		
Marks	10	10	50	50	120	100	100		
NB: Higher level of performance of the students is to be assessed by attempting higher level of K levels.									

Section	Section A (Multiple Choice Questions)					
Answei	r All Q	uestions	(10x1=10 marks)			
Q. No	CO	K Level	Questions			
1	CO1	K1				
2	CO1	K2				
3	CO2	K1				
4	CO2	K2				
5	CO3	K1				
6	CO3	K2				
7	CO4	K1				
8	CO4	K2				
9	CO5	K1				
10	CO5	K2				
Section	B (Sho	ort Answer	rs)			
Answei	r All Q	uestions	(5x2=10 marks)			
Q. No	CO	K Level	Questions			
11	CO1	K1				
12	CO2	K2				
13	CO3	K2				
14	CO4	K2				
15	CO5	K2				
Section	C (Eit	her/Or Ty	pe)			
Answei	r All Q	uestions	(5  x  5 = 25  marks)			
Q. No	CO	K Level	Questions			
16) a	<u>CO1</u>	K2				
16) b	<u>CO1</u>	K2				
17) a	<u>CO2</u>	K4				
17) b	<u>CO2</u>	K4				
18) a	<u>CO3</u>	K4				
18) b	<u>CO3</u>	K4				
19) a	<u>CO4</u>	K3				
19) b	<u>CO4</u>	K3				
20) a	<u>CO5</u>	K3				
20) b	<u>CO5</u>	K3				
NB: Hi	gher le	vel of perf	ormance of the students is to be assessed by attempting higher			
level of	K leve					
Section	D (Op	en Choice				
Answei	$\frac{1}{CO}$	Inree ques	uons (3X10=30 marks)			
<b>Q.NO</b>	$\frac{0}{0}$	K Level	Questions			
21						
22	$\frac{CO2}{CO2}$	K4				
23	$\frac{003}{004}$	KJ K2				
24	$\frac{004}{005}$	KJ K2				
23	005	КJ				

# **Summative Examinations - Question Paper – Format**



# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

Course Name APPLIED E-COMMERCE						
Course Code 21PCCC24	L	Р	С			
Category CORE	6	_	4			
Nature of course:EMPLOYABILITY✓SKILL ORIENTEDENTREPRENE	URSI	HIP	✓			
Course Objectives:						
1. To learn the basics of Electronic Commerce.         2. To impart essential knowledge on models of E-Commerce.         3. To know E-Commerce & E-enterprise Applications.         4. To understand more about security framework.         5. To enable the students to learn Cyber laws.         Unit: I       E-COMMERCE -AN OVERVIEW         18         Introduction,-       Evolution of Electronic Commerce- Roadmap of E-Commerce.         Unit: II       BUSINESS MODELS OF E-COMMERCE         Unit: II       BUSINESS MODELS OF E-COMMERCE         18       Characteristics of Business to Business(B2B) - Business to Consumers (B2C) - Business to Government (B2G) - Concepts of other models of E-commerce - Business to Consumer E-Commerce process - Business to Business E- Commerce - Need and Importance, alternative models of B2B E - Commerce - E-Commerce - Sales Product Life Cycle (ESLC) Model.         Unit: III       E-COMMERCE APPLICATIONS       18         Applications of E-commerce and E-enterprise - Applications to Customer Relationship Management-       18						
Types of E-CRM, Functional Components of E-CRM - Managing the E-enterprise Managing the - E-enterprise, Comparison between Conventional and E-Organisation	– In - Org	troduc ganisat	tion - ion of			
Business in an E-enterprise - Benefits and Limitations of E- enterprise.		10				
Benefits of Electronic Payment- Components of Electronic System-Electronic fund Tra         EDI-Credit Card System on the Internet – Components of Online Credit Processing – Pl         card system – Popular Electronic Payment Methods – Security Requirements in E-Paymer         Security Schemes – Secret key cryptography – Online Transactions Protocols.         Unit: V       CYBER LAW         Introduction to Cyber Laws-World Scenario - Cyber-crime& Laws in India and         Hacking, Web Vandals, E-mail Abuse, Software Piracy and Patents - Security Issues         Risk management approach to Ecommerce Security - Types and sources of threats, Pro-	ansfer ayers ent Sy their in E otectir	<ul> <li>F – Fin</li> <li>in the</li> <li>stems</li> <li>18</li> <li>limita</li> <li>Comr</li> <li>ng elect</li> </ul>	ancial credit – Key ations, nerce- tronic			
commerce assets and intellectual property.						
Total Lecture He	ours	90				
<ul><li>Books for study:</li><li>1. Bhasker, B. ,Electronic Commerce Framework, Technologies and Applications. New Hill Educations, 2017.</li></ul>	w Del	hi: Mo	cGraw			
<ul> <li>Books for Reference:</li> <li>1. Jaiswal.S. E-Commerce IElectronic Communication for Business). New Delhi: Galg Pvt. Ltd, 2000.</li> <li>2. Kalakota, R., &amp; Whinston, A. B. Frontiers of Electronic Commerce. New Delhi: For the second second</li></ul>	gotia Pearso	Public n Edu	ations cation			

India, 2002.

- 3. Rayudu, C. E-Commerce and E-Business. Mumbai: Himalaya Publishing House , 2010.
- **4.** Rayport, & Jaworeski, B. J. Introduction to E-Commerce. Noida , UP: McGraw Hill Publishing Company Limited, 2009.
- **5.** Tomasi, W. ,Electronic Communication Systems Fundamentals Through Advanced. New Delhi: Pearson Education, 2008.

Web Resources:					
1. https://play.google.com/store/apps/details?hl=en&id=com.mhrd.ndl					
COURSE OUTCOME K					
After t	he completion of the course the student will be able to,				
CO1:	Gain basic knowledge on electronic commerce concepts	Up to K3			
<b>CO2:</b>	Develop the knowledge on Network Infrastructure	Up to K4			
CO3:	Use electronic commerce	Up to K5			
<b>CO4:</b>	Understand security framework	Up to K4			
CO5:	Gain essential knowledge on directory services and Cyber laws	Up to K4			

#### CO & PO Mapping:

COS	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6
CO 1	2	2	2	2	2	2
CO 2	3	3	2	3	3	3
CO 3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3
CO 5	3	2	2	2	3	3

\*3 – Advanced Application; 2 – Intermediate Development; 1 - Introductory Level

#### LESSON PLAN

UNIT	SUBJECT NAME	Hrs	Mode
I	<b>E-COMMERCE</b> – <b>AN OVERVIEW-</b> Introduction, History/Evolution of Electronic Commerce, Roadmap of E-Commerce in India, Main activities, Functions and Scope of E-Commerce Benefits and Challenges of E-Commerce.	18	Lecture- Chalk & Talk,PPT
Π	<b>BUSINESS MODELS OF E-COMMERCE-</b> Characteristics of Business to Business- Business to Consumers - Business to Government - Business to Consumer E-Commerce process - Business to Business - E-Commerce Sales Product Life Cycle .	18	Lecture- Chalk & Talk,PPT
III	<b>E-COMMERCE APPLICATIONS-</b> Applications of E-commerce - Applications to Customer Relationship Management–E-enterprise, Comparison between Conventional and E-organisation - Organisation of Business in an E-enterprise .	18	Lecture- Chalk & Talk,PPT
IV	<b>Electronic Payment -</b> Benefits of Electronic Payment- Components of Electronic System-Electronic fund Transfer – Financial EDI-Credit Card System on the Internet – Components of Online Credit Processing – Players in the credit card system – Popular Electronic Payment Methods – Security Requirements in E-Payment Systems – Key Security schemes – Secret key cryptography – Online Transactions Protocols.	18	Lecture- Chalk & Talk,PPT
V	<b>CYBER LAW</b> - Introduction - Hacking, Web Vandals, E-mail Abuse, Software Piracy and Patents - Security Issues in E-Commerce- Risk management approach to Ecommerce Security intellectual property.	18	Lecture- Chalk & Talk, PPT

Course Designed by:

- 1. Dr. R. Arputharaj, Assistant Professor.
- 2. Dr. V. Devika, Assistant Professor.

	Articulation Mapping – K Levels with Course Outcomes (COs)									
			Sectior	n A	Section	n B	Section C			
Internal	Cas	<b>V</b> Loval	MCQ	s	Short Ans	swers	Section C	Section D		
Internal	Cos	K Level	No. of.	К-	No. of.	K –	Choice	<b>Open Choice</b>		
			Questions	Level	Questions	Level	Choice			
CIAI	CO1	Up To K3	2	K1,K2	1	K1	2(K3&K3)	1(K2)		
CIAI	CO2	<b>Up To K4</b>	2	K1,K2	2	K2	2(K4&K4)	1 (K3)		
СТАП	CO3	<b>Up To K5</b>	2	K1,K2	1	K2	2(K4&K4)	1 (K5)		
CI AII	<b>CO4</b>	<b>Up To K4</b>	2	K1,K2	2	K2	2(K3&K3)	1(K4)		
		No. of								
		Questions to	4		3		4	2		
		be asked								
		No. of								
Question 1	Dattarn	Questions to	4		3		2	1		
		be answered								
	X 11	Marks for each	1		2		5	10		
		question	1		4		3	10		
		Total Marksfor								
		each	4		6		10	10		
		section								

I earning Outcome Based Education & Assessment (LOBE)Formative Examination - Blue Print

\*Note: It is the decision of the course teacher to ask 2 Questions in any unit under section-B (short answer questions)

	Distribution of Marks with K Level CIA I & CIA II												
	K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either / Or Choice)	Section D (Open Choice)	Total Marks	% of (Marks without choice)	nsolidateof %					
	K1	2	2	-	-	4	8	40					
	K2	2	4	-	10	16	32	40					
	K3	-	-	10	10	20	40	40					
CIAI	K4	-	-	10	-	10	20	20					
	K5	-	-	-	-	-	-						
	Marks	4	6	20	20	50	100	100					
	K1	2	-	-	-	2	4	20					
	K2	2	6	-	-	8	16	20					
	K3	-	-	10	-	10	20	20					
CIAII	K4	_	_	10	10	20	40	40					
	K5	-	-	-	10	10	20	20					
	Marks	4	6	20	20	50	100	100					

K1- Remembering and recalling facts with specific answers

K2- Basic understanding of facts and stating main ideas with general answers

K3- Application oriented- Solving Problems

K4- Examining, analyzing, presentation and make inferences with evidences

CO5 will be allotted for individual Assignment which carries five marks as part of CIA component.

S	Summative Examination – Blue Print Articulation Mapping – K Level with Course										
S.No	COs	K - Level	MCC No. of	2s K –	Short An No. of	swers K –	Section C (Either /	Section D (Open			
			Questions	Level	Question	Level	Choice)	Choice)			
1	CO1	<b>Up To K3</b>	2	K1,K2	1	K1	2(K2&K2)	1(K3)			
2	CO2	Up To K4	2	K1,K2	1	K2	2(K3&K3)	1 (K4)			
3	CO3	<b>Up To K5</b>	2	K1,K2	1	K2	2(K4&K4)	1 (K5)			
4	<b>CO4</b>	Up To K4	2	K1,K2	1	K2	2(K4&K4)	1(K4)			
5	CO5	Up To K4	2	K1,K2	1	K2	2(K3&K3)	1(K4)			
No. of Questions to be Asked		ions to be ed	10		5		10	5			
No. of Questions to be answered		10		5		5	3				
Marks for each question		1		2		5	10				
Total Marks for each section		10		10		25	30				
	(Figures	in parenthesi	is denotes, qu	estions s	hould be as	ked with	the given K	level)			

	Summative Examinations - Distribution of Marks with K Level										
K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either/ or Choice)	Section D ( Open Choice)	Total Marks	% of (Marks without choice)	Consolidated %				
K1	5	1	-	-	7	5.85	25				
K2	5	4	2	-	23	19.17	23				
K3	-	-	4	1	30	25	25				
K4	-	-	4	3	50	41.66	42				
K5	-	-	-	1	10	8.33	8				
Marks	10	10	50	50	120	100	100				
NB: Higher level of performance of the students is to be assessed by attempting higher level											
of K lev	of K levels.										

Section	A (Mu	iltiple Cho	ice Questions)
Answei	r All Q	uestions	(10x1=10 marks)
Q. No	CO	K Level	Questions
1	CO1	K1	
2	CO1	K2	
3	CO2	K1	
4	CO2	K2	
5	CO3	K1	
6	CO3	K2	
7	CO4	K1	
8	CO4	K2	
9	CO5	K1	
10	CO5	K2	
Section	B (Sho	ort Answer	rs)
Answei	r All Q	uestions	(5x2=10 marks)
Q. No	CO	K Level	Questions
11	CO1	K1	
12	CO2	K2	
13	CO3	K2	
14	CO4	K2	
15	CO5	K2	
Section	C (Eit	her/Or Ty	pe)
Answei	r All Q	uestions	(5 x 5 = 25 marks)
Q. No	CO	K Level	Questions
16) a	CO1	K2	
16) b	CO1	K2	
17) a	CO2	K3	
17) b	CO2	K3	
18) a	CO3	K4	
18) b	CO3	K4	
19) a	CO4	K4	
19) b	CO4	K4	
20) a	CO5	K3	
20) b	CO5	K3	
NB: Hi	gher le	vel of perf	ormance of the students is to be assessed by attempting higher
level of	K leve		
Section	D (Op	en Choice)	
Answei	r Any T	hree ques	tions (3x10=30 marks)
<b>Q.N0</b>		K Level	Questions
21		K3 V4	
22	CO2	K4	
23	CO3	KJ V4	
24	CO4	K4 V4	
23	005	К4	

# **Summative Examinations - Question Paper – Format**



# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

Course Name	A	dvanc	ed Ex	xcel -	Lab	)										
Course Code	2	1PCCN	VP1											L	Р	C
Category	N	on Ma	i <b>jor E</b>	Electi	ve									-	6	6
Nature of cour	se:	EMPL	. <b>OY</b> A	BIL	JTY	$\checkmark$	SKIL	LOI	RIEN	TED	$\checkmark$	ENTREI	PRE	ENEU	JRSH	HP
Course Object	ive	s:									•					
1. To underst	and	, summ	arize	and j	prese	nt i	numer	ical d	ata us	sing the	digita	l tool Mic	ros	oft pr	ogra	m
Excel.					1						11	T 11.				1
2. To plot nui the Regress	ner	cal dat	a as a	a grap orrela	on an	a di ana	etermi lvsis	ne an	equa	tion of a	a line.	In additio	on,	under	stanc	1
3. To set up th	ne c	hart fu	nction	n of E	Excel	to	repres	ent n	ımeri	c data i	n mul	tiple form	ats.			
4. To build fo	rmı	ilas, ind	cludir	ng the	e use	of	built-i	n fun	ctions	s, and re	elative	and abso	lute	e refer	ence	s.
5. To observe	the	value	of usi	ing E	xcel	to 1	nake c	lecisi	ons.							
Li	st o	f Prog	rams	:	c		,• ,•		.1	<i>.</i>	1.0					
	Cr	eate a t	able	to per	rforn	n sta	atistica	al and	math	nematica	al fun	ctions.				
2.	Cr	eate w	orksl	heet	with	fo	llowin	unu pr og fie	lde F	Empiro	лаw Fnar	ne Basic	P	av(RP	2	
5.	Tr	avellin	g A	Allow	ance	(TA	$\Lambda$ ). [	Dearne		Allowa	nce(E	(A) $(A)$	use	Re	nt nt	
	Al	lowanc	e(HR	RA), 1	Incor	ne 7	-,, Гах(I7	C), Pro	ovide	nt Fund	(PF),	Net Pay(N	JP)			
		Giver	ı: DA	= 30	% of	BP	, HRA	A=209	6 of I	BP, TA=	=17.5	% of BP, I	T=	15%	of	
		BP, P	F=12	2.5%	of Bl	2										
4.	Cr	eate ai	ı Exc	cel V	Vork	shee	et for	the	montl	hly sale	es of	a product	ar	nd als	50	
_	rej	present	the d	lata b	y usi	ng	bar ch	art?	C							
5.	D1 Ev	agrami	natic	pres	entat	10n	of da	ita in	Gra	phing a	and (	harting	usi	ing M	15	75
6		nort ar	ne chi nd Ev	ari, p nort t	the d	art,	(tyt o		.S ) ) files	,						
0.	Cr	eate a	sprea	ndshe	et to	1150	e IF i	nester	I IF	,. VLOOI	KUP	and the H		OKU	IP	
	fu	actions	of Ex	xcel.	00 00	c.o.	• 11 , 1	1105000	• •• •	12001				0110		
8.	De	emonst	rate	any	FI	VE		Statis	ical	functi	ons	using N	1S-	Excel	l.(	
	Μ	EAN,N	1EDI.	AN,N	MOD	E,S	Standa	rd De	viatic	on, Quar	tiles l	Functions,	etc.	.,)		
9.	Dı	aw a H	listog	ram l	Diag	ram	in MS	S-Exc	el usi	ing stud	ent da	ata set				
10	. Us	e the c	lata b	below	to c	rea	te a hi	istogr	am fo	or annua	al retu	irns on sto	ock	s, bill	s,	
	an	a bond	3. Wh	11Ch 1	nvest	tme	ent has	the h	ignes	t averag	ge reti	irn?				

Year	Stocks	T. Bills	T. Bonds
1928	43.81%	3.08%	0.84%
1929	-8.30%	3.16%	4.20%
1930	-25.12%	4.55%	4.54%
1931	-43.84%	2.31%	-2.56%
1932	-8.64%	1.07%	8.79%
1933	49.98%	0.96%	1.86%
1934	-1.19%	0.30%	7.96%
1997	31.86%	4.91%	9.94%
1998	28.34%	5.16%	14.92%
1999	20.89%	4.39%	-8.25%
2000	-9.03%	5.37%	16.66%
2001	-11.85%	5.73%	5.57%
		•	

11. Calculate correlation coefficient in Excel AND plot a correlation graph in Excel

12. Perform Regression analysis with given dataset.

13. Perform correlation analysis with given data.

14. Create pivot table and carry out the analysis with charts.

15. From the following data obtain the Pearson's coefficient of correlation

Х	10	15	12	17	13	16	24	14
Y	30	42	45	46	33	34	40	35

		Total	Hours	75
COUR	SE OUTCOMES		K Le	evel
CO1.	Understand and apply basic principles of laying out Excel models for		Un T	K2
COI	decision making.		0010	J <b>N</b> J
<b>CO2:</b>	Apply advanced formulas to lay data in readiness for analysis.		Up To	o K3
<b>CO3:</b>	Identify the different advanced techniques for report visualizations		Up To	o K3
<b>CO4:</b>	Incorporate the formatting of charts in Excel.		Up To	o K4
<b>CO5</b> :	Assess the practice of referencing across sheets.		Up To	o K4

#### CO & PO Mappings:

COS	<b>PO 1</b>	PO 2	<b>PO 3</b>	<b>PO 4</b>	<b>PO 5</b>	<b>PO 6</b>
CO 1	3	3	2	2	3	3
CO 2	3	2	3	3	3	3
CO 3	3	3	2	2	2	3
<b>CO 4</b>	2	3	3	2	3	3
CO 5	3	2	1	3	3	3

\*3 – Advanced Application; 2 – Intermediate Development; 1 - Introductory Level

#### UNIT HOURS **COURSE NAME** PEDAGOGY Create a table to perform statistical and mathematical 5 functions. Create a spreadsheet to sort data and print portions of a 5 worksheet. UNIT - I Create worksheet with following fields Empno, Ename, Basic Pay(BP), Travelling Allowance(TA), Dearness 5 Allowance(DA), House Rent Allowance(HRA), Income Tax(IT), Provident Fund(PF), Net Pay(NP) Create an Excel Worksheet for the monthly sales of a 5 product and also represent the data by using bar chart? Diagrammatic presentation of data in Graphing and UNIT - II Charting using MS Excel (line chart, pie chart, Pivot 5 charts) Import and Export the data (.txt or .csv) files 5 Create a spreadsheet to use IF, nested IF, VLOOKUP and 5 LABthe HLOOKUP functions of Excel. PRACTICAL Demonstrate any FIVE Statistical functions using MS-UNIT - III Excel.( MEAN, MEDIAN, MODE, Standard Deviation, 5 Quartiles Functions, etc.,) Draw a Histogram Diagram in MS-Excel using student data 5 set Use the data below to create a histogram for annual returns on stocks, bills, and bonds. Which investment has the 5 highest average return? UNIT - IV Calculate correlation coefficient in Excel AND plot a 5 correlation graph in Excel Perform Regression analysis with given dataset. 5 Perform correlation analysis with given data. 5 Create pivot table and carry out the analysis with charts. 5 UNIT - V From the following data obtain the Pearson's coefficient of 5 correlation

#### LESSON PLAN

#### Course designed by:

1. Dr.B.Vijayalakshmi, Assistant Professor.

2. Mrs.T.Sujithra, Assistant Professor.







# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) **DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS** (For those who join in 2021-2022 and after)

Course Name	ADVANCED CORPORATE ACCOUNTING				
Course Code	21PCCC31		L	Р	С
Category	Core		6	-	4
Nature of cours	e: EMPLOYABILITY ✓ SKILL ORIENTED	ENTREPRE	NUR	SHIP	
Course Objecti	ves:				
1. To impart kno	owledge on final accounts of joint stock companies				
2. To enable the	students to understand the procedures of accounting				
3. To learn the p	preparation of accounts of banking companies	. 1.1		1 ·	
4. To enable the	m to develop skills in the preparation of accounting state	ements and the	eir an	alysis	
5. 10 know the	procedure for preparation of Double Accounting System	1		10	
Unit: I FIN	AL ACCOUNT OF JOINT STOCK COMPANY	of Joint Stop	lr Co	18	
Financial Staten	nents – Objectives – Preparation of Financial Statements	or Joint Sloc		mpani	les -
of Balance She	et as per $\Delta S_{-3}$	propriation A	ccour	n – 1	orm
Unit. II HO	I DINC COMPANY ACCOUNTS			18	
Introduction-Ad	vantages-Disadvantages-Wholly _owned Subsidiary	Companies-F	Partly	W	med
Subsidiary Cou	manies- Presentation of Accounts-Principles of Co	onsolidation-F	Elimi	nation	of
Investment in S	hares-Minority Interest Cost of Control-Capital and Re	venue Profit-	Reva	luatio	n of
Assets and Liab	ilities Elimination of Common Transactions.		110 ( 4.	uuuio	
Unit: III AC	COUNTS OF BANKING COMPANIES			18	
Banking Comp	any Accounts – Preparation of Banking Account – Re	bate on Bills	Disc	counte	ed –
Non-Performing	Assets – Preparation of Profit and Loss Account and B	alance Sheet-	Mon	ey at	Call
and Short Notic	e –Advances.			-	
Unit: IV AC	COUNTS OF INSURANCE COMPANIES			18	
Types of Insura	nce-Annual Accounts-Life Insurance-Consideration for	Annuities Gr	anted	-Reve	enue
Account – Valu	ation Balance Sheet-Balance Sheet - Accounts of Gene	ral Insurance-	Fire	Insura	ance
– Marine Insura	nce - Reserve for Unexpired Risk -Preparation of Final A	Accounts.			
Unit: V DO	UBLE ACCOUNTING SYSTEM			18	
Introduction-Me	eaning - Double Account System-Features of Double A	Account Syste	m-Ao	lvanta	ages
and Disadvanta	ges- Double Entry System Vs. Double Account System	m - Accounts	of	Electri	city
Companies – Re	evenue Account – Net Revenue Account – Capital Acco	unt - General	Bala	nce S	heet
- Replacement a	ind Renewals – Disposal of Surplus.	T 4 TT		00 TT	
(900) of models	10tal	Lecture Hou	Irs	90 HI	S.
(80% of marks	must be allotted to problem solving questions. 20% of	or marks mus	t be	allott	ea to
Theory question	(5).				
Books for Stud	y:				
1.T.S. Reddy an	d Dr. A. Murthy, "Corporate Accounting", Margham Pu	blications (Re	print	2021	)
<b>Books for Refe</b>	rences:				
1. R.L. Gupta Delhi.	& M. Radhaswamy, "Corporate Accounting", 2017, S	ultan Chand	& S	ons, l	New
2. M.A. Arulana	andam & K.S. Raman, "Advanced Accountancy", Vol-II	, Sixth Edition	n,201	6,	
Academic (	Council Meeting Held On 17.05.2022		Р	age 6	1

Himalaya Publishing House, Mumbai.

3. S. N. Maheshwari & Suneel. K. Maheshwari, "Corporate Accounting", Fifth Edition, 2018, Vikas Publishing House Pvt. Ltd.

4. S.P. Jain & K.L Narang, "Corporate Accounting", 2017, Kalyani Publishers, Mumbai.

#### Web Resources:

- 1. https://ncert.nic.in/ncerts/l/leac201.pdf
- 2. https://byjus.com/commerce/final-accounts/
- 3. https://www.accountingtools.com/articles/2017/5/9/liquidation
- 4. https://www.yourarticlelibrary.com/accounting/holding-company/meaning-holding
- 5. company/holding-company-a-close-view-company-accounts/68346
- 6. <u>https://www.accountingnotes.net/final-accounts/final-accounts-of-general-insurance</u>companiesaccounting/13085

#### Course Outcomes

K Level

<b>CO1:</b>	The Student gather knowledge pertinent to joint stock companies	Up to K2
<b>CO2:</b>	The student can understand and prepare the accounts of Holding Companies	Up to K5
CO3:	The student can able to prepare the accounts of Banking Companies	Up to K4
<b>CO4:</b>	The student could prepare the Insurance Company accounts	Up to K4
CO5:	The student is able to understand and prepare the Double Account System	Up to K3

#### CO & PO Mapping:

CO's	PO 1	PO 2	<b>PO 3</b>	PO 4	<b>PO 5</b>	<b>PO 6</b>
CO 1	2	2	3	3	3	3
CO 2	2	2	3	3	3	3
CO 3	3	3	3	3	3	3
<b>CO 4</b>	3	3	3	3	3	3
CO 5	3	3	2	2	3	3

\*3 – Advanced Application; 2 – Intermediate Development; 1 - Introductory Level

### LESSON PLAN

Unit	ADVANCED CORPORATE ACCCOUNTING	Hrs	Pedagogy
Ι	Final Account of Joint Stock Company	18	Chalk & Talk, Exercise, PPTs, Quiz
Π	Holding Company Accounts	18	Chalk & Talk, Exercise, PPTs, Quiz
III	Accounts of Banking Companies	18	Chalk & Talk, Exercise, PPTs, Quiz
IV	Accounts of Insurance Companies	18	Chalk & Talk, Exercise, PPTs, Quiz
V	Double Accounting System	18	Chalk & Talk, Exercise, PPTs, Quiz

**Course Designed by:** 

Dr. V. Geetha, Assistant Professor & Dr. K. Bala Sathya, Assistant Professor

Articulation Mapping – K Levels with Course Outcomes (COs)								
	Cos	K Level	Section A MCQs		Section B Short Answers		Section C	Section D
Internal								
			No. of.	K -	No. of. K –		Choico	<b>Open Choice</b>
			Questions	Level	Questions	Level	Choice	
СІЛІ	CO1	Up to K2	2	K1,K2	1	K2	2(K2&K2)	1(K2)
CIAI	CO2	Up to K4	2	K1,K2	2	K2	2(K3&K3)	1(K4)
CI AII	CO3	Up to K4	2	K1,K2	1	K2	2(K3&K3)	1(K4)
	<b>CO4</b>	Up to K4	2	K1,K2	2	K2	2(K4&K4)	1(K3)
Question Pattern CIA I & II		No. of						
		Questions to	4		3		4	2
		be asked						
		No. of						
		Questions to	4		3		2	1
		be answered						
		Marks for each	1		2		5	10
		question	1		<u> </u>		3	10
		Total Marksfor						
		each	4		6		10	10
		section						

ning Outcome Based Education & Assessment (LORE) Formative Evamination -Rhua Print

\*Note: It is the decision of the course teacher to ask 2 Questions in any unit under section-B (short answer questions)

Distribution of Marks with K Level CIA I & CIA II									
	K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	SectionC (Either / Or Choice)	SectionD (Open Choice) Total Mark		% of (Marks without choice)	Consolidateof %	
	K1	2	-	-	-	2	4	60	
CIAI	K2	2	6	10	10	28	56	00	
	K3	-	-	10	-	10	20	20	
	K4	-	-	-	10	10	20	20	
	K5	-	-	-	-	-	-	-	
	Marks	4	6	20	20	50	100	100	
CIAII	K1	2	-	-	-	2	4	20	
	K2	2	6	-	-	8	16	20	
	K3	-	-	10	10	20	40	40	
	K4	-	-	10	10	20	40	40	
	K5	-	-	-	-	_	-	-	
	Marks	4	6	20	20	50	100	100	

K1- Remembering and recalling facts with specific answers

K2- Basic understanding of facts and stating main ideas with general answers

K3- Application oriented- Solving Problems

K4- Examining, analyzing, presentation and make inferences with evidences

CO5 will be allotted for individual Assignment which carries five marks as part of CIA component.
Summative Examination – Blue Print Articulation Mapping – K Level with Course Outcomes								
(COs)								
			MC	Qs	Short An	swers	Section C	Seation D
S.No	COs	K - Level	No. of Questions	K – Level	No. of Question	K – Level	(Either / or Choice)	(Open Choice)
1	CO1	Up to K2	2	K1&K2	1	K2	2(K2&K2)	1(K2)
2	CO2	Up to K4	2	K1&K2	1	K2	2(K4&K4)	1(K5)
3	CO3	Up to K4	2	K1&K2	1	K2	2(K3&K3)	1(K4)
4	CO4	Up to K4	2	K1&K2	1	K2	2(K3&K3)	1(K4)
5	CO5	Up to K3	2	K1&K2	1	K2	2(K2&K2)	1(K3)
No. c	of Questic Asked	ons to be	10		5		10	5
No.of Questions to be answered		ns to be d	10		5		5	3
Marks for each question		1		2		5	10	
Total Marks for each section		10		10		25	30	
(	<b>Figures</b> i	in parenthes	sis denotes, q	uestions sl	nould be ask	ed with	the given K l	evel)

Distribution of Marks with K Level											
K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either/ or Choice)	Section D ( Open Choice)	Total Marks	% of (Marks without choice)	Consolidated %				
K1	5	-	-	-	5	4.2	42				
K2	5	10	20	10	45	37.5	42				
K3	-	-	20	10	30	25	25				
K4	-	-	10	20	30	25	25				
K5	-	-	-	10	10	8.33	8				
Marks	10	10	50	50	120	100	100				

NB: Higher level of performance of the students is to be assessed by attempting higher level of K levels.

Section A	(Multip	le Choice (	Questions)
Answer Al	l Quest	ions	(10x1=10 marks)
Q.No	CO	K Level	Questions
1	CO1	K1	
2	CO1	K2	
3	CO2	K1	
4	CO2	K2	
5	CO3	K1	
6	CO3	K2	
7	CO4	K1	
8	CO4	K2	
9	CO5	K1	
10	CO5	K2	
Section B	(Short A	Answers)	
Answer Al	l Quest	ions	(5x2=10 marks)
Q.No	CO	K Level	Questions
11	CO1	K2	
12	CO2	K2	
13	CO3	K2	
14	CO4	K2	
15	CO5	K2	
Section C	(Either/	Or Type)	
Answer Al	l Quest	ions	(5 x 5 = 25 marks)
Q.No	CO	K Level	Questions
16) a	CO1	K2	
16) b	CO1	K2	
17) a	CO2	K4	
17) b	CO2	K4	
18) a	CO3	K3	
18) b	CO3	K3	
19) a	CO4	K3	
19) b	CO4	K3	
20) a	CO5	K2	
20) b	CO5	K2	
NB: Highe	er level (	of perform	ance of the students is to be assessed by attempting higher level of
K levels			
Section D	(Open (	Choice)	
Answer A	ny Thre	e question	s (3x10=30 marks)
Q.No	CO	K Level	Questions
21	CO1	K2	
22	CO2	K5	
23	CO3	K4	
24	CO4	K4	



# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

Course Name ADVANCED MANAGEMENT ACCOUNTING								
Cours	se Code	21PCCC32				L	Р	С
Categ	ory	Core				6	-	4
Natur	Nature of course:EMPLOYABILITY✓SKILL ORIENTEDENTREPRENURSHIP							
COU	RSE OBJI	ECTIVES:						
1.	<b>1.</b> To develop and understand the conceptual framework of management Accounting.							
2.	To teach	the mechanics of preparatio	on of o	cash flow and funds fl	ow statement.			
3.	To make	the students to get practical	l skill	in solving manageme	nt problems.			
4.	This cour	se develops employability s	skills	of the students.				
5	To acqui	e the students, the manager	ment a	accounting techniques	that facilitates	5		
<b>.</b>	manageri	al decision making.						
Unit:	I MA	NAGEMENT ACCOUNT	TING	F		15	hou	ırs
Mean	ing – Ob	ectives And Scope – Rela	lations	ship Between Manage	ement Accoun	ting	g, C	ost
Accou	inting And	I Financial Accounting –	Finai Fitabili	ncial Statement Analy	ysis – Ratio 1	Ana	lysi	s –
Analy Unite		Indity – Solvency And Pron		ILY. 7 ANALVEIS		15	hai	1100
Meani	$\prod \Gamma U $	rence Between Fund Flow	LUW State	ment And Cash Flow	Statement _ F	13 Dren	arat	ion
of Fur	ng – Dift nd Flow St	atement And Cash Flow Sta	ateme	entent And Cash I low	Statement – I	rep	arai	IOII
Unit:		RGINAL COSTING		int.		18	hoi	irs
Meani	ing – Fea	tures – Assumption – Br	reak	Even And CVP Ana	ulvsis – Appl	icat	ion	Of
Margi	nal Costin	g In Managerial Decision M	Makin	g.				
Unit:	IV STA	NDARD COSTING		<u> </u>		21	hou	ars
Standa	ard costing	g – Setting standards – Va	arianc	ce analysis and report	ting – Materia	ıl, I	Labo	our,
Overh	ead – Sale	s and profit variance – Repo	orting	g and investigation of	variance.			
Unit:	V BUI	DGETARY CONTROL				21	hou	ırs
Budge	et and Bud	lgetary control forecasting	g Vs.	Budget - Preparation	of functional	l bu	ıdge	×t −
Types	of budget	s – Zero base budgeting – P	Progra	amme budgeting and p	erformance bu	idge	eting	<b>5.</b>
(0.0.0.)				Total Le	cture Hours	90		
(80%	of marks r	nust be allotted to problem	solvii	ng questions. 20% of i	marks must be	allo	ottec	l to
I neor	y question	\$).						
1 S N	Mohogwor	y: i Managamant Accounting	a and i	Einancial Control Vil	og Dubligharg	Do	lhi	
2021	Maneswar	i, Management Accounting	g anu i		as rublishers,	De	IIII,	
2021 Books for References:								
1. Shashi K.Gupta, R.K.Sharma, Management Accounting, Kalvani Publishers, Ludhiana								
2017.	2017.							
2. R.Ramachandran and R.Srinivasan, Management Accounting, Sriram Publications 2020.								
Web	Resources	•						
1. <u>http</u>	s://nptel.a	c.in/courses/110/101/1101	10100	<u>3/</u>				
2. <u>http</u>	s://nptel.a	c.in/courses/110/101/1101	<u>10100</u>	<u>4/</u>				
3. <u>http</u>	s://nptel.a	c.in/courses/110/107/1101	10712	<u>71</u>				

4.https://www.classcentral.com/course/swayam-management-accounting-14177						
COURS	E OUTCOME	K Level				
CO1:	Enable students to analyze financial statement, Liquidity, solvency and	Un to K3				
	Profitability	Op to KS				
<b>CO2:</b>	Enable students to prepare Fund flow and Cash Flow statement	Up to K3				
CO3:	Enable students to Identify the Break Even and able to apply	Up to K4				
<b>CO4:</b>	Enable students to apply Standard costing to analyze variance	Up to K5				
CO5:	Enable students to prepare performance budgeting	Up to K4				

## CO & PO Mapping:

CO's	PO 1	PO 2	<b>PO 3</b>	PO 4	<b>PO 5</b>	<b>PO 6</b>
CO 1	3	2	2	2	2	2
CO 2	3	3	3	3	3	3
CO 3	3	3	3	3	3	3
<b>CO 4</b>	2	3	3	3	3	3
CO 5	2	2	2	3	2	3

\*3 – Advanced Application; 2 – Intermediate Development; 1 - Introductory Level

# LESSON PLAN

Unit	ADVANCED MANAGEMENT ACCOUNTING	Hrs	Pedagogy
Ι	Management Accounting	15	Chalk and Talk
Π	Fund Flow and Cash Flow Analysis	15	Chalk and Talk
III	Marginal Costing	18	Chalk and Talk
IV	Standard Costing	21	Chalk and Talk
V	Budgetary Control	21	Chalk and Talk

**Course Designed by:** 

Dr. R.Ratheka, Assistant Professor

&

Dr.B.Kothai Nachiar, Assistant Professor

Articulation Mapping – K Levels with Course Outcomes (COs)									
			Sectior	Section A		n B	Section C		
Internal	Cos	<b>V</b> Loval	MCQs		Short An	swers	Section C	Section D	
	Cos	K Level	No. of.	K -	No. of.	K –	Choice	<b>Open Choice</b>	
			Questions	Level	Questions	Level	Choice		
CIAI	CO1	Up to K3	2	K1,K2	1	K1	2(K3&K3)	1(K2)	
CIAI	CO2	Up to K3	2	K1,K2	2	K2	2(K3&K3)	1(K3)	
СТАП	CO3	Up to K4	2	K1,K2	1	K2	2(K3&K3)	1(K4)	
CIAI	<b>CO4</b>	Up to K5	2	K1,K2	2	K2	2 (K4&K4)	1(K5)	
		No. of	4		2			2	
		Questions to be asked	4		3		4	Z	
Ouestion I	Pattern	No. of Questions to	4		3		2	1	
CIAI	& II	Marks for each question	1		2		5	10	
		Total Marksfor each section	4		6		10	10	

Learning Outcome Based Education & Assessment (LOBE)Formative Examination - Blue Print

\*Note: It is the decision of the course teacher to ask 2 Questions in any unit under section-B (short answer questions)

	Distribution of Marks with K Level CIA I & CIA II										
	K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either / Or Choice)	Section D (Open Choice)	Total Ma rks	% of (Marks without choice)	Consolid ate of %			
	K1	2	2	-	-	4	8	40			
	K2	2	4	-	10	16	32	40			
CIA	K3	-	-	20	10	30	60	60			
	K4	-	-	-	-	-	-	-			
Ι	K5	-	-	-	-	-	-	-			
	Marks	4	6	20	20	50	100	100			
	K1	2	-	-	-	2	4	20			
	K2	2	6	-	-	8	16	20			
CIA	K3	-	-	10	-	10	20	20			
II	K4	-	-	10	10	20	40	40			
	K5	-	-	-	10	10	20	20			
	Marks	4	6	20	20	50	100	100			

K1- Remembering and recalling facts with specific answers

K2- Basic understanding of facts and stating main ideas with general answers

**K3**- Application oriented- Solving Problems

K4- Examining, analyzing, presentation and make inferences with evidences

CO5 will be allotted for individual Assignment which carries five marks as part of CIA component.

Su	Summative Examination – Blue Print Articulation Mapping – K Level with Course									
				utcomes )s	Short An	swers	Section C	Section		
S.No	COs	K -	No. of	K –	No. of	<b>K</b> –	(Either /	D (Open		
		Level	Questions	Level	Question	Level	or Choice)	Choice)		
1	CO1	Up to K3	2	K1,K2	1	K1	2(K3&K3)	1(K2)		
2	CO2	Up to K3	2	K1,K2	1	K2	2(K3&K3)	1(K3)		
3	CO3	Up to K4	2	K1,K2	1	K2	2(K3&K3)	1(K4)		
4	CO4	Up to K5	2	K1,K2	1	K2	2(K4&K4)	1(K5)		
5	CO5	Up to K4	2	K1,K2	1	K2	2(K4&K4)	1(K4)		
No.	of Quest Aske	ions to be ed	10		5		10	5		
No.of Questions to be answered		ions to be red	10		5		5	3		
Marks for each question		1		2		5	10			
Total Marks for each section		10		10		25	30			
( <b>F</b>	igures i	n parenthesi	s denotes, qu	uestions s	should be a	sked wit	th the given <b>H</b>	K level)		

	Distribution of Marks with K Level										
	Section A	Section B	Section C	Section		% of					
K	(Multiple	(Short	(Either/	<b>D</b> (	Total	(Marks	Consolidated				
Level	Choice	Answer	or	Open	Marks	without	%				
	<b>Questions</b> )	<b>Questions</b> )	Choice)	Choice)		choice)					
K1	5	2	-	-	7	5.83	26				
K2	5	8	-	10	23	19.16	20				
K3	-	-	30	10	40	33.33	33				
K4	-	-	20	20	40	33.33	33				
K5	-	-	-	10	10	8.33	8				
Marks	10	10	50	50	120	100	100				
NB: Higher level of performance of the students is to be assessed by attempting higher											
level of	K levels.										

Section	A (Mu	ltiple Cho	ice Questions)
Answei	r All Qu	uestions	(10x1=10 marks)
Q.No	CO	K Level	Questions
1	CO1	K1	
2	CO1	K2	
3	CO2	K1	
4	CO2	K2	
5	CO3	K1	
6	CO3	K2	
7	CO4	K1	
8	CO4	K2	
9	CO5	K1	
10	CO5	K2	
Section	B (Sho	ort Answer	rs)
Answei	r All Qu	uestions	(5x2=10 marks)
Q.No	CO	K Level	Questions
11	CO1	K1	
12	CO2	K2	
13	CO3	K2	
14	CO4	K2	
15	CO5	K2	
Section	C (Eit	her/Or Ty	pe)
Answei	r All Qu	uestions	(5  x  5 = 25  marks)
Q.No	CO	K Level	Questions
16) a	CO1	K3	
16) b	CO1	K3	
17) a	CO2	K3	
17) b	CO2	K3	
18) a	CO3	K3	
18) b	CO3	K3	
19) a	CO4	K4	
19) b	CO4	K4	
20) a	CO5	K4	
20) b	CO5	K4	
NB: Hi	gher le	vel of perf	ormance of the students is to be assessed by attempting higher
level of	K leve	ls	
Section	D (Op	en Choice)	
Answei	r Any 'l	Three quest	tions (3x10=30 marks)
<b>Q.No</b>		K Level	Questions
21		K2 K2	
22	<u>CO2</u>	K3	
23	<u>CO3</u>	K4	
24	CO4	K5	
25	CO5	К4	

## **Summative Examinations - Question Paper – Format**



# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

Course Code       21PCCC33       L       P       C         Category       Core       6       -       4         Vature of course:       EMPLOYABILITY       ✓       SKILL ORIENTED       ENTREPRENEURSHIP         COURSE OBJECTIVES:       ✓       SKILL ORIENTED       ENTREPRENEURSHIP         COURSE Objectives:       ✓       SKILL ORIENTED       ENTREPRENEURSHIP         Course control of the students to identify the basic concepts, definitions and terms related to Income Tax.       ✓       SKILL ORIENTED         2.       To enable the students to determine the residential status of an individual and scope of total income.       ✓       ✓         3.       To enable the students to compute income under various heads namely income from salaries, house property, business/ profession, capital gains and income from other sources.       ✓         4.       To enable the students to discuss the various deductions under the Income Tax Act, 1961.       ✓         5.       To enable the students to compute the net total taxable income of an individual.       ✓         Unit: I       TAX SYSTEM IN INDIA       18         Direct taxes – Meaning – History of Income Tax Act in India – Definitions of important terms - Assessment, Assesses, Person, Income, Assessment year, Previous year capital and revenue eceipts capital and revenue expenditure – Residential status – Incidence of taxation – Exempted								
Category       Core       6       -       4         Nature of course:       EMPLOYABILITY       ✓       SKILL ORIENTED       ENTREPRENEURSHIP         COURSE OBJECTIVES:       ✓       SKILL ORIENTED       ENTREPRENEURSHIP         Course:       To enable the students to identify the basic concepts, definitions and terms related to Income Tax.       ✓       SKILL ORIENTED       ENTREPRENEURSHIP         2.       To enable the students to determine the residential status of an individual and scope of total income.       Income income under various heads namely income from salaries, house property, business/ profession, capital gains and income from other sources.       4.       To enable the students to discuss the various deductions under the Income Tax Act, 1961.       18         Orientable the students to compute the net total taxable income of an individual.       18         Direct taxes – Meaning – History of Income Tax Act in India – Definitions of important terms - Assessment, Assesses, Person, Income, Assessment year, Previous year capital and revenue eceipts capital and revenue expenditure – Residential status – Incidence of taxation – Exempted								
Nature of course:       EMPLOYABILITY       ✓       SKILL ORIENTED       ENTREPRENEURSHIP         COURSE OBJECTIVES:								
COURSE OBJECTIVES:         1. To enable the students to identify the basic concepts, definitions and terms related to Income Tax.         2. To enable the students to determine the residential status of an individual and scope of total income.         3. To enable the students to compute income under various heads namely income from salaries, house property, business/ profession, capital gains and income from other sources.         4. To enable the students to discuss the various deductions under the Income Tax Act, 1961.         5. To enable the students to compute the net total taxable income of an individual.         Unit: I       TAX SYSTEM IN INDIA         18         Direct taxes – Meaning – History of Income Tax Act in India – Definitions of important terms - Assessment, Assesses, Person, Income, Assessment year, Previous year capital and revenue eceipts capital and revenue expenditure – Residential status – Incidence of taxation – Exempted								
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<ul> <li>3. To enable the students to compute income under various heads namely income from salaries, house property, business/ profession, capital gains and income from other sources.</li> <li>4. To enable the students to discuss the various deductions under the Income Tax Act, 1961.</li> <li>5. To enable the students to compute the net total taxable income of an individual.</li> <li>5. To enable the students to compute the net total taxable income of an individual.</li> <li>5. To enable the students to compute the net total taxable income of an individual.</li> <li>5. To enable the students to compute the net total taxable income of an individual.</li> <li>5. To enable the students to compute the net total taxable income of an individual.</li> <li>5. To enable the students to compute the net total taxable income of an individual.</li> <li>5. To enable the students to compute the net total taxable income of an individual.</li> <li>5. To enable the students to compute the net total taxable income of an individual.</li> <li>5. To enable the students to compute the net total taxable income of an individual.</li> <li>5. To enable the students to compute the net total taxable income of an individual.</li> <li>5. To enable the students to compute the net total taxable income of an individual.</li> <li>6. Unit: I TAX SYSTEM IN INDIA 18</li> <li>7. Direct taxes – Meaning – History of Income Tax Act in India – Definitions of important terms - Assessment, Assesses, Person, Income, Assessment year, Previous year capital and revenue eceipts capital and revenue expenditure – Residential status – Incidence of taxation – Exempted normality is a status – Incidence of taxation – Exempted normality is a status – Incidence of taxation – Exempted normality is a status – Incidence of taxation – Exempted normality is a status – Incidence of taxation – Incidence of ta</li></ul>								
<ul> <li>4. To enable the students to discuss the various deductions under the Income Tax Act, 1961.</li> <li>5. To enable the students to compute the net total taxable income of an individual.</li> <li>Unit: I TAX SYSTEM IN INDIA 18</li> <li>Direct taxes – Meaning – History of Income Tax Act in India – Definitions of important terms - Assessment, Assesses, Person, Income, Assessment year, Previous year capital and revenue eceipts capital and revenue expenditure – Residential status – Incidence of taxation – Exempted</li> </ul>								
5. To enable the students to compute the net total taxable income of an individual.         Unit: I       TAX SYSTEM IN INDIA         Direct taxes – Meaning – History of Income Tax Act in India – Definitions of important terms -         Assessment, Assesses, Person, Income, Assessment year, Previous year capital and revenue         eceipts capital and revenue expenditure – Residential status – Incidence of taxation – Exempted								
Unit: I       TAX SYSTEM IN INDIA       18         Direct taxes – Meaning – History of Income Tax Act in India – Definitions of important terms -       Assessment, Assesses, Person, Income, Assessment year, Previous year capital and revenue         receipts capital and revenue expenditure – Residential status – Incidence of taxation – Exempted								
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Assessment, Assesses, Person, Income, Assessment year, Previous year capital and revenue receipts capital and revenue expenditure – Residential status – Incidence of taxation – Exempted								
receipts capital and revenue expenditure – Residential status – Incidence of taxation – Exempted								
n 20 m 20 c								
ncomes.								
Unit: IIINCOME FROM SALARIES AND HOUSE PROPERTY18								
Computation of Taxable income from Salaries – Allowance – Perquisites – Deductions from salary								
- House property – Computation of income form house property – Deduction from house property								
Jmt: III   INCOME FROM BUSINESS OR PROFESSION AND CAPITAL GAIN   18								
Computation of income from business or profession – Deduction under section 30 to $37 - 200$								
INCOME FROM OTHER SOURCES AND SET OFF AND CARRY								
Jnit: IV     Income FROM OTHER SOURCES AND SET OFF AND CARRY     18       FORWARD LOSS AND DEDUCTIONS     18								
ncome from other sources - Dividends - Interest on securities - Types of securities - Casual								
ncome – Deductions to be made from income from other sources – Computation of gross total								
ncome – Deductions form Gross total income – Set off and Carry Forward Losses.								
Unit: V         ASSESSMENTS PROCEDURE OF INDIVIDUAL, HUF and FIRMS         18								
If ax treatment of income received from certain institutions – List of deductions – computation of tax								
liability – HUF – Meaning – Residence of HUF-Computation of HUF- Firms-Introduction and								
iability – HUF – Meaning – Residence of HUF-Computation of HUF- Firms-Introduction and								
iability – HUF – Meaning – Residence of HUF-Computation of HUF- Firms-Introduction and neaning of firm, LLP and Partners-Fulfills of condition of section.								
iability – HUF – Meaning – Residence of HUF-Computation of HUF- Firms-Introduction and neaning of firm, LLP and Partners-Fulfills of condition of section. Total Lecture Hours 90								
iability – HUF – Meaning – Residence of HUF-Computation of HUF- Firms-Introduction and neaning of firm, LLP and Partners-Fulfills of condition of section. Total Lecture Hours 90 80% of marks must be allotted to problem solving questions. 20% of marks must be allotted to Theory questions).								
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iability – HUF – Meaning – Residence of HUF-Computation of HUF- Firms-Introduction and meaning of firm, LLP and Partners-Fulfills of condition of section.           Total Lecture Hours         90           80% of marks must be allotted to problem solving questions. 20% of marks must be allotted to Theory questions).         90           Books for Study:        Gaur, V.P and Narang, D.B, Income Tax Law and Practice, Kalyani publishers, New Delhi.         90								

#### **Books for References:**

- 1. Vinod Singhania.K, Direct Taxes Law and Practice, Taxmann Publication Private Ltd, New Delhi. (Current Edition)
- **2.** lal.B.B,**Direct Taxes Practice and Planning**, Darling Kinderasley Private Ltd, New Delhi. (Current Edition)
- 3. N. Harihara, Income Tax Law and Practice, Tata MeGraw-Hill Publishing Company Ltd., New Delhi. (Current Edition)

web R	Cesources:						
https://ndl.iitkgp.ac.in/							
COUR	COURSE OUTCOME						
CO1:	To know the basic concepts with regard to direct taxes	Up tok3					
CO2:	To determine the income from salary of individuals also to compute the income from house property	Up tok3					
CO3:	To compute the capital gains and income from business or profession	Up to k5					
<b>CO4:</b>	To analyze the provisions for set off and carry forward of losses.	Up to k4					
CO5:	To determine the taxable income of individuals	Up to k5					

#### CO & PO Mapping:

CO's	<b>PO 1</b>	PO 2	<b>PO 3</b>	PO 4	<b>PO 5</b>	<b>PO 6</b>
CO 1	3	2	2	1	3	2
CO 2	3	3	3	3	2	3
CO 3	3	3	3	3	2	3
CO 4	3	3	3	3	2	3
CO 5	2	3	3	3	3	3

\*3 – Advanced Application; 2 – Intermediate Development; 1 – Introductory Level

#### LESSON PLAN

UNIT	DIRECT TAXES	Hrs	Pedagogy
Ι	Tax System in India	18	
II	Income from Salaries and House Property	18	
	First Internal Test –I		PPT, Group
III	Income from Business or Profession and Capital Gain	18	Seminar,
IV	Income from other sources and Set off and carry forward loss	18	Quiz, Assignment
V	Assessments procedure of Individual – HUF – Firms	18	and Activity
	Second Internal Test		

Course Designed by:

Dr. V. Suresh Babu, Assistant Professor & Dr. S. Ganesan, Associate Professor.

	Articulation Mapping – K Levels with Course Outcomes (COs)								
T / T	G	<b>T</b> 7 <b>T I</b>	Section MCC	n A Ds	Section Short Ans	n B swers	Section C	Section D	
Internal	Cos	K Level	No. of. Questions	K - Level	No. of. Questions	K – Level	Either or Choice	Open Choice	
CIAI CO1		Up tok3	2	2 K1,K2 1		K1	2(K2&K2)	1(K3)	
CIAI	CO2	Up tok3	2	K1,K2	2	K2	2(K3&K3)	1(K3)	
СТАП	<b>CO3</b>	Up to k5	2	K1,K2	1	K2	2(K4&K4)	1 (K5)	
CIAII	<b>CO4</b>	Up to k4	2	K1,K2	2	K2	2(K3&K3)	1(K4)	
		No. of Questions to be asked	4		3		4	2	
Question Pattern CIA I & II		No. of Questions to be answered	4		3		2	1	
		Marks for each question	1		2		5	10	
		Total Marksfor each section	4		6		10	10	

Learning Outcome Based Education & Assessment (LOBE)Formative Examination - Blue Print

\*Note: It is the decision of the course teacher to ask 2 Questions in any unit under section-B (short answer questions)

		Distrib	ution of Ma	rks with K	Level CIA	I & CIA	II	
	K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either / Or Choice)	Section D (Open Choice)	Total Marks	% of (Marks without choice)	nsolidateof %
	K1	2	2	-	-	4	8	40
	K2	2	4	10	_	16	32	40
	K3	-	-	10	20	30	60	60
CIAI	K4	-	-	-	-	-	-	-
	K5	-	-	-	-	-	-	-
	Marks	4	6	20	20	50	100	100
	K1	2	-	-	-	2	4	20
	K2	2	6	-	-	8	16	20
	K3	-	-	10	-	10	20	20
CIAII	K4	_	_	10	10	20	40	40
	K5	-	_	-	10	10	20	20
	Marks	4	6	20	20	50	100	100

**K1**- Remembering and recalling facts with specific answers

**K2**- Basic understanding of facts and stating main ideas with general answers

K3- Application oriented- Solving Problems

K4- Examining, analyzing, presentation and make inferences with evidences

CO5 will be allotted for individual Assignment which carries five marks as part of CIA component.

S	Summative Examination – Blue Print Articulation Mapping – K Level with Course Outcomes (COs)									
			MCQs		Short An	swers	Section C	Section D		
S.No	COs	K - Level	No. of Questions	K – Level	No. of Question	K – Level	(Either / or Choice)	(Open Choice)		
1	CO1	Up tok3	2	K1,K2	1	K1	2(K3&K3)	1(K2)		
2	CO2	Up tok3	2	K1,K2	1	K2	2(K3&K3)	1 (K3)		
3	CO3	Up to k5	2	K1,K2	1	K2	2(K4&K4)	1 (K5)		
4	CO4	Up to k4	2	K1,K2	1	K2	2(K4&K4)	1 (K4)		
5	CO5	Up to k5	2	K1,K2	1	K2	2(K4&K4)	1 (K5)		
No. of Questions to be Asked		ions to be ed	10		5		10	5		
No. of Questions to be answered		10		5		5	3			
Marks for each question		1		2		5	10			
Total I	Marks for	each section	10		10		25	30		
	(Figures	in parenthesi	is denotes, qu	iestions s	hould be asl	ked with	the given K	level)		

	Sum	mative Exan	ninations - D	istribution	of Mark	s with K l	Level
K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either/ or Choice)	Section D ( Open Choice)	Total Marks	% of (Marks without choice)	Consolidated %
K1	5	2	-	-	7	5.83	25
K2	5	8	-	10	23	19.16	23
K3	-	-	20	10	30	25	25
K4	-	-	30	10	40	33.33	33
K5	-	-	-	20	20	16.67	17
Marks	10	10	50	50	120	100	100
NB: Hig of K lev	gher level of p els.	erformance o	of the students	s is to be asse	essed by a	attempting	higher level

Section A	(Multi	iple Choice	e Questions)
Answer A	All Que	stions	(10x1=10 marks)
Q. No	CO	K Level	Questions
1	CO1	K1	
2	CO1	K2	
3	CO2	K1	
4	CO2	K2	
5	CO3	K1	
6	CO3	K2	
7	CO4	K1	
8	CO4	K2	
9	CO5	K1	
10	CO5	K2	
Section B	(Short	Answers)	
Answer A	All Que	stions	(5x2=10 marks)
Q. No	CO	K Level	Questions
11	CO1	K1	
12	CO2	K2	
13	CO3	K2	
14	CO4	K2	
15	CO5	K2	
Section C	C (Eithe	r/Or Type	)
Answer A	All Que	stions	(5 x 5 = 25 marks)
Q. No	CO	K Level	Questions
16) a	CO1	K3	
16) b	CO1	K3	
17) a	CO2	K3	
17) b	CO2	K3	
18) a	CO3	K4	
18) b	CO3	K4	
19) a	CO4	K4	
19) b	CO4	K4	
20) a	CO5	K4	
20) b	CO5	K4	
NB: High	er leve	l of perfor	mance of the students is to be assessed by attempting higher
level of K	levels		
Section D	Open	Choice)	
Answer A	Any Th	ree questio	ns (3x10=30 marks)
Q. No	CO	K Level	Questions
21	COI	K2	
22	CO2	K3	
23	CO3	K5	
24	CO4	K4	
25	CO5	K5	

# **Summative Examinations - Question Paper – Format**



# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

Course Name		DATABASE MANAG	EM	ENT SYSTEM						
Course Code		21PCCE31					L	Р	С	
Category		<b>Core Elective</b>					6	-	6	
Nature of Cou	rse	EMPLOYABILITY	✓	SKILLORIENTED	✓	ENTREPRE	NEU	JRSH	ΗP	
Course Object	ives:									
<ol> <li>To impart the knowledge of DBMS.</li> <li>To familiarize the students to convert the ER-model to relational tables.</li> <li>To improve the database design by normalization.</li> <li>To focus on the fundamental elements of relational database management systems.</li> <li>To develop efficient PL/SQL programs to access databases.</li> </ol>										
Unit: I Data, Information and Information Processing										
Introduction – Definition-History of information-Quality of information – Information Processing - Information and Enterprise. Introduction to Database Management Systems: Why a database?- Characteristics of data in a database-Database management system-Why DBMS-Types of DBMS.										
Unit: II	nit: II Entity Relationship (ER) Modeling							18		
Introduction-Components of an ER model-ER Modeling symbols.RDBMSTerminology: Relationaldataintegrity – Relationaldata manipulation-Codd'srules										
Unit: III	Data	ata Normalization							18	
Introduction-Fir Normal form-Fir	st Noi fth No	rmal form-Second Norma ormal form.	l for	m-Third Normal form-B	oyce	Codd Normal	form	n-Foi	urth	
Unit: IV	Stru	ctured Query Langua	ge(S	SQL)				18		
Introduction – H – Types of SQL Aggregates func	listory comr tions	of SQL –Characteristics nands- SQL Operators - T – Insert, update and delete	of S able e ope	QL – Advantages of SQ s – Views – Indexes –Querations- Joins and Union	L – S uerie ns	SQL Data type s and Sub quer	s and ies-	d Lite	erals	
Unit: V	Intr	oduction to PL/SQL						18		
PL/SQL blocks Procedures and 1	s – Va Packa	ariables – Data types - ( ges.	Cont	rol Structures - Cursor	– Ex	ceptions - Trig	gers	_		
						Total Hou	rs	90		
Book for stud 1. Alexis I Publicat	<b>ly:</b> Leon & tions,	& Mathews Leon, "Funda Chennai, 2014.	ment	tals of DBMS", Second	Editi	on, Vijay Nico	le			
<ol> <li>Books for Refe</li> <li>AviSilbers Edition,U.</li> <li>Raghurama Edition, U.</li> <li>Shio Kum Second Ed</li> </ol>	erence schatz P, 20 a Kris P, 20 ar Sir lition	e: , Henry F. Korth, S. Sud 16. hnan, Johannes Gehrke , ' 14. ngh, "Database Systems ( Chennai, 2011.	larsh "Dat Cono	an,"Database System C abase Management Syst cepts, Designs and App	Conc ems' licat	epts",McGraw ', McGraw Hil ion", Pearson	7-Hi l, Tł Edu	ll,Six iird catio	th n,	

Web Res	ources:						
1. https:/	/www.tutorialspoint.com/dbms/index.htm						
2. https:/	2. https://beginnersbook.com/2015/04/dbms-tutorial/						
3. https://www.tutorialcup.com/dbms							
Course Outcome K Level							
After the completion of the course the student will be able to,							
CO1	Gain the knowledge of DBMS.	Up to k3					
CO2	Analyze the variations between the traditional file systems with database software and learn the significance of DBMS.	Up to k4					
CO3	Analyze and design the importance of database security.	Up to k4					
CO4	Construct the role of a database in supporting Web applications	Up to k3					
CO5	Create the knowledge in database integrity.	Up to k5					

## CO & PO Mapping:

COS	PO1	PO2	PO3	PO4	PO5	PO6
CO1	3	3	3	3	2	3
CO2	3	3	2	2	3	3
CO3	2	3	3	3	2	3
CO4	3	3	3	3	3	2
CO5	3	3	3	2	2	2
Weightage	14	15	14	13	12	13

\*3-Advanced Application; 2-Intermediate Development; 1-Introductory Level

### LESSON PLAN

UNIT	DATABASE MANAGEMENT SYSTEM	Hrs	Mode
I	<b>Data, Information and Information Processing</b> Introduction –Quality of information – Information Processing - Introductionto Database - Characteristics of data in a database- Database management system- Types of DBMS.	18	L/ PPT, Chalk and Talk
П	<b>Entity Relationship (ER) Modeling</b> Introduction - Components of an ER model-ER Modeling symbols- Relational data integrity – Relational data manipulation - Codd'srules	18	L/ PPT, Chalk and Talk
ш	<b>Data Normalization</b> Introduction-First Normal form-Second Normal form-Third Normal form-Boyce Codd Normal form-Fourth Normal form-Fifth Normal form.	18	L/ PPT, Chalk and Talk
IV	<b>Structured Query Language(SQL)</b> Introduction – History of SQL –Characteristics of SQL – Advantages of SQL – SQL Data types and Literals – Types of SQL commands- SQL Operators - Tables – Views – Indexes –Queries and Sub queries- Aggregates functions – Insert, update and delete operations- Joins and Unions	18	L/ PPT, Chalk and Talk, Exercise

V

# Introduction to PL/SQL

PL/SQL blocks – Variables – Data types - Control Structures - Cursor– Exceptions - Triggers – Procedures and Packages. 18 L/ PPT, Chalk and Talk, Exercise

Course designed by: Mrs.A.Nagaswathy, Assistant Professor.

Learning Outcome Based Education & Assessment (LOBE) Formative Examination	on- Blue
Print Articulation Mapping-K Levels with Course Outcomes (COs)	

			Section	Section A		n B		
Internal	Cos	K Level	MCQs		Short Answers		Either or	Section D Open
	000		No. of.	K-	No. of.	K-	Choice	Choice
			Questions	Level	Questions	Level		
	CO1	Up to k3	2	K1,K2	1	K1	2(K2&K2)	1(K3)
CIA I	CO2	Up to k4	2	K1,K2	2	K2	2(K3&K3)	1(K4)
СІАП	CO3	Up to k4	2	K1,K2	1	K2	2(K4&K4)	1(K4)
	<b>CO4</b>	Up to k3	2	K1,K2	2	K2	2(K3&K3)	1(K3)
		No. of						
		Questions to	1	1	3		4	2
		Be asked	-		5		-	4
		No. of						
		Questions to	4		3		2	1
Question P	attern	be answered	-		5		4	L
CIA I&	II	Marks for						
		each	1		2		5	10
		Question						
		Total Marks						
		for each	1		6		10	10
		Section	4		U		10	10

	Distribution of Marks with K Level CIA I&CIA II									
	K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either / Or Choice)	Section D (Open Choice)	Total Marks	%of (Marks without choice)	Consolidate of %		
	K1	2	2	-	-	4	8	40		
	K2	2	4	10	-	16	32	40		
	K3	-	-	10	10	20	40	40		
СТАТ	K4	-	-	-	10	10	20	20		
	K5	-	-	-	-	-	-	-		
	Marks	4	6	20	20	50	100	100		
	K1	2	-	-	-	2	4	20		
	K2	2	6	-	-	8	16	20		
	K3	-	-	10	10	20	40	40		
CIAII	K4	-	_	10	10	20	40	40		
	K5	-	_	_		-	-	-		
	Marks	4	6	20	20	50	100	100		

K1-Remembering and recalling facts with specific answers

K2-Basic understanding of facts and stating main ideas with general answers

**K3**-Application oriented-Solving Problems

K4-Examining, analyzing, presentation and make inferences with evidences

CO5 will be allotted for individual Assignment which carries five marks as part of CIA component

S	Summative Examination–Blue Print Articulation Mapping–K Level with Course										
	Outcomes(COs)										
		K Lovel	MCQ	)s	Short An	swers	Section C	Section D			
S. No	Cos	K-Level	No. of	<b>K</b> –	No. of	<b>K</b> –	(Either / or	(Open			
			Questions	Level	Question	Level	Choice)	Choice)			
1	CO1	Up to k3	2	K1,K2	1	K1	2(K2&K3)	1(K2)			
2	CO2	Up to k4	2	K1,K2	1	K2	2(K3&K3)	1(K4)			
3	CO3	Up to k4	2	K1,K2	1	K2	2(K4&K4)	1(K3)			
4	<b>CO4</b>	Up to k3	2	K1,K2	1	K2	2(K3&K3)	1(K3)			
5	CO5	Up to k5	2	K1,K2	1	K2	2(K4&K4)	1(K5)			
No. of	Questions	s to be Asked	10		5		10	5			
No.	of Quest Answe	ions to be pred	10		5		5	3			
Marl	ks for eac	h question	1		2		5	10			
Total N	Aarks for	each section	10		10		25	30			
(]	Figures in	n parenthesis	denotes, qu	estions s	hould be as	ked with	the given K	level)			

Summative Examinations –Distribution of Marks with K Level										
K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either/ or Choice)	Section D (Open Choice)	Total Marks	% of (Marks without choice)	Consolidated %			
K1	5	2	-	-	7	5.83	20			
K2	5	8	5	10	28	23.33	29			
K3	-	-	25	20	45	37.5	38			
K4	-	-	20	10	30	25	25			
K5	-	-	-	10	10	8.33	8			
Marks	10	10	50	50	120	100	100			
NB: Higher level of performance the students is to be assessed by attempting higherlevel										
of K leve	els.									

Section	A(Mu	ltiple Choic	e Questions)
Answer	· All Qı	uestions	(10x1=10marks)
Q.No	CO	K Level	Questions
1	CO1	K1	
2	CO1	K2	
3	CO2	K1	
4	CO2	K2	
5	CO3	K1	
6	CO3	K2	
7	CO4	K1	
8	CO4	K2	
9	CO5	K1	
10	CO5	K2	
Section	B (Sho	ort Answers	3)
Answer	· All Qı	uestions	(5x2=10marks)
Q.No	CO	K Level	Questions
11	CO1	K1	
12	CO2	K2	
13	CO3	K2	
14	CO4	K2	
15	CO5	K2	
Section	C(Eit	her/Or Typ	e)
Answer	· All Qı	uestions	(5x5=25marks)
Q.No	CO	K Level	Questions
16)a	CO1	K2	
16)b	CO1	K3	
17)a	CO2	K3	
17)b	CO2	K3	
18)a	CO3	K4	
18)b	CO3	K4	
19)a	CO4	K3	
19)b	CO4	K4	
20)a	CO5	K3	
20)b	CO5	K4	
NB: Hi	gher le	vel of perfo	rmance of the students is to be assessed by attempting higher
level Of	K leve	els	
Section	D (Op	en Choice)	
Answer	· Any 'I	hree quest	ions (3x10=30marks)
Q.No	CO	K Level	Questions
21	CO1	K2	
22	CO2	K3	
23	CO3	K3	
24	CO4	K4	
25	CO5	K5	

# **Summative Examinations – Question Paper–Format**



# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

Course Name	WEB TECHNOLOGY	WEB TECHNOLOGY							
Course Code	e 21PCCE32			L	Р	C			
Category	Core Elective			6	-	6			
Nature of course:	EMPLOYABILITY	REN	EURS	SHIP					
Course Obje	ectives:								
<ol> <li>To impart</li> <li>To introduct</li> <li>for the W</li> <li>Students at</li> <li>To learn t</li> <li>Students application</li> </ol>	<ol> <li>To impart knowledge regarding publishing the content on the World Wide Web.</li> <li>To introduce the basics of graphic production with a specific stress on creating graphics for the Web.</li> <li>Students are able to develop a dynamic webpage by the use of VB script and DHTML.</li> <li>To learn the basic tools and applications used in Web publishing.</li> <li>Students will gain the skills and project-based experience needed for entry into web application and davelopment agreers.</li> </ol>								
Unit: I	ntroduction to Internet			1	8				
Introduction: What is Internet? – History of Internet – Internet services and Accessibility – Uses of Internet – Protocols – Web concepts – Internet Standards HTML: Introduction - Outline of a HTML document – Head Section - Body Section - HTML Forms									
Unit: II J	AVA Script			1	8				
Introduction - Math Object,	<ul> <li>Language Elements – Obje</li> <li>String Object, Regular Expr</li> </ul>	ects of Java Script – Otl ressions	ner Objects – D	)ata	Objec	:t,			
Unit: III C	Cascading Style Sheets (CS	S)		1	8				
Coding CSS – Properties of Tags – Property values – Other style properties – Inline style sheets – Embedded Style Sheets – External Style Sheets – Grouping – Inheritance – Class as Selector – ID as Selector – Contextual Selectors – Pseudo Classes and Pseudo-elements – Positioning – Backgrounds – Element Dimensions									
Unit: IV Extensible Mark-Up Language (XML)									
Introduction – HTML vs XML – Syntax of XML document – XML Attributes – XML DTD – Building blocks of XML Documents - DTD Elements – DTD Attributes – DTD Entities – XSL Transformation - XML Schema									
Unit: V J	ava Server Pages (JSP)				18				
Introduction - sessions	- Advantages of JSP – Deve	eloping First JSP – HTN	ML file to JSP	file -	- JSP				

	Tetal	
TT	10181	90
Hours		
Books	tor Study:	
1.N.P.C	Gopalan, J.Akilandeswari , <b>Web Technology</b> , PHI Learning Private Limit	ed, New
Delhi, S	Second Edition, July 2014.	
	•	
Books	for References:	
Achyut	Godbole, AtulKhate, Web Technologies, McGraw Hill Education private	limited, New
Delhi.	Chird Edition .2017	,
Ralph N	Moseley, Web Technology, Wiley India, Noida, First Edition. 2016	
N. P. G	opalan, T. A. Adikesavan, Web Technology: A Developer's Perspective	PHI
Learnin	g New Delhi. 2nd Edition. 2014	,
Web R	esources.	
1 http:	://www.tutorialride.com/web-technologies.htm	
$\frac{1.1100}{2}$	y//www.tutorialsnoint.com/internet_technologies/index.htm	
$\frac{2.1100}{2.1100}$	w//www.eduraka.co/blog/wab.davalanment.tutorial	
5. <u>Intp</u>	S://www.edureka.co/blog/web-development-tutorial	
Course	Outcomes	K Level
After	the completion of the course the student will be able to,	
CO1	Understand the basic concepts of web programming using HTML.	Up To K2
CO2	Experiment how to link pages in a website.	Up To K3
		op 10 110
CO3	Point out the importance of CSS to design the web pages	Up To K4
CO4	Create and Test dynamic web pages by the use of JAVAscript	Up To K5
CO5	Analyze the web page application using client and server side	Up To K4

# CO & PO Mapping:

COS	PO1	PO2	PO3	PO4	PO5	PO6
CO1	2	3	2	3	2	2
CO2	3	3	3	3	2	3
CO3	3	3	3	3	2	2
CO4	3	3	3	2	3	3
CO5	3	3	3	2	3	3
Weightage	14	15	14	13	12	13

**\*3**-Advanced Application; **2**-Intermediate Development; **1**-Introductory Level

UNIT	WEB TECHNOLOGY	Hrs	Mode
I	<b>Introduction:</b> Internet– History of Internet – Internet services and Accessibility – Uses of Internet – Protocols – Web concepts – Internet Standards Internet Protocols: Introduction – Internet Protocols – Host Names – Internet Applications and Application Protocols	18	L/ PPT, Chalk And Talk
II	JAVA Script: Introduction – Language Elements – Objects of Java Script – Other Objects – Data Object, Math Object, String Object, Regular Expressions	18	L/ PPT, Chalk And Talk
III	<b>Extensible Mark-Up Language (XML):</b> Introduction – HTML vs XML – Syntax of XML document – XML Attributes – XML DTD – Building blocks of XML Documents - DTD Elements – DTD Attributes – DTD Entities – XSL Transformation - XML Schema	18	L/ PPT, Chalk and Talk
IV	Extensible Mark-Up Language (XML): Introduction – HTML vs XML – Syntax of XML document – XML Attributes – XML DTD – Building blocks of XML Documents - DTD Elements – DTD Attributes – DTD Entities – XSL Transformation - XML Schema	18	L/ PPT, Chalk and Talk
V	Java Server Pages (JSP): Introduction – Advantages of JSP – Developing First JSP – HTML file to JSP file – JSP sessions - Cookies	18	L/ PPT, Chalk and Talk

### **LESSON PLAN**

Course designed by: Mrs.A.Nagaswathy, Assistant Professor.

Learning Outcome Based Education & Assessment (LOBE)										
Articulation Mapping–K Levels with Course Outcomes (COs)										
			Section	Section A		n B				
Internal	COs	K Level	MCQ	)s	Short An	swers	Section C Either or	Section D Open		
Internat	005	II Lever	No. of	К-	No. of	K-	Choice	Choice		
			Questions	Level	Questions	Level				
CIAI	CO1	Up to k2	2	K1,K2	1	K1	2(K2&K2)	1(K2)		
CIAI	CO2	Up to k3	2	K1,K2	2	K2	2(K3&K3)	1(K3)		
CIAH	CO3	Up to k4	2	K1,K2	1	K2	2(K4&K4)	1(K3)		
CIAII	CO4	Up to k5	2	K1,K2	2	K2	2(K3&K3)	1(K5)		
Question Pattern CIA I&II		No. of Questions to be asked	4		3		4	2		
		No.of Questions to be answered	4		3		2	1		
		Marks for each Question	1		2		5	10		
		Total Marks for each Section	4		6		10	10		

	Distribution of Marks with K Level CIA I&CIA II												
	K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either /Or Choice)	Section D (Open Choice)	TotalMark s	%of (Marks without choice)	nsolidate of %					
	K1	2	2	-		4	8	60					
	K2	2	4	10	10	26	52	00					
	K3	-	-	10	10	20	40	40					
CIAI	K4	-	-	-	-	-	-	-					
CIIII	K5	-	-	-	-	-	-	-					
	Marks	4	6	20	30	60	100	100					
	K1	2	-	-	-	2	4	20					
	K2	2	6	-	-	8	16	20					
	K3	-	-	10	10	20	40	40					
CIAII	K4	-	-	10	-	10	20	20					
	K5	-	-	-	10	10	20	20					
	Marks	4	6	20	30	60	100	100					

 $\ensuremath{\textbf{K1}}\xspace$  Remembering and recalling facts with specific answers

K2-Basic understanding of facts and stating main ideas with general answers

**K3**-Application oriented-Solving Problems

K4-Examining, analyzing ,presentation and make inferences with evidences

CO5 will be allotted for individual Assignment which carries five marks as part of CIA component

S	Summative Examination–Blue Print Articulation Mapping- K Level with Course Outcomes (COs)										
			MCQs		Short Answers		Seation C	Seation D			
S. No	COs	K-Level	No. of Questions	K– Level	No. of Question	K– Level	(Either / or Choice)	(Open Choice)			
1	CO1	Up to k2	2	K1,K2	1	K1	2(K2&K2)	1(K2)			
2	CO2	Up to k3	2	K1,K2	1	K2	2(K3&K3)	1(K3)			
3	CO3	Up to k4	2	K1,K2	1	K2	2(K4&K4)	1(K4)			
4	CO4	Up to k5	2	K1,K2	1	K2	2(K3&K4)	1(K5)			
5	CO5	Up to k4	2	K1,K2	1	K2	2(K3&K4)	1(K4)			
No.	of Quest Aske	ions to be d	10		5		10	5			
No. of Questions to be answered		10		5		5	3				
Marks for each question			1		2		5	10			
Total Marks for each section		10		10		25	30				
F	ligures in	<b>parenthesis</b>	denotes ,qu	estions s	hould be as	ked with	the given K	level)			

Summative Examinations-Distribution of Marks with K Level											
K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either/ or Choice)	Section D ( Open Choice)	TotalMark s	% of (Marks without choice)	Consolidated %				
K1	5	2	-	-	7	5.83	24				
K2	5	8	10	10	33	27.5	54				
K3	-	-	20	10	30	25	25				
K4	-	-	20	20	40	33.33	33				
K5	-	-	-	10	10	8.33	8				
Marks	10	10	50	50	120	100	100				

NB: Higher level of performance of the students is to be assessed by attempting higher level of K levels.

Section	A(Mu	ltiple Choic	ce Questions)
Answer	· All Q	uestions	(10x1=10marks)
Q.No	CO	K Level	Questions
1	CO1	K1	
2	CO1	K2	
3	CO2	K1	
4	CO2	K2	
5	CO3	K1	
6	CO3	K2	
7	CO4	K1	
8	CO4	K2	
9	CO5	K1	
10	CO5	K2	
Section	B (She	ort Answer	s)
Answer	· All Q	uestions	(5x2=10marks)
Q.No	CO	K Level	Questions
11	CO1	K1	
12	CO2	K2	
13	CO3	K2	
14	CO4	K2	
15	CO5	K2	
Section	C (Eit	her / Or Ty	/pe)
Answer	· All Q	uestions	(5x5=25marks)
Q.No	CO	K Level	Questions
16)a	CO1	K2	
16)b	CO1	K2	
17)a	CO2	K3	
17)b	CO2	K3	
18)a	CO3	K4	
18)b	CO3	K4	
19)a	CO4	K3	
19)b	CO4	K4	
20)a	CO5	K3	
20)b	CO5	K4	
NB: Hig	gher le	vel of perfo	ormance of the students is to be assessed by attempting higher
level Of	f K lev	els	
Section	D (Op	en Choice)	
Answer	· Any J	Three quest	ions (3x10=30marks)
Q.No	CO	K Level	Questions
21	CO1	K2	
22	CO2	K3	
23	CO3	K4	
24	CO4	K5	
25	CO5	K4	

# **Summative Examinations – Question Paper–Format**



# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

Course Name	JAVA PROGRAMMING								
Course Code	21PCCE33					L	Р	С	
Category	Elective					6	-	6	
Nature of course:	EMPLOYABILITY	<b>~</b>	SKILL ORIENTED	~	ENTREPREN	URS	HIP		
Course Objectives:									
<ol> <li>To learn how to use Core Java Technologies.</li> <li>To implement OOP Concept.</li> <li>To get knowledge in Classes, Fundamentals, Methods, Constructors and Garbage Collections.</li> <li>To analyze the current Thread and Synchronization.</li> <li>To understand the concept of multi threading and exception.</li> </ol>									
Unit: I	Java Evolution, Consta	ants,	variables and data types					18	
Java Features – Java Differs from C and C++ - Java and Internet. Java and World Wide Web - Web browsers – Hardware and Software Requirements – Java Support Systems – Java Environment. <b>Overview of Java Language:</b> Simple Java Program – Java Program Structure – Java Tokens – Java Statements – Implementing a Java Program – Java Virtual Machine-Command Line Arguments. <b>Constants, variables and data types:</b> Constants - Variables – Giving Values to Variables – Scope of Variables – Symbolic Constants – Type Casting.									
Unit: II	<b>Operators and Express</b>	sions	s, Decision Making and B	ranch	ing			18	
OperatorsOperatorsImprovision Decision Natural and DrancingOperatorsand Expressions : Arithmetic Operators – Relational Operators – Logical Operators – Assignment Operators – Increment and Decrement Operators – Conditional Operators – Bitwise Operators – Special Operators – Arithmetic Expressions - Evaluation of Expressions – Precedence of Arithmetic Operators – Type Conversions in Expressions - Mathematical Functions.Decision Making and Branching: Decision Making with If Statement – Simple if Statement – The If- Else Statement – Nesting of If-Else Statements – The Else If Ladder – The Switch Statement - The ?: Operator. Decision Making and Looping: The While Statement – The Do Statement – For Statement – Jumps in Loops.									
Unit: III	Classes, Objects and M	Ieth	ods and Arrays, Strings a	nd V	ectors			18	
Classes, Objects and Methods: Defining a Class – Fields Declaration – Methods Declaration – Creating Objects – Accessing Class Members -Static Members – Nesting of Methods Inheritance: Extending a Class – Overriding Methods.Arrays, Strings and Vectors: One Dimensional Array – Creating an Array - Two Dimensional Arrays – Strings – Vectors – Wrapper Classes – Enumerated Types. Interfaces: Multiple Inheritance - Defining Interfaces -Extending Interfaces -Implementing Interfaces – Accessing Interface Variables.									
Unit: IV	Packages and Multith	read	ed Programming					18	

Putting classes together - Java API Packages - Using System Packages – Naming Conventions – Creating Packages – Accessing a Package – Using a Package – Adding a Class to a Package **Multithreaded Programming:** Creating Threads– Stopping and Blocking a Thread – Life Cycle of a Thread – Using Thread Methods – Thread Exceptions – Thread Priority – Implementing the 'Runnable' Interface.

#### Unit: V Managing Errors and Exceptions and Applet Programming

Types of Errors – Exceptions – Syntax of Exception Handling Code – Multiple Catch Statements - Using Finally Statement – Throwing Our Own Exceptions – Using Exceptions for Debugging. **Applet Programming:** How Applet Differ from Applications – Preparing to Write Applet – Building Applet Code – Applet Life Cycle – Creating an Executable Applet – Designing a Web Page – Applet Tag – Adding Applet to HTML File – Running The Applet.

Total Hours 90

18

#### **Books for Study:**

**1.** Balagurusamy. E, **Programming With Java**, Tata McGraw Hill Private Limited, Fourth Edition, 2013, New Delhi.

#### **Books for Reference:**

- 1. Radha Krishna. P, **Object Oriented Programming With Java**, University Press India Private Limited, 3rd Edition, 2008, Hyderabad.
- **2.** Debasish Jana, **Java Object Oriented Programming Paradigm**, Prentice Hall of India Private Limited, 3rd Edition, 2008, New Delhi.
- **3.** Rajiv Sharma and Vivek Sharma, **JAVA Programming by Example**, Cambridge University Press, 3<sup>rd</sup> Edition, USA

#### Web Resources

- 1. https://www.guru99.com/java-tutorial.html
- 2. <u>https://www.tutorialspoinnt.com/java</u>
- 3. https://www.programiz.com/java-programming

Course Outcome								
After the con	After the completion of the course the student will be able to,							
CO1	Understand the functionality of the Core Java	Up to K2						
CO2	Apply the concept of OOP.	Up to K3						
CO3	Apply and implementation of Thread services.	Up to K4						
CO4	Examine the features of Applet and AWT Various applications	Up to K4						
CO5	Develop Java program using packages, inheritance and interface.	Up to K4						

COS	PO 1	PO 2	<b>PO 3</b>	PO 4	P 5	<b>PO 6</b>
CO 1	2	3	3	3	2	2
CO 2	3	3	2	3	2	3
CO 3	3	3	3	3	2	2
<b>CO 4</b>	3	3	3	2	3	3
CO 5	3	3	3	2	3	3
Weightage	14	15	14	13	12	13

### CO & PO Mapping:

\*3 – Advanced Application; 2 – Intermediate Development; 1 - Introductory Level

### LESSON PLAN

UNIT	COURSE NAME	HOURS	PEDAGOGY
UNIT - I	Java Features – Java Differs from C and C++ - Java and Internet. Java and World Wide Web - Web browsers – Hardware and Software Requirements – Java Support Systems – Java Environment. <b>Overview of Java Language:</b> Simple Java Program – Java Program Structure – Java Tokens – Java Statements – Implementing a Java Program – Java Virtual Machine – Command Line Arguments. <b>Constants,</b> <b>variables and data types:</b> Constants - Variables – Giving Values to Variables – Scope of Variables – Symbolic Constants – Type Casting.	18	Chalk & Talk, Lab Exercises
UNIT - II	<ul> <li>Arithmetic Operators – Relational Operators – Logical Operators – Assignment Operators – Increment and Decrement Operators – Conditional Operators</li> <li>Bitwise Operators – Special Operators – Arithmetic Expressions - Evaluation of Expressions – Precedence of Arithmetic Operators</li> <li>Type Conversions in Expressions - Mathematical Functions.</li> <li>Decision Making and Branching: Decision Making with If Statement – Simple if Statement – The If-Else Statement – Nesting of If-Else Statements – The Else If Ladder – The Switch Statement - The ?: Operator. Decision Making and Looping: The While Statement – The Do Statement – For Statement – Jumps in Loops.</li> </ul>	18	Chalk&Talk, Lab Exercises

UNIT - III	<ul> <li>Defining a Class – Fields Declaration – Methods Declaration – Creating Objects – Accessing Class Members -Static Members – Nesting of Methods</li> <li>Inheritance: Extending a Class – Overriding Methods.</li> <li>Arrays, Strings and Vectors:: One Dimensional Array – Creating an Array - Two Dimensional Arrays – Strings – Vectors – Wrapper Classes – Enumerated Types. Interfaces: Multiple Inheritance - Defining Interfaces -Extending Interfaces -Implementing Interfaces – Accessing Interface Variables.</li> </ul>	18	Chalk&Talk, Exercises
UNIT - IV	Putting classes together - Java API Packages - Using System Packages – Naming Conventions – Creating Packages – Accessing a Package – Using a Package – Adding a Class to a Package <b>Multithreaded Programming:</b> Creating Threads– Stopping and Blocking a Thread – Life Cycle of a Thread – Using Thread Methods – Thread Exceptions – Thread Priority – Implementing the 'Runnable' Interface.	18	Chalk & Talk Lab exercises
UNIT - V	Types of Errors – Exceptions – Syntax of Exception Handling Code – Multiple Catch Statements - Using Finally Statement – Throwing Our Own Exceptions – Using Exceptions for Debugging. <b>Applet Programming:</b> How Applet Differ from Applications – Preparing to Write Applet – Building Applet Code – Applet Life Cycle – Creating an Executable Applet – Designing a Web Page – Applet Tag – Adding Applet to HTML File – Running The Applet.	18	Chalk & Talk, Lab Exercises

 $Course \ Designed \ by: Mrs.T. Thivy a Sindhu, \ Assistant \ Professor$ 

Learning Outcome Based Education & Assessment (LOBE)										
Formative Examination- Blue Print										
		AI		Section	Section A		n B		~	
Internal	Co	S	K Level	MCC	Qs	Short An	swers	Section C Either or Choice	Section D Open	
	Cu	6		No. of. Questions	K- Level	No. of. Questions	K- Level		Choice	
CIA I	CO	)1	Up to K2	2	K1,K2	1	K1	2(K2&K2)	1(K2)	
	CO	2	Up to K3	2	K1,K2	2	K2	2(K3&K3)	1(K3)	
	CO	93	Up to K4	2	K1,K2	1	K2	2(K4&K4)	1(K4)	
	CO	94	Up to K4	2	K1,K2	2	K2	2(K3&K3)	1(K4)	
		No. of Questions to Be asked		4		3		4	2	
			No. of							
Question Pattern CIA I&I	n Ç 1	Ques ai	stions to be nswered	4		3		2	1	
	II	Marks for each Question		1		2		5	10	
	Т	Total Marks for								
		S	each Section	4		6		10	10	

	Distribution of Marks with K Level CIA I&CIA II												
	K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either / Or Choice)	Section D (Open Choice)	Total Marks	%of (Marks without choice)	Consolidate of %					
	K1	2	2	-	-	4	8	60					
	K2	2	4	10	10	26	52	00					
	K3	-	-	10	10	20	40	40					
~	K4	-	-	-	-	-	-	-					
CIAI	K5	-	-	-	-	-	-	-					
	Marks	4	6	20	20	50	100	100					
	K1	2	-	-	-	2	4	20					
	K2	2	6	-	-	8	16	20					
	K3	-	-	10	-	10	20	20					
CIAII	K4	-	-	10	20	30	60	60					
	K5	_	-	-	-	-	-	_					
	Marks	4	6	20	20	50	100	100					

K1-Remembering and recalling facts with specific answers

K2-Basic understanding of facts and stating main ideas with general answers

**K3**-Application oriented-Solving Problems

K4-Examining, analyzing, presentation and make inferences with evidences

CO5 will be allotted for individual Assignment which carries five marks as part of CIA component

S	Summative Examination–Blue Print Articulation Mapping–K Level with Course Outcomes(COs)								
			MCQs		Short An	swers	Seation C		
S. No	Cos	K–Level	No. of Questions	K– Level	No. of Question	K– Level	(Either / or Choice)	(Open Choice)	
1	CO1	Up to k2	2	K1,K2	1	K1	2(K2&K2)	1(K2)	
2	CO2	Up to k3	2	K1,K2	1	K2	2(K3&K3)	1(K3)	
3	CO3	Up to k4	2	K1,K2	1	K2	2(K4&K4)	1(K3)	
4	CO4	Up to k4	2	K1,K2	1	K2	2(K3&K3)	1(K4)	
5	CO5	Up to k4	2	K1,K2	1	K2	2(K4&K4)	1(K4)	
No. of Questions to be Asked		10		5		10	5		
No. of Questions to be Answered		10		5		5	3		
Marks for each question		1		2		5	10		
Total Marks for each section			10		10		25	30	
(Figures in parenthesis denotes, questions should be asked with the given K level)									

Summative Examinations – Distribution of Marks with K Level							
K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either/ or Choice)	Section D (Open Choice)	Total Marks	% of (Marks without choice)	Consolidated %
K1	5	2	-	-	7	5.8	33.3
K2	5	8	10	10	33	27.5	55.5
K3	-	-	20	10	30	25	25
K4	-	-	20	30	50	41.7	41.7
K5	-	-	-				-
Marks	10	10	50	50	120	100	100

NB: Higher level of performance the students is to be assessed by attempting higher level of K levels.

Section	A(Mul	tiple Choic	ce Questions)
Answer	All Qu	iestions	(10x1=10marks)
Q.No	CO	K Level	Questions
1	CO1	K1	
2	CO1	K2	
3	CO2	K1	
4	CO2	K2	
5	CO3	K1	
6	CO3	K2	
7	CO4	K1	
8	CO4	K2	
9	CO5	K1	
10	CO5	K2	
Section	B (Sho	rt Answers	s)
Answer	All Qu	iestions	(5x2=10marks)
Q.No	CO	K Level	Questions
11	CO1	K1	
12	CO2	K2	
13	CO3	K2	
14	CO4	K2	
15	CO5	K2	
Section	C( Eith	her/Or Typ	be)
Answer	All Qu	lestions	(5x5=25marks)
Q.No	CO	K Level	Questions
16)a	CO1	K2	
16)b	COI	K3	
17)a	CO2	K3	
17)b	CO2	K3	
18)a	CO3	K4	
18)b	CO3	K4	
19)a	CO4	K3	
19)b	CO4	K4	
20)a	CO5	K3	
20)b	CO5	K4	
NB: Hig	gher lev	vel of perfo	ormance of the students is to be assessed by attempting higher level
Of K lev	vels		
Section	D (Ope	en Choice)	(210, 20
Answer		IV I aval	Ions (5x10=50marks)
<b>Q.NO</b>	CO1	K Level	Questions
21	CO1	<u>K2</u>	
22	$CO_2$	KJ K2	
23	$CO_4$		
24	CO4	<u>Γ</u> 4	
23	005	КJ	

## Summative Examinations – Question Paper–Format



# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

Course Name DATABASE MANAGEMENT SYSTEM - LAB							
Course Code	<b>21PCCEP1</b>			L	Р	С	
Category	Core Elective			-	6	6	
Nature of courses	EMPLOYABILITY 🗸 S	KILLORIENTED	✓ ENTREPREN	EUR	SHIP		
Course Objectives:							
1. To understan	a good formal foundation of	n the relational mod	el of data				
2. To summarize the concepts and techniques relating to query processing by SQL engines							
3. To understan	d various advanced queries e	execution.					
4. To build stud	the students to cond on entire	blast of statements	to the detahese o				
5. TO familiarize	the students to send an entire	e block of statements	s to the database a	t one	ume i	ising	
List of Programs:							
1. Create an e	mployee table in my SOL.						
2. Using DM	L commands						
3. Create a ta	ble of student mark list havir	ng the following fie	lds:				
name, regi	o, mark1, mark2, mark3, tot	tal, average, result.					
a) Ins	ert minimum 10records						
b) Qu	ery to find total, avg, result						
4. Create an	electricity bill table which ha	as the following fiel	ds:				
Customer	name, customer no, previous	s meter reading, cur	rent meter				
reading, u	its consumed, type, and amo	ount.					
a) Ins	ert minimum 10records						
b) Qu	ery to find units consumed						
c) Qu	ery to find the amount where	e type=house rs.5 p	er unit,				
typ	e=office rs.8 per unit, type=	factory rs.12 per un	it				
5. Create a si	nple interest and compound	interest table using	mySQL				
6. Create a ta	ble of personal detail with th	ne required fields					
7. Create a ta	set operators	the required fields					
0. Queries 10	ng Aggregate functions						
10 View creat	ion and manipulation						
11  PL/SOL P	cogram to Find Factorial of a	a Number					
12 PL/SQL P	ogram to Print Table of a N	umber					
13. PL/SOL P	ogram for Reverse of a Nun	nber					
14. PL/SQL Program for Fibonacci Series							
15. PL/SQL P	ogram to Check Number is	Odd or Even					
			Total Hour	s	90	)	
				2	70		

COUR	RSE OUTCOMES	K Level
After t	the completion of the course the student will be able to,	
CO1	Understand and apply the concepts of database technologies	<b>Up To K3</b>
CO2	Apply a query to the database using SQL DML/DDL commands	<b>Up To K3</b>
<b>CO3</b>	Analyze, select storage and recovery techniques of database system	Up To K4
<b>CO4</b>	Apply the basic concepts of Database Systems and Applications	Up ToK3
CO5	Analyze the concepts of PL/SQL which gives high productivity	Up To K4

## **CO&PO Mappings:**

COS	PO1	PO2	PO3	PO4	PO5	PO6
CO 1	3	3	3	2	2	2
CO 2	3	3	3	2	2	3
CO 3	2	2	3	3	3	2
<b>CO 4</b>	3	3	2	3	3	3
CO 5	3	3	3	2	3	3
Weightage	14	14	14	12	13	13

**\*3**-Advanced Application;**2**-Intermediate Development;**1**-Introductory Level

DATABASE MANAGEMENT SYSTEM LAB	Hrs	Mode
Create an employee table in mySQL.	6	
Using DML commands	6	
Create a table student mark list having the following fields:	_	
name, regno, mark1, mark2, mark3, total, average, result.	6	
Create an electricity bill table which have the following fields:		
Customer name, customer no, previous meter reading, current	6	
meter reading, units consumed, type, amount.		
Create a simple interest and compound interest table using	6	
mySQL	U	
Create a table of personal detail with the required fields	6	
Create a table of employee details with the required fields	6	
Queries for set operations	6	
Queries using Aggregate functions	6	
View creation and manipulation	6	
PL/SQL Program to Find Factorial of a Number	6	LAB -PRACTICAL
PL/SQL Program to Print Table of a Number	6	
PL/SQL Program for Reverse of a Number	6	
PL/SQL Program for Fibonacci Series	6	
PL/SQL Program to Find Factorial of a Number	6	
PL/SQL Program to Check Number is Odd or Even	6	

### **LESSON PLAN**

Course Designed by: Mrs. A. Nagaswathy, Assistant Professor.



# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

Course Name	WEB TECHNOLOGY-LAB							
Course Code	<b>21PCCEP2</b>					L	Р	С
Category	Elective					-	6	6
Nature of course:	<b>EMPLOYABILITY ✓ SKILL ORIENTED ✓</b> ENTREPRENEUR							SHIP
Course Objectives:								
<ol> <li>To understand the syntax and semantics of HTML</li> <li>To develop the ability to logically plan and develop web pages.</li> <li>To familiarize the students to separate style from content, and a well-defined set of published Standards.</li> <li>To build students to create forms and check for data accuracy</li> <li>To develop skills in analyzing the usability of a website.</li> </ol>								
1. 2. 1i. 3. 4. 5. 6. 7. 8. ww 9. 10 11 12 12 14 14 15 14 15 14 15 14 15 14 15 14 15 14 15 14 14 14 14 14 14 14 14 14 14 14 14 14	Write a HTML program Write a HTML program St. Write a HTML Program Create Your Class Time Write a program to desi Create a web page that Write a program in JAV Write a JAVA script pro- indow. Write a JAVA script pro- 0. Write an internal CSS 1. Write an external CSS 2. Create a simple CSS s 3. Write a simple JSP pro- 4. Write a program in JS 5. Write a program in JS	n for n for e Tat ign L has t /A so ogran prog prog tyle s ogran P to s	formatting text. creating ordered, unorde use Image as a Link. ole Using HTML. ogin form in HTML. olinking text. cript to add two integers. m to print the content of m to compute the values. gram. gram. sheet to display your XM n to print the current dat auto refresh a page. set the cookies for the fin	the flL c e an	and defi current lata. Id time. nd the la	nitior	1	
					Total	Hour	s	90

Course	K Level			
After t				
CO1	Understand and apply the various tags in HTML programs.	<b>Up To K3</b>		
CO2	Apply knowledge in developing web applications.	<b>Up To K3</b>		
CO3	Analyze a web page and identify its elements and attributes.	Up To K4		
CO4	Assess a web page using HTML and Cascading Style sheets.	<b>Up To K5</b>		
CO5	Analyze and apply the role of languages like HTML, CSS, and JAVA	Up To K4		
	Script protocols in the workings of web and web applications.	Up 10 K4		

#### **CO &PO Mapping:**

COS	PO1	PO2	PO3	PO4	PO5	PO6
CO 1	3	2	3	2	2	2
CO 2	3	3	3	3	3	3
CO 3	3	3	2	2	3	3
CO 4	3	3	3	3	2	3
CO 5	2	3	3	2	3	2
Weightage	14	14	14	12	13	13

\*3-Advanced Application; 2-Intermediate Development; 1-Introductory Level

## LESSON PLAN

WEB TECHNOLOGY LAB	Hrs	Mode
Write a HTML program for formatting text.	6	
Write a HTML program for creating ordered, unordered and definition list.	6	_
Write a HTML Program to use Image as a Link.	6	_
Create Your Class Time Table Using HTML.	6	
Write a program to design Login form in HTML.	6	
Create a web page that has blinking text.	6	
Write a program in JAVA script to add two integers.	6	
Write a JAVA script program to print the content of the current window.	6	
Write a JAVA script program to compute the values.	6	PRACTICAL
Write an internal CSS program.	6	_
Write an external CSS program.	6	_
Create a simple CSS style sheet to display your XML data.	6	_
Write a simple JSP program to print the current date and time.	6	_
Write a program in JSP to auto refresh a page.	6	
Write a program in JSP to set the cookies for the first and the last name.	6	

Course Designed by: Mrs. A. Nagaswathy, Assistant Professor.


# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

Course Name	JAVA PROGRAMM	1IN	G- LAB					
Course Code	21PCCEP3					L	Р	С
Category	Elective					-	6	6
Nature of course:	EMPLOYABILITY	✓	SKILL ORIENTED	~	ENTREP	REN	URS	HIP
Course Object	ives:							
<ol> <li>To imparent classes,</li> <li>To under classes,</li> <li>To gain and use</li> <li>To devel</li> <li>To ident</li> <li>List of Progra</li> <li>Java procession</li> <li>Java proces</li></ol>	rt hands on experience wit rstand the fundamentals of objects, invoking method knowledge about basic J concepts such as variable op Java programs using P ify, Design & develop co <b>ms:</b> ogram to display Welcom ogram to demonstrate Con- ogram to demonstrate Sca gram to demonstrate But ogram to demonstrate But ogram to demonstrate Arr ogram to find both the lar ogram to multiply two giv ogram that reads a line of ogram to illustrate the cor ogram to illustrate the cor	th Jav of ob ds etc ava l es, co acka ompl e me mma nmer fferee ays. gest solut: a. If tions r cla we nn integ r cla cept acept acept oncept efine ecept acept acept acept acept acept acept acept acept	va programming bject-oriented programming c and exception handling m language syntax and seman onditional and iterative exe ges, Inheritance and Interface ex Graphical user interface exsage. nd line arguments (I/O Streams) dReader (I/O Streams) and smallest number in a li- ions to the quadratic equati- the discriminant b2 -4ac is e and non recursive function natrices. gers, and then displays eac- ss of java.util) given string is palindrome of n ascending order. t of class with Constructor of class with Method over of Single inheritance ot of Multi level inheritance ot of Multi level inheritance of of threading using Thread of threading using runnab- ents	g in J hecha tics f cutic ce es ist of on a: nega ns to h into overl load: e Class	ava, includi inisms. to write Javon methods on methods $x^2 + bx + c$ ative, displa print the n <sup>ti</sup> eger, and th c. loading ing	ing ma a prog etc. = 0. R y a m <sup>h</sup> valu e sum	anag gram Read lessa, le in	ing s
25. Develop 24. Develop 25. Write a	an applet that displays a an applet that displays h Iava program to illustrate	ines,	pie message rectangles, ovals, square e Il Components using AWT	tc.				
23. Write a				•	Tota	al Ho	urs	90

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COU	COURSE OUTCOME					
After the completion of the course the student will be able to,						
CO1	Apply object oriented programming features and concepts for solving given problem.	Up To K3				
CO2	Use the syntax and semantics of java programming language and basic concepts of OOP.	Up To K3				
CO3	Develop reusable programs using the concepts of inheritance, polymorphism, interfaces and packages.	Up To K5				
<b>CO4</b>	Create Multithreaded programs.	Up To K5				
CO5	Develop graphical user interface using AWT.	Up To K5				

# CO & PO Mapping:

COS	<b>PO 1</b>	<b>PO 2</b>	<b>PO 3</b>	PO 4	PO 5	PO 6
CO 1	3	3	3	2	3	2
CO 2	2	3	3	3	2	2
CO 3	3	2	3	2	3	3
CO 4	3	3	2	3	3	3
CO 5	3	3	3	2	2	3
Weightage	14	14	14	12	13	13

\*3 – Advanced Application; 2 – Intermediate Development; 1 - Introductory Level

## **LESSON PLAN**

EXERCISES	Hrs	Mode
<ol> <li>Java program to display Welcome message.</li> <li>Java program to demonstrate Command line arguments</li> <li>Java program to demonstrate Scanner(I/O Streams)</li> <li>Java program to demonstrate Buffered Reader (I/O Streams)</li> <li>Java program to demonstrate Arrays.</li> </ol>	18	Laboratory experiments
<ul> <li>6. Java program to find both the largest and smallest number in a list of integers.</li> <li>7. Java program that prints all real solutions to the quadratic equation ax<sup>2</sup> + bx + c = 0. Read in a, b, c and use the quadratic formula. If the discriminant b2 -4ac is negative, display a message stating that there are no real solutions.</li> <li>8. Java program that uses both recursive and non recursive functions to print the n<sup>th</sup> value in the Fibonacci sequence.</li> <li>9. Java program that reads a line of integers, and then displays each integer, and the sum of all the integers (Use StringTokenizer class of java.util)</li> </ul>	18	Laboratory experiments
<ol> <li>11. Java program that checks whether a given string is palindrome or not.</li> <li>12. Java program to sort a list of names in ascending order.</li> <li>13. Java Program to illustrate the concept of class with Constructor overloading</li> <li>14. Java program to illustrate the concept of class with Method overloading</li> <li>15. Java program to illustrate the concept of Single inheritance</li> </ol>	18	Laboratory experiments
<ul> <li>16. Java program to illustrate the concept of Multi level inheritance</li> <li>17. Java program to illustrate user defined packages.</li> <li>18. Java program using Interfaces.</li> <li>19. Java program to implement the concept of exception handling</li> <li>20. Java program to illustrate the concept of threading using Thread Class</li> </ul>	18	Laboratory experiments
<ul> <li>21. Java program to illustrate the concept of threading using runnable Interface.</li> <li>22. Java program for handling Mouse events</li> <li>23. Develop an applet that displays a simple message</li> <li>24. Develop an applet that displays lines, rectangles, ovals, square etc.</li> <li>25. Write a Java program to illustrate GUI Components using AWT.</li> </ul>	18	Laboratory experiments





Academic Council Meeting Held On 17.05.2022



# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

Course Name	INDIRECT TAX								
Course Code	21PCCC41				L	Р	С		
Category	Core				6	-	4		
Nature of course:	EMPLOYABILITY	✓	SKILL ORIENTED	ENTREPRI	ENEU	URSH	IP		
COURSE OBJEC	COURSE OBJECTIVES:								
1. To enable the students to explain the basic concepts, definitions and terms related to Goods and Services Tax (GST).									
2. To enable the stutime, place and val	idents to discuss the co ue of supply.	once	pts of supply along wi	th the rules re	elated	d to			
3.To enable the stu indirect tax regime	dents discuss the comp.	plian	nce related to documen	tation under	the n	ew			
4.To enable the stu after considering the	dents to compute the C ne eligible input tax cre	Good edit.	ls and Services Tax (GST	T) payable by	a su	pplier			
5. To enable the sture required to obtain the sture of the sture of the sture of the sture of the student stud	idents analyze the pers registration under the O	sons GST	liable for registration a Law.	and the perso	ons no	ot			
Unit: I INT	<b>RODUCTION TO T</b>	AX	SYSTEM AND GST			18			
Meaning- Feature	es - Objectives of Tax	xatio	on- Types of taxes- D	irect and In	direc	t taxe	s -		
Indirect Tax struc	ture-Merits and Dem	nerits	s of Indirect Taxes-	Recent Dev	elopr	nents	in		
Indirect Taxes- Ge	oods and Services Tax	x Ac	ct 2016 - Introduction	– Features	– Be	nefits	of		
GST Act.									
Unit: II GO	ODS AND SERVICE	C TA	X			18			
Important Definiti	ons – GST Council -	Tax	kable persons – Levy	and collection	on of	f GS7	- ]		
Forward and Reve	rse Charge - Time, l	Place	e and Value of supply	of goods a	nd se	ervice	s –		
Administrative set	up - Classes of office	ers u	under Central and Stat	e goods and	serv	ices 7	Tax		
Act - Appointment	of Officers - Powers	of of	fficers –Powers to gran	t exemption	from	tax.			
Unit: III REO	GISTRATION AND	INP	UT TAX CREDIT			18			
Procedure for regi	stration under Schedul	le II	I – Special provisions	relating to c	asua	l taxa	ble		
person and non-res	sident taxable person -	– Co	mposite Scheme - An	nendment of	regis	tratio	n –		
Cancellation of re	gistration – Revocatio	on of	f cancellation of regis	tration- ITC	Pro	vision	.s -		
Blocked Credit.									
Unit: IV GST	<b>FRETURNS</b>					18			
Assessment of G	ST- Self-assessment -	– Pr	rovisional assessment	– Scrutiny	of r	eturns	s —		
Assessment of nor	n-filers of returns – A	sses	sment of unregistered	persons – A	sses	sment	in		
certain special cases - Tax Invoice - E-Invoice- E-Way Bill - Credit and Debit Notes -									
Payment of Tax –	Tax Deducted at Source	ce –	Electronic Commerce	– Definition	s - C	ollect	ion		
of Tax at source.						1.10			
Unit: V CUS	STOMS ACT 1962					18			
Meaning– Importa	nt Definitions – Basics	s – It	mportance of Customs	Duty – Cons	stituti	onal			
authority for levy of	of Customs Duty – Typ	pes o	of Customs Duty – Pro	nidition of In	nport	ation			
and Exportation of	goods - v aluation of	g000	us for Custollis Duty –	Transaction	v alu	e –			

Assessable Value – Computation of Assessable Value and Customs Duty.

Total Lecture Hours 90

#### **Books for Study:**

**1.** Goods & Services Tax and Customs Law: As Per Choice Based Credit System (CBCS) Syllabus. by *CA. Rohini* Aggarawal and *Dr. Neelam* Goel, Sultan Chand & Sons. (Current Edition)

## **Books for References:**

1. S.S.Gupta, "GST Law & Practice", Taxman Publication Pvt Ltd, New Delhi. (Current Edition)

2. V.S.DATEY., "ALL About GST", Taxman Publication Pvt Ltd, New Delhi. (Current Edition)

Web Resources:

1.<u>https://ndl.iitkgp.ac.in/</u>

2.<u>https://onlinecourses.swayam2.ac.in/nou19\_cm05/preview</u>

COUR	COURSE OUTCOME					
<b>CO1:</b>	To teach the features, and benefits of GST	Up tok3				
CO2:	To enable students to learn important definitions on GST	Up tok3				
CO3:	To learn the registration procedure relating to GST	Up to k5				
<b>CO4:</b>	To teach the various aspects of assessment of GST	Up to k4				
CO5:	To learn the important provisions of GST	Up to k5				

## CO & PO Mapping:

CO's	<b>PO 1</b>	PO 2	<b>PO 3</b>	PO 4	<b>PO 5</b>	<b>PO 6</b>
CO 1	3	2	2	1	3	2
CO 2	3	3	3	3	2	3
CO 3	3	3	3	3	2	3
CO 4	3	3	3	3	2	3
CO 5	2	3	3	3	3	3

\*3 – Advanced Application; 2 – Intermediate Development; 1 – Introductory Level

#### LESSON PLAN

Unit	INDIRECT TAX	Hrs	Pedagogy		
Ι	Introduction to tax system and GST	18			
II	Goods and service tax	18	<b>PPT. Group Discussion.</b>		
III	Registration and Input Tax Credit	18	Seminar, Quiz,		
IV	GST Returns	18	Assignment and Activity		
V	Customs Act 1962	18			

**Course Designed by:** 

Dr. V. Suresh Babu, Assistant Professor & Dr. S. Ganesan, Associate Professor.

Learning (	Learning Outcome Based Education & Assessment (LOBE)Formative Examination - Blue Print Articulation Mapping – K Levels with Course Outcomes (COs)									
Tuture	Ger		Section MCQ	n A Ds	Section Short An	n B swers	Section C	Section D		
Internal	Cos	K Level	No. of. Questions	K - Level	No. of. Questions	No. of. K – Ouestions Level		Open Choice		
CIAI	CO1	Up tok3	2	K1,K2	1	K1	2(K2&K2)	1(K3)		
CIAI CO2	CO2	Up tok3	2	K1,K2	2	K2	2(K3&K3)	1(K2)		
СТАП	CO3	Up to k5	2	K1,K2	1	K2	2(K4&K4)	1(K5)		
CIAI	<b>CO4</b>	Up to k4	2	K1,K2	2	K2	2(K3&K3)	1(K4)		
		No. of Questions to be asked	4		3		4	2		
Question Pattern CIA I & II		No. of Questions to be answered	4		3		2	1		
		Marks for each question	1		2		5	10		
		Total Marksfor each section	4		6		10	10		

\*Note: It is the decision of the course teacher to ask 2 Questions in any unit under section-B (short answer questions)

		Distri	bution of Ma	rks with K	Level CIA	& CIA	II	
	K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	SectionC (Either /Or Choice)	Section D (Open Choice)	Total Marks	% of (Marks without choice)	nsolidateof %
	K1	2	2	-	-	4	8	60
	K2	2	4	10	10	26	52	00
	K3	-	-	10	10	20	40	40
CIAI	K4	-	-	-	-	-	-	-
	K5	-	-	-	-	-	-	-
	Marks	4	6	20	20	50	100	100
	K1	2	2	-	-	4	8	20
	K2	2	4	-	-	6	12	20
	K3	-	-	10	-	10	20	20
CIAII	K4	-	-	10	10	20	40	40
	K5	-	-	-	10	10	20	20
	Marks	4	6	20	20	50	100	100

K1- Remembering and recalling facts with specific answers

K2- Basic understanding of facts and stating main ideas with general answers

K3- Application oriented- Solving Problems

K4- Examining, analyzing, presentation and make inferences with evidences

CO5 will be allotted for individual Assignment which carries five marks as part of CIA component.

Summative Examination – Blue Print Articulation Mapping – K Level with Course Outcomes								
(COs)								
			MCC	)s	Short An	swers	Section C	Section D
S. No	COs	K - Level	No. of Questions	K – Level	No. of Question	K – Level	(Either / or Choice)	(Open Choice)
1	CO1	Up tok3	2	K1,K2	1	K1	2(K3&K3)	1(K2)
2	CO2	Up tok3	2	K1,K2	1	K2	2(K3&K3)	1 (K3)
3	CO3	Up to k5	2	K1,K2	1	K2	2(K4&K4)	1 (K5)
4	CO4	Up to k4	2	K1,K2	1	K2	2(K4&K4)	1 (K4)
5	CO5	Up to k5	2	K1,K2	1	K2	2(K4&K4)	1 (K5)
No.	of Questi Aske	ions to be d	10		5		10	5
No. of Questions to be answered		10		5		5	3	
Marks for each question		1		2		5	10	
Total N	Aarks for	each section	10		10		25	30
(	(Figures i	in parenthesi	s denotes, qu	estions s	hould be ask	ked with	the given K	level)

	Summative Examinations - Distribution of Marks with K Level									
K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either/ or Choice)	Section D ( Open Choice)	Total Marks	% of (Marks without choice)	Consolidated %			
K1	5	1	-	-	7	5.83	25			
K2	5	4	-	1	23	19.16	23			
K3	-	-	4	1	30	25	25			
K4	-	-	6	1	40	33.33	33			
K5	-	-	-	2	20	16.67	17			
Marks	10	10	50	50	120	100	100			
NB: Hig K levels.	NB: Higher level of performance of the students is to be assessed by attempting higher level of K levels.									

Section A	A (Mul	tiple Choic	ce Questions)
Answer	All Qu	estions	(10x1=10 marks)
Q. No	CO	K Level	Questions
1	CO1	K1	
2	CO1	K2	
3	CO2	K1	
4	CO2	K2	
5	CO3	K1	
6	CO3	K2	
7	CO4	K1	
8	CO4	K2	
9	CO5	K1	
10	CO5	K2	
Section 1	B (Shor	rt Answers	)
Answer	All Qu	estions	(5x2=10 marks)
Q. No	CO	K Level	Questions
11	CO1	K1	
12	CO2	K2	
13	CO3	K2	
14	CO4	K2	
15	CO5	K2	
Section	C (Eith	er/Or Typ	e)
Answer	All Qu	estions	(5 x 5 = 25 marks)
Q. No	CO	K Level	Questions
16) a	CO1	K3	
16) b	CO1	K3	
17) a	CO2	K3	
17) b	CO2	K3	
18) a	CO3	K4	
18) b	CO3	K4	
19) a	CO4	K4	
19) b	CO4	K4	
20) a	CO5	K4	
20) b	CO5	K4	
NB: Hig	her lev	el of perfo	rmance of the students is to be assessed by attempting higher
level of I	<b>X</b> levels	5	
Section 1	D (Ope	n Choice)	
Answer	Any Tr	ree questi	ons (3x10=30 marks)
<b>Q. No</b>		K Level	Questions
21	COI	K2	
22	CO2	K3	
23	<u>CO3</u>	K5	
24	CO4	K4	
25	CO5	K5	

# **Summative Examinations - Question Paper – Format**



# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

Course Name	ADVAN	NCED FINA	NCIA	AL MANAGEMENT				
<b>Course Code</b>	21PCC	C <b>42</b>				L	Р	С
Category	Core					6	-	4
Nature of	EMPLO	MPLOVABILITY / SKILL ORIENTED ENTREPRENEURS						IP
course:								
COURSE OBJ	ECTIVE	S:						
1. To underst	and the	theoretical	fram	ework of financial	nanagement i	n b	usin	ess
corporations.								
2. To make an in	n depth ar	nalysis of var	ious s	ources of financing and	financial planr	ning.		
3. To impart know	owledge o	of managing a	assets	of the company.				
4. To apply app	ropriate to	ools to take lo	ong te	rm financial decision.				
5. To know abo	ut leverag	e and divide	nd pol	licy.				
Unit: I B	ASICS O	F FINANCI	E & T	TIME VALUE OF MO	NEY	1	8	
Financial mana	igement –	Scope, Uses	and F	functions of Financial n	nanagement –	objec	ctive	e of
Financial Mana	igement -	• Organizatio	on of	Finance Function – E	merging Role	of F	Finai	nce
Manager in Ind	ia – Finan	icial manager	ment	& other functional area	s – Time value	of M	one	y –
Discounting an	id compo	ounding tech	inique	es - Practical Applicat	ions of Disco	untir	ng a	and
compounding te	chniques.							
Unit: II L	Unit: IILONG – TERM INVESTMENT DECISION18							
Capital Budget	ting – Na	ture – Evalu	ation	Techniques – Traditio	onal Technique	s –A	vera	age
Rate of Return,	Pay Back	$rac{Period}{-Ti}$	me-A	djusted techniques – No	et Present Valu	e – I	nter	nal
Rate of Return	– Benefit	Cost Ratio	– Pro	ject selection under Ca	pital Rationing	– Ir	iflat	10N
and Capital Buc	lgeting					1	0	
Unit: III C	<u>OST OF</u>	CAPITAL	. 1	T 1			8	
Cost of capital -	– Importa	nce –Explicit	t and	Implicit costs – Measu	rement of Spec		_ost	s –
Cost of Debt –	LOST OF Pro	l Cost of Cor	e - C	ost of Equity Capital –	Cost of Retaine	ed E	arnn	ngs
- Computation		COSE OF CAP	$\frac{1101}{1}$	CEMENT		1	0	
Unit: IV C	UKKEN	ASSET ML		GENIEN I	maliaina Cra	1 1 4:1	ð 'a	~
Cradit analysis	Collecti	an policios	S - CC	osis – Benefilis – Credit	policies – Cre		erm	s - inc
creat analysis	- Collecti	Inventory	mono	solititee Allarysis of cr	f inventory ma	nogo	mon	mg t
Repetits of hold	ling Inver	- mventory	niques	s of Inventory manager	$\frac{1}{1} = \frac{1}{1} = \frac{1}$	nage	n Ti	me
inventory syste	$m  \Delta R($	analysis	Inque	s of inventory managen	VED analys	ust I	ESI	
analysis – Min	-Max Me	thod – Pern	etual	Inventory system – A	utomatic Orde	r sv	sten	1 –
anarysis – win-wax we nou – respectat inventory system – Automatic Order system – Input- Output ratio analysis								
Unit: V LEVERAGES AND DIVIDEND POLICY 18								
Leverage- Types - Operating leverage - degree of Operating leverage - Financial leverage -						e –		
Degree of financial leverage- Combined leverage – EBIT/EPS Analysis - Dividend policy								
and practices – Dividend policies – Factors determining Dividend policy – Dividend Theories				ries				
– Graham, Walt	er, Gordo	n and Modig	liani -	-Miller theories.	-			
Т	otal Lect	ure Hours				9	0	
Books for Stud	y:							

1. Maheswari S N, Financial Management, Sultan Chand & Sons, New Delhi, 2016.				
Books for References:				
1. Murthy A, Financial Management, Margam Publications, Chennai, 2016.				
2. Khan M Y and Jain P K, Financial management, Text, Problems and case	es, Tata McGraw			
Hill, New Delhi, 2018.				
3.Pandey I M, Financial Management, Vikas Publishing House, Mumbai, 20	17.			
4. Periyasamy, Financial Management, Vijay Nicole Imprints, Chennai, 201	5.			
5. Prasanna Chandra, , Financial Management, 7th edition, Tata McGraw	Hill, New Delhi,			
2018.				
6. Tulsian P C, Financial Management, S.Chand & Company, New Delhi, 20	)16			
Web Resources:				
1.http://www.csun.edu/~zz1802/Finance%20303/Web-Stuff/Lecture-Notes-Mid1.pdf				
2. <u>https://www.academia.edu/37058427/Financial_Management_Class_N</u>	otes			
3. https://www.studocu.com/in/document/mahatma-gandhi-university/fin	<u>iancial-</u>			
management/financial-management-lecture-notes-1-3/7368379				
4. <u>https://www.iare.ac.in/sites/default/files/lecture_notes/IARE_FM_Lect</u>	are%20_Notes_			
<u>2-converted.pdf</u>				
COURSE OUTCOME	K Level			
Gain an understanding of the theoretical framework of financial	Un To K3			
management in business corporations	<b>Op 10 K3</b>			
CO2: Apply the tools of Capital budgeting and	Up To K5			
Determine cost of capital to analyze the long-term profitability of the	Un To K3			
company.	Op 10 K3			
<b>CO4:</b> Apply tools to manage inventories & receivables.	Up To K4			
Identify the procedures in formulating dividend policies of the	Up To V2			
companies	Up 10 K2			

# CO & PO Mapping:

CO's	<b>PO 1</b>	<b>PO 2</b>	<b>PO 3</b>	PO 4	<b>PO 5</b>	<b>PO 6</b>
CO 1	3	2	2	3	2	2
CO 2	3	3	3	3	3	3
CO 3	3	3	3	3	3	3
<b>CO 4</b>	3	3	3	3	3	3
CO 5	2	2	2	2	2	2

\*3 – Advanced Application; 2 – Intermediate Development; 1 - Introductory Level

Unit	ADVANCED FINANCIAL MANAGEMENT	Hrs	Pedagogy
Ι	Basics of Finance & Time Value of Money	18	Lecture, PPT
Π	Long –Term Investment Decision	18	Lecture, PPT
III	Cost of Capital	18	Lecture, PPT
IV	Current Asset Management	18	Lecture, PPT
V	Leverages and Dividend Policy	18	Lecture, PPT

## **LESSON PLAN**

## **Course Designed by:**

Dr. K. Bala Sathya, Assistant Professor & Dr.V.Geetha, Assistant Professor

earning O	arning Outcome Based Education & Assessment (LOBE)Formative Examination - Blue Print Articulation Mapping – K Levels with Course Outcomes (COs)							
			Section	n A	Sectior	n B	Section C	
Intornal	Cos	<b>V</b> I ovol	MCQ	)s	Short An	swers	Section C	Section D
miernai	Cos	K Level	No. of.	K - No. of.		K –	Choice	<b>Open</b> Choice
			Questions	Level	Questions	Level	Choice	
CIAI	<b>CO1</b>	Up to K3	2	K1,K2	1	K2	2(K2&K2)	1(K3)
CIAI	CO2	Up to K5	2	K1,K2	2	K2	2(K5&K5)	1(K4)
СТАП	CO3	Up to K3	2	K1,K2	1	K2	2(K2&K2)	1(K3)
CIAII	<b>CO4</b>	Up to K4	2	K1,K2	2	K2	2(K3&K3)	1(K4)
		No. of Questions to be asked	4		3		4	2
Question Pattern CIA I &		No. of Questions to be answered	4		3		2	1
Π		Marks for each question	1		2		5	10
		Total Marksfor each section	4		6		10	10

**\*Note:** It is the decision of the course teacher to ask 2 Questions in any unit under section-B (short answer questions)

	Distribution of Marks with K Level CIA I & CIA II							
	K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	SectionC (Either / Or Choice)	SectionD (Open Choice)	Total Marks	% of (Marks without choice)	nsolidateof %
	K1	2	-	-	-	2	4	40
	K2	2	6	10	-	18	36	40
	K3	-	-	-	10	10	20	20
СТАТ	K4	-	-	-	10	10	20	20
	K5	-	-	10	-	10	20	20
	Marks	4	6	20	20	50	100	100
	K1	2	-	-	-	2	4	40
	K2	2	6	10	-	18	36	40
	K3	-	-	10	10	20	40	40
CIAII	K4	-	-	-	10	10	20	20
	K5	-	-	-	-	-	-	-
	Marks	4	6	20	20	50	100	100

K1- Remembering and recalling facts with specific answers

K2- Basic understanding of facts and stating main ideas with general answers

**K3**- Application oriented- Solving Problems

K4- Examining, analyzing, presentation and make inferences with evidences

CO5 will be allotted for individual Assignment which carries five marks as part of CIA component.

S	Summative Examination – Blue Print Articulation Mapping – K Level with Course							Course
			MC	Qs	Short An	swers	Section C	Section D
S.No	COs	K - Level	No. of Questions	K – Level	No. of Question	K - Level	(Either / or Choice)	(Open Choice)
1	CO1	Up to K3	2	K1&K2	1	K2	2(K3&K3)	1(K3)
2	CO2	Up to K5	2	K1&K2	1	K2	2(K4&K4)	1(K5)
3	CO3	Up to K3	2	K1&K2	1	K2	2(K2&K2)	1(K3)
4	CO4	Up to K4	2	K1&K2	1	K2	2(K3&K3)	1(K4)
5	CO5	Up to K2	2	K1&K2	1	K2	2(K2&K2)	1(K2)
No.	of Questi	ons to be	10		5		10	5
	Aske	d	10		5		10	5
No. of Questions to be answered		ons to be ed	10		5		5	3
Marks for each question			1		2		5	10
Tot	al Marks sectio	for each n	10		10		25	30
	(Figures	in parenthe	esis denotes, o	questions s	hould be as	ked with	the given K	level)

	Distribution of Marks with K Level							
K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either/ or Choice)	Section D ( Open Choice)	Total Marks	% of (Marks without choice)	Consolidated %	
K1	5		-	-	5	4.2	12	
K2	5	10	20	10	45	37.5	42	
K3	-	-	20	20	40	33.3	33	
K4	-	-	10	10	20	16.7	17	
K5	-	-	-	10	10	8.3	8	
Marks	10	10	50	50	120	100	100	
NB: Hig	gher level of p	erformance o	f the students	s is to be asse	essed by a	attempting	higher level	

of K levels.

Section	A (Mu	ltiple Cho	ice Questions)
Answei	r All Qu	uestions	(10x1=10 marks)
Q. No	CO	K Level	Questions
1	CO1	K1	
2	CO1	K2	
3	CO2	K1	
4	CO2	K2	
5	CO3	K1	
6	CO3	K2	
7	CO4	K1	
8	CO4	K2	
9	CO5	K1	
10	CO5	K2	
Section	B (Sho	ort Answer	rs)
Answei	r All Qı	uestions	(5x2=10 marks)
Q. No	CO	K Level	Questions
11	CO1	K2	
12	CO2	K2	
13	CO3	K2	
14	CO4	K2	
15	CO5	K2	
Section	C (Eit	her/Or Ty	pe)
Answei	r All Qu	uestions	(5  x  5 = 25  marks)
Q. No	CO	K Level	Questions
16) a	CO1	K3	
16) b	CO1	K3	
17) a	CO2	K4	
17) b	CO2	K4	
18) a	CO3	K2	
18) b	CO3	K2	
19) a	CO4	K3	
19) b	CO4	K3	
20) a	CO5	K2	
20) b	CO5	K2	
NB: Hi	gher le	vel of perfe	ormance of the students is to be assessed by attempting higher
level of	K leve	ls	
Section	D (Op	en Choice)	
Answei	r Any T	Three quest	tions (3x10=30 marks)
Q. No	CO	K Level	Questions
21	CO1	K3	
22	CO2	K5	
23	CO3	K3	
24	CO4	K4	
25	CO5	K2	

## **Summative Examinations - Question Paper – Format**



# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

Course Name	PROJECT						
Course Code	ourse Code 21PCOPR1 L P						С
Category	<b>Core</b> 6 - 4						4
Nature of	EMPLOYABILITY	EMPLOYABILITY 🖌 SKILL ORIENTED ENTREPRENEURSHIP					
course:	toomeg						
On successful	completion of this co	urse.	the students will be ab	le to			
1: Develop the	ability of the students t	o prej	pare a project.				
2: Give the prac	ctical exposure in the fi	eld of	f commerce and busines	S			
3: Skill Develop	pment Course						
4: Develops En	trepreneurship skill.						
★ The top	ic of the project may be	e base	d on research articles fr	om commerce	iourr	als	or
any topi	c not covered in the M	Com	svllabus		,		
↓ Internal	examinations are the r	espect	tive supervisors				
	examinations are the r	voluo	tad by the external even	ninar			
	ce examination to be e	valua	ted by the external exam	inner.			
✤ The report	ort of the project must	be in t	the prescribed form. It s	hould be typed	neat	ly 11	1
MS Wo	rd. The font size of the	letter	should be 12 point with	double space.			
<ul> <li>The form</li> </ul>	nat of the project repor	t shoi	ald have the following c	omponents.			
<ul> <li>First</li> </ul>	t page should contain:						
	• Title of the proj	ect re	port				
	• Name of the car	ndidat	e.				
	• Register number	r					
	• Name of the Su	pervis	sor.				
	• Address of the i	nstitu	tion.				
	• Month & Year of	of sub	mission.				
• Con	tents.						
• Dec	laration by Candidate.						
Cert	ificate by Supervisor						
<ul> <li>Acknowledgement</li> </ul>							
<ul> <li>List of tables</li> </ul>							
LIST	<ul> <li>List of figures</li> <li>Chapters (not exceeding five)</li> </ul>						
	<ul> <li>Chapters (not exceeding five)</li> </ul>						
<ul><li>✤ The num</li></ul>	nder of pages in the pro	oject r	nay be 50 to 80.				
<ul> <li>Two coj</li> </ul>	pies of the project repor	rt witl	h binding should be sub	mitted.			

## **Course Description**

The Project is conducted by the following Course Pattern.

## Internal

	Total	- 100
	Project Report Viva Voce	60
Exter	Submission	} 40
	Presentation	

COUR	K Level	
CO1:	Develop the ability of the students to prepare a project.	UP TO K4
<b>CO2:</b>	Give the practical exposure in the field of commerce and business.	UP TO K4
CO3:	Skill Development & Able to take business decisions by taking research	UP TO K3
<b>CO4:</b>	Develops skills for Entrepreneurship	UP TO K4
CO5:	Develop the ability to analyze and to prepare report	UP TO K4

## CO & PO Mapping:

CO's	<b>PO 1</b>	<b>PO 2</b>	<b>PO 3</b>	PO 4	<b>PO 5</b>	<b>PO 6</b>
CO 1	3	2	2	3	2	2
CO 2	3	3	3	3	3	3
CO 3	3	3	3	3	3	3
<b>CO 4</b>	2	3	3	2	3	3
CO 5	2	2	2	2	2	2

\*3 – Advanced Application; 2 – Intermediate Development; 1 - Introductory Level



# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

Course Name	PROGRAMMING IN I	PYT	HON								
<b>Course Code</b>	21PCCE41	L	Р	C							
Category	Elective	6	-	6							
Nature of cours	e: EMPLOYABILITY	✓	SKILL ORIENTED	ENTREPRE	NUR	SHIF	)				
Course Objectives:											
1. Getting	knowledge about the featu	ires	of Python programming la	nguage.							
<ol> <li>Apply various data types and control structure</li> <li>To learn how to write loops and decision statements in Pather</li> </ol>											
5. To learn	how to use lists tuples are	d d	on statements in Python.	ome							
4. To lealli 5. Experier	now to use lists, tuples, al	orie	ectionalies in Fython programming paradi	allis.							
	ice and use modern object	-011		5 <sup>111.</sup>		18					
The way of the	Program. Program Basic	s_1	Running Python _ The firs	t program _ A	rithn	netic					
operators – valu	es and types – Formal and	Nat	tural languages	t program – A	111111	ictic					
Variables Exp	ressions and Statements.		signment statements – Var	iable names –	Expr	ressio	ns				
and Statements	- Script mode - Order of a	oner	ations – String operations	– Comments	Елрі	03510	115				
Unit: II	Sellpt mode of def of t	per	ations bring operations	comments.		18					
Functions : Fur	nction calls – Math function	ons -	– Composition – Adding r	new functions	– De	efiniti	ons				
and uses – Floy	w of Execution – Parame	ters	and arguments – Local V	Variables and	para	meter	's –				
Stack diagrams	– Fruitful functions and V	oid <sup>.</sup>	functions – Why functions		puru						
Conditionals a	nd Recursion: Floor di	visio	on and modulus – Boole	ean expressio	ns –	Log	ical				
operators – Co	nditional execution – A	lteri	native execution – Chair	ed condition	als –	- Nes	sted				
conditionals – R	ecursion.										
Unit: III						18					
Iteration: Reas	signment – Updating varia	bles	- The while statement – I	Break – Squar	e Roo	ots.					
Strings: String	- Len – Traversal with a fo	or lo	op – String Slices - Immut	able Strings –	Sear	ching	Ţ.				
– Looping and c	ounting – String methods	– th	e in operator – String Com	parison.		C	-				
Unit: IV				•		18					
Lists: List – M	Iutable list – Traversing	a l	ist – List operations – L	ist Slices – I	List 1	metho	ods.				
Dictionaries: D	Dictionary – Dictionary as	sac	collection of counters – L	ooping and I	Dictio	onarie	es –				
reverse lookup -	- Dictionaries and Lists.			1 0							
Tuples: Tuple -	- Tuple assignment – Tup	oles	as return values – Variabl	e length argu	ment	tuple	es –				
List and Tuples						_					
Unit: V						18					
Data Analysis v	with Pandas-The Pandas of	lata	structure-The essential bas	sic functionali	ity-In	dexin	ıg				
and selecting da	ta-Computational tools-W	orki	ing with missing data-Adva	anced uses of	Pand	as for	r				
data analysis											
Data Visualizat	ion-Exploring plot types-	-Leg	gends and annotations-Plot	ting functions	with	Panc	las-				
Additional Pythe	on data visualization tools										
I			<b>TT</b> - 4 - 1	L o star TT		00.11					
Doolra for St- 1			lotal	Lecture Hou	irs	90 H	rs				
DOOKS IOP Stud	y:										

1. '	Think Python, Allen B.Downey, Shroff Publishers & Distributors Pvt. Ltd	.,Fifth Indian							
Rep	Reprint, August 2018.								
2.G	2.Getting started with Python DataAnalysis-, Phuong Vo. T.H., MartinCzygan, Packt Publishing								
,20	11								
Books	for References:								
1.	Python for Data Analysis, Wes McKinney, Shroff Publishers & Distributors P	vt. Ltd.,							
	Fourth Indian Reprint, October 2018.								
2.	Mark Lutz. Beijing, Learning Python, Cambridge, O'Reilly Media, Inc, Fourth	Edition.							
3.	David Beazley, Brian K.Jones, Python Cookbook: Recipes for Master	ing Python3,							
	O'Reilly' Media Inc, Third Edition.								
Web R	Web Resources:								
1. htt	1. https://www.w3schools.com/python/python_intro.asp								
2. htt	2. https://www.geeksforgeeks.org/python-language-introduction/								
3. htt	tps://www.udemy.com/pythonforbeginnersintro/								
Course	e Outcomes	K Level							
001	Understand the core Syntax and Semantics of Python Programming								
COI	language and write simple logical problems.	Up 10 K3							
0.00	Learn and Apply the concept of function, Conditionals and Recursion in								
<b>CO</b> 2:	Python Programming. Up To K3								
CO3:	Analyze the various string operations and While operations.	Up To K4							
<b>CO4:</b>	Make use of Lists, Dictionaries, Tuples to build real time applications	Up To K4							
	Integrate and Solve complex problems using Object Oriented Programming								
CO5:	Up T								

## CO & PO Mapping:

COS	PO 1	PO 2	<b>PO 3</b>	PO 4	PO 5	PO 6
CO 1	3	3	2	3	2	2
CO 2	3	3	3	3	3	3
CO 3	3	3	2	3	3	3
CO 4	3	3	2	2	3	3
CO 5	3	2	3	2	3	2
Weightage	15	14	12	13	14	13

\*3 – Advanced Application; 2 – Intermediate Development; 1 - Introductory Level

## LESSON PLAN

UNIT	COURSE NAME	HOURS	PEDAGOGY				
	The way of the Program: Program Basics –						
	Running Python – The first program –	5					
UNIT - I	Arithmetic operators		-				
	values and types– Formal and Natural	5					
	languages.		Challs & Talls				
	Assignment statements – Variable names	3	Presentation				
	Expressions and Statements – Script mode –		resentation				
	Order of operations – String operations –	5					
	Comments.						
	Functions : Function calls – Math functions –						
	Composition – Adding new functions –	5					
	Definitions and uses – Flow of Execution –	2					
	Parameters and arguments						
	Local Variables and parameters – Stack	5	Ducation				
UNIT - II	functions – Why functions	5	Practical Demonstration				
	<b>Conditionals and Recursion:</b> Floor division		Exercise				
	and modulus – Boolean expressions – Logical	3					
	operators						
	Conditional execution – Alternative execution						
	- Chained conditionals - Nested conditionals -	5					
	Recursion.						
	<b>Iteration:</b> Reassignment – Updating variables	5					
	Break - Square Roots- Strings: String - Len -		-				
UNIT - III	Traversal with a for loop – String Slices -	5	Chalk & Talk,				
	Immutable Strings	C	Assignment				
	Searching- Looping and counting - String	5	1				
	methods	5					
	The in operator – String Comparison.	3					
	<b>Lists:</b> List – Mutable list – Traversing a list –	5					
	List operations – List Slices – List methods						
	collection of counters	5	Chalk & Talk				
UNIT - IV	- Looping and Dictionaries - reverse lookup -	-	Group				
	Dictionaries and Lists.	3	Discussion				
	<b>Tuples:</b> Tuple – Tuple assignment – Tuples as						
	return values - Variable length argument	5					
	tuples – List and Tuples.						
	Data Analysis with Pandas-The Pandas data	_					
	structure-The essential basic functionality-	5					
LINIT V	-Computational tools-Working with missing		PPT,				
	data-Advanced uses of Pandas for data	3	Assignment				
	analysis	٠ د					
	Data Visualization-Exploring plot types	5					
•			•				

Legends and annotations-		
Plotting functions with Pandas-Additional	5	
Python data visualization tools	5	

## **Course Designed by:**

Dr.B.Vijaya Lakshmi, Assistant Professor, Dr.S.Bharanisethupandian, Assistant Professor

Learning Outcome Based Education & Assessment (LOBE) Formative Examination - Blue Print Articulation Mapping – K Levels with Course Outcomes (COs)												
			Section	n A	Section	n B	Section C	Section				
Internal	Cos	K Level	MCQ	2s	Short An	swers	Either or	D Open				
			No. of. Questions	K - Level	No. of. Questions	K - Level	Choice	Choice				
CI	CO1	UptoK3	2	K1,K2	1	K2	2(K2&K2)	1(K3)				
AI	<b>CO2</b>	UptoK3	2	K1,K2	2	K1,k2	2(K3&K3)	1(K2)				
CI	CO3	UptoK4	2	K1,K2	1	K2	2(K3&K3)	1 (K3)				
AII	<b>CO4</b>	UptoK4	2	K1,K2	2	K2,K1	2(K2&K2)	1(K4)				
	l Que be	No. of estions to e asked	4		3		4	3				
Question Pattern CIA I & II	I Que be a	No. of estions to answered	4		3		2	2				
	M each	arks for question	1		2		5	10				
	Tot fo	al Marks or each ection	4		6		10	20				

		Dist	tribution of M	arks with	K Level Cl	A I & CI	AII	
	K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either / Or Choice)	Section D (Open Choice)	Total Marks	% of (Marks without choice)	Consolid ate of %
	K1	2	2		-	4	8	60
	K2	2	4	10	10	26	52	00
	K3	-	-	10	10	20	40	40
CI	K4	-	-	-	-	-	-	-
ΑI	K5	-	-	-	-	-	-	-
	Marks	4	6	20	10	50	100	100
	K1	2	2	-	-	4	8	60
	K2	2	4	10	-	16	52	00
CI	K3	-	-	10	10	20	40	40
Α	K4	-	-	_	10	20	40	40
II	K5	-	-	_	-	-	-	-
	Marks	4	6	20	10	50	100	100

K1- Remembering and recalling facts with specific answers

K2- Basic understanding of facts and stating main ideas with general answers

K3- Application oriented- Solving Problems

K4- Examining, analyzing, presentation and make inferences with evidences

CO5 will be allotted for individual Assignment which carries five marks as part of CIA component.

<b>Summative Examination – Blue Print Articulation Mapping – K Level with Course Outcomes</b>
(COs)

			MC	Qs	Short An	swers	Section C	Section D			
S. No	COs	K - Level	No. of Questions	K – Level	No. of Question	K - Level	(Either / or Choice)	(Open Choice)			
1	CO1	UptoK2	2	K1,K2	1	K2	2(K2&K2)	1(K2)			
2	CO2	UptoK3	2	K1,K2	1	K1	2(K3&K3)	1(K3)			
3	CO3	UptoK4	2	K1,K2	1	K2	2(K2&K2)	1(K3)			
4	CO4	UptoK4	2	K1,K2	1	K2	2(K2&K2)	1(K4)			
5	CO5	UptoK3	2	K1,K2	1	K2	2(K3&K3)	1(K3)			
No. c	of Questio Asked	ons to be	10		5		10	5			
No. of Questions to be answered		10		5		5	3				
Marks for each question		1		2		5	10				
Tota	l Marks f section	or each	10		10		25	30			
(	Figures i	n parenthes	sis denotes, a	uestions sl	hould be ask	ed with	the given K l	evel)			

Distribution of Marks with K Level													
K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either/ or Choice)	Section D ( Open Choice)	Total Marks	% of (Marks without choice)	Consolidated %						
K1	5	-	-	-	5	4.2	42						
K2	5	10	20	10	45	37.5	42						
K3	-	-	20	20	40	33.3	33						
K4	-	-	10	20	30	25	25						
Marks	10	10	50	50	120	100	100						

NB: Higher level of performance of the students is to be assessed by attempting higher level of K levels.

Summative Examinations -	<b>Question Paper – Format</b>
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Section A	(Multip	le Choice (	Questions)
Answer Al	l Quest	ions	(10x1=10 marks)
Q. No	CO	K Level	Questions
1	CO1	K1	
2	CO1	K2	
3	CO2	K1	
4	CO2	K2	
5	CO3	K1	
6	CO3	K2	
7	CO4	K1	
8	CO4	K2	
9	CO5	K1	
10	CO5	K2	
Section B	(Short A	Answers)	
Answer Al	l Quest	ions	(5x2=10 marks)
Q. No	CO	K Level	Questions
11	CO1	K2	
12	CO2	K2	
13	CO3	K2	
14	CO4	K2	
15	CO5	K2	
Section C	(Either/	Or Type)	
Answer Al	l Quest	ions	(5 x 5 = 25 marks)
Q. No	CO	K Level	Questions
16) a	CO1	K2	
16) b	CO1	K2	
17) a	CO2	K4	
17) b	CO2	K4	
18) a	CO3	K3	
18) b	CO3	K3	
19) a	CO4	K3	
19) b	CO4	K3	
20) a	CO5	K2	
20) b	CO5	K2	
NB: Highe	er level (	of perform	ance of the students is to be assessed by attempting higher level of
K levels			
Section D	(Open (	Choice)	
Answer A	ny Thre	e question	s (3x10=30 marks)
Q. No	CO	K Level	Questions
21	CO1	K2	
22	CO2	K3	
23	CO3	K4	
24	CO4	K4	
25	CO5	K3	



# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

Course Name	PROGRAMMING	PROGRAMMING WITH PHP							
Course Code	21PCCE42					L	Р	C	
Category	Elective	ve 6 -						6	
Nature of course:	EMPLOYABILITY 🗸 SKILL ORIENTED 🗸 ENTREPRENEURS							SHIP	
<b>Course Object</b>	ives:			1					
1. Gain thorou	igh knowledge to desig	n and	l develop dynamic, dat	abas	e-driven wel	5			
applications	s using PHP	_							
2. Understand	server-side programm	ing w	orks on the web.						
3. Explain the	difference between a p	progra	amming language and a	scr:	ipting langua	ige.			
4. Formulate,	design and create PHP	conti	ol structures, including	g sele	ection.				
5. Design a co	mplete server using PF	IP CO	ncepts.						
Unit: 1 In	troducing PHP		mant Canaanta Cuaat				1	10	
History – Uniqu	ue Features – Basic dev	ing D	ment Concepts – Creat	ing i	Irst PHP Sci	npt a Dat		19	
Using variable	and Checking Varial	ling D blo D	vata III variables – Ulio	ersta		s Dai	a		
Variables with	Operators Handling I	Form	Input	Istai	its – Manpi	Hatin	lg		
Unit: II C	operators – Handling I		IIIput.						
Writing Simpl	le Conditional States	monte	Writing More	Con	pplay Cond	ition	al 1	18	
Statements _ 1	Repeating Actions wi	th I	oons – Working with		iplex Colla	inona imeri		10	
Functions	Repeating retions wi		sops working with	1 51	ing and itt				
Working with	Arrays: Storing Data	a in .	Arrays – Processing A	rrav	s with Loo	os an	d		
Iterations – Usi	ng Arrays with Forms	– Wo	orking with Array Func	tions	5 Will 2001	55 <b>u</b>			
Unit: III . I	Using Functions and (		<u>8</u>						
Creating User-c	lefined Functions – Cre	eating	g Classes – Using Adva	ince	d OOP Conc	epts.	1	18	
Working with	Files and Directori	es: F	Reading Files – Writing	ng F	Files – Proc	essin	g		
Directories.			6	0			0		
Unit: IV W	orking with Databas	e and	SQL						
Introducing Da	atabase and SQL – U	Jsing	MySQL – Adding a	nd	modifying I	Data	- 1	18	
Handling Error	s – Using SQL Lite Ex	tensio	on and PDO Extension.						
Unit: V W	orking with XML								
Introducing XI	ML – Using PHP's	Simp	le XML Extension -	- Us	sing PHP's	DOM	<b>M</b> 1	18	
Extension.									
					<b>Total</b>	Hou	rs 9	90	
<b>Books for Stud</b>	ly:								
<b>1.</b> PHP A Begi	nner's Guide , VIKRA	M V	ASWANI, Tata McGra	w-H	ill				
<b>Books for Refe</b>	erences:								
1. The PHP Con	mplete Reference – Ste	even I	Holzner – Tata McGrav	v-Hi	ll Edition.				
2. Spring into P	PHP5 – Steven Holzer,	Tata	McGraw Hill Edition						
Web Resource	S								
1. <u>https://www</u>	.javatpoint.com/php-	tutor							
2. <u>https://www</u>	<mark>.phptpoint.com/php-t</mark>	utor	ial/						

3. https://www.w3resource.com/php/php-home.php							
Course Outcome K							
After the	e completion of the course the student will be able to,						
CO1:	Understand how server-side programming works on the web.	Up To K2					
CO3.	Explain the difference between a programming language and a scripting						
02.	language.	<b>Up 10 K3</b>					
CO3.	Formulate, design and create PHP control structures, including	Up To K4					
003.	selection and iterative structures.	Up 10 K4					
<b>CO4:</b>	Distinguish PHP as a server side programming language	<b>Up To K3</b>					
<b>CO5:</b>	Design a complete server using PHP concepts.	Up To K3					

## CO & PO Mapping:

COS	<b>PO 1</b>	PO 2	<b>PO 3</b>	PO 4	<b>PO 5</b>	PO 6
CO 1	3	3	2	3	2	3
CO 2	3	3	3	2	3	2
CO 3	3	3	2	3	3	2
<b>CO 4</b>	3	3	2	2	3	3
CO 5	3	2	3	3	3	3
Weightage	15	14	12	13	14	13

\*3 – Advanced Application; 2 – Intermediate Development; 1 - Introductory Level

## LESSON PLAN

UNIT	COURSE NAME	HOURS	PEDAGOGY		
	<b>Introducing PHP :</b> History – Unique Features - Basic development Concepts – Creating first PHP Script	5			
UNIT - I	<b>Using Variable and Operators :</b> Storing Data in Variables –	3	Challz & Tallz		
	Understanding PHP's Data Types – Setting and Checking Variable Data types	Setting and 5 Chalk & Talk <b>PPT</b>			
	Using Constants – Manipulating Variables with Operators – Handling Form Input	5			
	<b>Controlling Program Flow:</b> Writing Simple Conditional Statements - Writing More Complex Conditional Statements	5			
UNIT - II	Repeating Actions with Loops – Working with String and Numeric Functions	Chalk & Talk,			
	<b>Working with Arrays:</b> Storing Data in Arrays – Processing Arrays with Loops and Iterations	Exercise			
	Using Arrays with Forms - Working with Array Functions.	5			
	Using Functions and Classes: Creating User- defined Functions - Creating Classes	6	Challs & Talls		
UNIT - III	Using Advanced OOP Concepts.	6	Chaik & Laik,		
	<b>Working with Files and Directories:</b> Reading Files - Writing Files - Processing Directories	6	Assignment		
	<b>Working with Database and SQL :</b> Introducing Database and SQL - Using MySQL	6	Chalk & Talk		
UNIT - IV	Adding and modifying Data - Handling Errors	6 Group			
	Using SQL Lite Extension and PDO Extension	6	Discussion		
	Working with XML: Introducing XML	6			
UNIT - V	Using PHP's Simple XML Extension	6	UNAIK & LAIK, DDT		
	Using PHP's DOM Extension	6	<b>FFI</b>		

## **Course Design By:**

Dr. S. Bharanisethupandian, Assistant Professor, & Dr. B.Vijayalakshmi, Assistant Professor

	Learning Outcome Based Education & Assessment (LOBE)									
Formative Examination- Blue Print Articulation Mapping– K Levels with Course Outcomes (COs)										
			Section	n A	Section	B	Seetter C	Castian D		
Internal	Cos	K Level	MCQ	)s	Short Ans	swers	Section C Either or	Section D Open		
	005	K Level	No. of. Questions	K- Level	No. of. Questions	K- Level	Choice	Choice		
CIA I	CO1	UptoK2	2	K1,K2	1	K1	2(K2)	1(K2)		
CIA I	<b>CO2</b>	UptoK3	2	K1,K2	2	K2	2(K3)	1(K3)		
СТАП	CO3	UptoK4	2	K1,K2	1	K2	2(K4)	1(K4)		
	<b>CO4</b>	UptoK3	2	K1,K2	2	K2	2(K3)	1(K3)		
	Q	No. of uestions to Be asked	4		3		4	3		
QuestionNo. ofQuestions to beQuestions to bePatternansweredCIA I&IIMarks for each Question		4		3		2	2			
		1		2		5	10			
	Tot	al Marks for each Section	4		6		10	20		

	Distribution of Marks with K Level CIA I&CIA II									
	K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either / Or Choice)	Section D (Open Choice)	Total Marks	%of (Marks without choice)	Consolidate of %		
	K1	2	2	-	-	4	8	60		
	K2	2	4	10	10	26	52	00		
	K3	-	-	10	10	20	40	40		
СТАТ	K4	-	-	-	-	-	-	-		
CIAI	K5	-	-	-	-	-	-	-		
	Marks	4	6	20	20	60	100	100		
	K1	2	-	-	-	2	4	20		
	K2	2	6	-	-	8	16	20		
	K3	-	-	10	10	20	40	40		
CIAII	K4	-	-	10	10	30	60	60		
	K5	-	-	-	-	-	-	-		
	Marks	4	6	20	10	50	100	100		

K1-Remembering and recalling facts with specific answers

K2-Basic understanding of facts and stating main ideas with general answers

K3-Application oriented-Solving Problems

K4-Examining, analyzing, presentation and make inferences with evidences

CO5 will be allotted for individual Assignment which carries five components. Marks as part of CIA

Su	Summative Examination–Blue Print Articulation Mapping–K Level with Course Outcomes(COs)								
			MCC	2s	Short An	swers	Section C	Section D	
S. No Cos		K–Level	No. of Questions	K– Level	No. of Question	K– Level	(Either / or Choice)	(Open Choice)	
1	CO1	UptoK2	2	K1,K2	1	K1	2(K2)	1(K2)	
2	CO2	Upto K3	2	K1,K2	1	K2	2(K3)	1(K3)	
3	CO3	UptoK4	2	K1,K2	1	K2	2(K4)	1(K4)	
4	CO4	UptoK3	2	K1,K2	1	K2	2(K3)	1(K3)	
5	CO5	UptoK3	2	K1,K2	1	K2	2(K3)	1(K3)	
No.	of Quest Aske	tions to be ed	10		5		10	5	
No.	of Quest Answe	tions to be pred	10		5		5	3	
Mark	ts for eac	ch question	1		2		5	10	
Total Marks for each section		10		10		25	30		
(Fi	gures in	parenthesis	s denotes, qu	estions	should be a	sked wi	th the given	K level)	

	Summative Examinations –Distribution of Marks with K Level								
K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either/ or Choice)	Section D (Open Choice)	Total Marks	% of (Marks without choice)	Consolidated %		
K1	5	2	-	-	7	6	22		
K2	5	8	10	10	33	27			
K3	-	-	30	30	60	50	50		
K4	-	-	10	10	20	17	17		
K5	-	-	-	-	-	-	-		
Marks	10	10	50	50	120	100	100		
NR · Hig	ther level of	nerformanc	e the stud	ents is to b	he assessed hy	z attemnti	ng higher		

NB: Higher level of performance the students is to be assessed by attempting higher level of K levels.

Section A	A(Mult	iple Choice	e Questions)
Answer	All Qu	estions	(10x1=10marks)
Q. No	CO	K Level	Questions
1	CO1	K1	
2	CO1	K2	
3	CO2	K1	
4	CO2	K2	
5	CO3	K1	
6	CO3	K2	
7	CO4	K1	
8	CO4	K2	
9	CO5	K1	
10	CO5	K2	
Section 1	B (Shoi	rt Answers)	
Answer	All Qu	estions	(5x2=10marks)
Q. No	CO	K Level	Questions
11	CO1	K1	
12	CO2	K2	
13	CO3	K2	
14	CO4	K2	
15	CO5	K2	
Section (	C( Eith	er/Or Type	e)
Answer	All Qu	estions	(5x5=25marks)
Q. No	CO	K Level	Questions
16)a	CO1	K2	
16)b	CO1	K3	
17)a	CO2	K3	
17)b	CO2	K3	
18)a	CO3	K4	
18)b	CO3	K4	
19)a	CO4	K3	
19)b	CO4	K4	
20)a	CO5	K3	
20)b	CO5	K4	
NB: H	ligher l	evel of per	formance of the students is to be assessed by attempting higher level
Of K lev	els		
Section 1	D (Ope	n Choice)	
Answer	Any TI	nree questio	ons (3x10=30marks)
Q. No	CO	K Level	Questions
21	CO1	K2	
22	CO2	K3	
23	CO3	K3	
24	CO4	K4	
25	CO5	K5	

# **Summative Examinations – Question Paper–Format**



# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

Course Name	PROGRAMMING I	PROGRAMMING IN VB.NET							
Course Code	21PCCE43				L	Р	С		
Category	Elective				6	-	6		
Nature of Course	EMPLOYABILITY	EMPLOYABILITY 🖌 SKILLORIENTED 🖌 ENTREPRE							
Course Object	ives:								
<ol> <li>To impart th</li> <li>To impleme</li> <li>To familiarizand methods.</li> <li>To focus on solutions.</li> <li>To develop</li> </ol>	<ol> <li>To impart the knowledge of design, formulate, and construct applications with VB.NET.</li> <li>To implement lists and loops with VB.NET controls and iteration.</li> <li>To familiarize the students to do separate operations into appropriate VB.NET procedures and methods.</li> <li>To focus on assembling multiple forms, modules, and menus into working VB.NET solutions.</li> <li>To develop VB.NET programs using multiple array techniques</li> </ol>								
Unit: I .NET	Framework and VB.	NET				18	í		
Introduction - simple VB.NE Features in V Window - Object Browse Simple VB.NET Cons	Introduction - Overview of the .NET Framework - VB.NET Language - Development of a simple VB.NET Program. Features in VS.NET: Introduction - Start Page - The IDE Main Window - Class View Window - Object Browser - Code Window - Compiling the Code - Code Debugging - Developing a Simple								
Unit: II Varia	ables, Operators and C	ontro	ol Statement			18	;		
Value Types an Types - Boxing and Ur Control Statem - For Statemen	nd Reference Types - V boxing - Arithmetic O ent: If Statement Se t- For each statement	ariab perato lect	le Declaration and Ini ors Case Statement - Whi	tialization - Val ile Statement - I	ue Da Do St	ata ater	nent		
Unit: III Met	ods and Arrays					18	;		
Classes, Properties, and Indexers: Definition and Usage of a Class - Constructor Overloading Types of Methods - Arrays - One-dimensional Array - Multidimensional Arrays – Jagged Array Event handling: Mouse Events – Keyboard Events.									
Unit: IV Butte	on Controls and String	s				18	;		
Button Contro Checkbox Con Combo box Co of string class.	s: Text Box Control - trol – Group Box Cor ontrol Strings: Creating	Labe trol - a stri	l Control - Button Co - List Box Control – ing object -Properties	ontrol-Radio Bu Checked List F of the string cla	tton ( Box C ass –	Con Cont Me	trol - trol – thods		
Unit: V Data	base Connectivity					18	}		

Total Hours 90

Advantages of ADO.NET - Managed Data Providers - Developing a Simple ADO.NET Base	d
Application - Creation of a Data Tables - Retrieving Data from Tables - Table Updating	-
Disconnected Data Access Through Dataset Object.	

#### **Book for study:**

V.Christy, Programming in VB.Net, Laxmi Publications, First Edition, Chennai, 2015.

#### **Books for Reference:**

- 1. Dave Grundgeiger, Programming Visual Basic .NET, O'Reilly
- 2. C.Muthu, Visual Basic. Net, McGraw Hill Education, New Delhi, First Edition, 2008.
- 3. Jeffrey R. Shapiro ,Visual Basic .NET The Complete Reference, McGraw Hill Education,

4. New Delhi, First Edition, 2009.

#### Web Resources:

- 1. https://books.goalkicker.com/VisualBasic\_NETBook
- 2. https://www.pdfdrive.com/complete-reference-vbnet-d19382767.html
- 3. <u>https://www.tutorialspoint.com/vb.net/index.htm</u>

Cour	se Outcome	K Level
After	the completion of the course the student will be able to,	
CO1	Understandthe.NET Framework and explain some of the main enhancements to the new edition of Visual Basic	Up to K4
CO2	Prepare the fundamental structure of a Visual Basic.NET project and use main features of the integrated development environment (IDE)	Up to K3
CO3	Illustrate applications using Microsoft Windows Form.	Up to K3
CO4	Evaluate applications that use ADO.NET.	Up to K5
CO5	Manipulate on Assemblies and Deployment in .NET, Mobile Applications Development.	Up to K3

#### CO & PO Mapping:

COS	PO1	PO2	PO3	PO4	PO5	PO6
CO1	3	3	3	2	3	3
CO2	3	3	2	3	1	2
CO3	1	2	3	3	3	3
CO4	3	3	3	3	3	3
CO5	3	3	3	3	2	3

\*3-Advanced Application; 2-Intermediate Development; 1-Introductory Level

## LESSON PLAN

UNIT	PROGRAMMING IN VB.NET	Hrs	Mode
I	<b>.NET FRAMEWORK AND VB.NET</b> Introduction - Overview of the .NET Framework - VB.NET Language - Development of a simpleVB.NET Program.Features in VS.NET: Introduction - Start Page - The IDE Main Window - Class View Window - Object Browser - Code Window - Compiling the Code - Code Debugging - Developing a Simple VB.NET Console Application through Visual Studio IDE.	18	PPT, Chalk &Talk
II	Variables, Operators and Control Statements Value Types and Reference Types - Variable Declaration and Initialization - Value Data Types - Boxing and Unboxing - Arithmetic Operators Control Statement: If Statement Select Case Statement - While Statement - Do Statement - For Statement- For each statement	18	PPT, Chalk& Talk
III	Methods and Arrays Classes, Properties, and Indexers: Definition and Usage of a Class - Constructor Overloading Types of Methods - Arrays - One- dimensional Array - Multidimensional Arrays – Jagged Array Event handling: Mouse Events – Keyboard Events.	18	PPT, Chalk & Talk
IV	Button Controls and Strings Button Controls: TextBox Control - Label Control - Button Control-RadioButton Control - Checkbox Control - GroupBox Control - ListBox Control - CheckedListBox Control - Combobox Control Strings: Creating a string object -Properties of the string class – Methods of string class.	18	PPT, Chalk & Talk
V	<b>Database connectivity</b> Advantages of ADO.NET - Managed Data Providers - Developing a Simple ADO.NET Based Application - Creation of a Data Tables - Retrieving Data from Tables - Table Updating – Disconnected DataAccess Through Dataset Object.	18	PPT, Chalk &Talk

Course designed by: Mrs. A. Nagaswathy, Assistant Professor.

Learning Outcome Based Education & Assessment (LOBE)								
	Formative Examination- Blue Print Articulation Mapping_K Levels with Course Outcomes (COs)							
			Section	n A	Section	n B		
Internal	Cos	K Level	MCC	)s	Short Answers		Section C Either or	Section D
	005	I Lever	No. of Questions	K- Level	No. of Questions	K- Level	Choice	Choice
CIAI	CO1	UpToK4	2	K1,K2	1	K1	2(K4&K4)	1(K4)
CIAI	CO2	UpToK3	2	K1,K2	2	K2	2(K3&K3)	1(K3)
	CO3	UpToK3	2	K1,K2	2	K2	2(K3&K3)	1(K3)
CIAII	<b>CO4</b>	UpToK5	2	K1,K2	1	K2	2(K4&K4)	1(K5)
	Que	No. of estions to be asked	4		3		4	2
		No. of						
Question Pattern	Que	stions to be inswered	4		3		2	1
CIA I&I	I Mai	rks for each Question	1		2		5	10
	Tota	al Marks for each					10	10
		Section	4		6		10	10

	Distribution of Marks with K Level CIA I& CIA II								
	K Level	Section A (Multiple Choice Questions)	Section B (Short wAnswer Questions)	Section C (Either / Or Choice)	Section D(Open Choice)	Total Marks	%of( Marks without cchoice)	Consolidate of %	
	K1	2	2	-	-	4	8	20	
	K2	2	4	-	-	6	12	20	
CIAI	K3	-	-	10	10	20	40	40	
	K4	-	-	10	10	20	40	40	
	K5	-	-	-	-	-	-	-	
	Marks	4	<b>m</b> 6	20	20	50	100	100	
	K1	2	2	-	-	4	8	20	
CIAII	K2	2	4	-	-	6	12	20	
	K3	-	-	10	10	20	40	40	
	K4	-	-	10	-	10	20	20	
	K5	-	-	_	10	10	20	20	
	Marks	4	6	20	20	50	100	100	

K1-Remembering and recalling facts with specific answers

K2-Basic understanding of facts and stating main ideas with general answers

K3-Application oriented-Solving Problems

K4-Examining, analyzing, presentation and make inferences with evidences

CO5 will be allotted for individual Assignment which carries five marks as part of CIA component

Sun	Summative Examination – Blue Print Articulation Mapping –K Level with Course							
		K Lovol	MCQs		Short Answers		Section C	Section D
S. No	Cos	K-Levei	No. of Questions	K– Level	No. of Question	K– Level	(Either / or Choice)	(Open Choice)
1	CO1	UpToK4	2	K1,K2	1	K1	2(K4&K4)	1(K4)
2	CO2	UpToK3	2	K1,K2	1	K2	2(K3&K3)	1(K3)
3	CO3	UpToK3	2	K1,K2	1	K2	2(K3&K3)	1(K2)
4	CO4	UpToK5	2	K1,K2	1	K2	2(K4&K4)	1(K5)
5	CO5	UpToK3	2	K1,K2	1	K2	2(K3&K3)	1(K3)
No. of Questions to be asked		10		5		10	5	
No. of Questions to be Answered		10		5		5	3	
Marks for each question		1		2		5	10	
Total Marks for each section		10		10		25	30	
(Fi	(Figures in parenthesis denotes, questions should be asked with the given K level)							

	Summative Examinations - Distribution of Marks with K Level							
K Level	Section A (Multiple Choice Questions)	Section B (Short Answer Questions)	Section C (Either / or Choice)	Section D ( Open Choice)	Total Marks	%of (Marks without choice)	Consolidated %	
K1	5	2	-	-	7	5.83	25	
K2	5	8	-	10	23	19.17	2.3	
K3	-	-	30	20	50	41.67	42	
K4	-	-	20	10	30	25	25	
K5	-	-	-	10	10	8.33	8	
Marks	10	10	50	50	120	100	100	
NB: Higher level of performance the students is to be assessed by attempting higherlevel								
of K lev	of K levels.							

Section	A (Mu	Itiple Choic	e Questions)
Answer	· All Q	uestions	(10x1=10marks)
Q. No	CO	K Level	Questions
1	CO1	K1	
2	CO1	K2	
3	CO2	K1	
4	CO2	K2	
5	CO3	K1	
6	CO3	K2	
7	CO4	K1	
8	CO4	K2	
9	CO5	K1	
10	CO5	K2	
Section	B (Sho	ort Answers)	
Answer	All Q	uestions	(5x2=10marks)
Q. No	CO	K Level	Questions
11	CO1	K1	
12	CO2	K2	
13	CO3	K2	
14	CO4	K2	
15	CO5	K2	
Section	C (Eit	her / Or Typ	be)
Answer	· All Q	uestions	(5x5 =25marks)
Q. No	CO	K Level	Questions
16)a	CO1	K4	
16)b	CO1	<u>K4</u>	
17)a	CO2	<u>K3</u>	
17)b	CO2	<u>K3</u>	
18)a	CO3	<u>K3</u>	
18)b	CO3	<u>K3</u>	
19)a	CO4	<u>K4</u>	
19)b	CO4	K5	
20)a	CO5	<u>K3</u>	
20)b	CO5	<u>K3</u>	
NB: Hig	gher le	vel of perfor	mance of the students is to be assessed by attempting higher
level Of	K leve		
Section	D (Op	en Choice)	
Answer	Any I	hree question	ons (3x10=30marks)
<b>Q. No</b>	CO	K Level	Questions
21	COI	K4	
22	002	K3	
23	CO3	K2	
24	CO4	K5 K2	
25	005	K3	

# Summative Examinations –Question Paper–Format


# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

Course Name	PROGRAMMING IN	PY'	THON - LAB				
Course Code	<b>21PCCEP4</b>				L	Р	С
Category	Part – III Core Electiv	ve			-	6	6
Nature of Course	<b>EMPLOYABILITY ✓</b> SKILLORIENTED ENTREPR					URS	HIP
Course Objecti	ves:						
Create Python F Develop web ap To understand t expertise. To be able to im Python program Python Program String slicing in Python program Python program Creating Pandas Load the <u>CSV</u> d Create a Bar plo	Programs for Simple appli oplications using Python. he high-performance prog- troduce core programmin uning language. rted data Structure like liss <b>ns:</b> to Shutdown Computer to restart the computer to restart the computer is to restart the computer is to check Armstrong Nur- for n-th Fibonacci numb to find largest element in to Split the array and add in a given String in Pytho to Check if a Sub-string Python to rotate a string to interchange first and I to Reverse a List to swap two elements in to find the sum of all item to Find the size of a Tup to Adding Tuple to List to Genetrate text Captch to Genetrate random Ca data frame lata from the system and of me from dict of narray or of using pandas am plot using pandas	cati gran g ba <u>ats, l</u> imr in g mbe ber n an d th n is P ast a li ims i le and na . le list	ons ns designed to strengt asics and program des <u>Dictionaries and tuple</u> nediately iven time. r array e first part to the end Present in a Given Stri elements in a list st in a dictionary vice – versa ha lay it through pandas	hen the pract ign with fund <u>s in python</u> ng	tical	s usi	ng
				· • • · · -			
			Tot	tal Lecture I	loui	`S	75

Cours	se Outcome	K Level			
COURSE OUTCOME					
CO1	Understand conditionals, loops and functions in Python.	Up To K4			
CO2	Make use of lists, dictionary and tuples in Python.	<b>Up To K3</b>			
CO3	Compare various sorting techniques and Use it in various applications.	Up To K4			
<b>CO4</b>	Compile the importance of using command line arguments.	<b>Up To K2</b>			
CO5	Create, analyze and determine Python programs for various	Un To K3			
	applications.	Ор 10 КЗ			

## CO & PO Mapping:

COS	PO1	PO2	PO3	PO4	PO5	PO6
CO1	3	3	3	3	3	2
CO2	3	2	3	3	3	3
CO3	2	3	3	3	2	2
CO4	2	3	3	2	2	3
CO5	2	3	2	3	3	3

**\*3**-Advanced Application; **2**-Intermediate Development; **1**-Introductory Level

Ex. No	COURSE CONTENT	HOURS	PEDAGOGY
1.	Python Program for simple interest	4	
2.	Python Program to check Armstrong Number	4	
3.	Python Program for n-th Fibonacci number	4	
4.	Python Program to find largest element in an array	4	
5.	Python Program to Split the array and add the first part to the end	4	
6.	Reverse words in a given String in Python	4	
7.	Python program to Check if a Substring is Present in a Given String	4	
8.	String slicing in Python to rotate a string	4	
9.	Python program to interchange first and last elements in a list	4	
10.	Python program to Reverse a List	4	ТАР
11.	Python program to swap two elements in a list	4	DDACTICAI
12.	Python program to find the sum of all items in a dictionary	4	INACIICAL
13.	Python program to Find the size of a Tuple	4	
14.	Python program to Adding Tuple to List and vice – versa	4	
15.	Creating Pandas data frame	4	
16.	Load the <u>CSV</u> data from the system and display it through pandas	3	
17.	Create Data Frame from dict of n array or list	3	
18.	Create Data Frame from dict of n array or list	3	
19.	Create a Bar plot using pandas	3	
20.	Create a histogram plot using pandas	3	

## LESSON PLAN



## MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

	-							
Course Name	PROGRAMMING WITH PHP – LAB							
<b>Course Code</b>	21PCCEP5					L	Р	C
Category	Elective				-	6	6	
Nature of Course	EMPLOYABILITY	✓	SKILLORIENTED	~	ENTREPRENEURSHIP			
Course Objectives:								

1. Design and develop dynamic, database-driven web applications using PHP

2. Get hands on experience on various techniques of web development and will be able to design and develop a complete website.

- 3. Apply and analyze PHP programs to design real life problems.
- 4. Examine the use of PHP programming that uses SQL tables.
- 5. Design PHP programs using parsing functions.

### **List of Programs:**

**1.**Write a PHP program to reverse given number.

- 2. Write a PHP program to print table of a number.
- 3. Write a PHP program to print Fibonacci series without using recursion and using recursion.
- 4. Write a PHP program to swap two numbers with and without using third variable.
- 5. Write a PHP program to print alphabet triangle.
- 6. Develop a PHP program using controls and functions
- 7. Develop a PHP program and check message passing mechanism between pages.
- 8. Develop a PHP program using String function and Arrays.
- 9. Develop a PHP program to display student information using MYSQL table.
- 10. Develop a PHP program to design a college application form using MYSQL table.
- 11. Develop a PHP program using parsing functions (use Tokenizing)

12. Develop a PHP program and check Regular Expression, HTML functions, Hashing functions.

13. Develop a PHP program and check File System functions, Network functions, and Date and time functions.

14. Develop a PHP program using session

15. Develop a PHP program using cookie and session

**Total Lecture Hours** 

90

COU	COUDSE OUTCOME						
	KSE OUTCOME	K Level					
CO1	Understand the basic concepts of PHP programming.	Up To K2					
CO2	Apply and analyze PHP programs to design real life problems.	Up To K3					
<b>CO3</b>	Examine the use of PHP programming that uses SQL tables.	Up To K4					
<b>CO4</b>	Design PHP programs using parsing functions.	<b>Up To K3</b>					
CO5	Assess regular expressions and hashing functions in PHP language.	<b>Up To K3</b>					

## CO & PO Mapping:

COS	PO1	PO2	PO3	PO4	PO5	PO6
CO1	3	3	3	3	3	3
CO2	2	3	3	3	2	3
CO3	2	3	2	3	3	2
CO4	2	2	3	3	3	2
CO5	3	3	3	2	2	3

**\*3**-Advanced Application; **2**-Intermediate Development; **1**-Introductory Level

UNIT	COURSE CONTENT	HOURS	PEDAGOGY
	Write a PHP program to reverse given number.	6	
UNIT - I	Write a PHP program to print table of a number.	6	
	Write a PHP program to print Fibonacci series without	6	
	using recursion and using recursion.	Ŭ	
UNIT - H	Write a PHP program to swap two numbers with and	6	
	without using third variable.	0	
01111 - 11	Write a PHP program to print alphabet triangle.	6	
	Develop a PHP program using controls and functions	6	
	Develop a PHP program and check message passing	6	
	mechanism between pages.	U	
UNIT - III	Develop a PHP program using String function and	6	
	Arrays.	0	
	Develop a PHP program to display student	6	
	information using MYSQL table.	U	
	Develop a PHP program to design a college	6	
	application form using MYSQL table.	U	
UNIT - IV	Develop a PHP program using parsing functions (use	6	
	Tokenizing)	Ŭ	
	Develop a PHP program and check Regular	6	
	Expression, HTML functions, Hashing functions.	Ŭ	LAB-
	Write a PHP Code to make database connection,	6	PRACTICAL
	Create Data Base, Create Table In Mysql	Ŭ	DEMO
	Study Of MYSQL Data Base Operation Write a PHP		
UNIT - V	code Insert, Delete, Update, Select the Data From Data	6	
	Base		
	Design A form which upload And Display Image in		
	PHP,	6	
	Design A Login Form and Validate that Form using	U	
	PHP Programming		

## LESSON PLAN

Course Designed By: Dr.S.Bharanisethupandian, Assistant Professor



# MANNAR THIRUMALAI NAICKER COLLEGE (AUTONOMOUS) DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS (For those who join in 2021-2022 and after)

Course Name	PROGRAMMING I	N VI	B.NET-LAB					
<b>Course Code</b>	<b>21PCCEP6</b>					L	Р	С
Category	Elective					-	6	6
Nature of course:	EMPLOYABILITY	✓	SKILLORIENTED	~	ENTREPR	RENI	EURS	HIP
Course Object	ives:							
<ol> <li>To build Windows applications using structured and object-based programming techniq</li> <li>To separate operations into appropriate VB.NET procedures and functions.</li> <li>To translate general requirements into data-related solutions using .NET concepts</li> <li>To build students to develop Windows desktop applications.</li> <li>To gain the knowledge to do the project.</li> </ol>						nniqu	es	
LIST OF PRO	GRAMS							
1.Write VB.NE	T code to declare a variation	able	to store the age of a per	son				
2. Write VB.NE	ET code to prompt a use	r to i	nput his/her name.					
3.Write VB.NE	T code to shutdown, res	start,	logoff the computer.					
4.Write a VB.N	ET program to determine	ne wl	hether an input number	is a	n			
even number.								
5.Write a VB.N	ET program that determ	nnes	a student's grade.					
6. Write a VB.N	E1 program to prompt	the u	ser to choose the correc	t an	swer			
7 Write o VP N	ET program to handle r		o ovonte					
8 Write a VB N	ET program to a handle	kev	board events					
9 Design a form	to create digital clock	Rey	board events.					
10.Design form	to select image from lis	st and	display it in the picture	e bo	)X.			
11. Write a VB.NET program to string manipulation.								
12.Write VB.NET program to sort the array in descending order.								
13.Design a form to open and save files using menus.								
14.Design student progress report.								
15.Design a reg	istration form with Data	abase	ADO.NET connection	•				
					Total 1	Hour	s	90

Cours	e Outcomes	K Level					
After	After the completion of the course the student will be able to,						
COI	Understand the simple application using various controls in VB.	Up To K2					
COI	NET.	Up 10 K2					
CO2	Analyze and apply an application in VB. Net with the array object.	Up T oK4					
CO3	Apply the web controls in an application.	Up To K3					
<b>CO4</b>	Manipulate data in a database in ADO.Net Environment.	Up To K3					
CO5	Compile the project report.	Up To K5					

# CO & PO Mappings:

COS	PO1	PO2	PO3	PO4	PO5	PO6
CO 1	3	3	3	2	2	1
CO 2	2	3	2	3	3	3
CO 3	2	3	3	3	3	3
CO 4	3	2	3	3	2	3
CO 5	2	3	3	3	3	3

\*3–Advanced Application; 2–Intermediate Development; 1-Introductory Level

	1	1
PROGRAMMING IN VB.NET-LAB	Hrs	Mode
Write VB.NET code to declare a variable to store the age of a	6	
person.		
Write VB.NET code to prompt a user to input his/her name.	6	
Write VB.NET code to shut down, restart, logoff the computer.	6	
Write a VB.NET program to determine whether an input number is an even number.	6	
Write a VB.NET program that determines a student's grade.	6	
Write VB.NET program to prompt the user to choose the correct answer from a list of answer choices of a question.	6	
Write a VB.NET program to handle mouse events.	6	
Write a VB.NET program to handle keyboard events.	6	
Design a form to create digital clock.	6	
Design form to select image from list and display it in the picture box.	6	
Write a VB.NET program to string manipulation.	6	LAB -
Write VB.NET program to sort the array in descending order.	6	PRACTICAL
Design a form to open and save files using menus.	6	
Design student progress report.	6	]
Design a registration form with Database ADO.NET connection.	6	

## LESSON PLAN

Course Designed by: Mrs.A.Nagaswathy, Assistant Professor