

PERIYAR UNIVERSITY

SALEM - 636011

DEGREE OF BACHELOR OF COMMERCE

CHOICE BASED CREDIT SYSTEM

Syllabus for

B.COM. COMPUTER APPLICATIONS

(SEMESTER PATTERN)

(For Candidates admitted in the College affiliated to Periyar University from 2023 - 2024 onwards)

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REGULATIONS FOR UNDERGRADUATE DEGREE COURSES IN SCIENCES, HUMANITIES, SOCIAL SCIENCES AND COMMERCE CBCS PATTERN

Definitions:

Programme: "Programme" means a course of study leading to the award of a degree

in discipline.

Course "Course" refers to a subject offered under the degree programme.

Part I : Tamil / Other languages: means "Tamil/other languages" offered under Part I of

the programme

Part II : English: means "English language offered under Part II of the programme.

Part III: Means "Core courses and Elective courses including laboratory".

: Elective Papers - An open choice of topics categorized under Generic and

Discipline Centric

Part IV : Non-Major Electives Means elective subjects offered under Part IV

Skill Enhancement Courses - means the courses offered as skill based coursesunder Part IV of the programme aimed at imparting Advanced Skill.

Foundation Course: means courses such as To ease the transition of learning from higher secondary to higher education, providing an overview of the pedagogy of learning abstract Statistics and simulating mathematical concepts to real world.

Value Education (III year - V Semester)

Environmental Studies (II year – III & IV Semester)

Internship / Industrial Training - Practical training at the Industry/Banking Sector / Private/ Public sector organizations / Educational institutions, enable the students gain professional experience and also become responsible citizens.

Project with Viva – voce - Application of the concept to real situation is conceived resulting in tangible outcome

Introduction of Professional Competency Component

Part V : "Extension Activities : means all those activities under NSS/ NCC/

Sports/ YRC programme and other co and extracurricular activities

offered under part V of the programme.

A detailed explanation of the above with relevant credits are given underSchemes of Examination along with Distribution of Marks and Credits".

Duration: Means the stipulated years of study to complete a programme as prescribed by the University from time to time. Currently for the undergraduate programme the duration of study is THREE years. These regulations shall apply to the regular course of study in approved institutions of the University.

Credits: Means the weightage given to each course of study (subject) by the experts of the Board of Studies concerned.

Credit System: Means, the course of study under this regulation, where weightage of credits are spread over to different semesters during the period of study and the Cumulative Grade Point Average shall be awarded based on the credits earned by the students. A total of 140 credits are prescribed for the Undergraduate Programme (Three years).

Choice Based Credit System: All Undergraduate Programmes offered by the University shall be under Choice Based Credit System (CBCS). This is to enhance the quality and mobility of the students within and between the Universities in the country and abroad.

1. Eligibility for Admission to the Course

Candidate for admission to the first year of the UG degree programme shall be required to have passed the higher secondary examination (Academic or Vocational) conducted by the Govt. of Tamil Nadu in the relevant subjects or other examinations accepted as equivalent thereto by the Syndicate, subject to such other conditions as may be prescribed therefor.

2. Duration of the Course

The course shall extend over a period of three years comprising of six semesters with two semesters in one academic year. There shall not be less than 90 working days for each semester. Examination shall be conducted at the end of every semester for the respective subjects.

Each semester have 90 working days consists of 5 teaching hours per working day. Thus, each semester has 450 teaching hours and the whole programme has 2600 teaching hours.

3. Course of Study

The course of study for the UG degree courses of all branches shall consist of thefollowing:

Part - I: Tamil

Tamil or any one of the following modern/classical languages i.e. Telugu, Kannada, Malayalam, Hindi, Sanskrit, French, German, Arabic & Urdu.

The subject shall be offered during the **first four semesters** with one examination at the end of each semester (4 courses -12 credits).

Part II: English

The subject shall be offered during the **first four semesters** with one examination at the end of each semester (4 courses - 12 credits).

Part III:

Core subject

As prescribed in the scheme of examination. Examination shall be conducted in the core subjects at the end of every semester. For the programmes with 4 semester languages, 15 core courses with 68 credits are to be offered.

Electives courses

Four elective courses with 12 credits are to be offered one in the first four semesters . Elective subjects are to be selected from the list of electives prescribed bythe Board of Studies concerned.

Discipline Specific Elective

Four DSE courses with 12 credits are to be offered Two in the Five semester and Two in the sixth semester. DSE subjects are to be selected from the list of DSE"s Prescribed by the Board of Studies Concerned

Part IV

1. Skill Enhancement Course:

All the UG programmes shall offer seven courses of **skill Enhancement subjects in I, II, & IV** semesters with 13 credits for which examination shall be conducted at the end of the respective semesters.

2. Environmental Studies:

All the UG programmes shall offer a course in Environmental Studies subjects and it shall be offered in the third and fourth semester. Examination shall be conducted at the end of fourth semester (one course with 2 credits).

3. Value Education:

All the UG Programmes shall offer a course in "Value Education" and it shall be offered in the fifth semester. Examination shall be conducted at the end of the semester.

Part V: Extension Activities (One Credit)

Every student shall participate compulsorily for period of not less than two years (4 semesters) in any one of the following programmes.

NSSNCC

SportsYRC

Other Extra curricular activities.

The student's performance shall be examined by the staff in-charge of extension activities along with the Head of the respective department and a senior member of the Department on the following parameters. The marks shall be sent to the Controller of Examinations before the commencement of the final semester examinations.

20% of marks for Regularity of attendance.

60% of marks for Active Participation in classes/ camps/ games/ special Camps/ programmes in the college/ District/ State/ University activities.

10% of marks for Exemplary awards/ Certificates/ Prizes.

10% of marks for Other Social components such as Blood Donations, Fine Arts, etc.

The above activities shall be conducted outside the regular working hours of the college. The mark sheet shall carry the gradation relevant to the marks awarded to the candidates. A - Exemplary - 80 and above

B - Very good - 70-79

C - Good - 60-69

D - Fair - 50-59

E - Satisfactory - 40 49

This grading shall be incorporated in the mark sheet to be issued at the end of the semester. (Handicapped students who are unable to participate in any of the aboveactivities shall be required to take a test in the theoretical aspects of any one of theabove fields and be graded and certified accordingly).

4. Requirement to appear for the examinations

- a) A Candidate shall be permitted to appear for the university examinations for any semester (practical/theory) if he/she secures **not less than 75%** of attendance in thenumber of working days during the semester.
- b) A candidate who has secured **less than 75% but 65%** and above attendance in any semester has to pay fine of Rs.800/- and a candidate shall be permitted to appear forthe university examination in that semester itself.
- c) A candidate who has secured **less than 65% but 50%** and above attendance in any semester has to pay fine of Rs.800/- and can appear for both semester papers together atthe end of the later semester.
- d) A candidate who has secured **less than 50%** of attendance in any semester shall notbe permitted to appear for the regular examinations and to continue the study in the subsequent semester. He/she has to rejoin the semester in which the attendance is less than 50%.

5. Scheme of examination

As given in the annexure.

6. Restrictions to appear for the examinations

- a) Any candidate having arrear paper(s) shall have the option to appear in any arrear paper along with the regular semester papers.
- b) Candidates who fail in any of the course of Part I, II, III, IV & V of UG degree examinations shall complete the course concerned within 5 years from the date of admission to the said programme, and should they fail to do so, they shall take the examination in the texts/ revised syllabus prescribed for the immediate next batch of candidates. If there is no change in the texts/syllabus they shall appear for the examination in that course with the syllabus in vogue until there is a change in the texts or syllabus. In the event of removal of that course consequent to change of regulation and / or curriculum after 5 year period,

the candidates shall have to take up an equivalent course in the revised syllabus as suggested by the Chairman and fulfill the requirements as per the regulation curriculum for the award of the degree.

7. Medium of Instruction and examinations

The medium of instruction and examinations for the courses of Part I, II & IV shall be the language concerned. For part III courses other than modern languages, the medium of instruction shall be either Tamil or English and the medium of examinations is English/Tamil irrespective of the medium of instructions. For modern languages, the medium of instruction and examination shall be the language concerned.

8. Submission of Record Note Books for practical examinations

Candidates appearing for practical examinations should submit bonafide Record Note Books prescribed for practical examinations, otherwise the candidates shall not be permitted to appear for the practical examinations.

9. Passing Minimum

- a) A candidate who secures **not less than 40% in the University (external)** Examination and 40% marks in the external examination and continuous internal assessment put together in any course of Part I, II, III & IV shall be declared to have passed the examination in the subject (theoryor Practical).
- b) A candidate who secures not less than 40% of the total marks prescribed for the subject under part IV degree programme irrespective of whether the performance is assessed at the end semester examination or by continuous internal assessment shall be declared to have passed in that subject.
- c) A candidate who passes the examination in all the courses of Part I, II, III, IV & V shall be declared to have passed, the whole examination.

10. Distribution

Table 1(A): The following are the distribution of marks for external and internal for University (external) examination and continuous internal assessment and passing minimum marks for **theory papers of UG programmes**.

Table 1(A)

	EX	TERNAL	IN	ΓERNAL			
TOTAL MARKS	Max. marks	Passing Minimum for external alone	Max. marks	Passing Minimum for external alone	Overall Passing Minimum for total marks (Internal + External)		
100	75	30	25	10	40		

Table 1(B): The following are the distribution of marks for continuous internal assessments in theory papers of UG programmes:

Table 1 (B)

METHODS OF EVALUATION							
	Continuous Internal Assessment Test						
Internal Evaluation	Assignments / Snap Test / Quiz						
internal Evaluation	Seminars	25 Marks					
	Attendance and Class Participation						
External Evaluation End Semester Examination		75 Marks					
	100 Marks						

Table 2(A): The following are the distribution of marks for University (external) examinations and continuous internal assessments and passing minimum marks for the **practical courses of UG programmes**.

Table 2(A)

TOTAL MARKS		EXTERNAL	IN	FERNAL	Overall Passing Minimum for total marks (Internal + External)		
	Max. marks	Passing Minimum for external alone	Max. marks	Passing Minimum for external alone			
100	75	30	25	10	40		

Table 2(B): The following are the distribution of marks for the continuous internal assessment in UG practical courses:

Table 2(B)

METHODS OF EVALUATION						
	Continuous Internal Assessment Test					
Internal Evolvetion	Assignments / Snap Test / Quiz					
Internal Evaluation	Seminars	25 Marks				
	Attendance and Class Participation					
External Evaluation End Semester Examination		75 Marks				
	100 Marks					

The following courses shall have end semester examinations and Continuous Internal Assessment:

Table 3

S.No.	Subject	Internal	External	Total
1.	Value Education	25	75	100
2.	Environmental Studies	25	75	100
3.	Non Major Electives 1 st semester	25	75	100
4.	Non Major Electives 2 nd semester	25	75	100

11. Grading

Once the marks of the CIA and end-semester examinations for each of the course are available, they shall be added. The mark thus obtained shall then be converted to the relevant letter grade, grade point as per the details given below:

Table <u>4</u>
Conversion of Marks to Grade Points and Letter Grade (Performance in a Course/Paper)

RANGE OF MARKS	GRADE POINTS	LETTER GRADE	DESCRIPTION
90-100	9.0-10.0	O	Outstanding
80-89	8.0-8.9	D+	Excellent
75-79	7.5-7.9	D	Distinction
70-74	7.0-7.4	A+	Very Good
60-69	6.0-6.9	A	Good
50-59	5.0-5.9	В	Average
40-49	4.0-4.9	С	Satisfactory
00-39	0.0	U	Re-appear
ABSENT	0.0	AAA	ABSENT

i = Credits earned for course i in any semester.

Gi = Grade Point obtained for course i in any semester.

n = refers to the semester in which such course were credited.

Grade point average (for a Semester):

Calculation of grade point average semester-wise and part-wise is as follows:

GRADE POINT AVERAGE [GPA] Σi Ci GiΣi Ci

Sum of the multiplication of grade points by the credits of the courses offered under each part

GPA=

Sum of the credits of the courses under each part in a semester

Calculation of Grade Point Average (CGPA) (for the entire programme):

A candidate who has passed all the examinations under different parts (Part-Ito V) is eligible for the following part-wise computed final grades based on the range of CGPA:

CUMULATIVE GRADE POINT AVERAGE [CGPA] = $\Sigma n \Sigma i Cni Gni / \Sigma n \Sigma i Cni$

Sum of the multiplication of grade points bythe credits of the entire programme under each part

CGPA =

Sum of the credits of the courses of the entire programme under each part

Table-5

CGPA	GRADE
9.5 10.0	O+
9.0 and above but below 9.5	0
8.5 and above but below 9.0	D++
8.0 and above but below 8.5	D+
7.5 and above but below 8.0	D
7.0 and above but below 7.5	A ++
6.5 and above but below 7.0	A +
6.0 and above but below 6.5	A
5.5 and above but below 6.0	B +
5.0 and above but below 5.5	В
4.5 and above but below 5.0	C+
4.0 and above but below 4.5	C
0.0 and above but below 4.0	U

12. Improvement of Marks in the subjects already passed

Candidates desirous of improving the marks awarded in a passed subject in their first attempt shall reappear once within a period of subsequent two semesters. The improved marks shall be considered for classification but not for ranking. When there is no improvement, there shall not be any change in the original marks already awarded.

13. Classification of Successful candidates

A candidate who passes all the examinations in Part I to Part V securing following CGPA and Grades shall be declared as follows for Part II or Part III:

Table 6

CGAP	GRADE	CLASSIFICATION OF FINAL RESULTS
9.5 - 10.0	O+	
9.0 and above but below 9.5	О	First Class Exemplary*
8.5 and above but below 9.0	D++	
8.0 and above but below 8.5	D+	First Class with Distinction*
7.5 and above but below 8.0	D	

7.0 and above but below 7.5	A++	
6.5 and above but below 7.0	A+	First Class
6.0 and above but below 6.5	A	That Class
5.5 and above but below 6.0	B+	
5.0 and above but below 5.5	В	Second Class
4.5 and above but below 5.0	C+	
4.0 and above but below 4.5	С	Third Class

- a. A candidate who has passed all the Part-III subjects examination in the first appearance within the prescribed duration of the UG programmes and secured a CGPA of 9 to 10 and equivalent grades "O" or "O+" in part III comprising Core, Electives and Allied subjects shall be placed in the category of "First Class Exemplary".
- **b.** A candidate who has passed all the Part-III subjects examination in the first appearance within the prescribed duration' of the UG programmes and secured a CGPA of 7.5 to 9 and equivalent grades "D" or "D+" or "D++" in part III comprising Core, Electives and Allied subjects shall be placed in the category of "First Class with Distinction".
- c. A candidate who has passed all the Part-I or Part-II or Part-III subjects examination of the UG programmes and secured a CGPA of 6 to 7.5 and equivalent grades "A" or "A+" or "A++" shall be declared to have passed that parts in "First Class".
- **d.** A candidate who has passed all the Part-I or Part-II or Part-III subjects examination of the UG programmes and secured a CGPA of 5.5 to 6 and equivalent grades "B" or "B+" shall be declared to have passed that parts in "Second Class".
- **e.** A candidate who has passed all the Part-I or Part-II or Part-III subjects examination of the UG programmes and secured a CGPA of 4.5 to 5 and equivalent grades "C" or "C+" shall be declared to have passed that parts in "Third Class".
- f. There shall be no classifications of final results, therefore, award of class for Part IV and Part V, however, those parts shall be awarded with final grades in the end semester statements of marks and in the consolidated statement of marks.

14. Conferment of the Degree:

No candidate shall be eligible for conferment of the Degree unless he / she

i. Has undergone the prescribed course of study for a period of not less than six semesters in an institution approved by/affiliated to the University or has been exempted from in the manner prescribed and has passed the examinations as have been prescribed thereof.

- ii. Has completed all the components prescribed under Parts I to Part V in the CBCS pattern to earn 140 credits.
- iii Has successfully completed the prescribed Field Work/ Institutional Training as evidenced bycertificate issued by the Principal of the College.

15. Ranking

A candidate who qualifies for the UG degree course passing all the examinations in the first attempt, within the minimum period prescribed for the course of study from the date of admission to the course and secures I class shall be eligible for ranking and such ranking shall be confined to 10% of the total number of candidates qualified in that particular branch of study, subject to a maximum of 10 ranks. The improved marks shall not be taken into consideration for ranking.

16. Additional Degree

a) The following is the norms prescribed for students admitted from 2010-11 onwards.

Any candidate who wishes to obtain an additional UG degree not involving any practical shall be permitted to do so and such a candidate shall join a college in the III year of the course and he/she shall be permitted to appear for part III alone by granting exemption from appearing Part I, Part II, Part IV and Part V and common allied subjects (if any), already passed by the candidate. And a candidate desirous to obtain an additional UG degree involving practical shall be [permitted to do so and such candidate shall join a college in the II year of the course and he/she be permitted to appear for Part III alone by granting exemption from appearing for Part I, Part II, Part IV and Part V and the common allied subjects. If any, already passed. Such candidates should obtain exemption from the university by paying a fee of Rs.500/-.

b) The following is for students admitted prior to 2008-09:

Any candidate who wishes to obtain an additional UG degree not involving any practical shall be permitted to do so and such a candidate shall join a college in the III year of the course and he/she shall be permitted to appear for part III alone by granting exemption from appearing Part I, Part II, Part IV and Part V and common allied subjects (if any), **already passed by the candidate**. And a candidate desirous to obtain an additional UG degree involving practical shall be [permitted to do so and such candidate shall join a college in the II year of the course and he/she be permitted to appear for Part III alone by granting exemption from appearing for Part I, Part II, Part IV and Part V and the common allied subjects. If any, already passed. Such candidates should obtain exemption from the university by paying a fee of Rs.500/-.

17. Evening College

The above regulations shall be applicable for candidates undergoing the respective courses in Evening Colleges also.

18. Question Paper Pattern

Table-7

	Maximum 75 Marks — wherever applicable											
Section A	Multiple Choice Questions	15*1=15	15 questions = 3 each from everyunit									
Section B	Short answer questions of either / or type (like 1.a or b)	2*5=10	2 questions = 1 each from everyunit									
Section C	Essay type question of any three out of five questions.	5*10=50	5 questions–1 each from every unit with internal choice of (a) or (b).									

19. Syllabus

The syllabus for various courses shall be clearly demarcated into five viable units in each paper/subject.

20. Revision of Regulations and Curriculum

The above Regulation and Scheme of Examinations shall be in vogue without any change for a minimum period of three years from the date of approval of their approval. The University may revise / amend / change the Regulations and Scheme of Examinations, if found necessary.

21. Transitory Provision

Candidates who have undergone the Course of Study prior to the Academic Year 2023- 2024 shall be permitted to take the Examinations under those Regulations for a period of four years i.e. upto and inclusive of the Examination of April 2028 thereafter they shall be permitted to take the Examination only under the Regulations in force at that time.

B.COM., COMPUTER APPLICATION

PROGRAMME OBJECTIVE:

The B.Com. Degree Programme provides ample exposure to courses from the fields of Commerce, Accountancy and Management. The course equips the students for entry level jobs in industry, promotes the growth of their professional career, entrepreneurship and a key contributor to the economic development of the country.

B.Com., Computer Applications is a 3-year undergraduate course. It is designed to have an understanding in the field of commerce, especially in the discipline that involves the use of software technology application. Under this program, the students would be taught the basics of Commerce like accountancy, law, banking and taxation along with the basics of computer language, computer applications in business, etc.

A student who has completed a BCom Computer Applications has career opportunities in both the Public and Private sectors where they can work as Business Consultants, Auditors, Business Analysts, App Developers, Computer Programmers.

TANSCHE REC	TANSCHE REGULATIONS ON LEARNING OUTCOMES-BASED CURRICULUM							
FRAMEWORK	GUIDELINES BASED REGULATIONS FOR UNDER GRADUATE							
	PROGRAMME							
Programme:	B.COM., COMPUTER APPLICATION							
Programme Code:								
Duration:	UG - 3 years							
Programme	PO1: Disciplinary knowledge: Capable of demonstrating comprehensive							
Outcomes:	knowledge and understanding of one or more disciplines that form a part of							
	an undergraduate Programme of study							
	PO2: Communication Skills: Ability to express thoughts and ideas effectively in writing and orally; Communicate with others using appropriate media; confidently share one"s views and express herself/himself; demonstrate the ability to listen carefully, read and write analytically, and present complex information in a clear and concise manner to different groups. PO3: Critical thinking: Capability to apply analytic thought to a body of knowledge; analyse and evaluate evidence, arguments, claims, beliefs on the basis of empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach to knowledge development. PO4: Problem solving: Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge; and apply one"s learning to real life situations. PO5: Analytical reasoning: Ability to evaluate the reliability and relevance							
	of evidence; identify logical flaws and holes in the arguments of others; analyze and synthesize data from a variety of sources; draw valid conclusions							
	and support them with evidence and examples, and addressing opposing							
	viewpoints.							
	PO6: Research-related skills : A sense of inquiry and capability for asking relevant/appropriate questions, problem arising, synthesising and articulating; Ability to recognise cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyse, interpret and draw conclusions from data, establish hypotheses, predict cause-and-effect							

relationships; ability to plan, execute and report the results of an experiment or investigation

PO7: Cooperation/Team work: Ability to work effectively and respectfully with diverse teams; facilitate cooperative or coordinated effort on the part of a group, and act together as a group or a team in the interests of a common cause and work efficiently as a member of a team

PO8: Scientific reasoning: Ability to analyse, interpret and draw conclusions from quantitative/qualitative data; and critically evaluate ideas, evidence and experiences from an open-minded and reasoned perspective.

PO9: Reflective thinking: Critical sensibility to lived experiences, with self awareness and reflexivity of both self and society.

PO10 Information/digital literacy: Capability to use ICT in a variety of learning situations, demonstrate ability to access, evaluate, and use a variety of relevant information sources; and use appropriate software for analysis of data.

PO 11 Self-directed learning: Ability to work independently, identify appropriate resources required for a project, and manage a project through to completion.

PO 12 Multicultural competence: Possess knowledge of the values and beliefs of multiple cultures and a global perspective; and capability to effectively engage in a multicultural society and interact respectfully with diverse groups.

PO 13: Moral and ethical awareness/reasoning: Ability to embrace moral/ethical values in conducting one"s life, formulate a position/argument about an ethical issue from multiple perspectives, and use ethical practices in all work. Capable of demonstrating the ability to identify ethical issues related to one"s work, avoid unethical behaviour such as fabrication, falsification or misrepresentation of data or committing plagiarism, not adhering to intellectual property rights; appreciating environmental and sustainability issues; and adopting objective, unbiased and truthful actions in all aspects of work.

PO 14: Leadership readiness/qualities: Capability for mapping out the tasks of a team or an organization, and setting direction, formulating an inspiring vision, building a team who can help achieve the vision, motivating and inspiring team members to engage with that vision, and using management skills to guide people to the right destination, in a smooth and efficient way.

PO 15: Lifelong learning: Ability to acquire knowledge and skills, including "learning how to learn", that are necessary for participating in learning activities throughout life, through self-paced and self-directed learning aimed at personal development, meeting economic, social and cultural objectives, and adapting to changing trades and demands of work place through knowledge/skill development/reskilling.

Programme Specific Outcomes:

PSO1 – Placement:

To prepare the students who will demonstrate respectful engagement with others" ideas, behaviors, beliefs and apply diverse frames of reference to decisions and actions.

PSO 2 - Entrepreneur:

To create effective entrepreneurs by enhancing their critical thinking, problem solving, decision making and leadership skill that will facilitate startups and high potential organizations

PSO3 – Research and Development:

Design and implement HR systems and practices grounded in research that comply with employment laws, leading the organization towards growth and development.

PSO4 – Contribution to Business World:

To produce employable, ethical and innovative professionals to sustain in the dynamic business world.

PSO 5 – Contribution to the Society:

To contribute to the development of the society by collaborating with stakeholders for mutual benefit

Credit Distribution for UG Programmes

Sem I	Credit	Н	Sem II	Credit	H	Sem III	Credit	H	Sem IV	Credit	Н	Sem V	Credit	Н	Sem VI	Credit	H
Part 1. Language – Tamil	3	6	Part1. Language – Tamil	3	6	Part1. Language – Tamil	3	6	Part1. Language – Tamil	3	6	5.1 Core Course – \CC IX	4	5	6.1 Core Course – CC XIII	4	6
Part.2 English	3	6	Part2 English	3	6	Part2 English	3	6	Part2 English	3	6	5.2 Core Course – CC X	4	5	6.2 Core Course – CC XIV	4	6
1.3 Core Course – CC I	5	5	23 Core Course – CC III	5	5	3.3 Core Course – CC V	5	5	4.3 Core Course – CC VII Core Industry Module	5	5	5. 3.Core Course CC -XI	4	5	6.3 Core Course – CC XV	4	6
1.4 Core Course – CC II	5	5	2.4 Core Course – CC IV	5	5	3.4 Core Course – CC VI	5	5	4.4 Core Course – CC VIII	5	5	5. 4.Core Course –/ Project with viva- voce CC -XII	4	5	6.4 Elective -VII Generic/ Discipline Specific	3	5
1.5 Elective I Generic/ Discipline Specific	3	4	2.5 Elective II Generic/ Discipline Specific	3	4	3.5 Elective III Generic/ Discipline Specific	3	4	4.5 Elective IV Generic/ Discipline Specific	3	3	5.5 Elective V Generic/ Discipline Specific	3	4	6.5 Elective VIII Generic/ Discipline Specific	3	5
1.6 Skill Enhancement Course SEC-1	2	2	2.6 Skill Enhancement Course SEC-2	2	2	3.6 Skill Enhancement Course SEC-4, (Entrepreneurial Skill)	1	1	4.6 Skill Enhancement Course SEC-6	2	2	5.6 Elective VI Generic/ Discipline Specific	3	4	6.6 Extension Activity	1	-
1.7 Skill Enhancement -(Foundation Course)	2	2	2.7 Skill Enhancement Course –SEC- 3	2	2	3.7 Skill Enhancement Course SEC-5	2	2	4.7 Skill Enhancement Course SEC-7	2	2	5.7 Value Education	2	2	6.7 Professional Competency Skill	2	2
						3.8 E.V.S.	-	1	4.8 E.V.S	2	1	5.8 Summer Internship /Industrial Training	2				
	23	30		23	30		22	30		25	30		26	30		21	30

Total – 140 Credits

Choice Based Credit System (CBCS), Learning Outcomes Based Curriculum Framework (LOCF) Guideline Based Credit and Hours Distribution System for all UG courses including Lab Hours

First Year – Semester-I

Part	List of Courses	Credit	No. of
			Hours
Part-1	Language – Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses [in Total]	13	14
	Skill Enhancement Course SEC-1	2	2
Part-4	Foundation Course	2	2
		23	30

Semester-II

Part	List of Courses	Credit	No. of Hours
Part-1	Language – Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	14
Part-4	Skill Enhancement Course -SEC-2	2	2
	Skill Enhancement Course -SEC-3 (Discipline / Subject Specific)	2	2
		23	30

Second Year - Semester-III

Part	List of Courses	Credit	No. of Hours
Part-1	Language - Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	14
Part-4	Skill Enhancement Course -SEC-4 (Entrepreneurial Based)	1	1
	Skill Enhancement Course -SEC-5 (Discipline / Subject Specific)	2	2
	E.V.S	-	1
		22	30

Semester-IV

Part	List of Courses	Credit	No. of Hours
Part-1	Language - Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	13
Part-4	Skill Enhancement Course -SEC-6 (Discipline / Subject Specific)	2	2
	Skill Enhancement Course -SEC-7 (Discipline / Subject Specific)	2	2
	E.V.S	2	1
		25	30

Third Year Semester-V

Part	List of Courses	Credit	No. of Hours
Part-3	Core Courses including Project / Elective Based	22	26
Part-4	Value Education	2	2
	Internship / Industrial Visit / Field Visit	2	2
		26	30

Semester-VI

Part	List of Courses	Credit	No. of Hours
Part-3	Core Courses including Project / Elective Based & LAB	18	28
Part-4	Extension Activity	1	-
	Professional Competency Skill	2	2
		21	30

Consolidated Semester wise and Component wise Credit distribution

Parts	Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Total
							Credits
Part I	3	3	3	3	-	-	12
Part II	3	3	3	3	-	-	12
Part III	13	13	13	13	22	18	92
Part IV	4	4	3	6	4	1	22
Part V	-	-	-	-	-	2	2
Total	23	23	22	25	26	21	140

*Part I. II, and Part III components will be separately taken into account for CGPA calculation and classification for the under graduate programme and the other components. IV, V have to be completed during the duration of the programme as per the norms, to be eligible for obtaining the UG degree.

METHODS OF EVALUATION						
Internal Evaluation	Continuous Internal Assessment Test					
	Assignments / Snap Test / Quiz					
	Seminars					
	Attendance and Class Participation					
External Evaluation	on End Semester Examination					
	Total 100 Marks					
METHODS OF ASSESSMENT						
Remembering (K1)	Remembering (K1) • The lowest level of questions require students to recall					
information from thecourse content						

	 Knowledge questions usually require students to
	identify information in the textbook.
Understanding (K2)	 Understanding of facts and ideas by comprehending
	organizing, comparing, translating, interpolating and
	interpreting in their own words.
	• The questions go beyond simple recall and require
	students to combine datatogether
Application (K3)	 Students have to solve problems by using / applying
	a concept learned in theclassroom.
	• Students must use their knowledge to determine a
	exact response.
Analyze (K4)	Analyzing the question is one that asks the students
	to break down somethinginto its component parts.
	 Analyzing requires students to identify reasons
	causes or motives and reach conclusions or
	generalizations.
Evaluate (K5)	 Evaluation requires an individual to make judgment on
Evaluate (K3)	something.
	• Questions to be asked to judge the value of an idea, a
	character, a work of art, or a solution to a problem.
	• Students are engaged in decision-making and problem
	– solving.
	 Evaluation questions do not have single right answers.
Create (K6)	
Create (Nu)	• The questions of this category challenge students to
	get engaged in creative andoriginal thinking.
	 Developing original ideas and problem solving skills

Highlights of the Revamped Curriculum:

- > Student-centric, meeting the demands of industry & society, incorporating industrial components, hands-on training, skill enhancement modules, industrial project, project with viva-voce, exposure to entrepreneurial skills, training for competitive examinations, sustaining the quality of the core components and incorporating application oriented content wherever required.
- ➤ The Core subjects include latest developments in the education and scientific front, advanced programming packages allied with the discipline topics, practical training, devising statistical models and algorithms for providing solutions to industry / real life situations. The curriculum also facilitates peer learning with advanced statistical topics in the final semester, catering to the needs of stakeholders with research aptitude.
- ➤ The General Studies and Statistics based problem solving skills are included as mandatory components in the "Training for Competitive Examinations" course at the final semester, a first of its kind.
- ➤ The curriculum is designed so as to strengthen the Industry-Academia interface and provide more job opportunities for the students.
- ➤ The Statistical Quality Control course is included to expose the students to real life problems and train the students on designing a mathematical model to provide solutions to the industrial problems.
- ➤ The Internship during the second year vacation will help the students gain valuable work experience, that connects classroom knowledge to real world experience and to narrow down and focus on the career path.
- ➤ Project with viva-voce component in the fifth semester enables the student, application of conceptual knowledge to practical situations. The state of art technologies in conducting a Explain in a scientific and systematic way and arriving at a precise solution is ensured. Such innovative provisions of the industrial training, project and internships will give students an edge over the counterparts in the job market.
- State-of Art techniques from the streams of multi-disciplinary, cross disciplinary and inter disciplinary nature are incorporated as Elective courses, covering conventional topics to the latest DBMS and Computer software for Analytics.

Value additions in the Revamped Curriculum:

Semester	Newly introduced	Ou	tcome / Benefits
	Components		
I	Foundation Course	•	Instil confidence among students
	To ease the transition of	•	Create interest for the subject
	learning from higher		
	secondary to higher		
	education, providing an		
	overview of the		
	pedagogy of learning		
	abstract Statistics and		
	simulating mathematical		
	concepts to real world.		
I, II, III,	Skill Enhancement	•	Industry ready graduates
IV	papers (Discipline	•	Skilled human resource
	centric / Generic /	•	Students are equipped with essential skills to make
	Entrepreneurial)		them employable
		•	Training on Computing / Computational skills
			enable the students gain knowledge and exposure
			on latest computational aspects
		•	Data analytical skills will enable students gain
			internships, apprenticeships, field work involving
			data collection, compilation, analysis etc.
		•	Entrepreneurial skill training will provide an
			opportunity for independent livelihood
		•	Generates self – employment
		•	Create small scale entrepreneurs
			Training to girls leads to women empowerment
		•	Discipline centric skill will improve the Technical knowhow of solving real life problems using ICT
			tools
III, IV, V	Elective papers-	•	Strengthening the domain knowledge
& VI	An open choice of topics		
X 11	categorized under	•	Introducing the stakeholders to the State-of Art techniques from the streams of multi-disciplinary,
	Generic and Discipline		
	Centric and Discipline		cross disciplinary and inter disciplinary nature Students are expected to Letest topics on Computer
	Contro	•	Students are exposed to Latest topics on Computer
			Science / IT, that require strong statistical
			background
		•	Emerging topics in higher education / industry /
			communication network / health sector etc. are
			introduced with hands-on-training, facilitates
			designing of statistical models in the respective

			sectors
IV	DBMS and Programming skill, Biostatistics, Statistical Quality Control, Official Statistics, Operations Research	•	Exposure to industry moulds students into solution providers Generates Industry ready graduates Employment opportunities enhanced
II year Vacation activity	Internship / Industrial Training	•	Practical training at the Industry/ Banking Sector / Private/ Public sector organizations / Educational institutions, enable the students gain professional experience and also become responsible citizens.
V Semester	Project with Viva – voce	•	Self-learning is enhanced Application of the concept to real situation is conceived resulting in tangible outcome
VI Semester	Introduction of Professional Competency component	•	Curriculum design accommodates all category of learners; "Statistics for Advanced Explain" component will comprise of advanced topics in Statistics and allied fields, for those in the peer group / aspiring researchers; "Training for Competitive Examinations" –caters to the needs of the aspirants towards most sought - after services of the nation viz, UPSC, ISS, CDS, NDA, Banking Services, CAT, TNPSC group services, etc.
Extra Credits: For Advanced Learners / Honors degree		•	To cater to the needs of peer learners / research aspirants

Skills acquired from	Knowledge, Problem Solving, Analytical ability, Professional
the Courses	Competency, Professional Communication and Transferrable Skill

B.COM COMPUTER APPLICATION

Part	Course Code	Title of the Course	Credits	Hours
		FIRST YEAR		
		FIRST SEMESTER		
Part I		Language – Tamil	3	6
Part II		English	3	6
Part III		Core Paper I – Financial Accounting I	5	5
Part III		Core Paper II - Principles of Management	5	5
Dout III		Elective I - Programming in C and Lab	2	4
Part III		Elective I - Python Programming and Lab	3	4
Part IV		Skill Enhancement Course SEC – 1 – NME (Business Organisation)	2	2
Tartiv		Foundation Course FC (Elements of Industry 4.0)	2	2
		TOTAL	23	30
		SECOND SEMESTER		
Part I		Language – Tamil	3	6
Part II		English	3	4
Part II	NMSDC	Language Proficiency for employability- Overview of English Communication	2	2
Part III		Core Paper III – Financial Accounting II	5	5
Part III		Core Paper IV-Business Law	5	5
Part III		Elective II - Office Automation and Lab	3	4
raitiii		Elective II - Programming in C++ and Lab	3	4
Part IV		Skill Enhance Course SEC – 2 – NME (Advertising)	2	2
rattiv		Skill Enhancement Course – SEC 3 (Industrial Law)	2	2
		TOTAL	25	30
		SECOND YEAR		
		THIRD SEMESTER		
Part I		Language – Tamil	3	6
Part II		English	3	6
Part III		Core Paper V- Corporate Accounting I	5	5
Part III		Core Paper VI – Business Mathematics and Statistics	4	4

Part	Course Code	Title of the Course	Credits	Hours
Part IV		Elective III – Programming in JAVA and Lab Elective III – Web Technology(PHP) and Lab	3	4
Ture		NMSDC-Digital Skills for Employability-Digital Skills	2	2
Part IV		Skill Enhancement Course – SEC 5 (Capital Markets)	2	2
		Environmental Studies		1
		TOTAL	22	30
	1	FOURTH SEMESTER	1	
Part I		Language – Tamil	3	6
Part II		English	3	6
Part III		Core Paper VII-Corporate Accounting II	5	5
Part III		Core Paper VIII-Company Law	5	5
Part III		Elective IV– Relational Database Management System		
		Elective IV- Introduction to Data Science	3	3
		Skill Enhancement Course SEC – 6 (Service Marketing)	2	2
Part IV		Skill Enhancement Course – SEC 7 (Commerce Practical)	2	2
		Environmental Studies	2	1
		TOTAL	25	30
	Second year V	acation Internship -45 hours	-	
		THIRD YEAR		
		FIFTH SEMESTER		
Part III		Core Paper IX –Cost Accounting I	4	5
Part III		Core Paper X - Banking Law and Practice	4	5
Part III		Core Paper XI – Income Tax Law and Practice I	4	5
Part III		Core Paper XII – Project Viva voce / Auditing and Corporate Governance	4	5
Part III		Discipline Specific Elective 1/2 - Financial Management / 2/2 - Indirect Taxation	3	4

Part	Course Code	Title of the Course	Credits	Hours
		Discipline Specific Elective 3/4 – Software Engineering+(UML Lab)/4/4Object oriented Analysis and Design+(UML Lab)	3	4
Part IV		Value Education	2	2
		Summer Internship / Industrial Training	2	-
		TOTAL	26	30
		SIXTH SEMESTER		
Part III		Core Paper XIII – Cost Accounting - II	4	6
Part III		Core Paper XIV-Management Accounting	4	6
Part III		Core Paper XV- Income Tax Law and Practice II	4	6
Part III		Discipline Specific Elective %- Entrepreneurial Development / 6/6-Human Resource Management	3	5
		Discipline Specific Elective 7/8- R Language/ 8/8 –Practical Tally	3	5
		General awareness for Competitive Examination	2	2
Part V		Extension Activity	1	-
		TOTAL	21	30
		GRAND TOTAL	140	180

^{*} Practical courses be implemented for Elective I.II.III and Discipline Specific Elective $\frac{3}{4}$ and $\frac{4}{4}$ related to computer as per the syllabus provided by TANSCHE for B.Com (CA) programme.

FIRST YEAR – SEMESTER – I

CORE - I: FINANCIAL ACCOUNTING I

Subject						Inst.		Marl	76				
Code	L	\mathbf{T}	P	S	Credits	Hours	CIA	Exte		Total			
Couc	5				5	5	25	7:		100			
<u> </u>				т.	1		20	, ,					
T 01		1 .	1.1 1		earning Obj		. 1 1						
LO1					counting con								
LO2					ulating busin								
LO3					counting treat								
LO4	To learn the methods of calculating profit for single entry system. To gain knowledge on the accounting treatment of insurance cla												
LO5								ciaims	•				
	isites: S	snouia	nave s	tuaiea	d Accountan	cy in XII S	<u>sta</u>		.				
Unit					Contents				No.				
	- I		1 65						Hou	irs			
					al Accountin	_	M- ! 4 !	D '					
				_	Meaning, De		•						
I					and Conven					15			
					oks — Trial								
					of Errors –	-		-					
		Accoui		COHCIII	ation Stateme	ent - Need	and Prepar	auon					
				Colo 7	Frading Con	orn Conit	tal and Day	vonuo					
II					Trading Cond s – Preparati					15			
					S – Preparau Sheet with A			t and					
					Exchange	Aujustinent	.5.						
	-				Objectives	_ Accounti	ing Treatme	ente -					
					ethod – Dimi								
	• •	rsion n	_		tilod Dilli	illishing De	mance men	100					
III					od – Cost Mo	del vs Reva	aluation			15			
	Units of Production Method – Cost Model vs Revaluation Bills of Exchange – Definition – Specimens – Discounting of Bills – Endorsement of Bill – Collection – Noting – Renewal –												
		ment of				1011 11011	ng nene	***************************************					
					olete Records	s – Single l	Entry Syste	em					
					aning and Fe								
TT 7					plete Record					4 =			
IV					of Profit - St					15			
	– Prep	aration	of fina	ıl state	ments by Co	nversion m	ethod.						
	•				•								
	Royal	ty and	Insura	nce C	laims								
	Meani	ng – N	Minimu	ım Re	nt – Short V	Working -	Recoupme	ent of					
V	Short	Worki	ng – I	Lessor	and Lessee	- Subleas	e – Accou	ınting		15			
V	Treatn	nent.								15			
					lation of Cla	im Amoun	t-Average c	lause					
	(Loss	of Stoc	k only)										
				T	OTAL					75			

THEOR	RY 20% & PROBLEM 80%
CO	Course Outcomes
CO1	Remember the concept of rectification of errors and Bank reconciliation statements
CO2	Apply the knowledge in preparing detailed accounts of sole trading concerns
CO3	Analyse the various methods of providing depreciation
CO4	Evaluate the methods of calculation of profit
CO5	Determine the royalty accounting treatment and claims from insurance companies in case of loss of stock.
	Textbooks
1.	S. P. Jain and K. L. Narang Financial Accounting- I, Kalyani Publishers, New Delhi.
2.	S.N. Maheshwari, Financial Accounting, Vikas Publications, Noida.
3.	Shukla Grewal and Gupta, "Advanced Accounts", volume 1, S.Chand and Sons, New Delhi.
4.	Radhaswamy and R.L. Gupta: Advanced Accounting, Sultan Chand, New Delhi.
5.	R.L. Gupta and V.K. Gupta, "Financial Accounting", Sultan Chand, New Delhi.
	Reference Books
1.	Dr. Arulanandan and Raman: Advanced Accountancy, Himalaya Publications, Mumbai.
2.	Tulsian, Advanced Accounting, Tata McGraw Hills, Noida.
3.	Charumathi and Vinayagam, Financial Accounting, S.Chand and Sons, New Delhi.
4.	Goyal and Tiwari, Financial Accounting, Taxmann Publications, New Delhi.
5.	Robert N Anthony, David Hawkins, Kenneth A. Merchant, Accounting: Text and Cases. McGraw-Hill Education, Noida.
NOTE:	Latest Edition of Textbooks May be Used
	Web Resources
1.	https://www.slideshare.net/mcsharma1/accounting-for-depreciation-1
2.	https://www.slideshare.net/ramusakha/basics-of-financial-accounting
3.	https://www.accountingtools.com/articles/what-is-a-single-entry-system.html

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

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

3 – Strong, 2- Medium, 1- Low

<u>FIRST YEAR – SEMESTER – I</u> CORE – II: PRINCIPLES OF MANAGEMENT

Subject	: _					Inst.		Marks	
Code		T	P	S	Credits	Hours	CIA	External	Total
	5				4	5	25	75	100
		·			Learning O	bjectives		<u> </u>	
LO1	To unc	lerstan	d the b	asic ma	anagement co	oncepts and	l functions		
LO2					iques of plan			king	
LO3					cepts of orga			<u> </u>	
LO4					he various co				
LO5								s of manager	nent
Prerequ	isites: S	hould	have s	tudied	Commerce	in XII Std]		
Unit					Conter	nts			No. of Hours
I	Meaning Import or Art Fayol, Peter I Challe	ance - -Evol	finition Manag lution kker, E of Mar	ns — N gement of Ma lton M	Nature and S t Vs. Admin nagement T ayo - Functi	istration – houghts – ons of Mar	Managem F. W. Tagnagement -	ent: Science ylor, Henry Trends and Duties &	15
II	Planni Planni Import Tools Decisi	ing ng – N ance a and Te	Meaning Electrical Control of the Co	ements les of I Jeaning	of Planning Planning – M	g – Types Ianagemen	 Planning t by Object 	Functions – g Process - tive (MBO).	15
III	Organ Meani - Typo Organi Author	n izing ng - De es - Fe ization	efinitio ormal Struc d Resp	ns - Na and In ture: I	formal Orga Meaning and	nnization – d Types -	Organizat Departme	Importance ion Chart – entalization–tralization –	15
IV	Staffir Introdu Source Proced Manag 360 de	ng uction es of I lure – gement	- Cond Recruit Test- Games Perform	cept of ment - Intervi s – Per nance	– Modern F iew– Trainir formance Ap	Recruitment ng: Need - ppraisal - M	Methods Types— I Ieaning and	ecruitment – - Selection Promotion – d Methods – - Managing	15

Directing Motivation – Meaning - Theories – Communication – Types - Barriers to Communications – Measures to Overcome the Barriers. Leadership – Nature - Types and Theories of Leadership – Styles of Leadership - Qualities of a Good Leader – Successful Women Leaders – Challenges faced by women in workforce - Supervision. Co-ordination and Control Co-ordination – Meaning - Techniques of Co-ordination. Control - Characteristics - Importance – Stages in the Control Process - Requisites of Effective Control and Controlling Techniques – Management by Exception [MBE].	15
Total Course Outcomes	75
CO1 Demonstrate the importance of principles of management.	
CO2 Paraphrase the importance of planning and decision making in an organization	on.
CO3 Comprehend the concept of various authorizes and responsibilities of an organization.	
CO4 Enumerate the various methods of Performance appraisal	
CO5 Demonstrate the notion of directing, co-coordination and control in the management.	
Textbooks	
Gupta.C.B, -Principles of Management-L.M. Prasad, S.Chand& Sons Co. Lt Delhi.	
DinkarPagare, Principles of Management, Sultan Chand & Sons Publication Delhi.	s, New
P.C.Tripathi& P.N Reddy, Principles of Management. Tata McGraw, Hill, N	loida.
4 L.M. Prasad, Principles of Management, S.Chand&Sons Co. Ltd, New Delh	i
R.K. Sharma, Shashi K. Gupta, Rahul Sharma, Business Management, Kalya Publications, New Delhi.	ani
Reference Books	
1 K Sundhar, Principles Of Management, Vijay Nichole Imprints Limited, Cho	ennai
2 Harold Koontz, Heinz Weirich, Essentials of Management, McGraw Hill, Su Chand and Sons, New Delhi.	ıltan
3 Grifffin, Management principles and applications, Cengage learning, India.	
4 H.Mintzberg - The Nature of Managerial Work, Harper & Row, New York.	
Eccles, R. G. & Nohria, N. Beyond the Hype: Rediscovering the Essence of Management. Boston The Harvard Business School Press, India.	
NOTE: Latest Edition of Textbooks May be Used	

	Web Resources
1	http://www.universityofcalicut.info/sy1/management
2	https://www.managementstudyguide.com/manpower-planning.htm
3	https://www.businessmanagementideas.com/notes/management- notes/coordination/coordination/21392

MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3
CO1	3	2	2	3	3	2	2	2	3	2	3
CO2	3	2	3	3	2	2	2	2	3	2	2
CO3	3	2	2	3	2	2	2	1	3	2	2
CO4	3	2	2	3	2	2	2	2	3	2	2
CO5	3	2	3	3	2	2	2	1	3	2	2
TOTAL	15	10	12	15	11	10	10	8	15	10	11
AVERAGE	3	2	2.4	3	2.2	2	2	1.6	3	2	2.2

3 – Strong, 2- Medium, 1- Low

<u>FIRST YEAR – SEMESTER – I</u> <u>ELECTIVE - I: PROGRAMMING IN C AND LAB</u>

Subject	L	Т	P	S	Credits	Inst.		Mar	ks	
Code	L	1	Г	3	Credits	Hours	CIA	Exte	rnal	Total
	2		2		3	4	25	7	5	100
				L	earning Obj	ectives				
LO1	Descri	be the	core sy	ntax a	nd semantics	of C progr	amming la	inguag	e.	
LO2	Discov	er the	need fo	or worl	king with the	strings and	d functions			
LO3	Illustra	ate the	process	s of str	ructuring the	data using	matrix, stru	uct.		
Prerequ	isites: S	Should	have s	tudied	l Commerce	in XII Sto	ł			
Unit					Contents				No.	
									Hou	rs
					ge:C Langua	_				
I					over other la					
	directi		t Plog.	iaiii iii	CPre-proce	ssoi ili Cr	rie-process	OI		
			ata Tvi	nes &	Operators:V	ariables ar	nd Kevwor	ds in		
II				-	Types in C-O		•	G 5 III		
	Typeca				71	L	J 1			
	Contro	ol Flov	v Stat	ements	s:Decision N	Making Sta	atements-S	witch		
III					& Control St	ructure Pra	ctice prob	lems-		
					k Statement n C:Arrays i	n C-Strings	in C			
					in C-String f			e		
	proble						0 1100010			
IV					rototype-Par		_	-		
		_		es in C	C-Recursion	Concept -F	functions is	n		
	CPract			1.7	T. D.			T .		
		,			Unions:Point) in C- Poi					
V			•		rting, Matrix		•			
	mark l	-	-		rung, wum	mampaia	tions, stad	ient s		
		1 1		,	Total					
				(Course Outo	omes			<u> </u>	
CO1	Apply	the co	ncept o	f Cont	rol Structure	s to solve a	ny given p	roblen	1.	
CO2			-	_	e and multi-		-	solve p	oroble	ms
					g and matrix					
CO3					gs for writin					ray.
CO4	Write	prograi	ms usir	ng cond	cept of user of	lefined and	recursive	functio	ns.	
CO5	Apply	concep	ot of sti	ructure	es to write pro	ograms.				

	Textbooks
1	E. Balaguruswamy, "Programming in ANSI C", 8th Edition, 2019, McGraw Hill Education, ISBN:978-93-5316-513-0.
2	Pradip Dey, Manas Ghosh, "Programming in C", 2nd Edition, 2018, Oxford University Press, ISBN: 978-01-9949-147-6.
3	Kernighan B.W and Dennis M. Ritchie, "The C Programming Language", 2nd Edition, 2015, Pearson Education India, ISBN: 978-93-3254-944-9.
	Reference Books
1	Yashavant P. Kanetkar, "Let Us C", 16th Edition, 2019, BPB Publications, ISBN: 978- 93-8728-449-4.
2	Jacqueline A Jones and Keith Harrow, "Problem Solving with C", Pearson Education. ISBN: 978-93-325-3800-9.
3	Dr. Guruprasad Nagraj, "C Programming for Problem Solving", Himalaya Publishing House. ISBN-978-93-5299-361-1.

Web Resources	
1	http://elearning.vtu.ac.in/econtent/courses/video/BS/14CPL16.html
2	https://nptel.ac.in/courses/106/105/106105171/

FIRST YEAR – SEMESTER – I

C Programming Lab

Learning Objectives: (for teachers: what they have to do in the class/lab/field)

- Understand problem statements and identify appropriate solutions.
- Demonstrate the use of IDE and C Compiler.
- Develop programs using C Programming Language.

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

CO1: Apply the concept of Control Structures to solve any given problem.

CO2: Apply the concept of single and multi-dimensional arrays to solve problems related to searching, sorting and matrix operations.

CO3: Apply the concept of Strings for writing programs related to character array.

CO4: Write programs using concept of user defined and recursive functions.

CO5: Apply concept of structures to write programs.

List of Programs

- 1. Write a C program to find roots of a Quadratic equation.
- 2. Write a C program to find the total no. of digits and the sum of individual digits of a positive integer.
- 3. Write a C program to generate the Fibonacci sequence of first N numbers.
- 4. Write a C program to sum the series $S=1-x+(x^2/2!)-(x^3/3!)+\cdots-(x^n/n!)$
- 5. Write a C program to arrange the elements of an integer array using Bubble Sort algorithm.
- 6. Write a C program to input two matrices and perform matrix multiplication on them
- 7. Write a C program to check whether the given string is palindrome or not without using Library functions.
- 8. Write a C program to count the number of lines, words and characters in a given text.
- 9. Write a C program to generate Prime numbers in a given range using user defined function.
- 10. Write a C program to find factorial of a given number using recursive function.
- 11. Write a C program to maintain a record of n student details using an array of structures with four fields Roll number, Name, Marks and Grade. Calculate the Grade according to the following conditions.

Marks Grade

>=80 A

>=60 B

 $>=50 \, \mathrm{C}$

>=40 D

<40 E

Print the details of the student, given the student Roll number as input.

Extended Professional Component	Questions related to the above topics, from various competitive examinations UPSC / TRB / NET / UGC –CSIR / GATE / TNPSC / others to be solved (To be discussed during the Tutorial hour)
Skills acquired from the course	Knowledge, Problem Solving, Analytical ability, Professional Competency, Professional Communication and Transferrable Skill

Text Books:

E. Balaguruswamy, "Programming in ANSI C", 8th Edition, 2019, McGraw Hill Education, ISBN:978-93-5316-513-0.

Reference Books:

- 1. Pradip Dey, Manas Ghosh, "Programming in C", 2nd Edition, 2018, Oxford University Press, ISBN: 978-01-9949-147-6.
- 2. Kernighan B.W and Dennis M. Ritchie, "The C Programming Language", 2nd Edition, 2015, Pearson Education India, ISBN: 978-93-3254-944-9.
- 3. Yashavant P. Kanetkar, "Let Us C", 16th Edition, 2019, BPB Publications, ISBN: 978-93-8728-449-4.
- 4. Jacqueline A Jones and Keith Harrow, "Problem Solving with C", Pearson Education. ISBN: 978-93-325-3800-9.
- 5. Dr. Guruprasad Nagraj, "C Programming for Problem Solving", Himalaya Publishing House. ISBN-978-93-5299-361-1.

Weblinks and Video Lectures (e-Resources):

- 1. http://elearning.vtu.ac.in/econtent/courses/video/BS/14CPL16.html
- 2. https://nptel.ac.in/courses/106/105/106105171/

FIRST YEAR – SEMESTER - I

ELECTIVE - I: PYTHON PROGRAMMING AND LAB

Subject	L	T	P	S	Credits	Inst.		Mar	ks	
Code	L	1	Г	3	Credits	Hours	CIA	Exte	ernal	Total
	2		2		3	4	25	7	5	100
	Learning Objectives									
LO1	LO1 Describe the core syntax and semantics of Python programming language.									
LO2	LO2 Discover the need for working with the strings and functions.									
LO3	LO3 Illustrate the process of structuring the data using lists, dictionaries, tuples and									s and
	sets.									
	LO4 Understand the usage of packages and Dictionaries									
	sites: S	Should	have s	tudied	Commerce	in XII Sto	1		N .T	•
Unit					Contents				No.	
	Introd	notion	Comm	utor old	gorithms-Cor	прикат Цат	dware		Hou	ITS
-					n programmi			_		
I				•	Operators - I		•			
	<u> </u>	Input /								
					an Expression Python-					
***					n Python- Statement- I		•			
II					n Flag. Str		-			
		ulation		Build	_		of py	thon		
					nd using rang		. 14			
			_		tines- Defin e-Returning	_				
III			_		ns- Parame		_			
	Argun	nents in	n Pyth	on - I	Default Argu		•			
					ve Functions	T 1 0				
IV	•				ware Objects : Modules -		-			
11		ı Modu		Desigi	i. Modules -	- Top-Dow	vii Desigii	-		
	Diction	naries a	and Se		tionary type	•		. .		
V			pening	g, read	ing and writ	ing text fi	les – Exce	ption		
	Handli	ıng			Total					
				•	Course Outc	omes				
CO1	Develo	p and e	xecute		Python progra					
CO2					ns using condi		looning for s	solvino	proble	ems
CO2					n into function			, , , , , , , , , , , , , , , , , , ,	, proon	
CO4					ing Python list		ctionaries et	·c		
CO4	Ropros		Pound	ann us.				. . .		
					Textbook	XS				

1	Charles Dierbach, "Introduction to Computer Science using Python - A								
1	computational Problem-solving Focus", Wiley India Edition, 2015.								
2	Wesley J. Chun, "Core Python Applications Programming", 3rd Edition,								
2	Pearson Education, 2016								
3	Mark Lutz, "Learning Python Powerful Object Oriented Programming",								
3	O"reilly Media 2018, 5th Edition.								
	Reference Books								
1	Timothy A. Budd, "Exploring Python", Tata MCGraw Hill Education Private								
1	Limited 2011, 1 st Edition.								
	John Zelle, "Python Programming: An Introduction to Computer Science",								
2	Second edition, Course Technology Cengage Learning Publications, 2013,								
	ISBN 978- 1590282410								
	Michel Dawson, "Python Programming for Absolute Beginers", Third Edition,								
3	Course Technology Cengage Learning Publications, 2013, ISBN 978-								
	1435455009								
NOTE:	NOTE: Latest Edition of Textbooks May be Used								
	Web Resources								
1	https://onlinecourses.swayam2.ac.in/cec22_cs20/preview								

Python Programming Lab

Learning Objectives: (for teachers: what they have to do in the class/lab/field)

- Acquire programming skills in core Python.
- Acquire Object-oriented programming skills in Python.
- Develop the skill of designing graphical-user interfaces (GUI) in Python.
- Develop the ability to write database applications in Python.
- Acquire Python programming skills to move into specific branches

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

CO1: To understand the problem solving approaches

CO2: To learn the basic programming constructs in Python

CO3: To practice various computing strategies for Python-based solutions to real world problems

CO4: To use Python data structures - lists, tuples, dictionaries.

List of Programs

- 1. Program to convert the given temperature from Fahrenheit to Celsius and vice versa depending upon user"s choice.
- 2. Write a Python program to construct the following pattern, using a nested loop

**

*

3. Program to calculate total marks, percentage and grade of a student. Marks obtained in each of the five subjects are to be input by user. Assign grades according to the following criteria:

Grade A: Percentage >=80 Grade B: Percentage >=70 and 80

Grade C: Percentage >=60 and <70 Grade D: Percentage >=40 and <60

Grade E: Percentage < 40

- 4. Program, to find the area of rectangle, square, circle and triangle by accepting suitable input parameters from user.
- 5. Write a Python script that prints prime numbers less than 20.
- 6. Program to find factorial of the given number using recursive function.
- 7. Write a Python program to count the number of even and odd numbers from array of N numbers.
- 8. Write a Python class to reverse a string word by word.
- 9. Read a file content and copy only the contents at odd lines into a new file.
- 10. Create a Turtle graphics window with specific size.

Extended Professional Component	Questions related to the above topics, from various competitive examinations UPSC / TRB / NET / UGC –CSIR / GATE / TNPSC / others to be solved (To be discussed during the Tutorial hour)
Skills acquired from the course	Knowledge, Problem Solving, Analytical ability, Professional Competency, Professional Communication and Transferrable Skill

Learning Resources:

• Recommended Texts

- 1. Charles Dierbach, "Introduction to Computer Science using Python A computational Problem-solving Focus", Wiley India Edition, 2015.
- 2. Wesley J. Chun, "Core Python Applications Programming", 3rd Edition , Pearson Education, 2016

• Reference Books

- 1. Mark Lutz, "Learning Python Powerful Object Oriented Programming", O"reilly Media 2018, 5th Edition.
- 2. Timothy A. Budd, "Exploring Python", Tata MCGraw Hill Education Private Limited 2011, 1 st Edition.
- 3. John Zelle, "Python Programming: An Introduction to Computer Science", Second edition, Course Technology Cengage Learning Publications, 2013, ISBN 978-1590282410
- 4. Michel Dawson, "Python Programming for Absolute Beginers", Third Edition, Course Technology Cengage Learning Publications, 2013, ISBN 978-1435455009

$\underline{\mathbf{FIRST\ YEAR} - \mathbf{SEMESTER} - \mathbf{I}}$

SEC 1 – Non Major Elective - BUSINESS ORGANIZATION

Subject Co	al a	L	Т	P	S	Credits	Inst.		Mark	S	
Subject Co	ae	L	ı	P	٥	Creatis	Hours	CIA	Extern	al Total	
		1				1	2	25	75	100	
	Learning Objectives										
LO1	Un eth		and bus	siness,	prof	ession, organiz	cation, social	l responsi	bilities, a	nd business	
LO2	Explore business forms, distinguish public and private sectors.										
LO3	Co	Comprehend industry location factors, analyze large-scale operation advantages.									
LO4	Far	miliari	ize wit	h stoc	k excl	hanges, underst	and business	combinati	ons.		
LO5	Un	dersta	ınd trad	de asso	ociatio	ons and chambe	ers of comme	rce in Indi	a.		
Unit						Contents				No. of Hours	
I	bus			_		pes - Profession cial Responsibi	_	_		10	
II	fan	nily - j	joint st	tock co	ompai	ation - sole trac nies - co-operat blic Sector vs. l	ive societies	- public ut		15	
III	ind lim	lustry nitatic	- opti	mum mall s	firm	ctors influence - advantages of operation - inc	of large - sca	ale operat		15	
IV	Sto	ck Ex	chang	e - Fu ndia -	Busin	a - Types - Wor less Combination				10	
V			sociati in Ind		Cham	ber of comme	rce - Function	ons - Obje	ectives -	10	
						TOTAL				60	
						Course Outco					
CO1	eth	ical co	onside	rations	s in bu	s, evaluate busi isiness.					
CO2	and	d disac	dvanta	ges		s organizations,					
CO3	ass	sess ir	ıdustr	ial est	ates a	n factors, evalu and district inc	lustries cent	ers.			
CO4			stock o			ınctions and re	egulation, an	alyze busi	iness com	ibinations'	
CO5						and chambers on the control of the c				tives,	

	Textbooks							
	Business organisation and management, Publisher: P. Allan (January 1, 1978)							
Reference Books								
1	Y.K.Bhushan, Business organization, Sultan Chand, New Delhi.							
2	Prakash&Jagedesh, Business organization & Management.							
3	Reddy &Gulshar, Principles of Business Organization & Management							
4.	Vasudevan&Radhasivam, Business Organization.							
NOTE: I	atest Edition of Textbooks May be Used							
	Web Resources							
1	https://www.vedantu.com/commerce/forms-of-business-organizations							
2	https://ncert.nic.in/textbook/pdf/kebs102.pdf							
3	https://www.teachmint.com/tfile/studymaterial/b-com/BusinessOrganization/Chapter1/46db05e8-ee83-497e-aa56-573a1388f80e							

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	3	2	3	2	3	3	3	2	2
CO2	3	2	2	3	2	2	2	2	3	2	3
CO3	3	3	3	2	3	2	3	3	3	2	2
CO4	3	3	3	2	2	2	2	2	3	2	2
CO5	3	3	3	3	3	2	3	3	3	2	3
TOTAL	15	14	14	12	13	10	13	13	15	10	12
AVERAGE	3	2.8	2.8	2.4	2.6	2	2.6	2.6	3	2	2.4

3 – Strong, 2- Medium, 1- Low

$\underline{\mathbf{FIRST\ YEAR} - \mathbf{SEMESTER} - \mathbf{I}}$

FOUNDATION COURSE - ELEMENTS OF INDUSTRY 4.0

Subject Co.	do	L	Т	P	S	Credits	Inst.		Mark	S
Subject Co	ue	L	1	Г	3	Credits	Hours	CIA	Extern	al Total
		1				1	2	25	75	100
	Learning Objectives									
LO1	Lea	arn th	e esse	ntials	of In	dustry 4.0				
LO2	LO2 Understand the need and applications of Artificial Intelligence									
LO3	Set a base for big data and Internet of Things									
LO4	Far	miliar	ize the	e appl	icatio	ons and tools of	f Industry4.0)		
LO5	Tra	ain on	the sl	kills re	equir	ed by industrie	es			
		Prer	equisi	ites: S	Shoul	d have studie	d Commer	ce in XII	Std	
Unit						Contents				No. of Hours
I	In	dustr		ning-	types	r y4.0 s. Industrial Re chnologies of I		dustrial		10
II	Ar	tificia		lligen	ce: H	listory of AI - es of AI	Foundations	s of AI -T	he AI	10
III	Big	-	: Mea	_		ntials of Big Da		-	_	15
IV	Into	ernet Ianuf	of The	ings (ng – H	IoT) Iealth	: Introduction ncare – Educat Transportation	to IoT – Ap ion – Aeros	plications pace and	s of IoT	15
V	Im	pact of		ustry	4.0 oı	n Society, Bus aligning Educ				10
										60
	•				(Course Outco	mes			
CO1	De	fine a	nd exp	olain t	he te	chnologies of i	ndustry 4.0			
CO2	An	alyze	and a	pply A	I in t	the relevant se	ctor			
CO3	Sui	mmar	ize th	e char	acter	istics of big da	ta			
CO4	Ap	ply th	e tool	s of In	dusti	ry 4.0				
CO5	Ad	apt to	the c	hangi	ng ne	eds of the indu	ıstry			

	T4bb-
	Textbooks
	1.Seema Acharya J, Subhashini Chellappan, (2019) "Big Data and Analytics", 2 nd Edition, Wiley Publication, New Delhi.
1	2.Russel S, Norvig P (2010), "Artificial Intelligence: A Modern approach", 3 rd Edition, Prentice Hall, New York.
	3. Pethuru Raj and Anupama C. Raman, (2017), "The Internet of Things:
	Enabling Technologies, Platforms, and Use Cases", Auerbach Publications
	Reference Books
	Judith Hurwitz, Alan Nugent, Fern Halper, Marcia Kaufman, "Big Data for
1	Dummies", John Wiley & Sons, Inc.
	Nilsson (2000), Artificial Intelligence: A new synthesis, Nils J Harcourt Asia
2	PTE Ltd.
NOTE: La	test Edition of Textbooks May be Used
	Web Resources
1	https://sist.sathyabama.ac.in/sist_coursematerial/uploads/SEEA1403.pdf
	https://library.oapen.org/bitstream/handle/20.500.12657/43836/extern
2	al_content.pdf? sequence=1
	https://www.vssut.ac.in/lecture_notes/lecture1428643004.pdf
3	nttps://www.vssut.ac.m/recture_notes/recture1428045004.pdf

	PO1	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	2	3	2	3	3	3	2	2
CO2	3	2	3	2	2	2	2	3	2	3
CO3	3	3	3	3	2	3	3	3	2	2
CO4	2	2	2	2	2	2	2	3	2	2
CO5	3	3	3	3	2	3	3	3	2	3
TOTAL	14	13	13	13	10	13	13	15	10	12
AVERAGE	2.8	2.6	2.6	2.6	2	2.6	2.6	3	2	2.4

3 – Strong, 2- Medium, 1- Low

FIRST YEAR – SEMESTER - II

CORE - III: FINANCIAL ACCOUNTING-II

Dubje	ct L T P S Credits Inst. Ma						Ma	arks		
Code	!	1	r	3		Hours	CIA		ternal	Total
	5				4	5	25		75	100
				L	earning Obj	ectives				
LO1	LO1 The students are able to prepare different kinds of accounts such Higher purchase and Instalments System.									
LO2					n of expense		partmental	accou	ints	
LO3	To gain an understanding about partnership accounts relating to Admission and retirement									
LO4	Provides knowledge to the learners regarding Partnership Accounts relating to dissolution of firm									
LO5	To kno	ow the r	equire	nents	of internation	al account	ing standar	ds		
Prerequ	uisites:	Should	have s	tudied	d Accountan	cy in XII S	Std			
Unit					Contents				No. of Hour	
I	Hire Purchase and Instalment System Hire Purchase System – Accounting Treatment – Calculation o Interest - Default and Repossession - Hire Purchase Trading Account - Instalment System - Calculation of Profit								-	15
II	Branch and Departmental Accounts Branch — Dependent Branches: Accounting Aspects - Debtors system - Stock and Debtors system — Distinction between Wholesale Profit and Retail Profit — Independent Branches (Foreign Branches excluded) - Departmental Accounts: Basis of Allocation of Expenses — Inter- Departmental Transfer at Cost or Selling Price.								15	
III	Partne Goody	vill - C	ccount Calculat	s: –Ad tion of	dmission of a find the Hidden Go r.				-	15
IV	Partner – Death of a Partner. Partnership Accounts - II Dissolution of Partnership - Methods – Settlement of Accounts Regarding Losses and Assets – Realization account – Treatment of Goodwill – Preparation of Balance Sheet - One or more Partners insolvent – All Partners insolvent – Application of Garner Vs Murray Theory – Accounting Treatment - Piecemeal Distribution – Surplus Capital Method – Maximum Loss Method								-	15
V	Object Accou India Role of Plan in	Method. Accounting Standards for financial reporting (Theory only) Objectives and Uses of Financial Statements for Users-Role of Accounting Standards - Development of Accounting Standards in								

THEORY 20% & PROBLEMS 80%									
	Course Outcomes								
CO1	To evaluate the Hire purchase accounts and Instalment systems								
CO2	To prepare Branch accounts and Departmental Accounts								
CO3	To understand the accounting treatment for admission and retirement in partnership								
CO4	To know Settlement of accounts at the time of dissolution of a firm.								
CO5	To elaborate the role of IFRS								
	Textbooks								
1	Radhaswamy and R.L. Gupta: Advanced Accounting, Sultan Chand, New Delhi.								
2	M.C. Shukla T.S. Grewal & S.C. Gupta, Advance Accounts, S Chand Publishing, New Delhi.								
3	R.L. Gupta and V.K. Gupta, "Financial Accounting", Sultan Chand, New Delhi.								
4	S P Jain and K. L. Narang: Financial Accounting- I, Kalyani Publishers, New Delhi.								
5	T.S. Reddy& A. Murthy, Financial Accounting, Margam Publishers, Chennai.								
	Reference Books								
1	Dr. S.N. Maheswari: Financial Accounting, Vikas Publications, Noida.								
2	Dr. Venkataraman& others (7 lecturers): Financial Accounting, VBH, Chennai.								
3	Dr.Arulanandan and Raman: Advanced Accountancy, Himalaya publications, Mumbai.								
4	Tulsian, Advanced Accounting, Tata MC. Graw hills, India.								
5	Charumathi and Vinayagam, Financial Accounting, S.Chand and sons, New Delhi.								
NOTE:	Latest Edition of Textbooks May be Used								
	Web Resources								
1	https://www.slideshare.net/mcsharma1/accounting-for-depreciation-1								
2	https://www.slideshare.net/ramusakha/basics-of-financial-accounting								
3	https://www.accountingtools.com/articles/what-is-a-single-entry-system.html								

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	3	2	3	2	2	3	2	2
CO2	3	2	3	3	3	2	2	2	3	2	2
CO3	3	2	2	3	3	2	2	2	3	2	2
CO4	3	2	3	3	2	2	2	2	3	2	2
CO5	3	3	3	3	3	3	3	3	3	3	3
TOTAL	16	11	14	15	14	12	11	11	15	11	11
AVERAGE	3.2	2.2	2.8	3	2.8	2.4	2.2	2.2	3	2.2	2.2

3 – Strong, 2- Medium, 1- Low

FIRST YEAR – SEMESTER – II

CORE - IV: BUSINESS LAW

Subject	L	Т	P	S	Credits	Inst.	Marks							
Code	L	1	r	3	Credits	Hours	CIA	Ex	ternal	Total				
	5				4	5	25		75	100				
	II.	ı		Le	earning Obj	ectives	•							
I ()1	To kn	ow the	nature	and ol	bjectives of I	Mercantile	lawand the	esse	entials o	of valid				
LO1	contra	act												
LO2	To ga	in knov	vledge	on per	formance co	ntracts								
LO3	To be	To be acquainted with the rules of Indemnity and Guarantee												
LO4	To ma	Γο make aware of the essentials of Bailment and pledge												
LO5	To un	derstar	d the p	rovisi	ons relating t	o sale of go	oods							
Prerequis	sites: S	Should	have s	tudied	Commerce	in XII Sto	1							
-														
Unit					Contents				No. of	Hours				
	Elem	ents of	Contr	act										
	India	n Con	tract A	ct 187	72: Definition	n of Contr	act, Essenti	ials						
	of V	alid C	ontrac	t, Cla	ssification of	of Contrac	et, Offer a	and	_					
I					tion – Capa]	15				
	_				oject – Cont	=								
	Contract													
	Perfo	rmanc	e of C	ontrac	t									
	Mean	ing of	Perfo	rmance	e, Offer to	Perform, I	Devolution	of						
77	Joint liabilities & Rights, Time and Place of Performance									. =				
II	Reciprocal Promises, Assignment of Contracts - Remedies for								j	15				
	Breac	h of co	ontract	- Tern	nination and	Discharge	of Contrac	ct -						
	Quasi	Contra	act											
	Conti	ract of	Inden	nity a	nd Guarant	ee								
III	Contr	act of	Indem	nity an	d Contract	of Guarant	ee - Extent	of	1	15				
111	Surety"s Liability, Kinds of Guarantee, Rights of Surety,								j	15				
	Discharge of Surety –													
	Bailn	nent an	d Pled	lge										
	Bailm	ent an	d Plea	lge –	Bailment -	Concept -	 Essential 	s -						
IV					its, Duties a	•		and	1	15				
	Bailee	e – Lav	v of Pl	edge –	Meaning –	Essentials (of Valid							
	Pledg	e, Pled	ge and	Lien, l	Rights of Pav	wner and Pa	awnee.							
	Sale o	of Good	ds Act	1930:										
	Definition of Contract of Sale – Formation - Essentials of													
V					itions and V				1 15					
,	-	•			volving Sea				13					
			ghts a	nd dut	ies of buyer	- Rights	of an Unp	aid						
	Seller	•												
					TOTAL				7	75				

	Course Outcome							
CO1	Explain the Objectives and significance of Mercantile law							
CO2	Understand the clauses and exceptions of Indian Contract Act.							
CO3	Outline the contract of indemnity and guarantee							
CO4	Familiar with the provision relating to Bailment and Pledge							
CO5	Explain the various provisions of Sale of Goods Act 1930							
	Textbooks							
1	N.D. Kapoor, Business Laws- Sultan Chand and Sons, New Delhi.							
2	R.S.N. Pillai – Business Law, S.Chand, New Delhi.							
3	M C Kuchhal& Vivek Kuchhal, Business law, S Chand Publishing, New Delhi							
4	M.V. Dhandapani, Business Laws, Sultan Chand and Sons, New Delhi.							
5	Shusma Aurora, Business Law, Taxmann, New Delhi.							
	Reference Books							
1	Preethi Agarwal, Business Law, CA foundation study material, Chennai.							
2	Business Law by Saravanavel, Sumathi, Anu, Himalaya Publications, Mumbai.							
3	Kavya and Vidhyasagar, Business Law, Nithya Publication, New Delhi.							
4	D.Geet, Business Law Nirali Prakashan Publication, Pune.							
5	M.R. Sreenivasan, Business Laws, Margham Publications, Chennai.							
NOTE:	Latest Edition of Textbooks May be Used							
Web Resources								
1	www.cramerz.comwww.digitalbusinesslawgroup.com							
2	http://swcu.libguides.com/buslaw							
3	http://libguides.slu.edu/businesslaw							

	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	2	3	2	2	2	2	2	2	2
CO2	3	2	3	3	2	2	2	2	2	2	2
CO3	3	2	2	3	2	2	2	2	2	2	2
CO4	3	2	3	3	2	2	2	2	2	2	2
CO5	3	2	3	3	2	2	2	2	2	2	2
TOTAL	15	10	13	15	10	10	10	10	10	10	10
AVERAGE	3	2	2.6	3	2	2	2	2	2	2	2

3 – Strong, 2- Medium, 1- Low

<u>FIRST YEAR – SEMESTER – II</u> <u>ELECTIVE–II: OFFICE AUTOMATION AND LAB</u>

Subject	t L	Т	P	S	Credits	Inst.		Marks	
Code		1	1	3	Credits	Hours	CIA	External	Total
	2		2		3	4	25 75 10		100
	Learning Objectives								
LO1	LO1 The major objective in introducing the Computer Skills course is to impart								
	trainin	g for st	udents	in Mic	crosoft Office	e which has	different	components	like
	MS W	ord, M	S Exce	el and I	Power point.				
LO2	The co	urse is	highly	practi	ce oriented ra	ather than r	egular clas	s room teacl	hing.
LO3	LO3 To acquire knowledge on editor, spread sheet and presentation software.								
Prerequ	isites: S	hould	have s	tudied	Commerce	in XII Std	l		

Unit	Contents	No. of
		Hours
	Introductory concepts: Hardware and Software - Memory unit -	
I	CPU-Input Devices: Key board, Mouse and Scanner. Output	
1	devices: Monitor, Printer. Introduction to Operating systems -	
	Introduction to Programming Languages.	
	Word Processing: File menu operations - Editing text - tools,	
II	formatting, bullets and numbering - Spell Checker - Document	
11	formatting - Paragraph alignment, indentation, headers and	
	footers, printing – Preview, options, merge.	
	Spreadsheets: Excel – opening, entering text and data, formatting,	
III	navigating; Formulas – entering, handling and copying	
IV	Charts – creating, formatting and printing, analysis tables,	
	preparation of financial statements, introduction to data analytics.	
	Power point: Introduction to Power point - Features -	
V	Understanding slide typecasting & viewing slides – creating slide	
,	shows. Applying special object – including objects & pictures –	
	Slide transition – Animation effects, audio inclusion, timers.	
	Total	
	Course Outcomes	
CO1	Understand the basics of computer systems and its components.	
CO2	Understand and apply the basic concepts of a word processing pack	age.
CO3	Understand and apply the basic concepts of electronic spreadsheet s	software.
CO4	Understand and apply the basic concepts of database management s	system.
CO5	Understand and create a presentation using PowerPoint tool.	

	Textbooks								
1	Peter Norton, "Introduction to Computers" -Tata McGraw-Hill.								
	Reference Books								
1	Jennifer Ackerman Kettel, Guy Hat-Davis, Curt Simmons, "Microsoft 2003", Tata McGraw- Hill.								
NOTE	Latest Edition of Textbooks May be Used								
	Web Resources								
1	Web content from NDL / SWAYAM or opensource web resources								

Office Automation Lab

Learning Objectives: (for teachers: what they have to do in the class/lab/field)

Office tools course would enable the students in crafting professional word documents, excel spread sheets, power point presentations using the Microsoft suite of office tools.

To familiarize the students in preparation of documents and presentations with office automation tools.

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

CO1: to perform documentation

CO2: to perform accounting operations

CO3: to perform presentation skills

List of Programs

Word

Word Orientation: The instructor needs to give an overview of Microsoft word & Importance of MS Word as word Processor, Details of the four tasks and features that would be covered Using word – Accessing, overview of toolbars, saving files, Using help and resources, rulers, format painter.

Task 1: Using word to create project certificate. Features to be covered:-Formatting Fonts in word, Drop Cap in word, Applying Text effects, Using Character Spacing, Borders and Colors, Inserting Header and Footer, Using Date and Time option in Word.

Task 2 : Creating project abstract Features to be covered:-Formatting Styles, Inserting table, Bullets and Numbering, Changing Text Direction, Cell alignment, Footnote, Hyperlink, Symbols, Spell Check, Track Changes.

Task 3 : Creating a Newsletter: Features to be covered:- Table of Content, Newspaper columns, Images from files and clipart, Drawing toolbar and Word Art, Formatting Images, Textboxes and Paragraphs

Excel

Excel Orientation: The instructor needs to tell the importance of MS Excel as a Spreadsheet tool, give the details of the four tasks and features that would be covered Excel – Accessing, overview of toolbars, saving excel files, Using help and resources {Comdex Information Technology course tool kit Vikas }

Task1: Creating a Scheduler - Features to be covered: Gridlines, Format Cells, Summation, auto fill, Formatting Text

Task 2 : Calculations - Features to be covered:- Cell Referencing, Formulae in excel – average, standard deviation, Charts, Renaming and Inserting worksheets, Hyper linking, Count function, LOOKUP/VLOOKUP

Task 3 : Performance Analysis - Features to be covered:- Split cells, freeze panes, group and outline, Sorting, Boolean and logical operators, Conditional formatting

MS Power Point

Task1: Students will be working on basic power point utilities and tools which help them create basic power point presentation. Topic covered includes: PPT Orientation, Slide Layouts, Inserting Text, Word Art, Formatting Text, Bullets and Numbering, Auto Shapes, Lines and Arrows

Task 2: This session helps students in making their presentations interactive. Topics covered includes: Hyperlinks, Inserting –Images, Clip Art, Audio, Video, Objects, Tables and Charts

Task 3: Concentrating on the in and out of Microsoft power point. Helps them learn best practices in designing and preparing power point presentation. Topics covered includes: Master Layouts (slide, template, and notes), Types of views (basic, presentation, slide

slotter, notes etc), Inserting – Background, textures, Design Templates, Hidden slides.Auto content wizard, Slide Transition, Custom Animation, Auto Rehearsing

Extended Professional Component	Questions related to the above topics, from various competitive examinations UPSC / TRB / NET / UGC –CSIR / GATE / TNPSC / others to be solved (To be discussed during the Tutorial hour)
Skills acquired from the course	Knowledge, Problem Solving, Analytical ability, Professional Competency, Professional Communication and Transferrable Skill
The Complete C Dreamtech Introduction to I	rmation Technology course tool kit Vikas Gupta, WILEY Dreamtech,2005 2. Computer upgrade and repair book,3rd edition Cheryl A Schmidt, WILEY Information Technology, ITL Education Solutions limited, Pearson Education. and A + Handbook – Kate J. Chas PHI (Microsoft)

<u>FIRST YEAR – SEMESTER - II</u>

ELECTIVE - II: PROGRAMMING IN C++ AND LAB

Code Hours CIA External To	Subject	L	Т	P	S	Credits	Inst.		Mar	ks		
Learning Objectives	Code	L	1	Г	3	Credits	Hours	CIA	Exte	rnal	Total	
LO1 To engender an appreciation for the need and characteristics of Object- orientation. LO2 To impart knowledge of the C++ language grammar in order to design and implement programming solutions to simple problems by applying Object- oriented thinking. Prerequisites: Should have studied Commerce in XII Std Unit Contents No. of Hours Object Oriented Programming Concepts: Complexity in software - The need for object-orientation – Abstraction – Encapsulation – Modularity – Hierarchy. Basic Elements of C++: Classes – Objects – Data members and member functions – private and public access specifiers - Static members - Constructors – Singleton class - Destructors Friend Functions and Friend Classes - Array of objects – Pointer to objects - this pointer – References – Dynamic memory allocation - Namespaces. II Function Overloading: Overloading a function - Default arguments – Overloading: Overloading an operator as a member function – Overloading: Overloading an operator as a member function – Overloading: Overloading an operator as a member function – Overloading an operator as a friend function Overloading the operators [], (), -> and comma operators – Conversion Functions.Inheritance: Types of inheritance – protected access specifier – Virtual Base Class – Base class and derived class constructors. Run-time Polymorphism: Virtual Functions Function overriding - Pure virtual function – Abstract base class. Templates: Function templates – Overloading a function template – Class templates. Exception Handling: Exceptions – try, catch, throw – Rethrowing an exception – Restricting exceptions - Handling exceptions in derived classes – terminate(), abort(), unexpected(), set_terminate(). V Streams: Formatted I/O with ios class functions – Manipulators – Creating own manipulator – Overloading << and		2		2				25	7	5	100	
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Total						Total						

	Course Outcomes							
CO1	Explain the various basic concepts of Object-orientation.							
CO2	Write programs to implement static binding							
CO3	Write programs to implement inheritance and dynamic binding							
CO4	Write programs to implement templates and exception handling and learn how to use STL class library.							
CO5	Write programs implementing File and Stream I/O.							
	Textbooks							
1	Herbert Schildt, C++ - The Complete Reference, Third Edition, TMH, 1999.							
2	Grady Booch, <i>Object Oriented Analysis and Design</i> , Pearson Education, 2008. (For Unit I)							
	Reference Books							
1	Bjarne Strousstrup, <i>The C++ Programming Language</i> , Addison Wesley, 2000.							
2	J. P. Cohoon and J. W. Davidson, <i>C++ Program Design – An Introduction to Programming and Object-Oriented Design</i> , Second Edition, McGraw Hill, 1999.							
3	C. J. Lippman, C++ Primer, Third Edition, Addison Wesley, 2000.							
NOTE:	Latest Edition of Textbooks May be Used							

FIRST YEAR – SEMESTER - II

Object Oriented Programming with C++

Learning Objectives: (for teachers: what they have to do in the class/lab/field)

- Design classes for the given problems.
- Write programs in C++.
- Code, debug and execute a C++ program to solve the given problems using an IDE.

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

- CO1: Design and create classes.Implement Stream I/O as appropriate.
- CO2: Design appropriate data members and member functions.
- CO3: Implement functions, friend functions, static members, constructors and compile-time polymorphism.
- CO4: Implement inheritance, run-time polymorphism and destructors.
- CO5: Implement templates and exceptions. Use STL class library.Implement File I/O.

List of Programs

- 1. Write a class to represent a complex number which has member functions to do the following
 - a. Set and show the value of the complex number
 - b. Add, subtract and multiply two complex numbers
 - c. Multiplying the complex number with a scalar value
 - 2. Write a Point class that represents a 2-d point in a plane. Write member functions to
 - a. Set and show the value of a point
 - b. Find the distance between two points
 - c. Check whether two points are equal or not
- 4. Design and implement a class to represent a Solid object.
 - a. Apart from data members to represent dimensions, use a data member to specify the type of solid.
 - b. Use functions to calculate volume and surface area for different solids.
 - 5. Design a class representing time in hh:mm:ss. Write functions to
 - a. Set and show the time
 - b. Find the difference between two time objects
 - c. Adding a given duration to a time
 - d. Conversion of the time object to seconds
 - 6. Design a 3x3 matrix class and demonstrate the following:
 - a. Addition and multiplication of two matrices using operator overloading
 - b. Maintaining a count of the number of matrix object created
- 7. Design a class called cString to represent a string data type. Create a data member in the class to represent a string using an array of size 100. Write the following functionality as member functions:
 - a. Copy Constructor
 - b. Concatenate two strings
 - c. Find the length of the string
 - d. Reversing a string
 - e. Comparing two strings
- 8. Design a class called cString to represent a string data type. Create a data member in

the class to represent a string whose size is dynamically allocated. Write the following as member functions:

- a. Copy Constructor
- b. Destructor
- c. Concatenate two strings
- d. Find the length of the string
- e. Reversing a string
- f. Comparing two strings

Extended	Questions related to the above topics, from various competitive
Professional	examinations UPSC / TRB / NET / UGC –CSIR / GATE / TNPSC / others
Component	to be solved (To be discussed during the Tutorial hour)
Skills acquired	Knowledge, Problem Solving, Analytical ability, Professional Competency,
from the	Professional Communication and Transferrable Skill
Course	

Learning Resources:

Learning Resources:

Recommended Texts

- 1. Herbert Schildt, *C++ The Complete Reference*, Third Edition, TMH, 1999.
- 2. Grady Booch, *Object Oriented Analysis and Design*, Pearson Education, 2008. (For Unit I)

Reference Books

- 1. Bjarne Strousstrup, *The C++ Programming Language*, Addison Wesley, 2000.
- 2. J. P. Cohoon and J. W. Davidson, *C++ Program Design An Introduction to Programming and Object-Oriented Design*, Second Edition, McGraw Hill, 1999.
- C. J. Lippman, C++ Primer, Third Edition, Addison Wesley, 2000.

<u>FIRST YEAR – SEMESTER – II</u>

SEC 2 - Non Major Elective - ADVERTISING

S-hind Co		т	T	D	C	C 1!4-	Inst.		Marks	
Subject Coo	ae	L	T	P	S	Credits	Hours	CIA	External	Total
		1				1	2	25	75	100
					I	Learning Obj	ectives			
LO1						g, objectives, advertising.	and scope	of adve	tising, as v	well as the
LO2	Explore the features and types of advertising agencies, understand the criteria for selecting an agency, and learn how to maintain a client-agency relationship									ship
LO3	neg	ative	influe	nces o	f adve	social issues i ertising on Indi	an values and	culture		
LO4	bra	nd im	age an	d brar	nd equ	ation process a ity, and learn s	trategies for 1	nanaging	brand crises	
LO5						lls, copy elemesting methods i	n advertising		inciples, exe	cution styles,
Unit						Content	S			No. of Hours
I						ising meaning n Advertising	definition-ob	jectives-s	cope-	10
II	adv		ng age			Y: Advertising ncy selection cr				10
III	Soc neg Ecc	cial as gative onom	spects influic ic asp	: Ethi ence (ect: E	cal ar of adv Effect	MIC ASPECT and social issue vertising on In of advertising on, price.	es in advertis dian values	sing, posi and cultu	tive and ire.	15
IV	BR adv	AND	BUIL ng in d	DING	: The	e communication	•			10
V	cop	ywrit	ing, co	ору- е	lemen	REATIVITY Ints —types-layondvertisements-	ut-principles-	execution	styles-Pre	15
			•			TOTAL				60
	_					Course Outo				
CO1	med	dia ele	ements	sused	in adv	e its objectives, vertising		_		
CO2	den	nonstı	ate eff	fective	clien	rtising agencies t-agency relation	onship manag	gement.		
CO3	Ind	ian va	ılues a	nd cul	ture.	issues in adver		•		
CO4	Explain the communication process and analyze advertising's role in brand building and managing brand crises.									
CO5	prir	nciple		execut		g techniques, i yles, and condu				lize layout

	Textbooks							
	TEXTUOURS							
1	Advertising Principles and Practice by Ruchi Gupta-S.Chand Publishing							
	Reference Books							
1	Rathor, B.SAdvertising management-Himalaya Publishing House							
2	Myers-Advertising management-PHI Norms-Advertising-PHI							
3	Sontakki. C.N, Advertising, Kalyani Publishers, Ludhiana							
4.	Brand Positioning-Strategies for competitive Advantage by SubrotoSengupta-Tata McGraw Hill Publication							
NOTE: L	atest Edition of Textbooks May be Used							
	Web Resources							
1	https://archive.mu.ac.in/myweb_test/sybcom-avtg-eng.pdf							
2	https://uascku.ac.in/wp-content/uploads/2020/04/Advertising-B.ComVI-Semester-Unit-Wise-Notes.pdf							
3	http://osou.ac.in/eresources/DJMC-06-BLOCK-02.pdf							

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	3	3	3	2	3	3	3	3	2
CO2	3	2	2	3	2	2	2	2	3	2	3
CO3	3	3	3	3	3	2	3	3	3	3	2
CO4	3	2	2	3	2	2	2	2	3	2	2
CO5	3	3	3	3	3	2	3	3	3	3	3
TOTAL	15	13	13	15	13	10	13	13	15	13	12
AVERAGE	3	2.6	2.6	3	2.6	2	2.6	2.6	3	2.6	2.4

3 – Strong, 2- Medium, 1- Low

FIRST YEAR – SEMESTER – II SEC – 3– INDUSTRIAL LAW

Cubicat Co	J.	L	T	P	S	Cuadita	Inst.		Marks						
Subject Co	ae		1	P	3	Credits	Hours CIA External								
		1				1		25	75	100					
					L	earning Obje	ctives								
LO1	<u>To</u>	<u>U</u> nd	erstan	d and	appl	y the concept of	of Factories	act							
LO2	La	To capable students to comprehend the legal framework governing Industrial Law to settle industrial disputes													
LO3		expo rkpla		dents	to th	e principles re	lating to hea	alth and s	afety laws	in the					
LO4	То	expl	ain the	e relev	vant l	aws governing	g ESI Act 194	48 and EP	F Act 1952						
LO5	То	know	the d	evelo	pmer	nt and the judic	cial setup of	Payment	of Bonus	Act.					
Prerequisite	es: S	houl	d hav	e stud	lied (Commerce in									
Unit						Contents				No. of Hours					
I	Fac Ho Per	orking ang	3												
II						947: Definition, outs, Lay Offs, F			are	3					
III	Wo Co:	orkme mpen	n"s Co sation	mpen Perma	satior ment	ation Act – Nat ns – Employ"s L – Partial and Te nth Payment (Ta	iability – Me mporary – D	eaning of <i>A</i> isablemen	Accident	3					
IV	Em Cor Pro	ploye rporat ovider	es Station, fund tion, fund	te Insunction	irance is- co Misce	e Act 1948 Objet ntribution and r llaneous Provist schemes-contri	ects-definition ecovery bene ion Act, 1952	ns-ESI efits. Empl 2 Objects-	oyees	3					
V	UN The	NIT V e Payı	ment o	f Bon	us Ac	et 1965 – Objec oss Profits – Pa	t – Applicati	on – Defi		3					
						TOTAL				15					
					(Course Outco	mes		L						
CO1	Re	mem	ber an	d reca	all the	e various conc	epts of Facto	ories act 19	948						
CO2	De	mons	strate t	he. P	rovisi	ions and conce	epts of Indus	strial Disp	utes Act, 19)47					
CO3	An	alyse	the v	arious	mea	sures and poli	cies in The V	Workmen'	s Compens	ation Act .					
CO4	Examine the different aspects of ESI and EPF Act.														
CO5	Cri	iticall	ly eval	uate	he C	ase studies rel	ating to Bon	ius Act							

	Textbooks
1	N.D.Kapoor – Industrial Laws, Sultan Chand & Sons, New Delhi.
2	P.C.Tripathi - Industrial Laws, Sultan Chand & Sons, New Delhi
	Reference Books
1	Dr.M.R.Sreenivasan & C.D.Balaji - Industrial Laws & Public Relations, Margham Publications, Chennai.
2	B.Nandha Kumar, Industrial Laws, Vijay Nichole Prints, Chennai.
3	"Industrial Relations and Labour Laws" - S C Srivastava -Vikas Publishing
4.	"Industrial Relations and Labour Laws " - Piyali Ghosh and Shefali Nandan- McGraw Hill India
NOTE: La	test Edition of Textbooks May be Used
	Web Resources
1	https://www.icsi.edu/media/webmodules/publications/7.%20Industrial,%20Labour%20and%20General%20Laws.pdf
2	https://www.mlsu.ac.in/econtents/1185_Industrial%20Relations%20and%20Labour%20Laws.pdf
3	https://sbs.ac.in/wp-content/uploads/2021/02/BBA-5th-IRLL-Complete-Notes-updated1.pdf

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	3	2	3	2	3	3	3	2	2
CO2	3	2	2	3	2	2	2	2	3	2	3
CO3	3	3	3	2	3	2	3	3	3	2	2
CO4	3	2	2	2	2	2	2	2	3	2	2
CO5	3	3	3	3	3	2	3	3	3	2	3
TOTAL	15	13	13	12	13	10	13	13	15	10	12
AVERAGE	3	2.6	2.6	2.4	2.6	2	2.6	2.6	3	2	2.4

3-Strong, 2- Medium, 1- Low

SECOND YEAR – SEMESTER - III

CORE - V: CORPORATE ACCOUNTING I

Subjec	т	T	D	C	C 1'4-	Inst.		Mai	rks		
t Code											
	5				4	5	25	7	5	100	
T 01		1 .	1 1		Learning Ob		•.•	C C1			
LO1					ro-rata allotm					<u> </u>	
LO2					Companies A entures	ct regarding Is	ssue and	Redem	otion of	Ī	
LO3		arn the anies A	per Sc	hedule	III of						
LO4	To examine the various methods of valuation of Goodwill and sha										
LO5					ce of Internation			standa	rd (IFR	RS)	
Prerequ	isite: S	hould	have s	tudied	Financial A	ecounting in l	Year				
Unit	Contents									f 's	
		of Shar									
					n - Discount -					15	
I					ghts and Bon			_			
		writing		ures -	- Underwritin	g Commissio	n - 1ype	es or			
				n of I	Preference Sh	ares & Deber	ntures				
			-		e Shares–Prov			Act-			
II	Capital Redemption Reserve – Minimum Fresh Issue – Redemption at Par, Premium and Discount. Debentures: Issue and Redemption – Meaning – Methods – In-One lot–in Instalment – Purchase in the Open Market includes Ex										
						-		s Ex			
				terest	- Sinking Fund	d Investment I	Method.				
		Accoun		1 000	unts – Form a	nd Contants of	f Einanai	o1			
III					e III of Comp					15	
111					Form of State					10	
					nagerial Rem			~			
					Shares						
					Meaning – Ne						
				_	oodwill – Ave	erage Profit –	Super P	rofit –			
IV		•	-		n Method.		3.5.4	1 6		15	
					eed for Valua						
	Metho		Snare	s - Nc	et Assets Met	noa – Yieia	and Fair	value			
		n Acco	unting	Stand	lards						
			_		porting Standa	ard (IFRS)_M	eaning a	nd its			
					idian Account		_				
V		•			ce – Proced	_		_		15	
v	_		_		Presentation of					15	
					ntories, Ind AS						
					olicies, Chang						
	and Ei	rors, Ir	10 AS	- 10 -	Property, Pla	nı & Equipme	ent, ind A	S 38			

	 Intangible Assets Ind AS – 103, Business Combinations Ind AS 110, Consolidated Financial Statement. (Theory Only) 	
	TOTAL	75
THEO	RY 20% & PROBLEMS 80%	
	Course Outcomes	
CO1	Prepare and account for various entries to be passed in case of issue, for reissue of shares and compute the liability of underwrites	
CO2	Asses the accounting treatment of issue and redemption of preference s debentures	shares and
CO3	Construct Financial Statements applying relevant accounting treatment	S
CO4	Compute the value of goodwill and shares under different methods and applicability	
CO5	Integrate theoretical knowledge on all accounting in par with IFRS and	IND AS
	Textbooks	
1	S.P. Jain and N.L. Narang, Advanced Accounting Vol I, Kalyani Public Delhi.	cation, New
2	R.L. Gupta and M. Radha swamy, Advanced Accounts Vol I, Sultan C Delhi.	hand, New
3	Broman, Corporate Accounting, Taxmann, New Delhi.	
4	Shukla, Grewal and Gupta- Advanced Accounts VolI,S.Chand, New D	elhi.
5	M.C.Shukla, Advanced accounting Vol I, S.Chand, New Delhi.	
	Reference Books	
1	T.S. Reddy, A. Murthy – Corporate Accounting- Margham Publication	Chennai.
2	D.S.Rawat&NozerShroff,Students Guide To Accounting Standards ,Ta Delhi	axmann, New
3	Prof. Mukeshbramhbutt, Devi, Corporate Accounting I, Ahilya Publicat Pradesh	ion, Madhya
4	Anil Kumar, Rajesh kumar, Corporate accounting I, Himalaya Publishi Mumbai.	ng house,
5	PrasanthAthma, Corporate Accounting I, Himalaya Publishing house, N	⁄Iumbai.
NOTE	Latest Edition of Textbooks May be Used	
	Web Resources	
1	https://www.tickertape.in/blog/issue-of-shares/	
2	https://www.taxmann.com/bookstore/bookshop/bookfiles/chapter12valuwillandshares.pdf	
3	https://www.mca.gov.in/content/mca/global/en/acts-rules/ebooks/accoustandards.html	nting-

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	2	2	2	2	2	3	2	2
CO2	3	2	3	2	2	2	2	2	3	2	2
CO3	3	2	3	2	3	2	2	2	3	2	2
CO4	3	1	3	2	3	2	2	2	3	2	2
CO5	3	3	3	2	3	2	2	2	3	2	2
TOTAL	15	11	15	10	13	10	10	10	15	10	10
AVERAGE	3	2.2	3	2	2.6	2	2	2	3	2	2

3 – Strong, 2- Medium, 1- Low

SECOND YEAR – SEMESTER - III

CORE – VI: BUSINESS MATHEMATICS & STATISTICS

Subject	t T	Т	P	S	Cua dita	Inst.		Marl	ks		
Code	L	1	r	3	Credits	Hours	CIA	Exte		Total	
	5				4	5	25	7.	5	100	
				Le	earning Obj	ectives					
LO1					ne basics of r						
LO2					compound in	nterest and	arithmetic,	, geome	etric a	ınd	
1.02	harmonic progressions. O3 To familiarise with the measures of central tendency										
LO3 LO4							cy				
LO ₅					elation co-ef e series analy						
					Commerce i						
Unit	-52000 85		<u></u>		Contents				No. Hou		
I	Ratio,	Propor	tion an	d Vari	ations, Indic	es and Log	arithms.			15	
II	Interest and Annuity Banker's Discount Simple and Compound Interest									15	
III	Business Statistics Measures of Central Tendency Arithmetic Mean, Geometric Mean - Harmonic Mean - Mode and							iation		15	
IV	Correl	ation - nan"s l		earson'	on 's Coefficien ion – Regres					15	
V	Time S Cyclic	Series A al varia – Chai	Analysi ations - n and F	s : Sec Index	Index Num rular Trend – Numbers – Andex – Whole	Seasonal V Aggregativ	e and Rela			15	
					TOTAL					75	
				(Course Outc	omes					
CO1					roportion, in						
CO2	CO2 Familiarise with calculations of simple and compound interest and geometric and harmonic progressions.									netic,	
CO3	Detern	nine th	e vario	us mea	sures of cent	ral tendenc	cy				
CO4	Calcul	ate the	correla	ation a	nd regression	co-efficie	nt.				
CO5	Assess	proble	ems on	time s	eries analysis	S					
					Textbook	KS					

1	Dr. B.N. Gupta, Business Mathematics & Statistics, Shashibhawan publishing house, Chennai
2	Asim Kumar Manna, Business Mathematics & Statistics, McGraw hill education, Noida
3	A.V. Rayarikar and Dr. P.G. Dixit, Business Mathematics & Statistics, Nirali Prakashan Publishing, Pune
4	Dr.S. Sachdeva, Business Mathematics & Statistics, Lakshmi NarainAgarwal, Agra
5	P.R. Vittal, Business Mathematics & Statistics, Margham Publications, Chennai
	Reference Books
1	J.K. Sharma, Fundamentals of business statistics, Vikas publishing, Noida
2	Peter Waxman, Business Mathematics & Statistics, Prentice Hall, New York
3	Andre Francis, Business Mathematics & Statistics, Cengage Learning EMEA, Andover
4	Aggarwal B M, Business Mathematics & Statistics, Ane Book Pvt. Ltd., New Delhi
5	R.S. Bhardwaj, Business Mathematics & Statistics, Excel Books Publisher, New Delhi
NOTE:	Latest Edition of Textbooks May be Used
	Web Resources
1	https://www.britannica.com/biography/Henry-Briggs
2	https://corporatefinanceinstitute.com/resources/data-science/central-tendency/
3	https://www.expressanalytics.com/blog/time-series-analysis/

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

3 – Strong, 2- Medium, 1- Low

$\underline{SECOND\ YEAR-SEMESTER-III}$

ELECTIVE - III: PROGRAMMING IN JAVA AND LAB

Subject			_			Inst.		Mar	ks			
Code	L	T	P	S	Credits	Hours	CIA	Exte	rnal	Total		
	2		2		3	4	25	7	5	100		
				L	earning Obj	ectives						
LO1	To pro	vide fu	ındame	ntal k	nowledge of	object-orie	nted progra	ammin	g.			
LO2	To equ	uip the	student	t with	programming	knowledg	e in Core J	ava fro	om the	e		
	basics	up.										
LO3		able the	studer	ıts to ı	ise AWT con	trols, Even	t Handling	and S	wing	for		
	GUI.											
	site: Sl	hould l	have st	udied	Commerce	in XII Std						
Unit					Contents				No.			
	Inter-	nation:	D:		f Ohiost O	iontod	n conta	Torra	Hou	ırs		
					of Object-Or ependence, F		-					
		,			m structure -	•	,					
I				_	it) - simple ja							
					sion and cas							
					rs - control	-		-				
	Static	Metho	d - Strii	ng and	String Buffe	r Classes						
					and Objects	•						
77	Inheritance: Basic concepts - Types of inheritance - Member											
II	access rules - Usage of this and Super key word - Method Overloading - Method overriding - Abstract classes - Dynamic											
		_			erriding - A of final keywo		sses - Dyn	namic				
					ccess Protecti		rting Packa	iges -				
		_	Defini			nentation	_	nding				
III					lling: try – o							
					ons - Creatin							
	garbag	ge colle	ection, f	finalis	e -							
13.7					ng: Thread C							
IV					ng synchron							
					nterthread Co							
V	_				lasses -Java Iterator Inter		•					
•					omparator	iace- Elluli	icianon-L	151				
			. , 550	<u> </u>	TOTAL							
				(Course Outc	omes			<u> </u>			
GO1	Under	stand tl	he basio	c Obje	ct-oriented c	oncepts.Im	plement the	e basic	cons	tructs		
CO1	of Cor	e Java		-								
~ .	Implei	ment in	heritan	ice, pa	ckages, interl	faces and e	xception ha	andling	g of C	ore		
CO2	Java.			, 1	<i>C</i> ,		1					
CO3		nent m	ulti_thr	eading	g and I/O Stre	eams of Co	re Iava					
003	Impici		anu-ull	Caulity	5 4114 1/0 5110		10 Juva					

Textbooks		
1	Herbert Schildt, The Complete Reference, Tata McGraw Hill, New Delhi, 7th Edition, 2010.	
2	Gary Cornell, Core Java 2 Volume I – Fundamentals, Addison Wesley, 1999.	
Reference Books		
1	Head First Java, O"Rielly Publications, Y. Daniel Liang, Introduction to Java Programming, 7th Edition, Pearson Education India, 2010.	

Java Programming Lab

Core -S2EC1L

Learning Objectives: (for teachers: what they have to do in the class/lab/field)

- To gain practical expertise in coding Core Java programs
- To become proficient in the use of AWT, Event Handling and Swing.

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

CO1: Code, debug and execute Java programs to solve the given problems

CO2: Implement multi-threading and exception-handling

CO3: Implement functionality using String and StringBuffer classes

List of Programs

- 1. Write a Java program that prompts the user for an integer and then prints out all the prime numbers up to that Integer?
- 2. Write a Java program to multiply two given matrices.
- 3. Write a Java program that displays the number of characters, lines and words in a text?
- 4. Generate random numbers between two given limits using Random class and print messages according to the range of the value generated.
- 5. Write a program to do String Manipulation using Character Array and perform the following string operations:
 - a) String length
 - b) Finding a character at a particular position
 - c) Concatenating two strings
- 6. Write a program to perform the following string operations using String class:
 - a) String Concatenation
 - b) Search a substring
 - c) To extract substring from given string
- 7. Write a program to perform string operations using StringBuffer class:
 - a) Length of a string
 - b) Reverse a string
 - c) Delete a substring from the given string
- 8. Write a java program that implements a multi-thread application that has three threads. First thread generates random integer every 1 second and if the value is even, second thread computes the square of the number and prints. If the value is odd, the third thread will print the value of cube of the number.
- 9. Write a threading program which uses the same method asynchronously to print the numbers 1 to 10 using Thread1 and to print 90 to 100 using Thread2.
- 10. Write a program to demonstrate the use of following exceptions.
 - a) Arithmetic Exception
 - b) Number Format Exception
 - c) Array Index Out of Bound Exception
 - d) Negative Array Size Exception

Extended	Questions related to the above topics, from various competitive
Professional	examinations UPSC / TRB / NET / UGC –CSIR / GATE / TNPSC / others
Component	to be solved (To be discussed during the Tutorial hour)
Skills acquired	Knowledge, Problem Solving, Analytical ability, Professional Competency,
from the	Professional Communication and Transferrable Skill
course	

Learning Resources:

Recommended Texts

Herbert Schildt, The Complete Reference, Tata McGraw Hill, New Delhi, 7th Edition, 2010. Gary Cornell, Core Java 2 Volume I – Fundamentals, Addison Wesley, 1999.

Reference Books

Head First Java, O"Rielly Publications, Y. Daniel Liang, Introduction to Java Programming, 7th Edition, Pearson Education India, 2010.

Web resources: Web resources from NDL Library, E-content from open-source libraries

SECOND YEAR – SEMESTER - III ELECTIVE III:WEB TECHNOLOGY(PHP) AND LAB

Sub	ject	L	Т	P	S	Cuadita	Inst.		Marks			
Co	de	L	1	r	3	Credits	Hours	CIA	External	Total		
		2		2		3	4	25	75	100		
]	Learning Ob	jectives					
LO1	To	use I	PHP a	nd M	ySQL	to develop d	ynamic web	sites for	user on the	Internet		
	To	deve	lop w	eb sit	es rar	iging from sir	nple online	information	on forms to	complex		
LO ₂				ites w	vith N	IySQL databa	se, building	, connecti	ivity, and			
		ainten										
Prere	quisite	e: Sho	uld h	ave s	tudie	d Commerce	in XII Std					
Unit						Contents				No. of		
	Int	roduc	ina D	LID	Dogi	c developmer	nt Concenta	Craatia		Hours		
		Data in										
I						nding Data						
			ulating									
			es with				tina Cima	la Cana	litional			
		Controlling Program Flow: Writing Simple Conditional Statements - Writing More ComplexConditional Statements -										
II		Repeating Action with Loops – Working with String and										
		NumericFunctions.										
	W	Working with Arrays: Storing Data in Arrays – Processing Arrays										
III	wi	with Loops and Iterations –Using Arrays with Forms - Working										
	wi	with Array Functions – Working with Dates and Times.										
	IIc	ing F	unctio	nne ar	nd Cle	asses: Creatin	g User-Defi	ned Fund	tions -			
IV		_				gAdvanced O	_		tions -			
						and SQL:			se and			
3 7			-			Adding and		-				
V	Er	rors -	- Usir	ng SC)Lite	Extension an	nd PDO Ext	tension.	_			
	Int	troduc	ctionX	ML -	Simp	ole XML and	DOM Exten	ision.				
			•			TOTAL						
CO							Outcomes					
CO1			d the g bsites	•	ıl con	cepts of PHP	scripting lar	nguage fo	r the develo	pment of		
CO2	Unde	rstanc	the b	oasic 1	functi	ons of MySQ	L database p	orogram a	nd XML co	oncepts		
CO3	Learr	the r	elatio	nship	betw	een the client	side and the	server si	de scripts.			
						Textboo	ks					
1	Vikra	ımVas	swani	, "PH	PAE	Beginner's Gui	ide", Tata M	IcGraw H	ill 2008.			

	Reference Books										
1	Steven Holzner, "The PHP Complete Reference", Tata McGraw Hill, 2007.										
2	Steven Holzer, "Spring into PHP", Tata McGraw Hill 2011, 5thEdition.										
NOT	NOTE: Latest Edition of Textbooks May be Used										
	Web Resources										
1	https://www.w3schools.com/php/										
2	https://www.phptpoint.com/php-tutorial-pdf/										
3	http://www.xmlsoftware.com/										

SECOND YEAR – SEMESTER – III

WEB TECHNOLOGY LAB

Learning Objectives: (for teachers: what they have to do in the class/lab/field)

- The objectives of this course are to have a practical understanding about how to writePHP code to solve problems.
- Display and insert data using PHP and MySQL.
- Test, debug, and deploy web pages containing PHP and MySQL.
- It also aims to introduce practical session to develop simple applications using PHP andMySQL.

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

- 1. On the completion of this laboratory course the students ought to
- 2. Obtain knowledge and develop application programs using Python.
- 3. Create dynamic Web applications such as content management, user registration, and ecommerce using PHP and to understand the ability to post and publish a PHP website.
- 4. Develop a MySQL database and establish connectivity using MySQL.

LIST OF PRACTICALS

- 1. Write a PHP program which adds up columns and rows of given table
- 2. Write a PHP program to compute the sum of first n given prime numbers
- 3. Write a PHP program to find valid an email address
- 4. Write a PHP program to convert a number written in words to digit.
- 5. Write a PHP script to delay the program execution for the given number of seconds.
- 6. Write a PHP script, which changes the colour of the first character of a word
- 7. Write a PHP program to find multiplication table of a number.
- 8. Write a PHP program to calculate Factorial of a number.
- 9. Write a PHP code to create a student mark sheet table. Insert, delete and modify records.
- 10. From a XML document (email.xml), write a program to retrieve and print all the emailaddresses from the document using XML
- 11. From a XML document (tree.xml), suggest three different ways to retrieve the text value John' using the DOM:
- 12. Write a program that connects to a MySQL database and retrieves the contents of any one of its tables as an XML file. Use the DOM.

Professional	Questions related to the above topics, from various competitive examinations UPSC / TRB / NET / UGC – CSIR / GATE / TNPSC / others to be solved (To be discussed during the Tutorial hour)
	Knowledge, Problem Solving, Analytical ability, Professional Competency, Professional Communication and Transferrable Skill

<u>SECOND YEAR – SEMESTER – III</u>

SEC 4 – PERSONAL SELLING

Subject Co	de	L	T	P	S	Credits	Inst.		Marks			
Subject Co.		_	_	_			Hours	CIA	Externa	l Total		
		2				2	2	25	75	100		
			I	I	Le	earning Object	ctives					
LO1	То	Unde	erstan	d the	conce	ept of personal	selling and	related to	erms.			
LO2		Knov ganiza		the ca	ıtalyti	c role of sales	person in the	he effectiv	ve function	ning of an		
LO3		To familiarize the student with the fundamentals of personal selling and the selling process.										
LO4 To explain the personel sale strategies and environmental factors that affect the personel sales.												
LO5	То	knov	v the I	Prepai	ration	of Sales repo	rt-reports ar	nd docum	ents			
Prerequisite	es: S	houl	d hav	e stud	lied (Commerce in	XII Std					
Unit						Contents				No. of Hours		
I						onal selling m tions-personal	_		ng.	6		
II	der	nerits		ersona	ıl selli	al selling-mer ing-methods o	-	_		6		
III	Ste cha ma per	ps in anging rketings	selling face ng mix sellin	g pro of pe x-pers	cess-i ersona sonal d price	important aspe il selling-effic selling with re e decisions-pe ling and produ	iency of per spect to pro rsonal sellin	sonal sell duct strat ng and	ing in	6		
IV	sel	ling-t	ouying	g form	iula n	ties of a good nethod-presen losing the sale	tation and d	emonstra		6		
V	Sales report-reports and documents-sales manual-order book-cash memo-tour diary-daily and periodical reports-ethical aspects of selling.									6		
						TOTAL				30		

Course Outcomes										
CO1	Remember the concepts of sales management, personel selling and sales task.									
CO2	Understand the personel sale strategies and environmental factors that affect the personel sales.									
CO3	Explore the history of stages and process of Sales.									
CO4	Analyse the effective techniques in developing and qualifying sales leads.									
CO5	Apply the documentation procedures in preparation of Sales report.									
	Textbooks									
1	Saravanavel.p and Sumathi.S., Advertising and Salesmanship, Margham Publications, Chennai.									
2	S.A.Sherlaker R. Krishnamoorthy, Marketing Management Concepts and Cases, Himalaya Publishing House.									
Reference Books										
1	S.A. Sherlekar Marketing Management Himalaya Publishing House									
2	Dr. N.Rajan Nair,Sanjith R. Nair,Marketing, Sultan Chand and Sons									
3	K. Sundar, Essentials of Marketing, Vijay Nicoles									
4.	Futrell Charles, Sales Management Behavior Practices and Cases, The Dryden Press.									
NOTE: Lat	test Edition of Textbooks May be Used									
	Web Resources									
1	https://commercestudyguide.com/wp-content/uploads/2020/02/PERSONAL-SELLING-AND-SALESMANSHIP-PDF-NOTES.pdf									
2	https://www.economicsdiscussion.net/marketing-management/personal-selling/32430									
3	https://www.rccmindore.com/wp-content/uploads/2015/06/Personal-Selling-and-Salesmanship-IVMgt191.pdf									

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	3	2	3	2	3	3	3	2	2
CO2	3	2	2	3	2	2	2	2	3	2	3
CO3	3	3	3	2	3	2	3	3	3	2	2
CO4	3	2	2	2	2	2	2	2	3	2	2
CO5	3	3	3	3	3	2	3	3	3	2	3
TOTAL	15	13	13	12	13	10	13	13	15	10	12
AVERAGE	3	2.6	2.6	2.4	2.6	2	2.6	2.6	3	2	2.4

3 – Strong, 2- Medium, 1- Low

<u>SECOND YEAR – SEMESTER – III</u>

SEC 5 – CAPITAL MARKET

Subject Cod	10	L	T	P	S	Credits	Inst.		Mark	S		
Subject Cod	ie		1	Г	3		Hours	CIA	Extern	al	Total	
		1				1	2	25	75		100	
					L	earning Obje	ctives					
LO1						capital marke ary market	t, primary m	arket me	thods, and	d the		
LO2	To E oper	-		featu	ires a	nd characteris	cics of mutua	al funds ai	nd unders	stand	l their	
LO3	Defi	ne tł	ne dep	osito	ry sys	tem and comp	rehend the p	orocess of	demateri	ializa	ition.	
LO4		o familiar with the objectives, functions, and powers of the Securities Exchange pard of India (SEBI).										
LO5	parti	icipa	ınts in	the d	leriva	erivatives and tive market		teristics,	and unde	rstan	nd the	
Prerequisite	s: Sh	oul	d hav	e stud	lied (Commerce in	XII Std			1		
Unit						Contents				No. Ho		
I	Indian capital market: Primary Market (New Issue Market) — methods of floating new issues — parties involved in new issue market — Secondary Market (Stock Exchange) — definition of Stock Exchange — BSE, NSE & OTCEI.								w issue		10	
II	Mut fund	ual] l ope	Fund:	Feating – be	ures denefit	& Characterist ss of mutual fu	ics – Mech				10	
III	systo					em: Meaning aterialization -			pository		15	
IV		ctior	ns – p	owers	of S	nge Board of EBI – SEBI g neasures for in	uidelines fo	r primary			15	
V	der	ivat		arket	– ty	istics for derive pes of finance ps.	-	-			10	
						TOTAL					60	
						Course Outco	mes					
CO1	invo	lved		w issı		e primary and s rkets, and desc	-					
CO2						nutual funds, ic e the mechanis	-			nes o	of	

CO3	Explain the meaning and functions of the depository system, describe the process of dematerialization, and discuss the roles of NSDL and CDSL.								
CO4	Analyze SEBI guidelines for the primary and secondary markets, assess the measures taken for investor protection, and evaluate the role of SEBI in regulating the securities market.								
CO5	Identify various types of financial derivatives (forwards, futures, options, and swaps), explain their characteristics, and discuss the roles of participants in the derivative market								
Textbooks									
1	Capital Markets: Institutions and Instruments by Fabozzi and Frank J								
Reference Books									
1	Financial Market & Services – E. Gardon&Natrajan, Himalaya Publishing House.								
2	Financial Services – D. Santhanam, Margham Publication.								
NOTE: Lat	est Edition of Textbooks May be Used								
	Web Resources								
1	https://www.icsi.edu/media/webmodules/publications/CapitalMarketandSecurite sLaw.pdf								
2	https://www.icsi.edu/media/webmodules/16112021_Final_SLCM.pdf								
3	https://www.researchgate.net/publication/337676067_Capital_Markets_in_India_A_Conceptual_Framework								

	PO1	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	2	3	2	3	3	3	2	2
CO2	3	2	3	2	2	2	2	3	2	3
CO3	3	3	3	3	2	3	3	3	2	2
CO4	3	2	2	2	2	2	2	3	2	2
CO5	3	3	3	3	2	3	3	3	2	3
TOTAL	15	13	13	13	10	13	13	15	10	12
AVERAGE	3	2.6	2.6	2.6	2	2.6	2.6	3	2	2.4

3 – Strong, 2- Medium, 1- Low

$\underline{SECOND\ YEAR-SEMESTER-IV}$

CORE - VII: CORPORATE ACCOUNTING - II

Chia-4						Inst.		Marks					
Subject Code	L	T	P	S	Credits	Hours	CIA	Externa l	Total				
	5				4	5	25	75	100				
					A								
LO1	To kn	ow the	types	of Am	algamation,	Internal an	d external	Reconstruc	ction				
LO2	To kn	ow Fir	nal stat	ements	of banking	companies							
LO3	To un	dersta	nd the	accoun	ting treatme	nt of Insura	ance compa	any accoun	ts				
LO4	To un	dersta	nd thep	rocedu	ire for prepa	ration of co	onsolidated	Balance sl	neet				
LO5	To ha	ve an i	nsight	on mo	des of windi	ng up of a	company						
Prerequ	isite: S	hould	have s	tudied	Financial A	Accounting	g in I Year	•					
Unit	Contents Amalgamation, Internal & External Reconstruction												
I	Metho Value for Ar Purch Intern Intern Decre Treat	Amalgamation – Meaning - Purchase Consideration - Lump sum Method, Net Assets Method, Net Payment Method, Intrinsic Value Method - Types of Methods of Accounting for Amalgamation - The Pooling of Interest Method - The Purchase Method (Excluding Inter-Company Holdings). Internal & External Reconstruction Internal Reconstruction – Conversion of Stock – Increase and Decrease of Capital – Reserve Liability - Accounting Treatment of External Reconstruction											
II	Final Non-I	Statem Perform	nents of	f Bank Assets	Companies ing Compan - Rebate on as Per Banki	Bills Disc	counted- P	rofit and	15				
III	Mean Accou	ing of unts of ess – A	Insura Insura	nce – I ance C	counts: Principles – ' ompanies – General Insur	Accounts	of Life In	surance	15				
IV	Conso Introd Relati	olidate luction ng to	-Holdi Prepar	ng & S	Statements Subsidiary C f Accounts g Inter-Comp	-Preparatio	on of Con		15				
V	Balance Sheet (Excluding Inter-Company Holdings). Liquidation of Companies Meaning-Modes of Winding Up — Preparation of Statement of Affairs and Statement of Deficiency or Surplus (List H) Order of Payment — Liquidators Remuneration— Liquidator"s Final Statement of Accounts.												
					TOTAI	4			75				

TH	IEOR	Y 20% & PROBLEMS 80%							
		Course Outcomes							
С	O1	Understand the accounting treatment of amalgamation, Internal and external reconstruction							
C	CO2	Construct Profit and Loss account and Balance Sheet of Banking Companies in accordance in the prescribed format.							
C	CO3	Synthesize and prepare final accounts of Insurance companies in the prescribed format							
C	O4	Give the consolidated accounts of holding companies							
C	CO5	Preparation of liquidator"s final statement of account							
		Textbooks							
1	S.P. Dell	Jain and K.L Narang. Advanced Accountancy, Kalyani Publishers, New ni.							
2	Dr K S Raman and Dr M A Arulanandam Advanced Accountancy Vol II								
3	R.L	. Gupta and M. Radhaswamy, Advanced Accounts, Sultan Chand, New Delhi.							
4	M.C. Shukla and T.S. Grewal, Advanced Accounts Vol.II, S Chand & Sons, New Delhi.								
5		Reddy and A.Murthy, Corporate Accounting II, Margham Publishers, nnai							
		Reference Books							
1	B.R	aman, Corporate Accounting, Taxmann, New Delhi							
2	M.C	C.Shukla, Advanced Accounting, S.Chand, New Delhi							
3	Prof	MukeshBramhbutt, Devi Ahilya publication, Madhya Pradesh							
4		kumar, Rajesh kumar, Advanced Corporate Accounting, Himalaya Publishing se, Mumbai.							
5	Pras	anthAthma, Corporate Accounting, Himalaya Publishing house, Mumbai.							
NOT	E: La	test Edition of Textbooks May be Used							
		Web Resources							
1	_	s://www.accountingnotes.net/amalgamation/amalgamation-absorption-and-onstruction-accounting/126							
2	http	s://www.slideshare.net/debchat123/accounts-of-banking-companies							
3	_	s://www.accountingnotes.net/liquidation/liquidation-of-companies- ounting/12862							
	•								

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

3 – Strong, 2- Medium, 1- Low

SECOND YEAR-SEMESTER-IV

${\bf COREPAPERVIII-} \underline{{\bf COMPANY\,LAW}}$

Subject		7 D			arekvin <u>e</u>	Inst.		Ma	rks					
Code	L	T	P	S	Credits	Hours	CIA	Ext	ernal	Total				
	5				4	5	25		75	100				
		I	I	L	earning Obj	ectives		1						
LO1	To kno	ow Con	nnanv	Law 1	956 and Com	nanies Act	2013							
LO2					on the forma									
LO3					es of meeting									
LO4					procedure to)irec	ors					
LO5	To fan)II CC	.015										
					Commerce i		шр							
Unit	isite. Di	iouiu i	iave se	uuicu	Contents	III MIII Stu			No. o	f				
	Contents									S				
	Introd	Introduction to Company law												
				- '	efinition of a	Company.	Characteris	stics	15					
_					Piercing the C	1 .								
I				_	rtnership a			•						
					on of Compa									
	Incorp													
	Forma	ation o	f Com	pany										
	Forma	tion of	a Com	npany -	– Promoter –	Incorporati	ion Docum	ents						
	e-filing	on –												
II	Legal	Effect	ts – .	Article	es of Assoc	ciation -	Certificate	of	-	15				
	Incorp	oration	- Pro	spectu	ıs – Content	s - Kinds	 Liabilitie 	es –						
	Share	Capital	l – Kir	nds – l	Issue – Alter	ation – Di	vidend –							
	Deben	tures.												
	Meetii	_												
		_			Types – Req		_							
III			-		ıtion – Ordin				-	15				
		_	-		Disqualificat	ion, Appoi	intment and	1						
	Remov				4 4.									
	•	_			tration	otora T	vaal Darit'							
	_				ration – Dire		•							
					ointment/ Re Number – D									
					tees – Relat	-								
IV			-	15										
		•					der Trading- Managing dit – Administrative							
			_		– National									
	-			-	any Law App									
	- Spec			-17	J		(,						
	- P 3 6	000	•											

V	Winding up Meaning – Modes – Compulsory Winding Up – Voluntary Winding Up – Consequences of Winding Up Order – Powers of Tribunal – Petition for Winding Up – Company Liquidator.	15							
	TOTAL	75							
	Course Outcomes								
CO1	Understand the classification of companies under the act								
CO2	O2 Examine the contents of the Memorandum of Association & Articles of Association								
CO3	Know the qualification and disqualification of Auditors								
CO4	Understand the workings of National Company Law Appellate Tri (NCLAT)	bunal							
CO5	Analyse the modes of winding up								
	Textbooks								
1	N.D. Kapoor, Business Laws, Sultan Chand and Sons, Chennai								
2	2 R.S.N. Pillai – Business Law, S.Chand, New Delhi.								
3	3 M.V. Dhandapani, Business Laws Sultan Chand and Sons, Chennai								
4	Shusma Aurora, Business Law, Taxmann, New Delhi								
5	M.C.Kuchal, Business Law, VikasPublication, Noida								
	Reference Books								
1	Gaffoor&Thothadri, Company Law, Vijay Nichole Imprints Limit	ed, Chennai							
2	M.R. Sreenivasan, Business Laws, Margham Publications, Chenna	ni							
3	KavyaAndVidhyasagar, Business Law, Nithya Publication, Bhopa	1							
4	S.D.Geet, Business Law Nirali Prakashan Publication, Pune								
5	PreethiAgarwal, Business Law, CA foundation study material								
NOTE:	Latest Edition of Textbooks May be Used								
	Web Resources								
1	https://www.mca.gov.in/content/mca/global/en/acts-rules/companiact/companies-act-2013.html	es-							
2	https://vakilsearch.com/blog/explain-procedure-formation-compar	ny/							
3	https://www.investopedia.com/terms/w/windingup.asp								

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

3 – Strong, 2- Medium, 1- Low

SECOND YEAR – SEMESTER – IV

ELECTIVE IV -RELATIONAL DATABASE MANAGEMENT SYSTEM

Subjec	et L	Т	P	S	Credits	Inst.	Marks				
Code		1	1	3	Credits	Hours	CIA	External	Total		
	3				3	3	25	75	100		
	Learning Objectives										
LO1	LO1 Gain a good understanding of the architecture and functioning of Database Management Systems								ase		
LO2	Under	stand th	ne use	of St	ructured Quer	y Language	(SQL) aı	nd its syntax			
LO3	Apply	Norma	lizati	on tec	hniques to no	rmalize a da	tabase.				
1.04	Under	stand th	ne nee	d of t	ransaction pro	cessing and	learn tec	hniques for			
LO4	contro	ling th	econs	equer	nces of concur	rent data acc	cess.				
Prerequ	isite: Sl	ould l	nave s	tudie	d Commerce	in XII Std					

Unit	Contents	No. of Hours
I	Introduction to DBMS- Data and Information - Database - Database Management System - Objectives- Advantages - Components - Architecture. ER Model: Building blocks of ER Diagram -	
II	Relationship Degree – Classification – ER diagram to Tables – ISA relationship – Constraints –Aggregation and Composition – Advantages Structure of Relational Database. Introduction to Relational Database Design - Objectives – Tools –Redundancy and Data Anomaly	
III	 Functional Dependency - Normalization - 1NF - 2NF - 3NF - BCNF. Transaction Processing - Database Security. 	
IV	Introduction to SQL: Data Definition Commands — Data Manipulation Commands — SELECT Queries — Additional Data Definition Commands — Additional SELECT Query Keywords — Joining Database Tables.Advanced SQL:Relational SET Operators: UNION — UNION ALL — INTERSECT - MINUS.	
V	SQL Join Operators: Cross Join – Natural Join – Join USING Clause – JOIN ON Clause – Outer Join. Sub Queries and Correlated Queries: WHERE – IN – HAVING – ANY and ALL – FROM. SQL Functions: Date and Time Function – Numeric Function – String Function – Conversion Function	
	TOTAL	
	Course Outcomes	
CO1	Describe basic concepts of database system	
CO2	Design a Data model and Schemas in RDBMS	
CO3	Competent in use of SQL	
CO4	Analyse functional dependencies for designing robust Database	

	Textbooks
1	S. Sumathi, S. Esakkirajan, "Fundamentals of Relational Database Management System", Springer International Edition 2007.
	Reference Books
1	Abraham Silberchatz, Henry F. Korth, S. Sudarshan, "Database System Concepts", McGrawHill2019, 7th Edition.
2	Alexis Leon & Mathews Leon, "Fundamentals of DBMS", Vijay Nicole Publications 2014, 2 nd Edition.
NOTE:	Latest Edition of Textbooks May be Used
	Web Resources
1	https://nptel.ac.in/courses/106106093/
2	https://nptel.ac.in/courses/106106095/
3	NPTEL & MOOC courses titled Relational Database Management Systems

SECOND YEAR – SEMESTER - IV

ELECTIVE - IV: INTRODUCTION TO DATA SCIENCE

Subjec	et ,	Т	P	S	Cuadita	Inst.		Marks			
Code	L	1	r	3	Credits	Hours	CIA	External	Total		
	3				3	3	25	75	100		
					Learning Ob	jectives					
LO1	To intro	duce	the co	ncept	s, techniques	and tools in	Data Scie	ence			
	To unde	erstanc	d the	vario	us facets of da	ata science p	ractice, in	cluding da	ta		
LO2			_		n, exploratory	•	-	ive modell	ing,		
	descriptive modelling and effective communication.										
Prerequisite: Should have studied Commerce in XII Std											
Unit					Contents	S			No. of Hours		
	Introd										
I					ets of data – I	Data science	process -	- Big			
	data ed	osysie	em an	a aata	a science						
	The D	ata sc	ience	proc	ess:						
II				_	als - retrievin	_					
	Exploratory Data Analysis – Model building - Data Visualization										
	Algori										
III			_	_	thms – Mode	0 1	s – Types	-			
	Superv	ısed –	- Unsi	upervi	ised - Semi-su	ipervised					
	Introd				-						
IV					park – replaci	ng MapRedi	ice– NoS	QL –			
	ACID	– CAI	P — D /	ASE -	- types						
	Case S	•			a						
V					Setting resear	_					
·	automa		expi	oratio	n - Disease p	ronning - pre	esentation	and			
					TOTAL		_				
	Γ				Course Out						
CO1					ence is, what St						
					data and use to						
CO2					ence is, what State data and use to						
					Science is, w						
CO3	probab	ility d	listrib	utions	s, fit a model				•		
	and co										
CO4					ence is, what St						
	aistribut	ions, f	it a mo	odel to	data and use to	oois for basic	analysis a	nd commun	1cation		

	To describe what Data Science is, what Statistical Inference means, identify probability									
CO5	distributions, fit a model to data and use tools for basic analysis and communication									
	Textbooks									
1	Davy Cielen, Arno D. B. Meysman, Mohamed Ali, "Introducing Data Science",									
	manning publications 2016									
	Roger Peng, "The Art of Data Science", lulu.com 2016.									
	MurtazaHaider, "Getting Started with Data Science – Making Sense of Data									
with Analytics", IBM press, E-book.										
Reference Books										
	Davy Cielen, Arno D.B. Meysman, Mohamed Ali, "Introducing Data Science:									
1	Big Data, Machine Learning, and More, Using Python Tools", Dreamtech Press									
	2016.									
2	Annalyn Ng, Kenneth Soo, "Numsense! Data Science for the Layman: No Math									
2	Added", 2015,1st Edition.									
3	Cathy O'Neil, Rachel Schutt, "Doing Data Science Straight Talk from the									
Frontline", O'Reilly Media 2013.										
4	Lillian Pierson, "Data Science for Dummies", 2015 II Edition									
NOTE:	Latest Edition of Textbooks May be Used									

SECOND YEAR – SEMESTER - IV

SEC-6-SERVICE MARKETING

Cubiast Car	Ja	L	Т	P	C	Cuadita	Inst.		Mark	S	
Subject Cod	ue		I	P	S	Credits	Hours	CIA	Extern		
		2				2	2	25	75	100	
					L	earning Obje	ctives				
LO1	To	knov	v the s	servic	e con	cept, its evolu	tion and gro	wth.			
LO2	To	unde	rstanc	l Mar	keting	g Mix in servi	ce marketing	g and its o	effective		
			ment.								
LO3		To know the service marketing techniques applied in various sectors. Γο emphasises the distinctive aspects of Services Marketing									
LO4 LO5									5		
						nt Service Mar Commerce in		egies.			
-	S. SI	Houre	u nav	e stut	neu (Contents	All Siu			No. of	
Unit						Contents				Hours	
	Intr	oduc	tion t	o Ser	vices	– Service Mar	keting – Me	eaning an	d		
т.						Scope Charact	-	_			
I						ng-Service m		-		6	
	Classifications of services										
	Marketing Mix in Service Marketing: The Seven Ps: Product Decision, Pricing, Strategies and Tactics, Promotion of Service - additional								6		
II											
	dimension in Services Marketing – People, Physical Evidence and Process.										
			ng of	servic	es - I	Designing servi	ce delivery S	ystem – P	ricing of	6	
III	serv	vices	– obj	ective	s – n	nethods -Service	ces on retail	sector -			
	Lev	el Ag	greeme	ents (S	LA) -	- Service marke	ting triangle.				
		_	_	-		ons- Participan				6	
IV						delivery- Mass			ery-		
						rvices - Deliveres for health –			_	6	
V				_	_	chnique Service				U	
			ettings			_	117				
						TOTAL				30	
						Course Outco	mos				
	Und	lereta	nd the	Conc		Services and in		ducts			
CO1	Ond	ici sta	na tne	Conc	cpi oi	Services and II	italigible plo	aucis			
CO2	Disc	cuss t	he rele	evance	of th	e services Indu	stry to Indust	ry			
CO3	Exa	mine	the ch	aracte	eristic	s of the services	industry and	the modu	is operand	li	
CO4	Ana	alyse	the rol	e and	releva	ance of Quality	in Services				
CO5	Crit	ically	Visu	alise f	uture	changes in the	Services Indu	ustry			

	Textbooks
1	S.M. Jha, Services marketing, Himalaya Publishers, India
2	Baron, Services Marketing, Second Edition. PalgraveMacmillan
	Reference Books
1	Dr. B. Balaji , Services Marketing and Management ,S. Chand & Co , New Delhi.
2	Dr. L. Natarajan Services Marketing, Margham Publications, Chennai.
3	Thakur .G.S. Sandhu supreet& Dogra Babzan , Services marketing , kalyanni Publishers, Ludhianna.
4.	Zeithaml Valerie A, & Bitner Mary Jo., Gremler Dwayne D., Pandit Ajay; Services Marketing, McGraw Hill.
5.	Wirtz Jochen, Lovelock Christopher H, Chatterjee Jayanta.: Services Marketing, 8e Edition, Pearson.
NOTE: Lat	test Edition of Textbooks May be Used
	Web Resources
1	https://kanchiuniv.ac.in/coursematerials/T5MM1servicesmarketing.pdf
2	https://sde.uoc.ac.in/sites/default/files/sde_videos/SLM-MCom- SERVICE%20MARKETING.pdf
3	https://www.enotesmba.com/2012/06/service-marketing-and-service-marketing.html

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	3	2	3	2	3	3	3	2	2
CO2	3	2	2	3	2	2	2	2	3	2	3
CO3	3	3	3	2	3	2	3	3	3	2	2
CO4	3	2	2	2	2	2	2	2	3	2	2
CO5	3	3	3	3	3	2	3	3	3	2	3
TOTAL	15	13	13	12	13	10	13	13	15	10	12
AVERAGE	3	2.6	2.6	2.4	2.6	2	2.6	2.6	3	2	2.4

3 – Strong, 2- Medium, 1- Low

SECOND YEAR – SEMESTER - IV

SEC-7-COMMERCE PRACTICAL

Subject Co.	do	L	Т	P	S	Credits	Inst.		Mark	S
Subject Co	ue	L	1		В		Hours	CIA	Extern	1
				2		2	2	25	75	100
					L	earning Obje	ctives			
LO1			erstand ting St			damentals of	concepts	and app	lications	in Indian
LO2						owledge in A				
LO3	con	npan	y mee	tings.		rial practices li	1 1			
LO4	application, membership form, income tax return forms etc.									
LO5						ket application				
Prerequisite	es: S	houl	d have	e stuc	lied (Commerce in	XII Std			NT 0
Unit						Contents				No. of Hours
I	UNIT – I : ACCOUNTING STANDARD PRACTICE : Concept and it application. a. Accounting standard I b. Accounting standard II c. Accounting standard III									6
II	Pre adv	parat ertise	ion	of in d	an ailies	SING PRAC advertisement and journals	copy, c	collection evaluating		6
III	Pre gen wri	parat eral te ag	ion of body a	Agerand beand m	nda a oard o	rial PRACT nd minutes of of directors. (s s of theirown	meetings —t tudents are a	asked to		6
IV	IV UNIT – IV: BANKING PRACTICES: 1. Drawing, Endorsing and crossing of cheques filling up of pay in slipsdemand draft application and preparation of demand drafts. 2. Application for Opening Bank Account – Saving Account & CurrentAccount.							ір	6	
V	1.A	pplic	cation	for P	AN (MARKET AP Permanent Ac acount			cation	6
						TOTAL				30

	Course Outcomes
CO1	Remember and recall the various concepts of Indian Accounting Standards and its compliances.
CO2	Demonstrate a practical model of advertisement for new products
CO3	Analyse the previous Agenda and minutes of meetings and explore in preparation of agendas for the new meetings the company.
CO4	Appling the rules in filling the applications forms for banking transactions.
CO5	Evaluate the share markets applications and trained in opening the DEMAT Accounts.
	Web Resources
1	https://static.careers360.mobi/media/uploads/froala_editor/files/Introduction%2 0to%20Accounting%20Standards_7iWCuHN.pdf
2	https://blog.hubspot.com/marketing/how-to-make-an-ad
3	https://clickup.com/blog/meeting-agenda/

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	3	2	3	2	3	3	3	2	2
CO2	3	2	2	3	2	2	2	2	3	2	3
CO3	3	3	3	2	3	2	3	3	3	2	2
CO4	3	2	2	2	2	2	2	2	3	2	2
CO5	3	3	3	3	3	2	3	3	3	2	3
TOTAL	15	13	13	12	13	10	13	13	15	10	12
AVERAGE	3	2.6	2.6	2.4	2.6	2	2.6	2.6	3	2	2.4

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - V

CORE - IX: COST ACCOUNTING - I

Subje	ct ,	T		G	G - 1'4	Inst.		Marks		
Code		T	P	S	Credits	Hours	CIA	External	Total	
	5				4	5	25	75	100	
	•			L	earning Obj	ectives				
LO1	To un	derstan	d the va	arious	concepts of c	ost accoun	ting.			
LO2	To pr	epare ar	nd reco	ncile (Cost accounts	S.				
LO3	To ga	in know	ledge 1	regard	ing valuation	methods o	f material.			
LO4	To fa	miliariz	e with	the dif	fferent metho	ds of calcu	lating labor	ur cost.		
LO5	To kr	ow the	apporti	onmer	nt of Overhea	ds.				
Prereq	uisite: S	Should l	have st	udied	Commerce i	in XII Std				
Unit					Contents				No. of Hours	
I	Introduction of Cost Accounting Definition-Nature and Scope – Principles of Cost Accounting – Cost Accounting and Financial Accounting – Cost Accounting Valuagement Accounting –Installation of Costing System – Classification of Costs– Cost Centre– Profit Centre.									
II	Prepara	ation of	Cost S	heet -	f Costing Tenders & (s –Unit Costi	-		ation of	15	
III	Material Costing Material Control – Meaning and Objectives – Purchase of Materials – EOQ –Stores Records – Reorder Levels – ABC Analysis - Issue of Materials –Methods of Issue – FIFO – LIFO – Base Stock Method – Specific Price Method – Simple and Weighted Average Method.								15	
IV	Direct Calcula Incenti	ation of ves – I	and Ir Wage Differer	e Payr nt Met	Labour – T ments – Tim hods of Ince er - Meaning,	ne Wages entive Payr	Piece Wments - Idl	/ages – e time–	15	
V	Overheads Costing Overheads — Definition — Classification — Allocation and Apportionment of Overheads — Basis of Apportionment — Primary and Secondary Distribution - Absorption of Overheads — Methods of absorption Preparation of Overheads Distribution Statement — Machine Hour Rate — Computation of Machine Hour Rate.									
							TAL		75	
THEO	RY 20%	6 & PR	OBLE	MS 80)%					
					Course Outc	omes				
CO1	Remen	nber and	l recall	the va	rious concep	ts of cost a	ccounting			
CO2					and reconci					
CO3					on methods o					
CO4					ods of calcula					
CO5					rtionment of					

	Textbooks
1	Jain S.P. and Narang K.L, Cost Accounting. Kalyani Publishers, New Delhi
2	Khanna B.S., Pandey I.M., Ahuja G.K., and Arora M.N., Practical Costing, S. Chand & Co, New Delhi,
3	Dr.S.N. Maheswari, Principles of Cost Accounting, Sultan Chand Publications, New Delhi
4	T.S. Reddy and Y. Hari Prasad Reddy, Cost Accounting, Margham publications, Chennai
5	S.P. Iyengar, Cost Accounting, Sultan Chand Publications, New Delhi
	Reference Books
1	Polimeni, Cost Accounting: Concepts and Applications for Managerial Decision Making, 1991, McGraw–Hill, New York.
2	Jain S.P. and Narang K.L. Cost Accounting, Latest Edition.2013, Kalyani Publishers, New Delhi,
3	V.K.Saxena and C.D.Vashist, Cost Accounting, Sultan Chand publications, New Delhi
4	Murthy A &GurusamyS,CostAccounting,Vijay Nicole Imprints Pvt. Ltd. Chennai
5	Prasad.N.K and Prasad.V.K, Cost Accounting, Book Syndicate, Kolkata
NOTE	: Latest Edition of Textbooks May be Used
	Web Resources
1	https://study.com/learn/lesson/cost-accounting-principles-examples-what-is-cost-accounting.html
2	https://www.accountingtools.com/articles/what-is-material-costing.html
3	https://www.freshbooks.com/hub/accounting/overhead-cost

	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	2	2	2	2	2	3	2	2
CO2	3	2	2	2	2	2	2	2	3	2	2
CO3	3	2	3	2	2	2	2	2	3	2	2
CO4	3	2	2	2	2	2	2	2	3	2	2
CO5	3	2	3	2	2	2	2	2	3	2	2
TOTAL	15	10	13	10	10	10	10	10	15	10	10
AVERAGE	3	2	2.6	2	2	2	2	2	3	2	2

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - V

CORE - X: BANKING LAW AND PRACTICE

Subjec	t	L	Т	P	S	Credits	Inst.		Marks				
Code		L	1	1	2	Credits	Hours	CIA	External	Total			
		5				4	5	25	75	100			
					L	earning Obj	ectives						
LO1			_			erstand various companies is	_			ion Act			
LO2	То	trac	e the e	volutio	on of c	entral bank c nd their roles	oncept and	prevalent o		ing			
LO3	To throw light on Central Bank in India, its formation, nationalizi organization structure, role of bank to government, role in pror agriculture and industry, role in financial inclusion												
LO4		To understand how capital fund of commercial banks, objectives and proces Asset securitization etc.											
LO5		To explore practical banking systems relationship of bankers and cust crossing of cheques, endorsement etc.											
Unit						Content	es			No. of Hours			
I	Introduction to Banking History of Banking- Provisions of Banking Regulations Act 1949 - Components of Indian Banking - Indian Banking System-Phases of Development - Banking Structure in India - Public Sector Banks, Private Banks, Foreign Banks, RRB, UCB, Payment Banks and Small Finance Banks - Banking System - Branch Banking - Unit Banking -												
II	Universal Banking- Financial Inclusion Central Bank and Commercial Bank Central Banking: Definition –Need - Principles- Central Banking Vs Commercial Banking - Functions of Central Bank – Credit Creation. Commercial Banking: Definition - Functions – Personal Banking – Corporate Banking – Digital banking – Core Banking System (CBS) - Role of Banks in Economic Development.												
III	Ty Ac e-s Cu Lo (N	rpes ecour stater iston pans pans (PA)	nt- Jan ment ners –I & Ad - class – Rej	Dhan Bank YC no vances ification	Yojana ker C orms. —Len on of a e & I	SA – Types a - Account Sustomer Relading Sources assets and increase Repending.	tatement v ationship s- Lending come recog	s Passbook - Special - Principles	Types of ovisioning	15			

	Negotiable Instruments Act Negotiable Instruments – Meaning &	
	Definition – Characteristics -Types of negotiable instruments.	
	Crossing of Cheques- Concept - Objectives - Types of Crossing	
	Consequences of Non-Crossing.	
	Endorsement - Meaning-Components-Kinds of Endorsements-Cheques	
	payable to fictitious person Endorsement by legal representative -	
IV	Negotiation bank-Effect of endorsement-Rules regarding	15
	Endorsement. Paying banker - Banker"s duty - Dishonouring of	
	Cheques- Discharge by paying banks - Payments of a crossed cheque -	
	Refusal of cheques Payment. Duties of Collecting Banker-Statutory	
	protection under section 131-Collecting bankers" duty –RBI instruction	
	-Paying Banker Vs Collecting Banker- Customer Grievances-	
	Grievance Redressal –Banking Ombudsman.	
	Digital Banking	
	Meaning- Services - e-banking and financial services- Initiatives-	
	Opportunities - Internet banking Vs Traditional Banking	
	Mobile banking-Anywhere Banking-Any Time Banking- Electronic	
V	Mobile Wallets. ATM – Concept - Features - Types Electronic	15
	money-Meaning-Categories-Merits of e-money - National Electronic	
	Funds Transfer (NEFT), RTGS, IMPS, UPI and Digital currency –	
	Differences - Safety and Security in Digital Banking.	
	TOTAL	75
	Course Outcomes	
	Aware of vvarious provision of Banking Regulation Act 1949 applicable	e to
CO1	banking companies including cooperative banks	
CO2	Analyse the evolution of Central Banking concept and prevalent Central	
CO2	Banking system in India and their roles and function	
	Gain knowledge about the Central Bank in India, its formation, nationalis	zing its
CO3	organization structure, role of bank to government, role in promoting	
	agriculture and industry, role in financial inclusion	<u> </u>
CO4	Evaluate the role of capital fund of commercial banks, objectives and pro- Asset securitization etc	ocess of
	Asset securitization etc	
	Define the practical banking systems relationship of bankers and custom	ers
CO5	Define the practical banking systems relationship of bankers and custom crossing of cheques, endorsement etc.	iers,
CO5	Define the practical banking systems relationship of bankers and custom crossing of cheques, endorsement etc. Textbooks	iers,
	crossing of cheques, endorsement etc.	
1	crossing of cheques, endorsement etc. Textbooks	
1	crossing of cheques, endorsement etc. Textbooks Gurusamy S, Banking Theory: Law and Practice, Vijay Nicole Publication Chennai Muraleedharan, Modern Banking: Theory and Practice, Prentice Hall Indian	on,
	crossing of cheques, endorsement etc. Textbooks Gurusamy S, Banking Theory: Law and Practice, Vijay Nicole Publication Chennai	on,
1	crossing of cheques, endorsement etc. Textbooks Gurusamy S, Banking Theory: Law and Practice, Vijay Nicole Publication Chennai Muraleedharan, Modern Banking: Theory and Practice, Prentice Hall Indian	on, lia
1 2	Textbooks Gurusamy S, Banking Theory: Law and Practice, Vijay Nicole Publication Chennai Muraleedharan, Modern Banking: Theory and Practice, Prentice Hall Ind Learning Private Ltd, New Delhi	on, lia lkata
1 2 3	Textbooks Gurusamy S, Banking Theory: Law and Practice, Vijay Nicole Publication Chennai Muraleedharan, Modern Banking: Theory and Practice, Prentice Hall Ind Learning Private Ltd, New Delhi Gupta P.K. Gordon E.Banking and Insurance, Himalaya publication, Kol	on, lia lkata n, Delhi

	Reference Books										
1	B. Santhanam, Banking & Financial System, Margam Publication, Chennai										
2	KataitSanjay, Banking Theory and Practice, Lambert Academic Publishing,										
3	Henry Dunning Macleod, The Theory And Practice Of Banking, Hard Press Publishing, Old New Zealand										
4	William Amasa Scott, Money And Banking: An Introduction To The Study Of Modern Currencies, Kesinger publication, USA										
5	NektariosMichail, Money, Credit, and Crises: Understanding the Modern Banking System, Palgrave Macmillan, London										
NOTE:	Latest Edition of Textbooks May be Used										
	Web Resources										
1	https://www.rbi.org.in/										
2	https://businessjargons.com/e-banking.html										
3	https://www.wallstreetmojo.com/endorsement/										

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

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER - V CORE – XI: INCOME TAX LAW AND PRACTICE- I

Subject	L	Т	P	S	Credits	Inst.		Marks						
Code		1	Г	3		Hours	CIA		ernal	Total				
	5				4	5	25		75	100				
				Le	earning Obj	ectives								
LO1	To unc	derstan	d the ba	asic co	ncepts & def	initions un	der the Inco	ome '	Гах Ас	t,1961.				
LO2	To cor	npute t	he resi	dential	status of an	assessee ar	nd the incid	ence	of tax.					
LO3					the head sala									
LO4					of Annual		ociated de	ducti	ons ar	nd the				
	calculation of income from House property.													
LO5	To compute the income from Business & Profession considering it													
D :	principles & specific disallowances. Prerequisite: Should have studied Commerce in XII Std													
Prerequis	ite: Sho	ouid ha	ve stuc	nea Co	Contents	All Std		Т	1 T	- C				
Unit				o. of ours										
	Introd	luction	to Inc	ome T	ax					Juis				
		-0-00-0		-										
	Introdu	uction	to Inco	me Ta	x – History -	- Objective	s of Taxatio	on -	15					
I					 Meaning 		7 I							
	-				der the Inco	ome Tax A	Act –Types	of						
			come e	exemp	ted under									
	Section	n 10. e ntial S	74 - 4											
				Dog	sidential Sta	itus of on	Individuo	1						
II					Conditions –				1	15				
					Residential					10				
					dence of Tax									
			Salar											
	Salary	Inco	me -	Defin	ition – Al	lowances	-Taxability	у -						
III					rquisites –T				15					
					nmutation of				-					
	Salary - Profits in Lieu of Salary - Computation of Salary													
	Incom		TT	. D	4									
			House	_	e rty erty –Basis o	f Charge	Annual Va	duo						
IV			1	15										
1 *					et Annual Va cupied Pro				-					
					om House Pr									
	P'					- I7 ·								

	Profits and Gains from Business or Profession	
	Income from Business or Profession – Allowable Expenses –	
	Expenses Disallowed - General Deductions - Depreciation -	
V	Undisclosed Income & Investments, Unexplained expenditure	15
V	(Sec 69A, 69B, 69C, 69D) – Compulsory Maintenance of	15
	Books of Accounts – Audit of Accounts of Certain Persons –	
	Special Provisions for Computing Incomes on Estimated Basis (Deemed Income) – Computation of Income from Business or	
	Profession.	
	TOTAL	75
	Course Outcomes	70
THEO	RY 20% & PROBLEMS 80%	
GO1	Demonstrate the understanding of the basic concepts and definitio	ns under the
CO1	Income Tax Act.	
CO2	Assess the residential status of an assessee& the incidence of tax.	
CO3	Compute income of an individual under the head salaries.	
CO4	Ability to compute income from house property.	
CO5	Evaluate income from a business carried on or from the practice of	f a Profession.
	Textbooks	
1	V.P. Gaur, Narang, Puja Gaur and Rajeev Puri - Income Tax Law	and Practice,
	Kalyani Publishers, New Delhi.	M 1
2	T.S. Reddy and Hariprasad Reddy, Income Tax Law and Practice	, Margnam
	Publications, Chennai. DinkarPagare, Income Tax Law and Practice, Sultan & Chand Son	as Nove
3	Delhi.	is, new
	H.C. Mehrotra, Dr.Goyal S.P, Income Tax Law and Accounts, Sal	nitya Bhayan
4	Publications, Agra.	
5	T. Srinivasan – Income Tax & Practice – Vijay Nicole Imprints Pr	ivate Limited,
3	Chennai.	
	Reference Books	
4	Hariharan N, Income Tax Law & Practice, Vijay Nicole Imprints	Pvt. Ltd.
1	Chennai	
2	Bhagwati Prasad, Income Tax Law and Practice, Vishwa Prakasar	n. New Delhi.
3	Vinod K. Singhania, Students Guide to Income Tax., U.K. Bhargha	va Taxman.
4	Dr. Vinod K Singhania, Dr. Monica Singhania, Taxmann's Student Income Tax, New Delhi.	ts' Guide to
5	Mittal Preethi Rani and Bansal Anshika, Income Tax Law and Pra & Chand Sons, New Delhi.	ctice, Sultan
NOTE:	Latest Edition of Textbooks May be Used	
	Web Resources	
1	https://cleartax.in/s/residential-status/	
2	https://www.legalraasta.com/itr/income-from-salary/	
3	https://taxguru.in/income-tax/income-house-properties.html	
<u> </u>	•	

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	2	3	2	2	2	3	3	2
CO2	3	2	2	2	2	2	2	2	3	2	2
CO3	3	3	3	2	3	2	2	2	3	3	2
CO4	3	2	2	2	2	2	2	2	3	3	2
CO5	3	3	3	2	3	2	2	2	3	2	2
TOTAL	15	12	13	10	13	10	10	10	15	13	10
AVERAGE	3	2.2	2.6	2	2.6	2	2	2	3	2.6	2

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER – V

CORE -XII: PROJECT WORK (GROUP)

5 Hours, 4 Credits

A group of 3 students will be assigned a project in the beginning of the final year. The project work shall be submitted to the college 20 days before the end of the final year and the college has to certify the same and submit to the university 15 days prior to the commencement of the University examination.

The project shall be evaluated externally. The external examiner shall be forming the panel of examiners suggested by the board of studies from to time.

	Learning Objectives							
CLO1	To Give Idea about Research Project							
CLO2	To identify the research problem							
CLO3	To review Literature							
CLO4	To give knowledge on Data Collection and Analysis							
CLO5	To Learn Project Preparation							

Course Outcome	On completion of this course, students will;	
CO1	Gain knowledge about Research Project	PO1
CO2	Increase knowledge on research problem	PO2
CO3	Improve practice in review of literature	PO3
CO4	Gain knowledge on Data Collection and Analysis	PO1,PO2
CO5	Be Proficient in Project Preparation	PO6,PO7,PO8

PROJECT DESCRIPTION

GUIDELINES

- 1. Project report is to bridge theory and practice.
- 2. The project work should be neatly presented in not less than 50 pages and not more than 120 pages
- 3. Paper Size should be A4
- 4. 1.5 spacing should be used for typing the general text. The general text shall be justified and typed in the Font style Font: Times New Roman / Font Size: 12 for text)
- 5. Subheading shall be typed in the Font style (Font: Times New Roman / Font Size: 14 for headings). The report should be professional.
- 6. The candidate should submit periodical report of the project to the supervisor.
- 7. Two reviews will be conducted before the Viva Voce
- 8. Each candidate should submit hardcopy (3 copies) and a soft copy to the Department. After the Evaluation of the project report one hard copy will be returned to the candidate.

	Methods of Evaluation	
T . 1	Continuous Internal Assessment Test	
Internal	Review I	20Marks
Evaluation	Review II	
External Evaluation	Project Report – Viva Voce	80 Marks
	Total	100 Marks

	Method of Assessment
Review I	Problem Identification and Review of Literature
Review II	Rough Draft
Final	Project Report – Viva Voce

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

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

THIRD YEAR – SEMESTER – V

CORE -XII : AUDITING & CORPORATE GOVERNANCE

Subjec	t L	T	P	S	Credits	Inst.		Marl	ΚS				
Code		1	r	1 S Credits Hours CIA 1		Exte		Total					
	5				4	5	25	75		100			
	Learning Objectives												
LO1										1.			
LO2	Toimp	art kno	wledge	e on in	ternal check	and interna	ıl control.						
LO3	To illu	istrate t	he role	of auc	litors in com	pany.							
LO4	To help students understand the framework, theories and models of Corporate												
	Gover												
LO5					e concept of		Social Resp	onsibi	lity				
Prerequ	isite: Sl	hould l	have st	udied	Commerce i	in XII Std							
Unit					Contents					o. of			
									Н	ours			
	Introdu												
		_			of Auditin	C		ween					
					g – Object					15			
					e of Audit –			11ts –					
					es and Non– cumentation	profit Orga	inizations						
						eo o duros	Internal As	ıdit					
					gramme – Pr Check Syste					15			
					cation of As				15				
	Valuatio		tions -	V CITIII	cation of As	sets and Li	iaumines an	iu its					
-	Compa		ditor										
	_	•		emova	l of Audito	ors – Righ	nts. Duties	and					
					it Report - R					15			
					(ISA) – Aud			_					
			,		puter - e-auc	_		<u>.</u>					
		_			Governance								
					Corporate		ce: Theorie	es &					
	Models	, Broa	d Con	nmittee	es - Corpora	ate Govern	nance Refe	orms.					
IV	Major	Corpo	rate S	candal	s in India	and Ab	road: Com	nmon		15			
					ticed in va		-						
					t, Social and	Governan	ce (ESG - 0	Code					
					Auditors								
	Corpor			-	•	a	.						
					Philanthropy			-					
					inability - (15				
			-		ernance - C								
	-	mes Ac	i, 2013) (Sect	ion 135 sche	auie – vii). – CSK P	oncy					
	Rules				TOTAL					75			
					TOTAL					13			

	Course Outcomes
CO1	Define auditing and its process.
CO2	Compare and contrast essence of internal check and internal control.
CO3	Identify the role of auditors in companies.
CO4	Define the concept of Corporate Governance.
CO5	Appraise the implications of Corporate Social Responsibility
	Textbooks
1	Dinkar Pagare, Principles and Practice of Auditing, Sultan Chand & Sons, New Delhi
2	B. N. Tandon, S. Sudharsanam&S.Sundharabahu, Practical Auditing, S.Chand& Sons New Delhi.
3	Dr.T.R. Sharma, Dr. Gaurav Sankalp, Auditing & Corporate Governance, Sahithya Bhawan Publications, Agra
4	ArunaJha, Auditing & Corporate Governance, Taxmann Publication Pvt. Ltd, New Delhi.
	Reference Books
1	Kevin Keasey, Steve Thompson & Mike wright, Governance & Auditing, Emerald Group Publishing Limited, Bingley
2	Dr.T.R. Sharma, Auditing, Sahithya Bhawan Publications, Agra
3	C.B.Gupta, NehaSinghal, Auditing & Corporate Governance, Scholar Tech Press, New Delhi.
4	Shri. Vengadamani, Practical Auditing, Margham Publication, Chennai.
NOTE	: Latest Edition of Textbooks May be Used
	Web Resources
1	https://www.wallstreetmojo.com/audit-procedures/
2	https://theinvestorsbook.com/company-auditor.html
3	https://www.investopedia.com/terms/c/corp-social-responsibility.asp

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	2	3	2	3	3	3	3	2
CO2	3	2	2	2	2	2	2	2	3	2	2
CO3	3	3	3	2	3	2	3	3	3	3	2
CO4	3	2	2	2	2	2	2	2	3	3	2
CO5	3	3	3	2	3	2	3	3	3	2	2
TOTAL	15	12	13	10	13	10	13	13	15	13	10
AVERAGE	3	2.2	2.6	2	2.6	2	2.6	2.6	3	2.6	2

3 – Strong, 2- Medium, 1- Low

THIRD YEAR – SEMESTER – V

DISCIPLINE SPECIFIC ELECTIVE – 1/2: FINANCIAL MANAGEMENT

Subjec	et		/ID	Inst.			Inst.		Mark	S	
Code		L	T	P	S	Credits	Hours	CIA	Extern	al Total	
		4				3	4	25	75	100	
Learning Objectives											
LO1	То	To introduce the concept of financial management.									
LO2	То	learn	the c	apital	struc	ture theories.					
LO3	То	gain	know	ledge	abou	t techniques in	n capital bud	dgeting			
LO4	То	learn	abou	t divi	dend 1	payment mod	els.				
LO5	То	unde	rstand	the r	needs	and calculation	on of workin	g capital	in an org	anization.	
Prerequ	isite	s: Sh	ould	have	studi	ed Commerc	e in XII Sto	l			
Unit						Contents	ļ			No. of Hours	
I	Introduction Meaning and Objectives of Financial Management – Functions of Financial Management. Finance - Sources of Finance-Role of Financial Manager - Financial Goals- Profit maximization Vs. Wealth Maximization – Concept of Time Value Money – Risk and Return – Components of Financial Management.								12		
II	Financial Decision Capital Structure – Definition - Meaning- Theories- Factors determining Capital Structure – Various approaches of Capital structure Cost of Capital – Meaning – Factors determining cost of capital - Methods - Cost of Equity Capital – Cost of Preference Capital – Cost of Debt – Cost of Retained Earnings – Weighted Average (or) Composite Cost of Capital (WACC) Leverage – Concept – Operating and Financial Leverage								12		
III	Investment Decision Capital Budgeting - Meaning - Process - Cash Flow Estimation Capital Budgeting Appraisal Methods: Traditional Methods - Payback Period - Accounting Rate of Return (ARR). Discounted Cash-flow Methods: Net Present Value (NPV) - Internal Rate of Return - Profitability Index.								12		
IV	Dividend Decision Meaning — Dividend Policies — Factors Affecting Dividend Payment — Provisions on Dividend Payment in Company Law — Dividend Models - Walter"s Model - Gordon"s Model — M&M Model.										
V	Wo Wo Det	orking orking termi	g Cap	ital - ital C Work	Mea Cycle ing C	aning and Im - Factors Inf Capital - Man cecivables and	luencing W agement of l Cash.	orking C	apital –	12	
						TOTAL				60	

THEO	RY 40% & PROBLEMS 60%
	Course Outcomes
CO1	Recall the concepts in financial management.
CO2	Apply the various capital structure theories.
CO3	Apply capital budgeting techniques to evaluate investment proposals.
CO4	Determine dividend pay-outs.
CO5	Estimate the working capital of an organization.
	Textbooks
1	R.K. Sharma, Shashi K Gupta, Financial Management, Kalyani Publications, New Delhi.
2	M.Y. Khan and P.K.Jain, Financial Management, McGraw Hill Education, Noida.
3	I.M. Pandey, Financial Management, Vikas Publications, Noida.
4	Dr.S.N. Maheshwari, Elements of Financial Management, Sultan Chand & Sons, New Delhi.
5	Dr.Kulkarni and Dr. Sathya Prasad, Financial Management, Himalaya Publishing House, Mumbai.
	Reference Books
1	Prasana Chandra, Financial Management, Tata McGraw Hill, NewDelhi.
2	I.M. Pandey, Financial Management, Vikas Publishing, Noida.
3	Khan & Jain, Financial Management, Sultan Chand &Sons, New Delhi.
4.	A.Murthy, Financial Management, ,Margham Publications, Chennai.
5.	J. Srinivasan and P. Periyasamy, Financial Management, Vijay Nicole Publishers, Chennai.
NOTE:	Latest Edition of Textbooks May be Used
	Web Resources
1	https://efinancemanagement.com/financial-management/types-of-financial-decisions
2	https://efinancemanagement.com/dividend-decisions
3	https://www.investopedia.com/terms/w/workingcapital.asp

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	2	3	2	3	3	3	2	2
CO2	3	2	2	2	3	2	2	2	3	2	3
CO3	3	3	3	2	3	2	3	3	3	2	2
CO4	3	2	2	2	3	2	2	2	3	2	2
CO5	3	3	3	2	3	2	3	3	3	2	2
TOTAL	15	12	13	10	15	10	13	13	15	10	11
AVERAGE	3	2.2	2.6	2	3	2	2.6	2.6	3	2	2.1

3 – Strong, 2- Medium, 1- Low

DISCIPLINE SPECIFIC ELECTIVE – 2/2: INDIRECT TAXATION

Subjec	et	L	Т	P	S	Credits	Inst.		Marks	
Code	:		1	Г	3		Hours	CIA	External	Total
		4				3	4	25	75	100
						Learning Ob	jectives			
LO1	То я	get ir	ntrodu	iced to	o indi	rect taxes				
LO2	Tol	To have an overview of Indirect taxes								
LO3	Tol	be fa	miliaı	the C	CGST	and IGST Ac	et			
LO4	Tol	learn	proce	edures	s unde	er GST				
LO5	То я	gain	know	ledge	abou	t Customs Du	ty.			
Prerequ	isite:	Sho	uld h	ave s	tudie	d Commerce	in XII Std			
Unit						Content	s			No. of Hours
I	Introduction to Indirect Tax Concept and Features of Indirect Taxes - Difference between Direct and Indirect Taxes - Special Feature of Indirect Tax Levies - Contribution to Government Revenues - Role of Indirect Taxation - Merits and Demerits of Indirect Taxation - Reforms in Indirect Taxation - Introduction to Foreign Trade Policy (FTP) 2023							12		
II	An Overview of Goods & Service Tax (GST) Introduction of Goods and Service Tax in India— Kelkar Committee - Constitutional Amendment - Goods and Service Tax: Concepts, Meaning, Significance, Features and Benefits - Important GST Common Portals – Taxes and Duties not Subsumed in GST – Rates of GST in India - Role of GSTN in Implementation						12			
III	of GST - Challenges in Implementation of GST. CGST & IGST Act 2017 Supply - Meaning - Classification - Time of Supply - Valuation - Voluntary - Compulsory - Input Tax Credit - Eligibility - Reversal - Reverse charge Mechanism - E-Way Bill - Various Provisions Regarding E-way Bill in GST - IGST Act - Export and Import of Goods and Services- Inter State Vs Intra State Supply - Place of Supply Anti Profiteering Rules - Doctrine of Unjust						12			
IV	Procedures under GST Registration under GST Law, Tax Invoice Credit and Debit Notes, Different GST Returns, Electronic Liability Ledger, Electronic Credit Ledger, Electronic Cash Ledger, Different Assessment under GST, Interest Penalty under GST, Mechanism of Tax Deducted at Source (TDS) and Tax Collected at Source (TCS), Audit under GST.							12		
V	Customs Act 1962 Custom Duty: Concepts; Territorial Waters - High Seas - Levy of Customs Duty, Types of Custom Duties - Valuation - Baggage Rules &Exemptions.							12		
						TOTAL				60

	Course Outcomes
CO1	Acquaintance with Indirect tax laws
CO2	Exposed to the overview of GST.
CO3	Apply provisions of CGST and IGST
CO4	Summarise procedures of GST
CO5	Discuss aspects of Customs Duty in India
	Textbooks
1	Vinod K Singhania, Indirect Taxes, Taxman"s Publications, New Delhi.
2	Dr. H.C. Mehrotra & Prof .V.P Agarwal, Goods and Services Tax (GST),
2	Sahitya Bhawan Publications, Agra.
3	Rajat Mohan, Goods & Services Tax, Bharat Law Publications House, New
3	Delhi.
4	CA. Pushpendra Sisodia, Indirect Tax Laws, Bharat Publications, New Delhi.
	Reference Books
1	V.S.Datey, All About GST, Taxmann Publications, New Delhi.
2	T.S. Reddy&Y.Hariprasad Reddy, Business Taxation, Margham Publications,
<u> </u>	Chennai.

3	Study Material on GST - The Institute of Chartered Accountants of India /The Institute of Cost Accountants of India, Chennai.							
4	Guidance material on GST issued by CBIC, Government of India.							
NOTE:	NOTE: Latest Edition of Textbooks May be Used							
	Web Resources							
1	https://iimskills.com/goods-and-services-tax/#:~:text=GST-							
1	%20an%20acronym%20for%20Goods%20and%20Services%20Tax-,etc.%2C%20to%20stand%20as%20a%20unified%20tax%20regime.							
2	https://tax2win.in/guide/gst-procedure							
3	https://www.cbic.gov.in/htdocs-cbec/customs/cs-act/cs-act-ch9							

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	2	3	2	3	3	3	2	2
CO2	3	2	2	2	2	2	2	2	3	2	3
CO3	3	3	3	2	3	2	3	3	3	2	2
CO4	3	2	2	2	2	2	2	2	3	2	2
CO5	3	3	3	2	3	2	3	3	3	2	3
TOTAL	15	12	13	10	13	10	13	13	15	10	12
AVERAGE	3	2.2	2.6	2	2.6	2	2.6	2.6	3	2	2.4

3 – Strong, 2- Medium, 1- Low

<u>THIRD YEAR – SEMESTER - V</u> <u>DISCIPLINE SPECIFIC ELECTIVE – 3/4 :</u>SOFTWARE ENGINEERING AND UML LAB

Subje	ect	L	Т	P	S	Credits	Inst.		Marks	
Cod	e	L	_			Credits	Hours	CIA	External	Total
		2		2		3	4	25	75	100
						Learning Ob	jectives	1		
LO1	LO1 To introduce the software development life cycles									
LO2	To introduce concepts related to structured and objected oriented analysis &								sis &	
LO3	То	prov	ide a	n insi	ght in	to UML and s	oftware test	ing techn	iques	
Prerequ	uisite	: Sho	ould l	nave s	tudie	ed Commerce	in XII Std			
Unit						Content	ts			No. of Hours
I	Introduction – Evolution – Software Development projects – Emergence of Software Engineering.Software Life cycle models – Waterfall model – Rapid Application Development – Agile Model – SpiralModel									
II	-			•		nd Specification	on – Gather	ring and	Analysis –	
III	– La Func	yered etion	d desi Orie	gn – A	Appro Desig	iew – Charact paches n – Structured				
IV	case	, Cla	ss, In		ion, A	ML – OO con	cepts – UM	L – Diag	rams – Use	
V	Codi	ing & k-bo	& Tes x, Wl	sting -	- cod ox, In	_		entation –	Testing –	
						TOTAL				
	T					Course Out				
CO1				shoul g tool		ible to specify	software re	quiremen	ts, design the	е
CO2	То	write	e test	cases	using	different test	ing techniqu	ies.		
						Textboo				
1						als of Softwar				
2						tware Engine Edition.	ering - A Pra	actitioner	's Approach'	,
						Reference 1				
1						rated Approad 3rd Edition.	ch to Softwa	re Engine	eering", Naro	osa
NOTE:	Late	est E	dition	of T	extbo	oks May be l	U sed			

			Web Re	sources	3		
1	NPTEL	online	course	_	Software	Engineering	-
1	https://npte	el.ac.in/cours	ses/10610518	82/			

UML Lab Common for both Electives in semester V	Core - Core -S5EC1/2L
Credits 4	Lecture Hours:5 per week

Learning Objectives: (for teachers: what they have to do in the class/lab/field)

- To get familiarized to the usage of UML tool kit.
- To understand the requirements of the software and to map them appropriately to subsequent phases of the software development
- To develop the ability to verify and validate their designs

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

CO1: Students must be able to analyse and design the problem at hand.

CO2: Students should be able to use UML tools for the designing the software and test thecorrectness and soundness of their software through testing tools.

LIST OF PRACTICALS

Using UML tools produce analysis and design models for

- a. Library Management System
- b. Automatic Teller Machine
- c. Student Information Management
- d. Matrimony Service
- e. Stock Management System

Professional	Questions related to the above topics, from various competitive examinations UPSC / TRB / NET / UGC – CSIR / GATE / TNPSC / others to be solved (To be discussed during the Tutorial hour)
Skills acquired from the Course	Knowledge, Problem Solving, Analytical ability, Professional Competency, Professional Communication and Transferrable Skill

Component	Questions related to the above topics, from various competitive examinations UPSC / TRB / NET / UGC – CSIR / GATE / TNPSC / others to be solved (To be discussed during the Tutorial hour)
Skills acquired from the Course	Knowledge, Problem Solving, Analytical ability, Professional Competency, Professional Communication and TransferrableSkill

Learning Resources:

Recommended Texts

- 1. Roger D. Peng," R Programming for Data Science ", 2012
- 2. Norman Matloff,"The Art of R Programming- A Tour of Statistical Software Design", 2011

Reference Books

- 1. Garrett Grolemund, Hadley Wickham,"Hands-On Programming with R: Write Your Own Functions and Simulations", 1st Edition, 2014
- 2. Venables, W.N., and Ripley, "S programming", Springer, 2000.

<u>DISCIPLINE SPECIFIC ELECTIVE – 4/4</u>:OBJECT ORIENTED ANALYSIS AND DESIGN AND UML LAB

							ONIL LA			
Subje		L	T	P	S	Credits	Inst.		Marks	
Cod	e						Hours	CIA	External	Total
		2		2		3	4	25	25 75	
						Learning Ob	jectives	•		
LO1	LO1 To make aware of the software requirements, design the software using to									tools
LO2		be a	-	nted v	vith th	ne writing of t	est cases usi	ng differe	ent testing	
Prereq	uisite	: Sho	ould l	nave s	tudie	d Commerce	in XII Std			
Unit						Content	S			No. of Hours
I	Object Orientation – System development – Review of objects - inheritance - Object									
II	Rambaugh methodology, OMT – Booch methodology, Jacobson methodology – patterns – Unified approach – UML – Class diagram – Dynamic modelling.									
III	Introduction - UML - Meta model - Analysis and design - more information. Outline Development Process: Overview of the process-Inception - Elaboration-construction- refactoring patterns transmission-iterative development - use cases.									
IV			_			ss visibility – – Table – cla	_			
V	depl	oyme	ent		-	age diagram- amming	state diagra	m-activity	y diagram-	
						TOTAI				
						Course Out	comes			
CO1				shoule g tool		ble to specify	software re	quiremen	ts, design the	e
CO2						different test	ng techniqu	es.		
	•					Textboo	ks			
1	Inte	ernati			ect Or	iented System	n Developme	ent", McC	Graw-Hill	
2	Ma	rtin I	Fowle	r, Kei	ndall	Scott, "UML I	Distilled", A	ddision V	Vesley	
3	Eri	kssor	ı, "U	ML To	ool K	it", Addison V	Vesley			

	Reference Books								
1	Booch G., "Object oriented analysis and design", Addison- Wesley Publishing Company 3 rd edition.								
2	Rambaugh J, Blaha.M. Premeriani, W., Eddy F and Loresen W., "ObjectOrientedModeling and Design", PHI								
NOTE:	NOTE: Latest Edition of Textbooks May be Used								

UML Lab Common for both Electives in semester V	Core - Core -S5EC1/2L
Credits 4	Lecture Hours:5 per week

Learning Objectives: (for teachers: what they have to do in the class/lab/field)

- To get familiarized to the usage of UML tool kit.
- To understand the requirements of the software and to map them appropriately to subsequent phases of the software development
- To develop the ability to verify and validate their designs

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

CO1: Students must be able to analyse and design the problem at hand.

CO2: Students should be able to use UML tools for the designing the software and test thecorrectness and soundness of their software through testing tools.

LIST OF PRACTICALS

Using UML tools produce analysis and design models for

- a. Library Management System
- b. Automatic Teller Machine
- c. Student Information Management
- d. Matrimony Service
- e. Stock Management System

Extended Professional Component	Questions related to the above topics, from various competitive examinations UPSC / TRB / NET / UGC — CSIR / GATE / TNPSC / others to be solved (To be discussed during the Tutorial hour)						
Skills acquired from the Course	Knowledge, Problem Solving, Analytical ability, Professional Competency, Professional Communication and Transferrable Skill						

Extended Professional	Questions related to the above topics, from various competitive
Component	examinations UPSC / TRB / NET / UGC –
	CSIR / GATE / TNPSC / others to be solved (To be discussed
	during the Tutorial hour)

Skills acquired from	Knowledge, Problem Solving, Analytical ability, Professional
the	Competency, Professional Communication and TransferrableSkill
Course	

Learning Resources:

Recommended Texts

- 3. Roger D. Peng," R Programming for Data Science ", 2012
- 4. Norman Matloff,"The Art of R Programming- A Tour of Statistical Software Design", 2011

Reference Books

- 3. Garrett Grolemund, Hadley Wickham,"Hands-On Programming with R: Write Your Own Functions and Simulations", 1st Edition, 2014
- 4. Venables, W.N., and Ripley, "S programming", Springer, 2000.

CORE -XIII: COST ACCOUNTING - II

Subject	oject v m n n n n n n n n n n n n n n n n n n											
Code	L	T	T P S		Credits	Hours	CIA	Externa	l Total			
Couc	6				4	6	25	75	100			
	Learning Objectives											
I O1	Т	1 4	1 414		•							
LO1 LO2					ds in Cost Ac							
LO2					ontract costin		•					
LO3		rn abou				css costing	·•					
LO5					ard costing.							
					Cost Accoun	nting in V	Sem					
Unit					Contents	<u> </u>			No. of Hours			
I	Cost Accounting Standards An Introduction to CAS – Purpose of CAS – Advantages of CAS — Difference between CAS and FAR Regulations – Different Degrees of CAS Coverage – Cost Accounting Standards - Responsibility Accounting and Divisional Performance Measurement.											
II	Defini	tions -	Featur	es - A	ng and Cont Comparison tract - Prepa	- Calculat	tion of Prof		18			
III	Contracts – Cost Plus Contract - Preparation of Contract A/c. Process Costing Process Costing – Meaning – Features of Process Costing – Application of Process Costing – Fundamental Principles of Process Costing – Preparation of Process Accounts - Treatment of Loss and Gain : Normal and Abnormal Loss - Abnormal Gain - Concept of Equivalent Production - Joint								18			
IV	Opera Opera Sheet	- Tra	osting osting osport	– Mea	ning – Prep				18			
V	Costing—Simple Problems. Standard Costing and Variance Analysis Definition — Objectives — Advantages — Standard Cost and Estimated Cost — Installation of Standard Costing System — Variance Analysis — Material, Labour, Overhead, and Sales								18			
	TOTA		Juicuia	1011 01	Variances.				90			
THEOR			OBLE	MS 80)%							
	/ -	-			Course Outc	omes						
CO1	Remen	ber and	d recall	standa	ards in cost a	ccounting						
					ntract costing							
	Analyz	e and a	ssimila	te con	cepts in proc	ess costing						
CO4	Unders stateme		rious b	ases o	f classification	on cost and	prepare op	erating cos	st			
CO5	Set up	standar	ds and	analys	e variances.							

	Textbooks								
1	Jain S.P. and Narang K.L. Cost Accounting. Kalyani Publishers. New Delhi.								
2	Khanna B.S., Pandey I.M., Ahuja G.K., and Arora M.N., Practical Costing, S Chand & Co, New Delhi.								
3	Dr.S.N. Maheswari, Principles of Cost Accounting, Sultan Chand publications, New Delhi.								
4	T.S. Reddy and Y. Hari Prasad Reddy, Cost Accounting, Margham publications, Chennai.								
5	S.P. Iyengar, Cost Accounting, Sultan Chand Publications, New Delhi.								
	Reference Books								
1	Polimeni, Cost Accounting: Concepts and Applications for Managerial Decision Making, New York, McGraw–Hill, Noida.								
2	Jain S.P. and Narang K.L. Cost Accounting, Kalyani Publishers, New Delhi.								
3	V.K.Saxena and C.D. Vashist, Cost Accounting, Sultan Chand publications, New Delhi.								
4	Murthy A &Gurusamy S, Cost Accounting, Vijay Nicole Imprints Pvt. Ltd. Chennai.								
5	Prasad. N.K and Prasad.V.K, Cost Accounting, Book Syndicate, Bangladesh.								
NOTE	: Latest Edition of Textbooks May be Used								
	Web Resources								
1	https://www.economicsdiscussion.net/cost-accounting/contract-costing/32597								
2	https://www.wallstreetmojo.com/process-costing/								
3	https://www.accountingnotes.net/cost-accounting/operating-costing/17755								

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	3	2	3	3	3	3	3	2	2
CO2	3	3	3	2	2	3	2	2	3	2	3
CO3	3	3	3	2	3	3	3	3	3	2	2
CO4	3	3	3	2	2	3	2	2	3	2	2
CO5	3	3	3	2	3	3	3	3	3	2	3
TOTAL	15	15	15	10	13	15	13	13	15	10	12
AVERAGE	3	3	3	2	2.6	3	2.6	2.6	3	2	2.4

3 – Strong, 2- Medium, 1- Low

$\underline{THIRD\ YEAR-SEMESTER-VI}$

CORE - XIV: MANAGEMENT ACCOUNTING

Subject	-	Marks										
Code		L T I		S	Credits	Inst. Hours	CIA	Extern	al Total			
	6				4	6	25	75	100			
		I		L	earning Obj	ectives						
LO1	To un	derstan	d basic		agement acco							
LO2					nancial Stater		rsis					
LO3	To familiarize with fund flow and cash flow analysis											
LO4		rn abou				<u> </u>						
LO5					inal costing.							
Prerequ	isite: S	hould l	nave st	udied	Financial A	ccounting	in I Semest	ter.				
Unit					Contents				No. of Hours			
]	Manage Limitat	ement ions -	Accour Manag	nting gemen	ent Account — Meaning t Accounting	ScopeVs Cost	t Accounting					
	Analysi Signific	s and leance —	Interpre Types	etation of Fi	s Financial A of Financial nancial Analy - Common	l Statemen ysis – Too	ts — Nature ls of Analy	sis –	18			
II I	Ratio Analysis Ratio Analysis: Meaning – Advantages – Limitations – Types of Ratios – Liquidity Ratios – Profitability Ratios – Turnover Ratios – Solvency Ratios – Leverage Ratios - Preparation of Financial Statements from Ratios.								18			
III (Funds: Introduction Flow of Adjuster Statement Cash Frepara Operati	pital- Flow ons –	18									
IV]	Budget Meanin Flexible	and B g – Pre e Budge	udgeta paratio et— Pro	ry Co n of V ductio	ntrol arious Budge n Budget – S	ets – Cash I			18			
V 1	Budget – Budgetary Control – Benefits Marginal Costing: Meaning - Features – Marginal Costing vs Absorption Costing - Fixed Cost, Variable Cost and Semi Variable Cost- Contribution- Marginal Cost Equation- P/V Ratio - Break Even Point - Margin of Safety – Cost- Volume Profits Analysis. Decision Making: Selection of a Product Mix – Make or Buy Decision – Discontinuance of a product line – Change or Status quo – Limiting Factor or Key Factor.											
					TOTAL				90			

THEO	RY 20% & PROBLEMS 80%									
CO	Course Outcomes									
CO1	Remember and recall basics in management accounting									
CO2	Apply the knowledge of preparation of Financial Statements									
CO3	Analyse the concepts relating to fund flow and cash flow									
CO4	Evaluate techniques of budgetary control									
CO5	Formulate criteria for decision making using principles of marginal costing.									
	Textbooks									
1	Jain S.P. & Narang K.L. (2018) Cost and Management Accounting, Kalyani Publications,									
2	Rds. Maheswari, Cost and Management Accounting, Sultan Chand Sons Publications, New Delhi.									
3	Sharma and Shashi K. Gupta, Management Accounting, Kalyani Publishers, Chennai.									
4	Jenitra L Mervin ,Daslton L Cecil, Management Accounting, Lerantec Press, Chennai.									
5	T.S.Reddy& Y. Hari Prasad Reddy, Management Accounting, MarghamPublications, Chennai.									
	Reference Books									
1	Chadwick – The Essence of Management Accounting, Financial Times Publications, England.									
2	Charles T.Horngren and Gary N. Sundem–Introduction to Management Accounting, Pearson, Chennai.									
3	Murthy A and GurusamyS ,Management Accounting- Theory &Practice, Vijay Nicole Imprints Pvt. Ltd .Chennai.									
	Nicole imprints I vt. Ltd .Chemiai.									
4	Hansen - Mowen, Cost Management Accounting and Control, South Western College, India.									
5	Hansen - Mowen, Cost Management Accounting and Control, South Western									
5	Hansen - Mowen, Cost Management Accounting and Control, South Western College, India.									
5	Hansen - Mowen, Cost Management Accounting and Control, South Western College, India. N.P. Srinivasan, Management Accounting, New Age publishers, Chennai.									
5	Hansen - Mowen, Cost Management Accounting and Control, South Western College, India. N.P. Srinivasan, Management Accounting, New Age publishers, Chennai. Latest Edition of Textbooks May be Used									
5 NOTE	Hansen - Mowen, Cost Management Accounting and Control, South Western College, India. N.P. Srinivasan, Management Accounting, New Age publishers, Chennai. Latest Edition of Textbooks May be Used Web Resources https://www.accountingnotes.net/companies/fund-flow-analysis/fund-flow-									

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	2	3	2	3	3	3	2	2
CO2	3	2	2	2	3	2	2	2	3	2	3
CO3	3	2	3	2	3	2	3	3	3	2	2
CO4	3	2	2	2	3	2	2	2	3	2	2
CO5	3	3	3	2	3	2	3	3	3	2	3
TOTAL	15	11	13	10	15	10	13	13	15	10	12
AVERAGE	3	2.1	2.6	2	2	2	2.6	2.6	3	2	2.4

3 – Strong, 2- Medium, 1- Low

CORE - XV: INCOME TAX LAW AND PRACTICE - II

Subjec	et L	Т	P	S	Credits	Inst.		Ma	rks				
Code		1	r	2	Credits	Hours	CIA	Ex	ternal	Total			
	6				4	6	25		75	100			
LO1	To u												
LO2	To kı	To know the provisions for computation of income from other source. To familiarize law relating to set off and carry forward of losses and											
LO3	To fa from	and ded	uctions										
LO4					of individua	1s							
LO5													
	LO5 To gain knowledge about assessment procedures. Prerequisite: Should have studied Financial Accounting in I stSem												
_			iiu ve st	uuicu	Contents	ccounting	III I SUSCIII	•	No. of	•			
Unit					0011001108				Hours				
	Capita	al Gains	<u> </u>										
	-			ansfer	- Short terr	m vs Long	term cap	oital		10			
I	assets	- Comp	utation	of Cap	oital Gains –	Exemption	under Sect	tion	18				
	54,54	B, 54D	, 54EC,	54F, 5	54GA.								
	Incom	e From	Other	Sourc	es & Clubb	ing of Inco	me						
II	Charge	eability	- Com	putatio	on of Income	from Oth	er Sources	_	18				
	Deduc	tions Al	lowed -	– Club	bing of Inco	me – Conc	ept						
	Set O	ff and (Carry 1	Forwa	rd of Losse	s and Ded	uctions Fr	om					
	Gross	Total I	ncome										
	Gross	Total In	come v	s Tota	al Income - I	Provisions	for Set-off	and					
III	Carry	Forwar	d of L	osses	(Simple Pro	blems). D	eductions	U/S	18				
	80C, 80CC, 80CCB, 80CCC, 80CCD, 80 CCE, 80D, 80DD,												
					EA, 80EEB	, 80G, 80	GG, 80G0	GA,					
		A, 80TT											
	-				ome – Indivi		т 11 11	1					
IV	-				me - Tax L	iability of	an Individi	ıals	1	18			
		egime v											
		e Tax A				_							
					Tax Act – I								
					s of Income								
V	for Assessment – Filing of Return – Due Dates of Filing – Voluntary Filing – Return of Loss – Belated Return – Defective									18			
		•	-		– Permanent								
		_	•					-					
	, e-PAN – Tax credit statement (26 AS) and Annual Information Statement (AIS).												
	~	(* 11)	- /-		TOTAL				(90			

THEORY 20% & PROBLEMS 80%

	Course Outcomes							
CO1	Remember and recall provisions on capital gains							
CO2	Apply the knowledge about income from other sources							
CO3	Analyse the set off and carry forward of losses provisions							
CO4	Learn about assessment of individuals							
CO5	Apply procedures learnt about assessment procedures.							
	Textbooks							
1	V.P.Gaur, Narang, Puja Gaur and Rajeev Puri- Income Tax Law and Practice, Kalyani Publishers, New Delhi.							
2	T.S. Reddy and Hariprasad Reddy, Income Tax Law and Practice, Margham Publications, Chennai.							
3	Dinkar Pagare, Income Tax Law and Practice, Sultan & Chand Sons, New Delhi.							
4	Mehrotra H.C, Dr.Goyal S.P, Income Tax Law and Accounts, Sahitya Bhavan Publications, Agra.							
5	T. Srinivasan – Income Tax & Practice –Vijay Nicole Imprints Private Limited, Chennai.							
	Reference Books							
1	Hariharan N, Income Tax Law & Practice, Vijay Nicole Imprints Pvt. Ltd. Chennai.							
2	Bhagwati Prasad, Income Tax Law and Practice, Vishwa Prakasan, New Delhi.							
3	Vinod K. Singhania, Students Guide to Income Tax., U.K. Bharghava Taxman, New Delhi.							
4	Dr. Vinod K Singhania, Dr. Monica Singhania, Taxmann's Students' Guide to Income Tax, New Delhi.							
5	Mittal Preethi Rani and Bansal Anshika, Income Tax Law and Practice, Sultan & Chand Sons, New Delhi.							
NOTE	: Latest Edition of Textbooks May be Used							
	Web Resources							
1	https://www.investopedia.com/terms/c/capitalgain.asp							
2	https://www.incometaxmanagement.com/Direct-Taxes/AY-2021-							
2	22/assessment/1-assessment-of-an-individual.html							
3	https://www.incometax.gov.in/iec/foportal/							

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	2	3	2	3	3	3	2	2
CO2	3	2	2	2	2	2	2	2	3	2	3
CO3	3	3	3	2	3	2	3	3	3	2	2
CO4	3	2	2	2	2	2	2	2	3	2	2
CO5	3	3	3	2	3	2	3	3	3	2	3
TOTAL	15	12	13	10	13	10	13	13	15	10	12
AVERAGE	3	2.2	2.6	2	2.6	2	2.6	2.6	3	2	2.2

3 – Strong, 2- Medium, 1- Low

DISCIPLINE SPECIFIC ELECTIVE 5/6 ENTREPRENEURIAL DEVELOPMENT

Subject		T		G	G - 124	Inst.		Marks				
Code	L	T	P	S	Credits	Hours	CIA	Externa	l Total			
	5				3	5	25	75	100			
				L	earning Obje	ectives						
LO1	To kno	w the	mean	ing aı	nd characteris	tics of entre	epreneurs	hip				
LO2					ousiness oppo		1					
LO3					ess of setting u		orise					
LO4	To gai		wledg	ge in	the aspects o	of legal Con	mpliance	of setting	up of an			
LO5		o develop an understanding of the role of MSME in economic growth										
Prerequisi					Commerce i							
Unit					Content	S			No. of Hours			
I	Meanir Entrepri — Diff Meanir Entrepri	Introduction to Entrepreneur Meaning of Entrepreneurship – Characteristics of Entrepreneurship – Types of Entrepreneurship – Self Employment – Difference between Entrepreneurship and Employment – Meaning of Entrepreneur – Traits – Classification – Functions – Entrepreneurial Scenario in India.										
II	Design Thinking Idea Generation – Identification of Business Opportunities – Design Thinking Process – Creativity – Invention – Innovation – Differences – Value Addition – Concept and Types – Tools and Techniques of Generating an Idea – Turning Idea into Business											
III	Opportunity. Setting up of an Enterprise Process of Setting Up an Enterprise – Forms of an Enterprise – Sole Proprietorship – Partnership – Limited Liability Partnership Firm – Joint Stock Company – One Man partnership – Choice of Form of an Enterprise – Feasibility Study – Marketing,								15			
IV	Technical, Financial, Commercial and Economical. Business Model Canvas and Formulation of Project Report Introduction – Contents of Project Report – Project Description – Market Survey – Fund Requirement – Legal Compliance of setting Up of an Enterprise – Registration – Source of Funds – Modern Sources of Funds											
V	Modern Sources of Funds. MSME's and Support Institutions Government Schemes and Women Entrepreneurship – Importance of MSME for Economic Growth – MSME – Definition – Role of Government Organizations in Entrepreneurship Development – MSME DI – DIC – Khadi and Village Industries Commission – NSIC – NABARD, SICVI, SFC, SDC, EDII, EPCCB. Industrial Estates – Government Schemes – Prime Minister Employment Generation Programme – Women Entrepreneurship in India. TOTAL											

	Course Outcomes							
CO1	Identify the various traits of an entrepreneur							
CO2	Turn ideas into business opportunities							
CO3	Do feasibility study before starting a project							
CO4	Identify the sources of funds for funding a project							
CO5	Develop an understanding about the Government schemes available for women entrepreneurs							
	Textbooks							
1	Jayashree Suresh, (Reprint 2017) Entrepreneurial Development, Margham Publications. Chennai.							
2	Dr. C.B. Gupta &Dr. S.S. Khanka (Reprint 2014). Entrepreneurship And Small Business Management, Sultan Chand & Sons, New Delhi.							
3	Charantimath Poornima, (Reprint 2014.), Entrepreneurship development-Small, Pearson Education, India.							
4	RajShankar,(Reprint2016),EntrepreneurshipTheoryandPractice,VijayNicoleand Imprints Pvt. Ltd, Chennai.							
5	Vasant Desai, (Reprint 2017). Dynamics of Entrepreneurial Development & Management Twenty Fourth Edition. Himalaya Publishing House. Mumbai.							

	Reference Books							
1	Anil kumar, Poornima, Principles of Entrepreneurial development, Newage publication, Chennai.							
2	Dr.A.K.singh, Entreprenuerial development and management, Laxmi publications, Chennai.							
3	Dr. R.K. Singal, Entreprenuerial development and management, S.K.Kataria publishers, New Delhi.							
4	Dr. M.C. Garg, Entrepreneurial Development, New Delhi.							
5	E.Gordon, K.Natrajan, Entreprenuerial development, Himalaya publishing, Mumbai.							
NOTI	E: Latest Edition of Textbooks May be Used							
Web 1	Resources							
1.	https://www.interaction-design.org/literature/topics/design-thinking							
2.	https://www.bms.co.in/steps-involved-in-setting-up-of-an-enterprise/							
3.	http://www.msme.gov.in/							

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	2	3	2	3	3	3	2	2
CO2	3	2	2	2	2	2	2	2	3	2	3
CO3	3	3	3	2	3	2	3	3	3	2	2
CO4	3	2	2	2	2	2	2	2	3	2	2
CO5	3	3	3	2	3	2	3	3	3	2	3
TOTAL	15	12	13	10	13	10	13	13	15	10	12
AVERAGE	3	2.2	2.6	2	2.6	2	2.6	2.6	3	2	2.4

3 – Strong, 2- Medium, 1- Low

DISCIPLINE SPECIFIC ELECTIVE – 6/6: HUMAN RESOURCE MANAGEMENT

Subjec	t L	Т	Р	S	Credits	Inst.		Marks	
Code	L	1	P	3	Credits	Hours	CIA	External	Total
	5				3	5	25	75	100
	Learning Objectives								
C1	C1 To explore to the aspects relating of Human resource management								
C2	C2 Toequip with the various processes of Recruitment and Selection								
С3	To be a Apprais		nted	with	Training me	thods and t	the conce	ept of Perfo	ormance
C4	To learn	ı abou	t Indu	ıstrial	Relations				
C5	To assimilate knowledge on employee welfare.								
Prerequ	isite: Sh	ould h	ave s	tudie	d Commerce	in XII Std			

Unit	Contents	No. of Hours
I	Introduction to HRM Definition of HRM, Objectives – Importance – Nature- Scope, Role and Qualities of a HR Manager - Human Resource Planning - Meaning, Definition, Importance, Factors Affecting HRP, Process Involved in Human Resource Planning. Human Resource Information System (HRIS) - Job Analysis, Need for Job Analysis, Steps in Job Analysis, Job Description and Specification.	12
II	RECRUITMENT AND SELECTION Definition – Objectives – Factors affecting recruitment – internal and external source of recruitment – Selection Process – Curriculum Vitae –Test- types– Kinds of employment interview – Medical Screening – Appointment Order.	12
III	TRAINING AND DEVELOPMENT Induction – Training – Methods – Techniques – Identification of the training needs – Training and Development – Performance appraisal – Transfer – Promotion and termination of services – Career Development.	12
IV	INDUSTRIAL RELATIONS Industrial Disputes and Settlements (Laws Excluded) – Settling Industrial Disputes in India – Arbitration – Adjudication – SettlementLabour Relation – Functions of Trade Unions – Forms of collective bargaining-Workers" participation in management – Types and effectiveness.	12
V	EMPLOYEE WELFARE Employee Welfare: Meaning, Objectives, Philosophy, Scope, Limitations, Types of Employee Welfare, Statutory and Non- Statutory Welfare Measures, and Labour Welfare Theories- Social Security, Health, Retirement &Other Benefits- Remuneration – Components of remuneration – Incentives – Benefits	12
	TOTAL	60

CO	Course Outcomes
CO1	Examine the role of HRM in the new ageorganisation and plan man power requirements and implement techniques of job design.
CO2	Formulate action plans for employee Recruitment and Selection.
CO3	Choose appropriate methods of Trainning
CO4	Estimate, defend and handle legal compliance in HRM involving trade union disputes and employee retention.
CO5	Formulate strategies for employee welfare.
	Textbooks
1	Ashwathappa, Human Resource Management, Tata McGraw-Hill Education, Noida.
2	Mamoria, C.B. and Gaonkar, S.V, Personnel Management, Himalaya Publishing House, Mumbai.
3	Sunil Lalla and Neha Shukla, Human Resource Management, Nirali Prakashan Publishers, Pune.
4	P.Subba Rao, Personnel and Human Resource Management, Himalaya Publishing House, Mumbai.
	Reference Books
1	L.M. Prasad, Human Resource Management, Sultan and Chand sons Publications, New Delhi.
2	DeCenzo, D.A. and Robbins, S.P Human Resource Management, Wiley, India.
3	Dr.K.Sundar and Dr.J Srinivasan, Human Resource Development, Margham Publications, Chennai.
4	Jane Weightman, Human Resource Management, VMP Publishers, Mumbai.
NOTE:	Latest Edition of Textbooks May be Used
	Web Resources
1	https://hr.university/shrm/strategic-human-resource-management/
2	https://www.investopedia.com/terms/c/collective-bargaining.asp
3	https://www.yourarticlelibrary.com/human-resource-management-2/employee-welfare/employee-welfare/99778

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	2	3	2	3	3	3	2	2
CO2	3	2	2	2	2	2	2	2	3	2	3
CO3	3	3	3	2	3	2	3	3	3	2	2
CO4	3	2	2	2	2	2	2	2	3	2	2
CO5	3	3	3	2	3	2	3	3	3	2	3
TOTAL	15	12	13	10	13	10	13	13	15	10	12
AVERAGE	3	2.2	2.6	2	2.6	2	2.6	2.6	3	2	2.2

3 – Strong, 2- Medium, 1- Low

<u>DISCIPLINE SPECIFIC ELECTIVE - 7 / 8: R LANGUAGE</u>

Subject	T	LT		S	Credits	Inst.		Marks	
Code		1	P		Credits	Hours	CIA	External	Total
		2	3		3	5	25	75	100
Learning Objectives									
LO1	Acquire programming skills in core R Programming								
LO2	Acquir	e Obje	ect-ori	iented	programmin	ıg skills in F	R Progran	nming.	
LO3	Develo	p the	skil	ll of	designing	graphical-u	ser inter	faces (GUI)	in R
	Progra	mming	ğ						
LO4	LO4 Acquire R Programming skills to move into specific branches								
Prerequisi	te: Sho	ıld ha	ve stı	ıdied	Commerce	in XII Std			

T-							
	List of Exercises						
	1. Data In R						
	2. Reading And Writing Data						
	3. R And Databases						
	4. Dates						
	5. Factors						
	6. Subscribing						
	7. Character Manipulation						
	8. Data Aggregation						
	9. Reshaping DataBasics						
	10. The R Environment						
	11. Probability And Distributions						
	12. Descriptive Statistics and Graphics						
	13. One- And Two-Sample Tests						
	14. Regression And Correlation						
	15. Analysis Of Variance And The Kruskal–Wallis Test						
	16. Tabular Data						
	17. Power And The Computation Of Sample Size						
	18. Advanced Data Handling						
	19. Multiple Regression						
	20. Linear Models						
	21. Logistic Regression						
	22. Survival Analysis						
	23. Rates And Poisson Regression						
	24. Nonlinear Curve Fitting						
	TOTAL						
	Course Outcomes						
CO1	To understand the problem solving approaches						
CO2	To learn the basic programming constructs in R Programming						

CO3	To practice various computing strategies for R Programming -based solutions to real world problems
CO4	To use R Programming data structures - lists, tuples, dictionaries.
CO5	To do input/output with files in R Programming

DISCIPLINE SPECIFIC ELECTIVE – 8/8: PRACTICAL TALLY

Subjec	t	_				C - 1'4	Inst.	Marks			
Code		L	T	P	S	Credits	Hours	CIA	External	Total	
			2	3		3	5	25	75	100	
	Learning Objectives										
LO1	E	xamir	nation	of				ations a	s they an	ply to	
LOI		Examination of general accounting applications as they apply to computerized financial records for each step of the accounting cycle to the									
	completion of financial statements, as well as managementaccounting										
	applications.										
Preregui				ve sti	udied	Commerce i	n XII Std				
1						List of Exer					
		1.	Prepa	ration	n of T	Trial Balance	- preparat	tion of p	rofit and		
						alance sheet	1 1	1			
		2.	Intere	st si	mple,	compound	interest ca	lculation.	Setting		
					_	terest report.					
		3.	Recei	vable	and	payable man	agement, m	neaning a	ctivating		
	bill wise details, alltypes of entries 4. Cost Centres and Category summary, cost centre breakup										
			_		_	oup breakup		_			
						t receivable					
						v daybook	list of a	ccount 1	reversing		
						l vouchers.					
	5. Budget Budgetary control creation of budget, group budget Budgetary ledgercreation alteration of budget										
			_		_	-	eation alter	ration of	budget		
					budg		.44:	41:41	CCT		
		6.				GST, G					
						out tax to GS	S1,Interest	suppry o	i goods,		
		7	GST	-		nce entries,	Evnorta In	anorta E	wamntad		
		7.		_		ent andReturi			-		
		Q			-	imerce Intro	-				
		0.				roceduresfor	,				
						troduction, In		-	-		
			Distri			iroduction, in	nportant 10	mes, mpe	itibel vice		
		9.				out Tax Cred	lit. Returns	. GSTR-	2. Other		
		· ·		_		s, AnnualRet					
						Other Provision	,	10 11 01 01	1021		
		10.						em. GST	Suvidha		
10. GST Portal, Introduction, GST Eco-system, GST Suvidha Provider (GSP), UploadingInvoices											
TOTAL											
	Course Outcomes										
CO1	input journal entries, adjust entries and prepare financial statements for cash and accrual-based businesses										
CO2	record vendor, customer, and inventory transactions essential for maintaining										
	accounts payable, accounts receivable, and inventory subsidiary ledgers										

PROFESSIONAL COMPETENCY SKILL

GENERAL AWARENESS FOR COMPETITIVE EXAMINATION

Subject Code		LT	Т	P	PS	Credits	Inst.				
			1	Г			Hours	CIA	External	Total	
		2				2	2	25	75	100	
	Learning Objectives										
LO1	To create the opportunity for learning across different disciplines and								d builds		
	experience for students as they grow into lifelong learners.										
LO2	To build experiences for students as they grow into lifelong learners.										
LO3	To know the basic concepts of various discipline										
Prerequisites: Should have studied Commerce in XII Std											
UNIT						Details	}			No. of	
										Hours	
		an Po	-								
			-			organs of I	_				
	_				-	ntroduction to					
I						Preamble, Fu		·		6	
	duties, Directive Principles of State policy, Types of Majority,										
	Amendments to the Constitution, Basic structure Doctrine, Division of										
	subjects between the union and the states local Governance, Elections in										
	India and Election Commission, CAG. Geography										
	`		•	of the	o 11101	rld Importan	et Canala	Culfa	Straits and		
						rld <i>—</i> Importar d its Tributari					
	_								_		
II	Wind systems, Clouds systems, World climatic classification – Indian climate – Indian Monsoon – Indian"s physical features, Indian Soil types									6	
	and Distribution – Importance Trade routes and projects, Indian naturals										
	vegetation – Indian agriculture- Major crops and its distribution, Indian										
	Industries and its Distribution.										
_		nomy									
III	National Income – Inflation – Money and Banking - Agriculture in India										
	- Union Budget - Planning in India - Poverty - Unemployment -										
	Inclusive Development and Development issues – Industrial polices –										
	Financial Markets.										
	History										
						of Indian Na	_		-		
		,			•	ctivities – Wo			-		
IV				_		ontague Chel				6	
			-			nent – Simon			-		
	Civil Disobedience Movement and Round Table conferences - Quit										
	India Movement and Demand for Pakistan – Cabinet Mission – Formation of Constituents Assembly and partition of India.										
	Forn	natior	of C	onstit	uents	Assembly an	d partition o	of India.			

	Environment and Ecology					
	Basic concepts – Ecology, Biodiversity- Food chain and food web – Bio					
V	Geo Chemical Cycles – International Bio Diversity organisations-	6				
	International Conventions – Conferences and Protocol – Indian					
	Environmental laws and Environment Related organisation					
	TOTAL					
	Course Outcomes					
CO1	Develop board knowledge of the different components in polity					
CO2	Understand the Geographical features across countries and in India					
CO3	Acquire knowledge on the aspects of Indian Economy					
CO4	Understand the significance of India"s Freedom Struggle					
CO5	Gain knowledge on Ecology and Environment					

Textbooks							
1	Class XI and XII NCERT Geography						
2	History – Old NCERT"S Class XI and XII						
	Reference Books						
1	M. Laxmi Kant (2019), Indian polity, McGraw-Hill						
2	Ramesh Singh (2022), Indian Economy, McGraw - Hill						
3	G.C Leong, Physical and Human Geography, Oxford University Press						
4	Majid Hussain- India Map Entries in Geography, GK Publications Pvt, Ltd.						
NOTE:	NOTE: Latest Edition of Textbooks May be Used						
	Web Resources						
1	https://www.freebookkeepingaccounting.com/using-excel-in-accounts						
2	https://courses.corporatefinanceinstitute.com/courses/free-excel-crash-course-for-finance						
3	https://www.youtube.com/watch?v=Nv_Nnw01FaU						