

JAYARAJ ANNAPACKIAM COLLEGE FOR WOMEN (AUTONOMOUS)

**A Unit of the Sisters of St. Anne of Tiruchirappalli
Accredited with 'A+' Grade (Cycle 4) by NAAC
DST FIST Supported College
Affiliated to Mother Teresa Women's University,
Kodaikanal**

**PERIYAKULAM – 625 601, THENI DT.
TAMIL NADU.**



**COMMERCE WITH COMPUTER
APPLICATION**

(2023-2026)

DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION
PROGRAMME OUTCOMES

PO. NO.	UPON COMPLETION OF THIS PROGRAMME THE STUDENTS WILL BE ABLE TO
1.	Gain theoretical knowledge and apply the expertise in different fields.
2.	Acquire Industry specific skills and can emerge as entrepreneurs.
3.	Develop critical and rational thinking to solve societal issues.
4.	Explore the knowledge acclimatize in the ever changing work environment.
5.	Evolve theories and develop innovative discipline specific ideas.
6.	Comprehend the nuances and develop innovative, discipline - specific ideas.

PROGRAMME SPECIFIC OUTCOMES (PSO)

PSO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PO MAPPED
1	Effectively utilize one's knowledge in commerce and computer applications within multidisciplinary environments, both as an individual and as a leader.	PO - 1
2	Acquire analytical skills and utilize the latest techniques and tools to solve complex problems while incorporating knowledge in Accounting, Statistics, Banking, Taxation, Marketing, Auditing, and Computer Languages.	PO - 3 & 5
3	Learners will be able to solve problems using computer programming and getting familiar with the fundamentals concepts of computers.	PO - 2
4	Acquire practical skills related with latest technologies within the realm of commerce and computer applications.	PO - 6
5	Enhance students' communication skills, ethical values, teamwork abilities, and professionalism, as well as to foster leadership skills, there by empowering them to engage in entrepreneurial activities	PO - 4

U.G. COURSE PATTERN - (2023 - 2026) (UGC/ TANSCH/ MTU)

Sem.	Part	Code	Title of the Course	Hours	Credit
I	I	23GT1GS01/ 23GH1GS01	Tamil-I/ Hindi-I	6	3
	II	23GE1GS01	English-I	4	3
	III	23CC1MC01	Financial Accounting-I	6	5
		23CC1MC02	Principles of Management	5	4
		23CC1AC1A/ 23CC1AC1B	Computer fundamentals-/ Business Simulation	3	3
		23CC1AP1A / 23CC1AP1B	Computer fundamentals -Lab / Business Simulation - Lab	2	1
	IV	23AE1PE01	Ability Enhancement Course -1 (AEC-1): (Soft Skill - 1) (English Dept.) Professional English	2	2
	IV	23CC1FC01	Professional Communication Skills #	2	2
	V	23STPNS01/ 23STPNC01/ 23STPPE01/ 23STPCC01/ 23STPRR01/ 23STPRC01	Students Training Programme: National Service Scheme/ National Cadet Corps/ Physical Education/ Consumer Club/ Red Ribbon Club/ Youth Red Cross	-	-
			Total	30	23
II	I	23GT2GS02/ 23GH2GS02	Tamil-II/ Hindi-II	6	3
	II	23GE2GS02	English-II	4	3
	III	23CC2MC03	Financial accounting -II	6	5
		23CC2MC04	Programming with C++ #	3	2
		23CC2CP01	Programming with C++ - Lab	2	2
		23CC2AC2A/ 23CC2AC2B	Business Law/ Business Communication	5	4
	IV	23AE2VE02	Ability Enhancement Course - 2 (AEC - 2) : Sustainability Life Skills	2	2
		23SE2CE02	Skill Enhancement Course -1 (SEC- 1): Effective English	2	2
	V	23STPNS01/ 23STPNC01/ 23STPPE01/ 23STPCC01/ 23STPRR01/ 23STPRC01	Students Training Programme: National Service Scheme/ National Cadet Corps/ Physical Education/ Consumer Club/ Red Ribbon Club/ Youth Red Cross	-	-
			Total	30	23

Sem.	Part	Code	Title of the Course	Hours	Credit
III	I	23GT3GS03/ 23GH3GS03	Tamil-III/ Hindi-III	6	3
	II	23GE3GS03	English-III	4	3
	III	23CC3MC05	Corporate Accounting- I	5	4
		23CC3MC06	Company Law	5	4
		23CC3AC3A/ 23CC3AC3B	Visual Basic/ Database Management System	3	3
		23CC3AP3A / 23CC3AP3B	Visual Basic-Lab / Database Management System -Lab	2	1
	IV	23SE3CC03	Skill Enhancement Course - 2 (SEC-2): (Entrepreneurial Based) (Hands on Training) Creative Designing products #	1	1
		23CC3GE01/ 23GE3NC01	GE- 1 (Arts to Arts and Science to Science) # Business Environment/ National Integration and Personality Development	2	2
		23AE3ES03	Ability Enhancement Course - 3 (AEC - 3) Environmental Studies	2	2
	V	23STPNS01/ 23STPNC01/ 23STPPE01/ 23STPCC01/ 23STPRR01/ 23STPRC01	Students Training Programme: National Service Scheme/ National Cadet Corps/ Physical Education/ Consumer Club/ Red Ribbon Club/ Youth Red Cross	-	-
			Total	30	23
IV	I	23GT4GS04/ 23GH4GS04	Tamil-IV/ Hindi-IV	6	3
	II	23GE4GS04	English-IV	4	3
	III	23CC4MC07	Corporate Accounting - II	5	5
		23CC4MC08	Business Mathematics & Statistics	4	4
		23CC4AP4A/ 23CC4AP4B	JAVA Programming- Lab Computer Networks -Lab	5	4
	IV	23SE4OA4A	Skill Enhancement Course - 3 (SEC- 3)# Multimedia - LAB	3	2
		23CC4GE02/ 23GE4NC02	GE - 2 (Arts to Science and Science to Arts)# Advertising and Salesmanship/ Organization and Health Programme in NCC	2	2
		23AE4CB04	Ability Enhancement Course - 4 (AEC - 4) Capacity Building	1	1
	V	23STPNS01/ 23STPNC01/ 23STPPE01/ 23STPCC01/ 23STPRR01/ 23STPRC01	Students Training Programme: National Service Scheme/ National Cadet Corps/ Physical Education/ Consumer Club/ Red Ribbon Club/ Youth Red Cross	-	1*
			Total	30	24+1*

Sem.	Part	Code	Title of the Course	Hours	Credit
V	III	23CC5MC09	Cost Accounting -I	6	5
	III	23CC5MC10	Banking Law and Practice	6	5
	III	23CC5MC11	Income Tax law and Practice I	5	3
	III	23CC5MC12	Auditing and Corporate Governance	5	3
	III	23CC5DE1A 23CC5DE1B/ 23CC5DE1C	Discipline Specific Elective - 1 Web Design Theory and Lab Cyber Security / Mobile Computing	4	3
		23CC5DE2A/ 23CC5DE2B/ 23CC5DE2C	Discipline Specific Elective - 2 E-Commerce/ Management Information Systems / Computer Architecture and Organization	4	3
	IV	23CC5IN01/ 23CC5IT01	Internship/ Industrial Training (Carried out in II year Summer Vacation) (30 hours) / at least 6 days (IV Sem)	-	2
	V	23SLPEX01	Service Learning Programme: Extension JACEP	-	-
			Total	30	24
VI	III	23CC6MC13	Cost Accounting-II	5	4
		23CC6MC14	Management Accounting	4	3
		23CC6MC15	Income Tax Law and Practice-II	4	3
	III	23CC6CP02	Accounting Software (Tally)	6	5
		23CC6PR01	Project*	4	3
	III	23CC6DE3A 23CC6DE3B/ 23CC6DE3C	Discipline Specific Elective - 3 PHP Theory and Lab Cryptography and Network Security Introduction to ERP	3	2
	IV	23SE6CC04	Skill Enhancement Course (SEC) - 4[#] (Domain specific skill courses) Entrepreneurial Development	4	2
	V	23CC6SS01/ 23CC6SS02/ 23CC6SS03/ 23CC6SS04/ 23CC6SM01	Self Study Course: Digital Marketing/ Principles of Insurance/ Risk Management/ Services Marketing/ MOOCs	-	2*
	V	23SLPEX01	Extension (JACEP)	-	1
			Total	30	23+2*
			Total	180	140+3*

* Extra Credits - Self Study Paper, MOOCs

* Group Project

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate

SKILL DEVELOPMENT PROGRAMME (SDP)**(Certificate Course)**

Code	Title of the Course	Hours	Credit
23CC1SD01	E - Banking	60	2
23CC1SD02	Customer Relationship Management	60	2
23CC1SD03	International Business	60	2

SKILL DEVELOPMENT PROGRAMME (SDP) (CERTIFICATE COURSE)**GANDHIAN THOUGHT**

Code	Title of the Course	Hours	Credit
CCHYGT01	Life of Mahatma Gandhi	60	2
CCHYGT02	Non Violence and Sarvodaya		

CONTINUOUS INTERNAL ASSESSMENT COMPONENT (CIA) - 2023-2026 -UG**CIA Practical components can be decided by the respective Departments.**

**Passing Minimum in the Continuous Internal Assessment is Compulsory for
appearing the External Semester Examination**

Theory:

Component	Marks	Marks
Internal test I	40	Converted to 25
Internal test II	40	
Quiz	10	
Assignment	5	
Attendance	5	
Total	100	25

PRACTICAL:**Continuous Internal Assessment (CIA) - 40 Marks****External Practical Exam - 60 Marks****PROJECT WORK (UG)**

The ratio of marks for Internal and External Examination is 50:50. The Internal Components of Project Work are given below:

THE INTERNAL COMPONENTS OF PROJECT

Components	Marks
First Review	10
Second Review	10
Final Review (Internal Viva Voce)	30
Total	50

EXTERNAL VALUATION OF PROJECT WORK

Components	Marks
Project Report	25
External Viva Voce	25
Total	50

INTERNSHIP (UG)

Components	Marks
Internal	50 Marks
External	50 Marks
Total	100 Marks

INTERNAL COMPONENTS:

Components	Marks
Report Submission	25 Marks
Presentation and viva (internal)	25 Marks
External (Awarded by the Respective Guide / Intern site)	50 Marks

PASSING MINIMUM FOR EXTERNAL SEMESTER EXAMINATION -UG

Semester Examination		
Theory	40% out of 75 Marks (i.e. 30 Marks)	40% out of 100 Marks (i.e. 40 Marks)
Practical	40% out of 60 Marks (i.e. 24 Marks)	

INTERNAL QUESTION PATTERN - UG (2023-2026)

Max. Marks - 40

Duration - 2 Hours

Section	Bloom's level	Course Outcome	Questions
A MCQs (10×1=10)	K1	CO1	1.
		CO1	2.
		CO1	3.
		CO1	4.
		CO1	5.
		CO1	6.
		CO1	7.
		CO1	8.
		CO1	9.
		CO1	10.
B Answer all the Questions (2×5=10)	K2	CO2	11. a) (or) 11. b)
	K3	CO3	12. a) (or) 12. b)
C Answer all the questions (2×10=20)	K4	CO4	13. a) (or) 13. b)
	K5	CO5	14. a) (or) 14. b)

INTERNAL QUESTION PATTERN (Fully Internal Papers) - UG (2023-2026)**Max. Marks - 40****Duration - $1\frac{1}{2}$ Hours**

Section	Bloom's level	Course Outcome	Questions
A MCQs (10×1=10)	K1	CO1	1.
		CO1	2.
		CO1	3.
		CO1	4.
		CO1	5.
		CO1	6.
		CO1	7.
		CO1	8.
		CO1	9.
		CO1	10.
B Answer all the Questions (2×5=10)	K2	CO2	11. a) (or) 11. b)
	K3	CO3	12. a) (or) 12. b)
	K4	CO4	13. a) (or) 13. b)
	K5	CO5	14. a) (or) 14. b)

UG - EXTERNAL QUESTION PATTERN

For Credits 5 and above

Sections	Bloom's level	Course Outcome	Questions
A MCQs 15×1=15	K1	CO1	1
			2
			3
			4
			5
			6
			7
			8
			9
			10
			11
			12
			13
			14
			15
B Answer All the Questions 5×2=10	K2	CO2	16
			17
			18
			19
			20
C Answer ALL the Questions 5×5=25	K1	CO1	21. a)
			Or
			21. b)
	K2	CO2	22. a)
			Or
			22. b)
	K3	CO3	23. a)
			Or
			23. b)
	K4	CO4	24. a)
			Or
			24. b)
	K5	CO5	25. a)
			Or
			25. b)

D Answer All the Questions 5×10=50	K1	CO1	26. a)
			Or
			26. b)
	K2	CO2	27. a)
			Or
			27. b)
	K3	CO3	28. a)
			Or
			28. b)
	K4	CO4	29. a)
			Or
			29. b)
	K5	CO5	30. a)
			Or
			30. b)

UG - EXTERNAL QUESTION PATTERN

For Below 5Credits

Sections	Bloom's level	Course Outcome	Questions
A MCQs 15×1=15	K1	CO1	1
			2
			3
			4
			5
			6
			7
			8
			9
			10
			11
			12
			13
			14
			15
B Answer ALL the Questions 5×6=30	K1	CO1	16. a)
			Or
			16. b)
	K2	CO2	17. a)
			Or
			17. b)
	K3	CO3	18. a)
			Or
			18. b)
	K4	CO4	19. a)
			Or
			19. b)
	K5	CO5	20. a)
			Or
			20. b)
C Answer All the Questions 3×10=30	K2	CO2	21. a)
			Or
			21. b)
	K3	CO3	22. a)
			Or
			22. b)
	K4	CO4	23. a)
			Or
			23. b)

பொதுத்தமிழ் - 1 (பிற துறை மாணவிகளுக்கு மட்டும்)

பருவம்: ஒன்று

நேரம்: 6

குறியீடு: 23GT1GS01

புள்ளி: 3

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	பாரதியார் காலந்தொட்டு தற்காலப் புதுக்கவிதைகள் வரை கவிதை இலக்கியம் அறிமுகப்படுத்தப்படுவதால் படைப்பாற்றல் திறன் அறிந்து கொள்வர்.	PSO-1	K1
CO - 2	புதுக்கவிதை வரலாற்றினை புரிந்து கொள்வார்.	PSO-5	K2
CO - 3	இக்கால இலக்கிய வகையினைக் கற்பதன் மூலம் படைப்பாக்கத் திறனைப் பெறுவர்.	PSO-2	K3
CO - 4	இக்கால இலக்கிய மொழியறிவோடு சிந்தனைத் திறன் அடையும் ஆற்றலை உணர்வர்.	PSO-3	K4
CO - 5	நவீன இலக்கிய உத்திகளைப் பயன்படுத்தி தமிழ் மொழியைப் பிழையின்றி எழுதவும், புதிய கலைச்சொற்களை உருவாக்கும் திறன் பெறுவர்.	PSO-4	K5

K1- நினைவு கூர்தல் K2-புரிதல், K3- பயன்படுத்துதல், K4 - பகுத்தல், K5 - மதிப்பீடு

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: I		பொதுத்தமிழ் - 1 (பிற துறை மாணவிகளுக்கு மட்டும்)										Hours: 6
Code : 23GT1GS01												Credit: 3
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	3	5	2	3	3	3	5	3	2	3	3	3.18
CO - 2	4	3	3	5	3	3	3	3	3	4	5	3.55
CO - 3	3	4	3	3	5	5	4	5	3	3	3	3.73
CO - 4	3	4	5	3	3	3	4	3	5	3	3	3.55
CO - 5	5	3	3	3	3	3	3	3	3	5	3	3.36
Overall Mean Score												3.47

Result: The score for this course is **3.47** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of Cos = $\frac{\text{Total of Values}}{\text{Total No. of Pos \& PSOs}}$	Mean Overall Score for Cos = $\frac{\text{Total of Mean Scores}}{\text{Total No. of Cos}}$
--	--

அலகு 1: மரபுக் கவிதை

- | | | |
|-------------------|---|--|
| 1. பெ. சுந்தரனார் | - | தமிழ்த் தெய்வ வணக்கம் |
| 2. பாரதிதாசன் | - | சிறுத்தையே வெளியில் வா |
| 3. கவிமணி | - | புத்தரும் சிறுவனும் |
| 4. முடியரசன் | - | மொழி உணர்ச்சி |
| 5. கண்ணதாசன் | - | ஆட்டனத்தி ஆதிமந்தி (ஆதிமந்தி புலம்பல்) |
| 6. சுரதா | - | துறைமுகம் |
| 7. தமிழ் ஒளி | - | கடல் |

18 Hours**அலகு 2: புதுக்கவிதை**

- | | | |
|-----------------------|---|--|
| 1. அப்துல் ரகுமான் | - | வீட்டுக்கொரு மரம் வளர்ப்போம் |
| 2. ஈரோடு தமிழன்பன் | - | ஒரு வண்டி சென்ரியூ கவிதைகள் -
(ஐந்து மட்டும்) |
| 3. வைரமுத்து | - | வேறென்ன வேண்டும் |
| 4. மு. மேத்தா | - | வாழைமரத்தின் சபதம் |
| 5. அறிவுமதி | - | வள்ளுவம் பத்து |
| 6. நா. முத்துக்குமார் | - | ஆனந்த யாழை மீட்டுகிறாய் |
| 7. சுகிர்தராணி | - | சபிக்கப்பட்ட முத்தம் |
| 8. இளம்பிறை | - | நீ எழுத மறுக்கும் எனது அழகு |

18 Hours**அலகு 3: சிறுகதைகள்**

- | | | |
|------------------------|---|---|
| 1. ஜெயகாந்தன் | - | வாய்ச்சொற்கள் |
| 2. புதுமைப்பித்தன் | - | கடிதம் |
| 3. உமா மகேஸ்வரி | - | கரு |
| 4. தி. ஜானகிராமன் | - | முள்முடி |
| 5. விழி பா. இதயவேந்தன் | - | சிதறல்கள் |
| 6. சு. சமுத்திரம் | - | காகிதஉறவு |
| 7. அம்பை | - | வீட்டின் மூலையில் சமையல் அறை |
| 8. மலையாளச் சிறுகதைகள் | - | செப்புமொழிபதினெட்டுடையாள் - (மொழிபெயர்ப்புக்
கதை) தந்தையும் மகனும் |

18 Hours**அலகு 4: பாடம் சார்ந்த இலக்கிய வரலாறு****18 Hours****அலகு 5: மொழித்திறன் போட்டித் தேர்வு**

1. பொருள் பொதிந்த சொற்றொடர் அமைத்தல்
2. ஓர் எழுத்து ஒரு மொழி
3. வேற்றுமை - உருபுகள்
4. திணை, பால், எண், இடம்
5. கலைச்சொல்லாக்கம், மொழிபெயர்ப்பு

18 Hours

(குறிப்பு: அலகு 4, 5 ஆகியன போட்டித் தேர்வு நோக்கில் நடத்தப்பட வேண்டும்)

பாட நூல்கள்

1. தமிழ்த்துறை வெளியீடு (தொகுப்பு) - பொதுத்தமிழ் - 1
ஜெயராஜ் அன்னபாக்கியம் மகளிர் கல்லூரி
(தன்னாட்சி), பெரியகுளம்.
2. முனைவர் சி. பாலசுப்பிரமணியன் - தமிழ் இலக்கிய வாலாறு,
பாவை பப்ளிகேஷன்ஸ், சென்னை - 60
இரண்டாம் பதிப்பு - 2016.

பார்வை நூல்கள்:

1. பெ. சுந்தரனார் - மனோன்மனியம்
நியூ செஞ்சுரி புக் ஹவுஸ்
சென்னை.
2. முடியரசன் - முடியரசன் கவிதைகள்,
பாரிநிலையம்,
சென்னை.
3. பாரதிதாசன் - பாரதிதாசன் கவிதைகள்,
மணிவாசகர் பதிப்பகம்,
சென்னை
4. கவிமணி - ஆசிய ஜோதி
பாவை பப்ளிகேஷன்ஸ்
சென்னை.
5. கண்ணதாசன் கவிதைகள் - ஆட்டனத்தி ஆதிமந்தி
வானதி பதிப்பகம்,
சென்னை.
6. வைரமுத்து - வைரமுத்து கவிதைகள்
திருமகள் நிலையம்,
சென்னை.
7. மு. மேத்தா - மு. மேத்தா கவிதைகள்,
கவிதா வெளியீடு,
சென்னை.
8. கவிஞர் சிற்பி - சிற்பியின் கவிதை வானம்,
மணிவாசகர் பதிப்பகம்,
சென்னை.
9. நா. முத்துக்குமார் - ஆனந்த யாழை மீட்டுகிறாய்
இணையவழி தகவல் திரட்டு
10. சுகிர்தாராணி - சபிக்கப்பட்ட முத்தம்
இணையவழி தகவல் திரட்டு

- | | |
|---|--|
| 11. ஜெயகாந்தன் | - ஜெயகாந்தன் சிறுகதைகள்,
கவிதா பப்ளிகேஷன்ஸ்,
சென்னை. |
| 12. ச. சுபாஷ் சந்திரபோஸ்
(தொகுப்பாசிரியர்) | - புதுமைப்பித்தன் சிறுகதைகள்,
பாவை பப்ளிகேஷன்ஸ்,
சென்னை. |
| 13. தி. ஜானகிராமன் | - தி. ஜானகிராமன் படைப்புகள்,
ஐந்திணைப் பதிப்பகம்,
சென்னை. |
| 14. சு. சமுத்திரம் | - சு. சமுத்திரம் கதைகள்,
ராஜராஜன் பதிப்பகம்,
சென்னை. |
| 15. தமிழாக்கம் கோ. பிச்சை | - செப்புமொழி பதினெட்டுடையாள்,
நியூசெஞ்சுரி புக் ஹவுஸ்,
சென்னை. |
| 16. சி. பாலசுப்பிரமணியன், | - தமிழ் இலக்கிய வரலாறு
பாவை பப்ளிகேஷன்ஸ், சென்னை - 600 014. |
| 17. புலவர் குழந்தை | - மாணவர் அடிப்படைத் தமிழ் இலக்கணம்,
சாரதா பதிப்பகம்,
சென்னை - 600 014. |
| 18. எ.பி. பாக்கியமேரி | - வகைமை நோக்கில் தமிழ் இலக்கிய வரலாறு
நியூசெஞ்சுரி புக் ஹவுஸ், சென்னை. |

PART I - HINDI - COURSE PATTERN (2023 - 2026)

Part	Sem.	Code	Title of the Paper	Hours/ Week	Credit
I	I	23GH1GS01	Paper - I - Prose, Short Story and Grammar - I	5	3
	II	23GH2GS02	Novel, One act Play, and Grammar - II	5	3
	III	23GH3GS03	Poetry and History of Hindi Literature, Alankar	5	3
	IV	23GH4GS04	General Essay, Technical Hindi, Translation, and Letter Writing	5	3
Total				20	12

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate **TESTING AND EVALUATION**

Course	Continuous Internal Assessment	Semester Examination
Hindi	25%	75%

Continuous Internal Assessment Component (CIA)

Component	Marks	Marks
Internal test I	40	Converted to 25
Internal test II	40	
Quiz	10	
Assignment	5	
Attendance	5	
Total	100	25

CONTINUOUS INTERNAL ASSESSMENT COMPONENT (CIA)

CIA components for Practical can be decided by the respective Departments.
Passing Minimum in the Continuous Internal Assessment is Compulsory for appearing the External Semester Examination

Passing Minimum for CIA Examination	
Theory	40% out of 25 Marks (i.e. 10 Marks)

PASSING MINIMUM FOR EXTERNAL SEMESTER EXAMINATION –UG

Semester Examination		
Theory	40% out of 75 Marks (i.e. 30 Marks)	40% out of 100 Marks (i.e. 40 Marks)
Practical	40% out of 60 Marks (i.e. 24 Marks)	

PAPER I - PROSE, SHORT STORY AND GRAMMAR - I

Semester: I

Hours: 5

Code : 23GH1GS01

Credits: 3

1. Prose : Naveen Hindi Patamala Part-3

Published by Dakshina Bharathi Hindi Prachar Sabha,
Thyagaraya Nagar, Chennai - 600 017.

The following Lessons have been prescribed

- a) Shiraj Ki Gurubhakthi
- b) Shri Krishn
- c) Gupth Rupya
- d) Karmaveer Kamaraj

2. Short Story : Kahani Manjari

Edited by: Dakshin Bharath Hindi Prachar Sabha,
Thyagaraya Nagar, Chennai - 600 017.

The following short stories have been prescribed

- a) Badegar kee beti - Premchand
- b) Thayee - Vishwamranava
Shrama Kaushik
- c) Paanch minute - Mohanlalji Mahato yogi
- d) Usne Kaha tha - Chandra dharshama
Guleri

**3. Grammar I : Vyakaran Pradeep Published by Ramdev, Hindi Bhaan,
63, Tagore Nagarm Allahabad -2**

The following topics have been prescribed

- a) Noun
- b) Gender and Number
- c) Pronoun
- d) Adjectives

COMMUNICATIVE ENGLISH - I

Semester: I

Hours: 4

Code : 23GE1GS01

Credit: 3

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Discover a fair degree of competence in self-expression in both writing and speaking	PSO-5	K1
CO - 2	Comprehend by reading texts	PSO-2	K2
CO - 3	Articulate academic resources	PSO-4	K3
CO - 4	Focus on independent learning	PSO-3	K4
CO - 5	Estimate critical and analytical thinking	PO-1	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: I		COMMUNICATIVE ENGLISH - I										Hours: 4
Code : 23GE1GS01												Credit: 3
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	4	5	3	3	3	5	4	3	3	3	5	3.73
CO - 2	4	3	3	5	4	3	4	5	3	4	3	3.73
CO - 3	4	3	3	3	5	3	4	3	3	5	3	3.55
CO - 4	3	3	5	3	4	3	3	3	5	4	3	3.55
CO - 5	5	3	4	3	4	3	5	3	4	4	3	3.73
Overall Mean Score												3.65

Result: The score for this course is **3.65** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I**12 Hours**

1. Listening and Speaking
 - a. Introducing self and others
 - b. Listening for Information
 - c. Pronunciation (without phonetic symbols)
 - i. Essentials of pronunciation
 - ii. American and British pronunciation
2. Reading and Writing
 - a. Reading short articles - newspaper reports / fact based articles
 - i. Skimming and scanning
 - ii. Diction and tone
 - iii. Identifying topic sentences
 - b. Reading aloud: Reading an article/report
 - c. Journal (Diary) Writing
3. Study Skills - I
 - a. Using dictionaries, encyclopaedias, thesaurus

UNIT II**12 Hours**

1. Listening and Speaking
 - a. Listening with a Purpose
 - b. Effective Listening
 - c. Tonal Variation
 - d. Listening for specific information
 - e. Asking for Information
 - f. Giving Information
2. Reading and Writing
 - a. Types of Reading: Extensive and Intensive Reading
 - b. Reading a Prose Passage
 - c. Reading a Poem
 - d. Reading a Short Story
3. Paragraphs: Structure and types
 - a. What is a Paragraph?
 - b. Paragraph Structure
 - c. Topic Structure
 - d. Unity
 - e. Coherence
 - f. Connections between Ideas: Using Transitional words and expressions
 - g. Types of Paragraphs

4. Study skills - II

Using the internet as a resource

- a. Online search
- b. Know the keyword
- c. Refine your search
- d. Guidelines for using the Resources
- e. E- Learning resources of Government of India
- f. Terms to know

UNIT III

12 Hours

1. Listening and Speaking

- a. Giving and following instructions
- b. Asking for and giving directions
- c. Continuing discussions with connecting ideas

2. Reading and writing

- a. Reading feature articles (from newspapers and magazines)
- b. Reading to identify point of view and perspective (opinion pieces, editorials etc.)
- c. Descriptive writing - writing a short descriptive essay of two to three paragraphs

UNIT IV

12 Hours

1. Listening and Speaking

- a. Giving and responding to opinions

2. Reading and writing

- a. Note taking
- b. Narrative writing - writing narrative essays of two to three paragraphs

UNIT V

12 Hours

1. Grammar in Context

Naming and Describing

- a. Nouns and Pronouns
- b. Adjectives

Involving Action- I

- a. Verbs
- b. Concord

Involving Action- II

- a. Verbal- Gerund, Participle, Infinitive
- b. Modals

Tense

- a. Present
- b. Past
- c. Future

COURSE BOOKS:

- ❖ Communicative English (For Students of Arts and Science Colleges) Tamilnadu State Council for Higher Education (TANSCHHE)
- ❖ Savarimuthu, Rohan J. S, and G. Petricia Alphine Nirmala, *English Grammar and Usage - An Ideal Companion for Advanced Learners*. New Century Book House (P) Ltd, 2016.

BOOKS FOR REFERENCE

1. Kumar, Manoj. *English Communication: Theory and Practice*. Scholar .Tech Press, 2018.
2. Nachimuthu, Cambridge. *Advanced Communication English*. Cambridge Publishers, 2011.

WEB SOURCES

1. <https://www.youtube.com/watch?v=Y94s85-Crew>
2. <https://www.esolcourses.com/content/topicsmenu/listening.html>
3. <https://www.ox.ac.uk/students/academic/guidance/skills/plagiarism?wssl=>

FINANCIAL ACCOUNTING - I

Semester: I

Hours: 6

Code : 23CC1MC01

Credit: 5

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Acquire basic accounting skills.	PSO - 1	K1
CO - 2	Understand the fundamental concepts of accounting principles, concepts, and conventions. the rectification of errors in financial statements., reconcile bank statements, principles related to non-trading concerns, accounting for Bills of Exchange	PSO - 2	K2
CO - 3	Develop sufficient confidence in solving practical questions in examinations.	PSO - 4	K3
CO - 4	Manage the maintenance of basic accounting records in small and medium size business.	PSO - 3	K4
CO - 5	Prepare and evaluate the financial statements at the year end in small and medium size business.	PSO - 5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: I		FINANCIAL ACCOUNTING - I										Hours: 6
Code : 23CC1MC01												Credit: 5
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	2	4	3	4	2	5	4	2	2	3	3.27
CO - 2	4	2	5	2	5	3	4	5	2	3	2	3.36
CO - 3	3	2	3	3	3	5	3	3	2	5	3	3.18
CO - 4	4	5	2	4	2	3	4	2	5	3	4	3.45
CO - 5	4	2	3	5	3	2	4	3	2	2	5	3.18
Overall Mean Score												3.29

Result: The score for this course is **3.29** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Meaning and Scope of Accounting - Basic Accounting Principles, Concepts and Conventions - Objectives of Accounting - Double Entry System - Journal, Ledger, Trial Balance - Preparation of Trading, Profit & Loss account and Balance Sheet- Cash Book. **(18 Hours)**

UNIT II

Errors - Types of errors - Rectification of Errors - Suspense Account - Bank Reconciliation Statement. **(18 Hours)**

UNIT III

Accounts of Non-Trading Concerns - Receipts and Payments account, Income and Expenditure account- Balance Sheet. **(18 Hours)**

UNIT IV

Average due date - Account Current - Red ink interest- Forward and Backward method - Daily balance method **(18 Hours)**

UNIT V

Bill of Exchange - Types of Bills of Exchange - Trade Bills - Accommodation bills - Promissory note - Distinction between Bills of Exchange and Promissory note. **(18 Hours)**

COURSE BOOK:

- ❖ T.S. Reddy & Dr. E. Moorthy, Advanced Accountancy, Vol I, Margham Publications, Chennai 2020.

BOOKS FOR REFERENCES:

1. R.S.N. Pillai & Bagavathi, Advanced Accounting-Volume-I, S. Chand & Company Ltd., New Delhi, 2009.
2. R.L.Gupta & M.Radhaswamy, Advanced Accounting, Sultan Chand & Sons, New Delhi, 2005.
3. M.C.Shukla, T.S. Grewal, Advanced Accounts, S.C. Gupta, S. Chand & Company Ltd., New Delhi, 2009.
4. Dr. M.A. Arulanandam, Dr. K.S. Raman, Advanced Accounting, Himalaya Publishing House, Bombay, 2009.
5. Jain and Narang, Financial Accounting, Kalyani Publishers, New Delhi, 2010.

Theory 20% (Part - A only) Problems 80%

Web Sources

1. <https://www.slideshare.net/mcsharmal/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>

PRINCIPLES OF MANAGEMENT

Semester: I

Hours: 5

Code : 23CC1MC02

Credit: 4

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Acquire knowledge about management functions like planning, organizing, staffing, leading and controlling.	PSO - 1	K1, K2
CO - 2	Understand the basic concepts of Management.	PSO - 2	K2
CO - 3	Apply the principles and manage the small and medium size enterprises	PSO - 3	K 3
CO - 4	Learn and analyze the principles in an organization.	PSO - 4	K4
CO - 5	Explain the importance of motivation and examine their leadership qualities.	PSO - 5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: I		PRINCIPLES OF MANAGEMENT										Hours: 5
Code : 23CC1MC02												Credit: 4
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	3	2	4	2	3	5	2	3	3	4	3.27
CO - 2	3	2	5	3	5	3	3	5	2	3	3	3.36
CO - 3	4	5	3	2	3	2	4	3	5	2	2	3.18
CO - 4	4	3	3	4	3	5	4	3	3	5	4	3.73
CO - 5	4	2	3	5	3	3	4	3	2	3	5	3.36
Overall Mean Score												3.38

Result: The score for this course is **3.38** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Management - Meaning, Definition, Nature and Importance - Science or Art- Functions - Organisation - Meaning - Types of Business Organisation - Sole Proprietorship - Partnership- Company- Private and Limited Sector Enterprises- Current Trend and Issues in Management. **(15 Hours)**

UNIT II

Planning- Meaning - Nature and Importance, Elements, Types, Process of Planning, Barriers to Effective Planning, Forecasting - Need and Techniques. Decision Making, Concepts and Process. **(15 Hours)**

UNIT III

Organizing: Meaning, Importance, and Principles, Span of Management, Centralization and Decentralization, Forms of Organization, Staffing: Nature and Scope of Staffing, Manpower Planning, Selection and Training, Performance Appraisal, Delegation of Authority. **(15 Hours)**

UNIT IV

Direction - Concept, Nature, Importance Process and Methods. Motivation: Concept, Importance Characteristics, Classification of Motives - Theories of Motivation- Leadership - Concept and Types. **(15 Hours)**

UNIT V

Process of Controlling - Types of Control - Budgetary and Non-budgetary Control- Essentials of a Good Control System. **(15 Hours)**

Course Book

- ❖ Prasad L M, Principles of Management, S. Chand Publishers, New Delhi, 2013.

BOOKS FOR REFERENCE

1. Balaji. C.D, Fundamentals of Management, Margam Publications, Chennai, 2015.
2. Business Management - Dinkar Pagare - Sultan Chand & Sons.
3. Stephen P. Robbins and Mary Coulter, 'Management', Prentice Hall of India, 8th edition.
4. Dr.S.C Saksena , "Principles of Management", Sathya Bhawan Publication
5. Natarajan K and Ganesan K P, Principles of Management, Himalaya Publishing House, Mumbai, 2018.

WEB RESOURCES

1. [1.http://www.universityofcalicut.info/syl/management](http://www.universityofcalicut.info/syl/management)
2. [2.https://www.managementstudyguide.com/manpower-planning.htm](https://www.managementstudyguide.com/manpower-planning.htm)

COMPUTER FUNDAMENTALS

Semester: I

Hours: 3

Code : 23CC1AC1A

Credit: 3

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Acquire the knowledge about the characteristics of computer system and working principles	PSO-1	K1
CO - 2	Learn and understand the Knowledge of newly invented devices and Units	PSO-2	K2
CO - 3	Discuss and apply the features of MS-Word like spell Check, Insert Pictures and Objects.	PSO-3	K3
CO - 4	Help students to analyze a worksheet using MS-Excel	PSO-5	K4
CO - 5	Get information on the Internet and evaluate the needy details.	PSO-4	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: I		COMPUTER FUNDAMENTALS										Hours: 3
Code : 23CC1AC1A												Credit: 3
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	3	3	3	3	2	5	3	3	2	3	3.18
CO - 2	4	2	5	3	5	3	4	5	2	3	3	3.54
CO - 3	3	5	3	3	3	3	3	3	5	3	3	3.36
CO - 4	4	4	3	5	3	3	4	3	4	3	5	3.73
CO - 5	4	3	3	2	3	5	4	3	3	5	2	3.36
Overall Mean Score												3.44

Result: The score for this course is **3.44** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Introduction to Computer and Information Technology: History, Computer system concepts - Computer system characteristics - Capabilities and limitations - Types of computers - Generations. **Computer organization and working:** Introduction-The Control UNIT-ALU-Memory-Read only memory (ROM). **(9 Hours)**

UNIT II

Input Devices/Output Devices /Storage Devices: Introduction-Keyboards-Mouse-Joysticks-Optical Recognition input-Scanners-Bar coders-Digital camera-MICR-Card reader-Web Cameras- Light pens-Trackball-Touch screens-Touch pad-Digitizer-Voice input-Voice recognizers. Digital, Analog, Size, Resolution, Refresh Rate, Dot Pitch, Video Standard - VGA, SVGA, XGA etc., Printers & types - Daisy wheel, Dot Matrix, Inkjet, Laser, Line Printer, Plotter, Sound Card and Speakers. Introduction-Monitors and Displays- Multimedia Projector-Printers-Graphics Output Devices-Plotters-Flatbed Plotters-Drum Plotters Hard Disk Drives -CD-ROMs and DVDs - Magnetic tape -Erasable disks. **(9 Hours)**

UNIT III

Microsoft Office 2007 and Word Processing: Introduction to Microsoft Office 2007 - Microsoft Word Screen. **Microsoft Word:** Working with Document in Word 2007 - Introduction -saving the file - Formatting, Alignment of text, Applying fonts- Spell checking- Borders and shading - Closing of the file, Editing document, Autocorrect-Auto format-Find and Replace, Page numbering, header and footer-Footnotes and endnotes-splitting panes-Tiling of the documents-using mail merge in Word 2007. **(9 Hours)**

UNIT IV

Microsoft Office Excel 2007: Understanding Spreadsheets-Creating a Worksheet in Microsoft Excel 2007- Copying formula - Styles -functions in Excel -Using Auto calculate -References -Sum, Average functions. Creating Charts in Excel 2007-Auditing a workbook - Comments Inserting - Function wizard-Goal seeking- Typing with Auto fill- Formatting numbers and Labels -changing the size of Rows and columns- Add or Remove a sheet - Protect a worksheet-Appling themes. **(9 Hours)**

UNIT V

Introduction to Internet, connecting to the Internet Hardware, Software & ISPs, Search Engines, Web Portals, Online Shopping, Email - Types of email, Compose and send a message. Reply to a message, Working with emails. **(9 Hours)**

COURSE BOOK:

❖ **Learning computer fundamentals, MS Office and Internet & Web Technology**, Dinesh Maidasani, Firewall Media, Third Edition, 2021.

UNIT I : Section A-1, 2

UNIT II : Section A- 3, 4, 5

UNIT III : Section B- 2, 3

UNIT IV : Section B- 4 (up to Functions in Excel)

UNIT V : Section B- 4(From Creating Charts in Excel)

BOOKS FOR REFERENCE:

1. **A Beginners Guide to Computers** - Alexis Leon & Mathews Leon-Vikas Publishing House Pvt. Ltd., 2021.
2. **Fundamentals of Computers**, P. Mohan, Himalaya Publishing House, Revised Edition, 2021.
3. **Fundamentals of Computers**, V. Rajaraman, PHI Publication, Fifth Edition, 2021.

WEB SOURCES:

1. <http://osou.ac.in/eresources/osou-dca-01-computer-fundamentals.pdf>
2. https://ashishmodi.weebly.com/uploads/1/8/9/7/18970467/computer_fundamentals
3. https://www.tutorialspoint.com/basics_of_computers/basics_of_computers_useful_resources.htm

COMPUTER FUNDAMENTALS - LAB

Semester: I

Hours: 2

Code : 23CC1AP1A

Credit: 1

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Acquire the working knowledge in MS-Word.	PSO - 1	K1
CO - 2	familiarize the use of excel for mark entry, bill preparation and salary calculation	PSO - 3	K2
CO - 3	Apply the working knowledge in Power Point with effect and animation.	PSO - 4	K3
CO - 4	Analyze and create a database for various applications.	PSO - 5	K4
CO - 5	Evaluate the creating of a database and adding tables	PSO - 4	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: I		COMPUTER FUNDAMENTALS - LAB										Hours: 2
Code : 23CC1AP1A												Credit: 1
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	3	3	3	3	4	5	3	3	4	3	3.55
CO - 2	3	5	3	2	3	2	3	3	5	2	2	3.00
CO - 3	3	3	3	2	3	5	3	3	3	5	2	3.18
CO - 4	4	3	3	5	3	4	4	3	3	4	5	3.73
CO - 5	3	2	3	2	3	5	3	3	2	5	2	3.00
Overall Mean Score												3.29

Result: The score for this course is **3.29** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

MS - WORD

Open a word document to prepare your **Resume** by performing the following operations.

- (a) Formatting the Text- Alignment & Font style
- (b) Page setup (margin alignment, page height & width)
- 1. Create a student mark sheet using table, find out the total & average marks and display the result.
- 2. Design an invitation of your course inauguration function using different fonts, font sizes, bullets, and Word Art/ Clip Art
- 3. Mail Merge Concept
 - (a) Prepare an invitation and to be sent to specific addresses in the data source.

MS - EXCEL

- 1. Create suitable work sheet with student mark details and use Data sort to display results and make out a suitable chart.
- 2. Prepare salary bill in a worksheet showing Basic Pay, DA, HRA, Gross salary, PF, Tax and Net salary using suitable Excel Functions.

MS - POWER POINT

- 1. Create a power point presentation to explain various aspects of your college using auto play.
- 2. Create a power point presentation to explain the sales performance of a company over a period of five years. Include slides covering the profile of the company, year wise sales and graph with gridlines, legends and titles for axes. Use Clip Art and animation features.

MS - ACCESS

- 1. Create a table for storing marks of 10 students. The fields of the table are given below: Reg. No., Name, Mark1, and Mark2, Mark3, Test average (Best Two /2), Assignment, Seminar and Total marks (Test average + Assignment + Seminar) The fields 'Mark1', 'Mark2', 'Mark3' should not allow the user to enter a mark greater than 25 and should display proper message in such case. Similar constraint for the field 'Assignment' is 5 marks and for the field 'Seminar', it is 10 marks.
- 2. Create a table showing names of authors of at least 10 different books, title of books, the prices of these books, name of publishers and year of publication. Also create Select, Action and Cross-tab queries to display the records from this table meeting the criteria used in these queries.
- 3. Create a form to enter the data directly into this form. The fields required are: Basic Pay, DA, HRA, Gross salary, PF, Income tax and Net salary.
- 4. Create a report that displays the customer name, address, phone number, Item code, product quantity of the customers whose orders have been pending for over a month.

BUSINESS SIMULATION

Semester: I

Hours: 3

Code : 23CC1AC1B

Credit: 3

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO-1	Gain knowledge about the formulas and functions.	PSO - 1	K1
CO-2	Equip participants with the knowledge on how to debug and audit the advanced formulas.	PSO - 2	K2
CO-3	Explore the magic of analyzing data using Excel.	PSO - 3	K3
CO-4	Analyze and Communicate in a business setting using Spreadsheet vocabulary.	PSO - 5	K4
CO-5	Create and modify the appearance of data within a worksheet.	PSO - 4	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: I		BUSINESS SIMULATION										Hours: 3
Code : 23CC1AC1B												Credit: 3
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO-1	5	3	3	2	3	2	5	3	3	2	2	3.00
CO-2	2	3	5	2	5	2	2	5	3	2	2	3.00
CO-3	2	5	3	2	3	2	2	3	5	2	2	2.82
CO-4	3	4	4	5	4	2	3	4	4	2	5	3.64
CO-5	3	4	3	3	3	5	3	3	4	5	3	3.55
Overall Mean Score												3.20

Result: The score for this course is **3.20** (High Relationship)

Note:

Mapping	1 - 20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I: FUNCTIONS AND FORMULAS - I

Understanding Screen Layout - Creating Auto List & Custom List - Entering, Selecting and Editing Data - Understanding References (Relative, Absolute & Mixed) - Working on Various Functions & Formulas - Common Basic Functions - Logical Functions - Text Functions - Date & Time Functions **(9 Hours)**

UNIT II: FUNCTIONS AND FORMULAS - II

Lookup & Reference Functions Mathematical Functions - Conditional Functions - Referring Data from Different Worksheet & Workbook Formula-Auditing - Various Calculation Techniques - Working on Ranges - Database Functions - Macros. **(9 Hours)**

UNIT III: PRESENTATION OF DATA:

Sorting Techniques - Various Data Filtering Techniques - Formatting Techniques - Conditional Formatting - Number Formatting - Table Formatting - Protecting Sheets & Files - Understanding Various Excel Window Techniques Viewing Excel Spreadsheet in various Layouts - Advanced Printing Techniques - Templates Themes. **(9 Hours)**

UNIT IV: DATA ANALYSIS TOOLS

Data Consolidation - Text to Columns - Flash Fill Remove Duplicates - Advanced Data Validation Techniques - What-if Analysis - Goal Seek Data Table - Solver - Scenarios; Working with Tables - Creating Charts - Understanding Sparklines (Line, Column, Win/Loss) - Pivot Tables & Pivot Charts. **(9 Hours)**

UNIT V: SIMULATION:

Simulations, Decision Trees and Forecasting, when should we use simulation, simulation modeling cycle, Introduction to Monte Carlo Simulation, generating random values, Excel for simple simulation. **(9 Hours)**

COURSE BOOKS:

- ❖ John Walkenbach, “Excel 2013 Bible 1st Edition”, John Wiley & Sons, 2013.
- ❖ Hector and Guerrero, “Excel Data Analysis - Modeling and Simulation”, Springer Nature Switzerland, 2019.

BOOKS FOR REFERENCE:

1. Bernd Held, “Excel Functions and Formulas”, BPB Publications, Third Edition
2. Wayne L. Winston, “Microsoft Excel 2013: Data Analysis and Business Modeling” PHI
3. Chandan Sengupta, “Financial Analysis and Modeling using Excel and VBA”, John Wiley & Sons, 2010

ONLINE REFERENCES

1. <https://www.excel-easy.com/>
2. <https://www.javatpoint.com/excel-tutorial>

BUSINESS SIMULATION - LAB

Semester: I

Hours: 2

Code : 23CC1AP1B

Credit: 1

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO-1	Acquire the knowledge about to create personal or business spreadsheets following current professional or industry standards.	PSO -1	K1
CO-2	Generate and customize charts to suit most purposes.	PSO -2	K2
CO-3	Demonstrate the range of lookup and reference functions.	PSO - 4	K3
CO-4	Apprehend awareness to create and work with scenarios and the Scenario Manager.	PSO - 3	K4
CO-5	Familiarize with creations of recorded macros in Excel.	PSO - 5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: I		BUSINESS SIMULATION - LAB										Hours: 2
Code : 23CC1AP1B												Credit: 1
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO-1	5	4	3	3	3	3	5	3	4	3	3	3.55
CO-2	2	2	5	2	5	3	2	5	2	3	2	3.00
CO-3	3	3	2	2	2	5	3	2	3	5	2	2.91
CO-4	2	5	3	2	3	3	2	3	5	3	2	3.00
CO-5	3	2	2	5	2	3	3	2	2	3	5	2.91
Overall Mean Score												3.07

Result: The score for this course is **3.07** (High Relationship)

Note:

Mapping	1 - 20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

1. Create and format a pie chart.
 - a. Using the data below, create a pie chart.
 - b. Add and format data labels in the pie chart to make the chart more informative.

Student	Experiments
Adams	2
Britain	3
Brady	1
Jackson	4
Jones	2
Pyle	3
Shepherd	5
Williams	1

2. Using this data, make a 5 class Frequency Distribution, Histogram and Cumulative Relative Frequency Distribution with the first class having class limits of 5 - 14 and the remaining classes of equal width.
38, 48, 27, 14, 31, 23, 46, 38, 54, 26, 44, 33, 17, 34, 6, 37
3. Create a weekly calendar in Excel.
4. Create a column to calculate the overall final mark for each student.
 - a. In the column to the right of the Final Exam Percent column enter the column header "Final Mark"
 - b. Create a formula to calculate students' final weighted mark ((Assignment 1 Percent X Assignment 1 weight) + (Assignment 2 Percent X Assignment 2 weight) + + (Final Exam Percent X Final Exam weight))
 - c. Format the results for each student's final mark to be displayed in percent and to include one decimal place e.g. (65.4% not 0.654).
5. Create a new column to display if students received honors or not.
 - a. In the column to the right of the Final Mark column enter the column header "Honors"
 - b. Insert a formula that will display an "H" in the "Honors" column if the student got a final mark that is equal to 80% or higher and will display an "R" if they did not get a mark over 80% (Hint: you will want to use the "IF" function" to do this)
6. Create a mortgage calculator with the PMT function

7. Write one or more simple macros to fill in capital cities on different worksheets (shows selecting worksheets and selecting cells).
8. Set data validation on cells to stop invalid entries.
9. Create lookup functions in Microsoft Excel 2007 to return exact match look-ups to search on ISBN codes from a list.
10. Create a scenario

Here are three propositions to increase the profitability for the quarter (cell D19)

Scenario 1: Growth Rate of 20%, but sales of the product 300 to start at \$ 50 000.

Scenario 2: Growth Rate of 30%, but sales of the product 200 to start at \$ 50 000.

Scenario 3: Growth Rate of 40%, but sales of the product 100 to start at \$ 95 000.

PROFESSIONAL ENGLISH

Semester: I

Hours: 2

Code : 23AE1PE01

Credit: 2

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Recognise their own ability to improve their competence in using the language	PSO-1	K1
CO - 2	Relate to the language with confidence, ensuring communication is intelligible	PSO-2	K2
CO - 3	Employ unfamiliar vocabularies in their context	PSO-3	K3
CO - 4	Correlate their professional communication skills	PSO-4	K4
CO - 5	Assess the errors while framing sentences	PSO-5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: I		PROFESSIONAL ENGLISH										Hours: 2
Code : 23AE1PE01												Credit: 2
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	4	3	4	3	4	5	4	3	3	4	3.82
CO - 2	3	4	3	5	3	4	3	5	3	3	4	3.64
CO - 3	4	3	5	4	4	3	4	4	5	4	3	3.91
CO - 4	4	3	3	4	5	3	4	4	3	5	3	3.73
CO - 5	3	5	3	3	3	5	3	3	3	3	5	3.55
Overall Mean Score												3.73

Result: The score for this course is **3.73** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I: THE ART OF QUESTIONING**6 Hours**

The Art of Questioning Paper-1 (Chamber 1-Orator: Units 1-5)

The Art of Questioning Paper-2 (Chamber 1-Orator: Units 1-3)

UNIT II: RECEPTIVE RESPONSE**6 Hours**

Receptive Response Paper-1 (Chamber 2 - Orator: Units 1-3)

Receptive Response Paper-2 (Chamber 2 - Orator: Units 1-4)

UNIT III: EASY EXPRESSIONS**6 Hours**

Easy Expressions Paper-1 (Chamber 2 - Orator: Units 1-4)

Easy Expressions Paper-2 (Chamber 2 - Orator: Units 1-3)

UNIT IV: EVERY DAY ENGLISH**6 Hours**

Every Day English Paper-1 (Chamber 3 - Orator: Units 1-5)

Every Day English Paper-2 (Chamber 3 - Orator: Units 1-3)

UNIT V: TELEPHONE SKILLS**6 Hours**

Buzz-Telephone skills - Basic (Chamber 6 - Kaleidoscope)

Buzz-Telephone skills - Customer support: Topics 1-5 (Chamber 6 - Kaleidoscope)

Buzz-Telephone skills - Front Office (Chamber 6 - Kaleidoscope)

COURSE SOFTWARE:

Lady Hawk Software

Component	Marks
Internal test I	40
Internal test II	40
Dialogue/ Conversation	10
Expressions Using Chart	5
Attendance	5
Total	100

PROFESSIONAL COMMUNICATION SKILLS

Semester: I

Hours: 2

Code : 23CC1FC01

Credit: 2

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Acquire knowledge about seven "C" in communication	PSO - 1	K1
CO - 2	Understand the basic concepts of communication	PSO - 2	K2
CO - 3	Develop sufficient confidence in solving practical cases	PSO - 3	K3
CO - 4	Prepare final report and develop various skills in drafting it	PSO - 4	K4
CO - 5	Assess the Use of technology like telecommunication and network in business	PSO - 5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: I		PROFESSIONAL COMMUNICATION SKILLS										Hours: 2
Code : 23CC1FC01												Credit: 2
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	2	4	3	4	2	5	4	2	2	3	3.27
CO - 2	2	2	5	2	5	3	2	5	2	3	2	3.00
CO - 3	2	5	2	2	2	3	2	2	5	3	2	2.73
CO - 4	4	4	2	4	2	5	4	2	4	5	4	3.64
CO - 5	4	2	2	5	2	3	4	2	2	3	5	3.09
Overall Mean Score												3.15

Result: The score for this course is **3.15** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Communication: Its interpretation 1. Basics 2. Nonverbal Communication 3. Barriers to Communication. **(6 Hours)**

UNIT II

The Seven C's of the Effective Communication 1. Completeness 2. Conciseness 3. Consideration 4. Concreteness 5. Clarity 6. Courtesy 7. Correctness. **(6 Hours)**

UNIT III

Business Communication at Workplace 1. Letter Components and Layouts 2. Planning a letter 3. Process of Letter writing 4. Email Communication 5. Memo and Memo Reports 6. Employment Communication 7. Notice Agenda and Minutes of Meeting. **(6 Hours)**

UNIT IV

Report Writing 1. Effective Writing 2. Types of Business Reports 3. Structure of Reports 4. Gathering Information 5. Organization of the Material 6. Writing Abstracts and Summaries 7. Writing Definitions 8. Visual Aids 9. User Instruction Manual. **(6 Hours)**

UNIT V

Required Skills 1. Reading Skills 2. Note-making 3. Précis Writing 4. Audio Visual Aids 5. Oral Communication. **(6 Hours)**

COURSE BOOK:

- ❖ Material prepared by Department staff.

BOOKS FOR REFERENCE:

1. Rajendra Pal & J.S Korlahallil, Business Communication, Sultan Chand & Sons, New Delhi, 2019.
2. R.S. N Pillai and Bagavathi, Modern Commercial Correspondence, S. Chand & Company Ltd., New Delhi, 2018

WEB RESOURCES:

<https://study.com/academy/lesson/components-of-a-business>
<https://languagetool.org/insights/post/how-to-write-a-formal-letter/>
https://youtu.be/QDF_78rwOqg
<https://youtu.be/l1D6xQ2ecR4>

PART - V - STUDENT TRAINING PROGRAMME

NATIONAL SERVICE SCHEME

U. G. PROGRAMME OUTCOMES

PO. NO.	UPON COMPLETION OF THIS PROGRAM THE STUDENTS WILL BE ABLE TO
1.	Gain theoretical knowledge and apply the expertise in different fields.
2.	Acquire Industry specific skills and can emerge as entrepreneurs.
3.	Develop critical and rational thinking to solve societal issues.
4.	Explore the knowledge and acclimatize it in the ever changing work environment.
5.	Evolve theories and develop innovative discipline specific ideas.
6.	Comprehend the nuances and develop innovative, discipline-specific ideas.

U. G. PROGRAMME SPECIFIC OUTCOMES

PSO. NO.	UPON COMPLETION OF THE PROGRAM THE STUDENTS WILL BE ABLE TO	PO MAPPED
PSO-1	Get knowledge about National Service Scheme.	PO-1
PSO-2	Acquire leadership skills and readiness to serve the society.	PO -2
PSO-3	Enhance perspectives of social issues in different point of views Think and act effectively in a critical situation.	PO-3
PSO-4	Develop positive attitude towards betterment of the society through voluntary service.	PO-4
PSO-5	Preserve nature, ethos and traditions and practices of the society.	PO-1

NATIONAL SERVICE SCHEME

Semester: I -IV

Hours: 2

Code : 23STPNS01

Credit: 1*

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Acquire the basic knowledge about NSS	PSO-1	K1
CO - 2	Uphold the value system based on the social, political and moral bases	PSO-1, PSO-2	K2
CO - 3	Understand and identify the needs of the society	PSO-1, PSO-2, PSO - 4	K3
CO - 4	Develop the capacity to meet emergencies and attain knowledge to concentrate on personal health and hygiene	PSO2-, PSO-4 PSO-5	K4
CO - 5	Face the challenges particularly to become women entrepreneurs	PSO-1	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: I -IV		NATIONAL SERVICE SCHEME										Hours: 2
Code : 23STPNS01												Credit: 1*
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	1	2	3	4	5	6	1	2	3	4	5	3.81
CO - 2	4	5	4	3	4	3	4	3	4	4	4	3.90
CO - 3	5	4	4	4	4	4	4	3	4	4	3	3.90
CO - 4	4	4	5	3	4	4	5	4	3	3	4	4.00
CO - 5	5	4	4	3	4	4	4	5	4	3	4	3.90
Overall Mean Score												3.90

Result: The score for this course is **3.90** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I: BASICS OF NSS

Introduction –History and Growth – Aim and Objectives – NSS Motto – NSS Symbol - NSS Badge –NSS Day- Code of Conduct- NSS Regular Activities & Special Camp.

UNIT II: PERSONALITY DEVELOPMENT

Personality Development –Know Thyself- Body Language- Forming Values Etiquette and Manner - Team Building and Team Work – Problems of Youth – Drug abuse - Drug Dependence /Addiction –Alcoholism – Suicide - Sexual Problems – Diseases.

UNIT III: SOCIAL SERVICE

Aim of Social Service – Social Service Organizations - Social Problems - Need for Social Service - Scope of Social Services - Functions of Social Services -Principles of First Aid - Important things kept in the First Aid Box- Snake Bite- Dog Bite- Insect Bite- Heat Stroke - Drowning - Electric Shock - Artificial Respiration – Hemorrhage – Stroke - Heart Attack – Symptoms – Fainting.

UNIT IV: NUTRITIOUS FOOD AND WOMEN'S HEALTH

Nutrition - Adequacy – Balance - Calorie Management - Dietary Density – Moderation – Variety - Calculation of Calorie Permittance - Calculation of Protein Percentages - Food Sources - Vitamins the Importance of Dietary Nutrition Women's Health

UNIT V: ECOLOGY AND ROLE OF WOMEN IN SOCIETY

Environment - Environmental Elements - Environmental concerns- Changing Climate –Global warming – Women achievers - Women's Place in Society - Social Issues against Women - The Ways to Empower Women.

COURSE BOOK:

- ❖ Arul Sunila.J, Flora Pauline Mary.V, Preethi.J, Padmasree. A. D, Girija Bai. T, Arul Irudaya Jeyanthi.J, Abinaya. D, *NOT ME BUT YOU*, Acca Printing Press, 2022

Components	Marks
Attendance	20
Assessment (Involvement in activities)	50
Test	30
Total	100

QUESTION PATTERN
NATIONAL SERVICE SCHEME-23STPNS01

Class: II UG

Time: 2 Hours

Date:

Max.: 30 Marks

Course Outcome	Bloom's K-level	Q. No	SECTION – A 2x5=10 Answer All Questions Internal choice
			SECTION – B 2x10=20 Answer any TWO of the following

NATIONAL CADET CORPS

U.G. PROGRAMME OUTCOMES (2023 - 2026)

PO. NO.	UPON COMPLETION OF THIS PROGRAMME THE STUDENTS WILL BE ABLE TO
1.	Think critically, evaluate analytically and apply the expertise of their discipline in related scenario.
2.	Enhance the communicative skills and gain confidence to disseminate knowledge through oral/verbal communications effectively at various situations.
3.	Accomplish the basic understanding of the relationship between education and human life and enhance their perspectives on the various functions of their studies in the diverse contexts of the society.
4.	Identify the different roles in an organizational structure of the work place and carry out multiple roles in social responsibilities.
5.	Develop skills like collaboration, higher-order thinking, problem solving and self-direction through effective use of technologies and resources.
6.	Increase self-awareness, set and pursue meaningful goals, and develop positive personal qualities such as self-esteem, positive attitude, self-discipline, and self-motivation.

PROGRAM SPECIFIC OUTCOMES (PSO)

PSO NO.	UPON COMPLETION OF THIS PROGRAMME THE STUDENTS WILL BE ABLE TO	PO MAPPED
1	Reinforce the aims, motto, vision and mission of the NCC through the academic curriculum.	PO-1, PO-3
2	Train the students, to be graduates with all round development, who apart from their own subject, can successfully compete in other fields such as defense/paramilitary/ police forces and civil services.	PO-1, PO-4
3	Perform in social service activities and creating awareness about social evils in society.	PO-1, PO-5, PO-6.
4	Explain the tri services organization, comprising the army, navy and air force, engaged in grooming the youth of the country into disciplined and patriotic citizens.	PO-2, PO-6
5	Demonstrate "B" and "C" certificate examination of NCC helps in getting jobs in different forces and also security related jobs.	PO-1, PO-2, PO-5, PO-5, PO-6

NATIONAL CADET CORPS

Semester: I - IV

Hours: 240

Code : 23STPNC01

Credits: 1*

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Describe the history, honors and awards of Indian Military.	PSO - 1, PSO - 2, PSO - 4	K1
CO - 2	Explain the map and weapon training to remove the fear of a weapon from the hearts of youth.	PSO - 1, PSO - 4	K2
CO - 3	Illustrate the different types of disasters under different circumstances.	PSO - 2, PSO - 3, PSO - 4, PSO - 5	K3
CO - 4	Analyze the practical knowledge in community development and other social programs.	PSO - 4, PSO - 5	K4
CO - 5	Assess the personality development and develop technical skill of first Aid.	PSO - 1, PSO - 2	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: I - IV		NATIONAL CADET CORPS										Hours: 240
Code : 23STPNC01												Credits: 1*
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	4	3	3	3	4	3	4	4	3	3	3	3.4
CO - 2	3	4	3	3	4	3	4	4	3	4	4	3.54
CO - 3	3	3	4	4	4	4	3	4	4	3	5	3.72
CO - 4	3	3	4	5	4	4	3	3	4	5	4	3.81
CO - 5	3	3	5	4	3	4	3	3	4	5	4	3.72
Overall Mean Score												3.64

Result: The score for this course is **3.64** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I: ARMED FORCES AND MILITARY HISTORY

Army, Police and Central Armed Police Forces, Modes of Entry into Army, Police and CAPF, Aims and Objectives of NCC , Organisation, Training and NCC Song , Incentives , Honors and Awards, Biographies of Renowned Generals, War Heroes : Param Veer Chakra Awardees, Study of Battles of Indo-Pak Wars 1965, 1971, & Kargil, War Movies, “B” and “C” certificate examinations.

UNIT II: MAP READING, FCBC AND WEAPON TRAINING

Introduction to Map Reading, Conduct of Map Reading, Introduction to Field Craft and Battle Craft, Indication of landmark, Observation, Camouflage & Concealment, Fire and Move Capsule, Knots, Lashing and Stretchers, Organisation of Infantry Battalion & its weapons. Characteristics of a Rifle and its Ammunition, Stripping, Assembling, Care, and Cleaning of 7.62 SLR, Loading, Cocking and Unloading, Lying Position, Holding and Aiming, Trigger Control and Firing a Shot, Theory of Group and Snap Shooting, Obstacle Training

UNIT III: DISASTER MANAGEMENT AND CIVIL AFFAIRS

Civil Defence Organisation and NDMA, Types of Emergencies / Natural Disasters, Fire Services & Fire Fighting, Traffic Control During Disaster Under Police Supervision, Collection & Distribution of Aid Material, Essential Services and their Maintenance. Aim of aid to civil authority - Role of NCC Cadets during natural calamities - Types of disaster- Essential services during natural calamities

UNIT IV: NATIONAL INTEGRATION AND SOCIAL AWARENESS

Basics of Social Service and Its Need, NGOs Role & Contribution, Drug Abuse and Trafficking, Causes & Prevention of HIV / AIDS and Role of Youth, Counter Terrorism, Traffic Control Organisation and Anti Drunken Driving, Religions, Culture, Traditions and Customs of India. National Interests, Objectives, Threats and Opportunities. Unity in Diversity. National Integration Council. Contribution of Youth in Nation Building. Leaders of Political / Regional Parties, Media Persons, Women Representatives, Eminent Public Representatives, Representatives of Business

UNIT V: PERSONALITY DEVELOPMENT, LEADERSHIP AND FIRST AID

Factors Influencing and Shaping Personality : Physical, Social, Psychological and Philosophical Types of Leadership, Time Management, Stress Management Skills, Interview Skills, Sociability : Social Skills Etiquettes And Mannerism, Injuries to Internal Organs, Burns and Scalds, Snake Bite, Scorpion Bite & Rabid Dog Bite, Foreign Bodies in Eye, Ear and Nose, Insensibility or Unconsciousness, Artificial Respiration.

BOOK FOR REERENCE:

- ❖ Mishra R.C., A Handbook of NCC, Kanti Prakashan, Etawah, 2000.

Scheme of Evaluation	
Summative Examination (2 hours)	25 Marks
Continuous Internal Assessment	75 Marks
Total	100 Marks

Scheme of Evaluation of Continuous Internal Assessment		
1.	Attendance - 240 hours	10 Marks
2.	Special Camp	40 Marks
3.	“B” and “C” certificate examination	25 Marks
Total		75 Marks

Question Pattern for Summative Examination**Total Marks: 25****Time: 2 hours****Section - A**

Answer All Questions
(Multiple Choice Questions)

5 × 1 = 5 Marks

Section - B

Answer All Questions
(Either or Questions)

2 × 5 = 10 Marks

Section - C

Answer any one Questions
(One Question Out of Two)

1 × 10 = 10 Marks

PHYSICAL EDUCATION (2023-2026)

Code	Year	Paper Title	Hours	Credit
23STPPE01	I & II	Yoga and Physical Wellness	120	1*

YOGA AND PHYSICAL WELLNESS

Semester: I to IV

Hours: 120

Code : 23STPPE01

COURSE OUTCOMES

- ❖ To develop Physical and mental fitness.
- ❖ To motivate and encourage students to involve themselves in physical skills through the Sports and Games and Yoga.
- ❖ To promote harmonious all-round development of the students

UNIT I: ASANAS

(24 hours)

Meaning - Benefits - Postures: Sitting - Standing - Prone - Supine.

UNIT II: PRANAYAMA

(24 hours)

Meaning - Benefits - Steps in Pranayama: Puraka, Khumbaka, Rechaka - Mudras: Chin mudra, Chinmaya mudra, Brahma mudra.

UNIT III: SURYANAMASKAR

(24 hours)

Meaning - Benefits - Steps - Poses (12 posture)

UNIT IV: NUTRITION

(24 hours)

Meaning - Balanced Diet - Daily Energy Requirement - Nutrient Balance - Nutrition Intake - Body Mass Index

UNIT V: FIRST AID

(24 hours)

Meaning - Injuries to bones and Muscles, Sprain, Strain, Muscle Cramp and joints Dislocation and Fractures - Snake-bite, Dog bite

BOOKS FOR REFERENCE:

1. Elangovan.R, (2002), 'Utarkalvi Oru Arimugam', Ashwin Publication, Triunelveli.
2. Chandrasekaran.K, (1999), 'Sound Health through Yoga, Prem Kalyan Publication, Sedapatti.
3. John Ambulance Association, 'First Aid to the Injured' New Delhi
4. Prabhakar Eric, (1995), 'The way to Atheletic Gold', Affiliated East West Pvt. Ltd., New Delhi.
5. Sathyanesan, R.C., 'Hand Broken Physical Education', Gheena Publishers, Madurai

SCHEME OF EVALUATION

1.	Summative Examination (2 hours)	:	25 marks
2.	Continuous Internal Assessment	:	75 marks
	Total	:	100 marks

SCHEME OF EVALUATION FOR COTINUOUS INTERNAL ASSESSMENT

1.	Attendance (240 hrs)				
	❖ Theory Class	:	120 hrs		
	❖ Games	:	60 hrs	:	20 marks
	❖ Field Work	:	60 hrs		
2.	Performance in any one Game	:			10 marks
3.	Performance in any one of Athletic event	:			10 marks
4.	Performance in Yoga / Rhythmic activities	:			10 marks
5.	Rhythmic activities				10 marks
6.	Field Work	:			15 marks
	Total	:			75 marks

QUESTION PATTERN FOR SUMMATIVE EXAMINATION

Total marks: 25

Time: 1 ¹/₂ hours

SECTION - A

Answer All Questions (5x1=5)
(Choose the best Answer)

SECTION - B

Answer any two questions (2x2=4)
(Four question out of four)

SECTION - C

Answer any Two out of Four questions (2x5=10)
(Four question out of Four)

SECTION - D

Answer any one question (1x6=6)
(One question out of two)

CONSUMER CLUB

PROGRAMME OUTCOMES:

PO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO
1.	Think critically, evaluate analytically and apply the acquired knowledge of their discipline in related scenario
2.	Enhance the communicative skills and gain confidence to disseminate knowledge through oral/verbal communications effectively at various situations.
3.	Express the cultural and environmental diversity that they have been exposed in various studies
4.	Identify the different roles in an organizational structure of the work place and carry out multiple roles in social responsibilities
5.	Develop higher-order thinking, problem solving and self-direction skills through effective use of technologies and other resources
6.	Increase self-awareness, set and pursue meaningful goals, and develop positive personal qualities

PROGRAMME SPECIFIC OUTCOMES:

PSO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PO MAPPED
PSO-1	Aware of consumer's rights, responsibilities and consumer production Act, 1986	PO-1
PSO-2	Instill right-consciousness, confidence to question violations of citizen and consumer rights and fight for justice	PO-1, PO-4, PO-6
PSO-3	Work with other voluntary consumer organizations to enhance consumer movement in the society	PO-3, PO-6
PSO-4	Make informed purchase decision as individual and inculcating the behavior in others also	PO-3, PO-4, PO-6
PSO-5	Gain practical knowledge and become good consumer as well as entrepreneur	PO-4, PO-5, PO-6

CONSUMER CLUB

Semester: I-IV

Hours: 120

Code : 23STPCC01

Credit: 1*

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Acquire the knowledge of aware of the nature, rights and responsibilities of consumer	PSO - 1	K1
CO - 2	Understand the concepts of food trade and certification	PSO - 4	K2
CO - 3	Identify misleading advertisement, consumer court and consumer redressal	PSO - 3,5	K3
CO - 4	Analyze the concept of food adulteration and ecofriendly products	PSO - 2	K4
CO - 5	Evaluate practical experience through field visit and interact with experts	PSO - 2	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: I-IV		CONSUMER CLUB										Hours: 120
Code : 23STPCC01												Credit: 1*
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	4	4	3	4	3	3	3	3	4	3	4	3.45
CO - 2	3	3	4	3	4	3	4	4	3	4	3	3.45
CO - 3	4	4	3	4	3	4	3	3	4	3	4	3.54
CO - 4	3	3	4	3	4	3	4	4	3	4	3	3.45
CO - 5	4	3	4	3	4	3	4	3	4	3	4	3.54
Overall Mean Score												3.48

Result: The score for this course is **3.48** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Basics of Consumer: Consumer - Meaning - Difference between Consumer and Buyer - Consumerism - Nature of Consumerism - Roots of Consumerism - Rights and Responsibilities of Consumer- Consumer Protection - Rights of Consumer under Consumer Protection Act 1986- Do's and Don'ts of consumer.

UNIT II

Trade Mark & Certification: Definition - Objectives - Types of Trademark - Categories of Trademark-Registrar of Trademark - Powers and functions of Registrar of Trademark - Certification: Certification Marks issued for different products in India - Types of certifications.

UNIT III

Advertisement & Food Adulteration: Definition - Features of Advertisement - Misleading Advertisement - Online Consumer - Rights of online consumer - Food Adulteration: **Introduction - Types of Food Adulteration - Causes of Food Adulteration - Methods of Food Adulteration - Food Adulteration in Developing Countries - Health Hazards of Food Adulteration - Mitigation Measures for Addressing Food Adulteration** - How can Adulteration to be prevented - Food Contamination.

UNIT IV

Eco-Friendly Consumer, Consumer Redressal & Grievance: Eco-Friendly consumer Products - Eco-friendly products for daily life - Innovative and Eco-friendly Business ideas - Green Consumerism - Important steps of Green Consumerism - Green marketing strategies- Consumer Court - Objectives - Consumer Disputes Redressal Agencies - Model Form of Complaints - How to file a Complaint in Consumer Court - Grievance -Features of Grievance - Causes of Grievance - Where to file a Complaint-Redressal settlement machinery.

UNIT V

Field Visit.

COURSE BOOKS:

- ❖ Material prepared by the Consumer Club

BOOK FOR REFERENCE:

1. Dr. L. Natarajan, Business Legislation, Merit India Publication, 2017.
2. Consumer Movement, Robert N. Mayer, Twayne Publishers Inc., U.S.,1989
3. Consumer Education and Economics, Charles A. Malouf, 2002

E-RESOURCES:

1. <https://www.Consumer-Awareness-Protection-Empirical-Evidence/dp/1723301108>
2. <https://www.himpub.com/documents/Chapter1482.pdf>
3. <https://www.Consumer-Education-Veena-Gandotra/dp/9382007008>

SCHEME OF EVALUATION

1.	Summative Examination (1 hour)	:	25 marks
2.	Continuous Internal Assessment	:	75 marks
	Total	:	100 marks

Scheme of Evaluation of Continuous Internal Assessment		
1.	Field Visit	25 Marks
2.	Report	25 Marks
3.	Involvement	10 Marks
4.	Case Study	10 Marks
5.	Attendance	5 Marks
	Total	75 Marks

Total the marks of I, II, III & IV will be converted to 75 marks

INTERNAL TEST (THEORY)

Total Marks: 25

Time: 1 Hour

Section - A

Answer All Questions
(Multiple Choice Questions)

5 x 1 = 5 Marks

Section - B

Answer All Questions
(Either Or Questions)

2 x 5 = 10 Marks

Section - C

Answer Any One Question
(One Question Out of Three)

1 x 10 = 10 Marks

RED RIBBON CLUB
PROGRAMME OUTCOMES

PO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO
1.	Think critically, evaluate analytically and apply the acquired knowledge of their discipline in related scenario
2.	Enhance the communicative skills and gain confidence to disseminate knowledge through oral/verbal communications effectively at various situations.
3.	Demonstrate the precise understanding of the principles and theories of their discipline through experiments.
4.	Identify the different roles in an organizational structure of the work place and carry out multiple roles in social responsibilities
5.	Develop higher-order thinking, problem solving and self-direction skills through effective use of technologies and other resources
6.	Increase self-awareness, set and pursue meaningful goals, and develop positive personal qualities

PROGRAMME SPECIFIC OUTCOMES:

PSO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PO MAPPED
PSO-1	Tell the importance of Red Ribbon Club for the Society.	PO-1, PO-6
PSO-2	Explain the structure of Blood and its Uses.	PO-3, PO-4
PSO-3	Demonstrate the microscopic examination of Blood Identification and Donation process.	PO-3, PO-5
PSO-4	Classify the Blood types, Donation process and HIV Awareness.	PO-2, PO-4
PSO-5	Estimate the vision of Red Ribbon Club and its role in the society.	PO-5, PO-6

RED RIBBON CLUB

Semester: I, II, III & IV

Hours: 120

Code: 23STPRR01

Credit: 1*

COURSE OUTCOMES

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Define the meaning and basic concepts of Red Ribbon Club	PSO -1, PSO-5	K1
CO - 2	Classify the services rendered by Red Ribbon Club	PSO -1, PSO -4	K2
CO - 3	Relate the vision and objectives of Red Ribbon Club with its services	PSO- 1, PSO-3	K3
CO - 4	Categorize the objectives, Blood identification and HIV Testing process	PSO -4, PSO-5	K4
CO - 5	Evaluate the awareness programmes against the communicable diseases	PSO -2, PSO-5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: I, II, III & IV		RED RIBBON CLUB										Hours: 120
Code : 23STPRR01												Credit: 1*
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	3	2	3	4	5	5	3	4	2	5	3.27
CO - 2	4	5	3	5	2	4	5	4	2	5	3	3.54
CO - 3	5	3	4	3	4	5	5	3	5	4	2	3.72
CO - 4	2	5	5	3	4	4	4	2	3	5	5	3.36
CO - 5	3	4	2	5	5	4	3	5	2	3	5	3.27
Overall Mean Score												3.43

Result: The score for this course is **3.43** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Red Ribbon Club-Basic Concepts - Meaning -Vision - Objectives - Popular Colour - Symbol - Significance

UNIT II

Blood Identification - Blood composition - Blood types -Functions of Blood - Components of Blood Plasma -Blood Vessels - Microscopic examination -DNA analysis

UNIT III

Blood Donation - Procedure -Importance of Donating Blood -Steps taken to ensure the safety of transfused blood - Benefits - Donors - Blood Banks - Outdoor camps - Storage, Supply & Demand

UNIT IV

HIV Awareness: Definition -Signs &Symptoms - HIV Transmission-Risk factors- Diagnosis & Tests-Treatment methods - Prevention -Tamil Nadu AIDS Control Society (TANSACS) - Components

UNIT V

Blood Donation Camp - Practical and Field Work : Blood Identification Camp - HIV AIDS Awareness Programmes - Field visit to JeevanJothi - Aundipatti Government Hospital

COURSE BOOK:

- ❖ Book offered by Red Ribbon Club Committee Members

BOOKS FOR REFERENCE

1. Conor S, Kingman S. *The search for the virus, the scientific discovery of AIDS and the quest for a cure*, Penguin Books, 1988.
2. S. Kartikeyan, R.N. Bharmal, R.P. Tiwari and P.S. Bisen.*HIV and AIDS: Basic Elements and Priorities*. Springer Publications. 2007.
3. Narain, Jai P; *AIDS in Asia: The Challenge Ahead*, Sage Publications, New Delhi, 2004
4. Nath, LM; *The Epidemic in India: An Overview*, Mosaic Books, New Delhi, 2003.
5. Srivastava V.P., *HIV/AIDS and Human Rights*, Indian Publishers, Delhi, 2006.
6. Shalini Bharat, *HIV/AIDS related Stigma, Discrimination and Denial*, Best Practices, Key Material. UNAIDS Publications, 2001

SCHEME OF EVALUATION

1.	Summative Examination (1 hour)	:	25 marks
2.	Continuous Internal Assessment	:	75 marks
	Total	:	100 marks

Scheme of Evaluation of Continuous Internal Assessment		
1.	Field Visit	25 Marks
2.	Report	25 Marks
3.	Involvement	10 Marks
4.	Case Study	10 Marks
5.	Attendance	5 Marks
	Total	75 Marks

Total the marks of I, II, III & IV will be converted to 75 marks

Question Pattern for Internal Examination

Total Marks:25

Time : 1 hour

Section - A

Answer All Questions
(Multiple Choice Questions)

5 x 1= 5 Marks

Section - B

Answer All Questions
(Either or Questions)

2 x 5= 10 Marks

Section - C

Answer Any One Question
(One Question Out of Three)

1 x 10 =10 Marks

YOUTH RED CROSS

Semester: I-IV

Hours: 120

Code : 23STPRC01

Credit: 1*

PROGRAMME OUTCOMES:

PO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO
1.	Think critically, evaluate analytically and apply the acquired knowledge of their discipline in related scenario.
2.	Formulate hypothesis, design experiments use appropriate tools and interpret the results.
3.	Demonstrate the precise understanding of the principles and theories of their discipline through experiments.
4.	Enhance the communicative skills and gain confidence to disseminate knowledge through oral/verbal communications effectively at various situations.
5.	Identify the different roles in an organizational structure of the work place and carry out multiple roles in social responsibilities
6.	Increase self-awareness, set and pursue meaningful goals, and develop positive personal qualities.

PROGRAMME SPECIFIC OUTCOMES

PSO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PO MAPPED
PSO1	Get a basic understanding of the origin, growth and development of humanity.	PO1
PSO2	Acquire basic knowledge about social subjects	PO1, PO2
PSO3	Identify various social issues and problems	PO3, PO4
PSO4	Help build up a good career	PO1, PO4
PSO5	Gain awareness of social responsibilities	PO1, PO5

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Understand themselves in relation to their community	PSO- 1	K1
CO - 2	Identify the needs and problems of the community and involve them in problem solving.	PSO-2	K2
CO - 3	Gain skills in mobilizing community participation. Develop capacity to meet emergencies and social harmony	PSO-3	K3
CO - 4	Educate and empower children and youth in the spirit of the Red Cross through constructive trainings and effective leadership	PSO-4	K4
CO - 5	Provide opportunities for directing and harnessing their energies and idealism into worthwhile humanitarian activities	PSO-5	K5

**RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES
AND PROGRAMME SPECIFIC OUTCOMES**

Semester: I-IV		YOUTH RED CROSS										Hours: 120
Code : 23STPRC01												Credit: 1*
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	5	4	3	2	2	5	5	3	2	2	3.45
CO - 2	5	5	4	3	2	2	5	5	4	2	2	3.55
CO - 3	5	4	4	3	4	2	5	5	5	2	3	3.91
CO - 4	5	4	5	4	3	3	5	5	5	2	3	4.09
CO - 5	5	4	5	3	3	3	5	5	5	2	3	4.09
Overall Mean Score												3.82

Result: The score for this course is **3.82** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

BASICS OF YOUTH RED CROSS

Semester: I & II

Hours: 60

Code: 23STPRC01

Credit: 1*

UNIT I

History Of Red Cross - Henri Dunant's Early Life - The Battle of Solferino - The Man in White - The Birth of Red Cross - Charity in the Midst of Battle - Clara Barton: Pioneer of Disaster Relief - Death of Dunant.

UNIT II

Idea of the Red Cross Movement - Foundation of the Red Cross Movement - A Global Movement - The Emblems- History of the Emblems - Who can use the emblem in India? Misuse of the Emblem - Why respect the Emblem?

UNIT III

The Seven Fundamental Principles - International Humanitarian Law - Re Establishing Family Links

UNIT IV

Birth of the Indian Red Cross Society- Introduction to the programmes of the IRCS - Humanitarian Values - Disaster Management - Health and Care in the Community

UNIT V

Volunteering - Trainings

COURSE BOOK:

1. Rev. Sr. Dr. JesuRani, Dr. J. Arul Irudaya Jeyanthi, Dr. B. Amala Jasmine, Mrs. P. Selvarani, Mrs. K. Rani, Youth Red Cross (YRC), PCF Publications, Pandiyanadu Cultural Foundation, Madurai, 2021.

BOOKS FOR REFERENCE:

1. "The Story of the Red Cross", Krishna Satyanand, Reprint 2002, Published by the Director, National Book Trust, India.
2. "Basic about YRC", Indian Red Cross Society, National Headquarters.

YOUTH RED CROSS

Semester: III & IV

Hours: 60

Code: 23STPRC01

Credit: 1*

UNIT I

The International Committee of the Red Cross (ICRC) -Origin And History - International Status - ICRC - Legal Status - ICRC's Humanitarian Activities - Administration and Structure of ICRC - National Red Cross and Red Crescent Societies.

UNIT II

Interntional Federation of Red Cross and Red Crescent Societies - Mission - Strength - Global Network - International Red Cross and Red Crescent Movement - Geneva Conventions and their Additional Protocols - Protection and care - protection of persons - Protection of Civilian medical and religious personnel - Methods and means of warfare - Improper use of emblems - fundamental guarantees.

UNIT III

Indian Red Cross Society - Headquarters - Resources - Partnerships – Strategic Development plan - Indian Red Cross Society - Tamil Nadu Branch - Indian Red Cross Society, District Red Cross Branch and Sub Branch

UNIT IV

Youth Red Cross - Junior Red Cross

UNIT V

Field Visit

COURSE BOOK:

1. Rev. Sr. Dr. JesuRani, Dr. J. Arul Irudaya Jeyanthi, Dr. B. Amala Jasmine, Mrs. P. Selvarani, Mrs. K. Rani, Youth Red Cross (YRC), PCF Publications, Pandiyanadu Cultural Foundation, Madurai, 2021.

BOOKS FOR REFERENCE:

1. "History of Red Cross", Youth Red Cross, Indian Red Cross Society Tamil Nadu Branch.

SCHEME OF EVALUATION

1.	Summative Examination (1 hour)	:	25 marks
2.	Continuous Internal Assessment	:	75 marks
	Total	:	100 marks

Scheme of Evaluation of Continuous Internal Assessment		
1.	Field Visit	25 Marks
2.	Report	25 Marks
3.	Involvement	10 Marks
4.	Case Study	10 Marks
5.	Attendance	5 Marks
	Total	75 Marks

Total the marks of I, II, III & IV will be converted to 75 marks

Question Pattern for Internal Examination

Total Marks:25

Time : 1 hour

Section - A

Answer All Questions
(Multiple Choice Questions)

5 x 1= 5 Marks

Section - B

Answer All Questions
(Either or Questions)

2 x 5= 10 Marks

Section - C

Answer Any One Question
(One Question Out of Three)

1 x 10 =10 Marks

பொதுத்தமிழ் - 2
(பிறதுறை மாணவிகளுக்கு மட்டும்)

பருவம்: இரண்டு

குறியீடு: 23GT2GS02

COURSE OUTCOMES:

நேரம்: 6

புள்ளி: 3

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	பக்தி இலக்கியங்கள், சிற்றிலக்கியங்கள் கற்பதன் மூலம் பக்தி நெறியினையும், இலக்கியச் சுவையினையும் அறிவர்.	PSO-4	K1
CO - 2	தமிழ்ச் சமூகப் பண்பாட்டு வரலாற்றினை இலக்கியங்கள் வாயிலாகப் புரிந்து கொள்வர்.	PSO-3	K2
CO - 3	பக்தி, சிற்றிலக்கியங்களின் வழி சமய நல்லணக்கத்தையும் பண்பாட்டு நெறிகளையும் தெரிந்து அவற்றைப் பின்பற்றப்படவேண்டிய அறிவினையும் பெறுவர்.	PSO-5	K3
CO - 4	பட்டப் படிப்பினைப் படிக்கும் போதே பெரும்பான்மையான தமிழ் இலக்கியங்கள், இலக்கணங்கள் குறித்த அறிவினைப் பெறும் திறன் பெறுவர்.	PSO-2	K4
CO - 5	போட்டித் தேர்வுகளில் வெற்றி பெறுவதற்குத் தமிழ்ப் பாடத்தின் முக்கியத்துவத்தை உணர்ந்து பயன்கொள்ளும் வகையில் ஏற்ற மொழித்திறன் பயிற்சி பெறுவர்.	PSO-1	K5

K1-நினைவு கூர்தல் K2-புரிதல், K3- பயன்படுத்துதல், K4 -பகுத்தல், K5 -மதிப்பீடு

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: II		பொதுத்தமிழ் - 2										Hours: 6
Code : 23GT2GS02		(பிற துறை மாணவிகளுக்கு மட்டும்)										Credit: 3
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	4	2	4	3	3	4	3	2	5	4	3.55
CO - 2	4	4	5	4	4	4	4	4	5	4	4	4.18
CO - 3	3	3	3	5	4	4	3	4	3	3	5	3.64
CO - 4	3	4	3	4	5	5	4	5	3	3	4	3.91
CO - 5	3	5	3	3	2	2	5	2	3	3	3	3.09
Overall Mean Score												3.68

Result: The score for this course is **3.68** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of Cos = $\frac{\text{Total of Values}}{\text{Total No. of Pos \& PSOs}}$	Mean Overall Score for Cos = $\frac{\text{Total of Mean Scores}}{\text{Total No. of Cos}}$
--	--

அலகு1

திருநாவுக்கரசர் தேவாரம் - நாமார்க்கும் குடியல்லோம் எனத் தொடங்கும் பதிகம் (10 பாடல்கள்)
ஆண்டாள் திருப்பாவை - (முதல் 10 பாசுரங்கள்) **18 Hours**

அலகு2

வள்ளலார்-அருள் விளக்கமாலை (முதல் 10பாடல்கள்)
எச்.ஏ.கிருட்டிணப்பிள்ளை - இரட்சணியமனோகரம் - பால்ய பிராத்தனை
குணங்குடி மஸ்தான் சாகிபு-பராபரக்கண்ணி (முதல்10 கண்ணி) **18 Hours**

அலகு3

தமிழ்விடு தூது - (முதல்20கண்ணி)
திருக்குற்றாலக் குறவஞ்சி-குறத்தி மலைவளம் கூறுதல்
முக்கூடற்பள்ளு-நாட்டுவளம் **18 Hours**

அலகு4

பக்தி இலக்கியம் சிற்றிலக்கியம் தொடர்பான இலக்கியவரலாறு (பல்லவர்காலம், நாயக்கர் காலம்) **18 Hours**

அலகு5: மொழித்திறன் / போட்டித் தேர்வுத் திறன்

1. தொடர் வகைகள்,
2. மரபுத்தொடர்,
3. பழமொழிகள்,
4. பிறமொழிச் சொற்களைக் களைதல்,
5. வழச் சொற்கள் நீக்குதல்,
6. இலக்கணக் குறிப்பு அறிதல்.

18 Hours

(குறிப்பு: அலகு4, 5ஆகியனபோட்டித் தேர்வுநோக்கில் நடத்தப்படவேண்டும்)

பாடநூல்கள்

1. தமிழ்த்துறைவெளியீடு (தொகுப்பு) - பொதுத்தமிழ் - 2
ஜெயராஜ் அன்னபாக்கியம் மகளிர் கல்லூரி
(தன்னாட்சி),பெரியகுளம்.
2. முனைவர்சி. பாலசுப்பிரமணியன் - தமிழ் இலக்கியவாலாறு,
பாவைப்பள்ளிகேஷன்ஸ்,சென்னை- 60
இரண்டாம் பதிப்பு-2016.

பார்வை நூல்கள்

1. புலவர் பி.ரா.நடராசன் (உ.ஆ) - திருநாவுக்கரசு சுவாமிகள் தேவாரம்,
உமா பதிப்பகம், சென்னை - 600001,
முதல் பதிப்பு - ஏப்ரல் 2003.
2. எம்.நாராயணவேலுப் பிள்ளை - நாலாயிர திவ்யப் பிரபந்தம்,
(உ.ஆ) முல்லை நிலையம், சென்னை - 600017,
முதல் பதிப்பு - செப்டம்பர் 2000.
3. திருவருட்பிரகாசவள்ளலார் - திருவருட்பா, கலைஞன் பதிப்பகம்,
சென்னை - 600017, இரண்டாம் பதிப்பு - 1885.
4. சுந்தரராசன் (உ.ஆ) - இரட்சணியமனோகரம், முல்லை நிலையம்,
சென்னை-600017, முதல் பதிப்பு - 2001.
5. கவிக்கோ அப்துல் ரகுமான் - குணங்குடியார் பாடற்கோவை,
நேஷனல் பப்ளிஷர்ஸ், சென்னை-600017,
முதல் பதிப்பு - டிசம்பர் 2008.
6. பேரா. சே.இராதாகிருஷ்ணன் - தமிழ்விடு தூது, முல்லை நிலையம்,
சென்னை-600017, இரண்டாம் பதிப்பு - 2008.
7. புலியூர்க் கேசிகன் - திருக்குற்றாலக் குறவஞ்சி,
பாவைப்பள்ளிகேஷன்ஸ், சென்னை-600 014,
இரண்டாம் பதிப்பு - ஜூலை 2014.
8. புலியூர்க் கேசிகன் - முக்கூடற் பள்ளு, பாரி நிலையம்,
சென்னை-16, ஐந்தாம் பதிப்பு - செப்டம்பர் 1993.
9. முனைவர்கோ. பெரியண்ணன் - அடிப்படை எளியதமிழ் இலக்கணம்,
வுனிதா பதிப்பகம், சென்னை - 600 017,
முதல் பதிப்பு - 2003.
10. தமிழ் வேந்தன் - பிழையின்றிதமிழ் எழுத பேச,
அருவி வெளியீடு, சென்னை - 600 078,
முதல் பதிப்பு ஏப்ரல், 2003.

NOVEL, ONE ACT PLAY AND GRAMMAR

Semester: II

Hours:5

Code : 23GH2GS02

Credit:3

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Reproduce words both in speaking and writing Hindi.	PSO-1	K1
CO - 2	Acquire a comprehensive knowledge of vocabulary, syntax and grammar in Hindi	PSO-4	K2
CO - 3	Identify the competence in self-expression	PSO-2	K3
CO - 4	Focus on independent learning	PSO-3	K4
CO - 5	Develop proficiency in speaking, listening, reading, and writing Hindi.	PSO-5	K5

UNIT I

(15 Hours)

Nirmala Summary - Bahu kee Vidha (Send - Off) - Grammar-Verb - Dowry is Cruel and Taking Dowry is a Big Sin.

UNIT II

(15 Hours)

Nirmala-Thothaaraam, Kalyaani, Mansaraam, Udhayabhanulal - Rajpoothani ka Badla (Rajputani's Revenge) - Grammar - Tense and Voice - Identify the Sentences in Hindi using Basic Grammar.

UNIT III

(15 Hours)

Nirmala-Sudha, Balachandrasimha, Rangeelaa Bhayee, Siyaram - Andher Nagaree (Dark City) - Grammar- Preposition - Coming out of Darkness with the Wisdom of Knowledge.

UNIT IV

(15 Hours)

Nirmala- Pandith Motaram, Jiyaram, and Bhuvana Mohan Chimhaa - Reed Kee Haddi (Back Bone) Grammar- Conjunction - Jagdishchandra Mathur Shows the Representative of the Entire Female Race.

UNIT V

(15 Hours)

Nirmala - Rukmani, Nirmala, Krishnaa - Grammar - Interjection, Adverb - Nirmala- a critical analysis.

COURSE BOOKS:

1. Nirmala – Novel written by Munshi Premchand, published by Hamsa Prakashan Allahabad.
2. Aadarsh Ekanki, Published by Dakshina Bharath Hindi Prachar Sabha, Thyagaraya Nagar, Chennai – 600 017.

The following Ekankies have been prescribed

- a) Rajpoothri Ka badla – Divjendralal Rai
- b) Andher Nagaree - Bharathendu Harichandra
- c) Reed Kee Haddi – Jagadeeshachandra Maathur
- d) Bahu kee Vidha – Shri vinodh Rasthogi

BOOK FOR REFERENCE:

1. Vyakaran Hindi – written by Ramdev, Published by Hindi Bhavan, 63 Tagore Nagar, Allahabad -2.

The following topics have been prescribed

- a) Verb
- b) Tense and Voice
- c) Adverb
- d) Prepositions
- e) Conjunctions
- f) Interjunctions

COMMUNICATIVE ENGLISH – II

Semester: II

Hours: 4

Code : 23GE2GS02

Credit: 3

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Identify skills in both writing and speaking	PSO-1	K1
CO - 2	Explain the main idea of a text	PSO-3	K2
CO - 3	Utilize website resources to enhance their language skills	PSO-2	K3
CO - 4	Categorize the rhetorical strategies and techniques used in writing and speaking	PSO-5	K4
CO - 5	Criticize the texts after comprehending	PSO-4	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: II		COMMUNICATIVE ENGLISH – II										Hours: 4
Code : 23GE2GS02												Credit: 3
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	4	3	3	3	4	5	3	3	3	4	3.64
CO - 2	3	3	5	4	3	3	3	4	5	3	3	3.55
CO - 3	4	2	3	5	2	2	4	5	3	2	2	3.09
CO - 4	3	5	2	3	4	5	3	3	2	4	5	3.55
CO - 5	4	4	2	4	5	4	4	4	2	5	4	3.82
Overall Mean Score												3.53

Result: The score for this course is **3.53** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I**12 Hours**

1. Listening and Speaking
 - a. Listening and responding to complaints (Formal situation)
 - b. Listening to problems and offering solutions (Informal)
2. Reading and writing
 - a. Reading aloud (Brief motivational anecdotes)
 - b. Writing a paragraph on a proverbial expression/motivational idea.
3. Word Power/Vocabulary
Synonyms & Antonyms

UNIT II**12 Hours**

1. Listening and Speaking
 - a. Listening to famous speeches and poems
 - b. Making short speeches- Formal: welcome speech and vote of thanks.
Informal occasions- Farewell party, graduation speech
2. Reading and Writing
 - a. Writing opinion pieces (On travel, food, film /book reviews or on any contemporary topic)
 - b. Reading poetry
 - i. Reading aloud: (Intonation and Voice Modulation)
 - ii. Identifying and using figures of speech -simile, metaphor, personification etc.
3. Word Power
 - a. Idioms & Phrases

UNIT III**12 Hours**

1. Listening and Speaking
 - a. Listening to Ted talks
 - b. Making short presentations – Formal presentation with PPT, analytical presentation of graphs and reports of multiple kinds
 - c. Interactions during and after the presentations
2. Reading and writing
 - a. Writing emails of complaint
 - b. Reading aloud famous speeches
3. Word Power
 - a. One Word Substitution

UNIT IV

12 Hours

1. Listening and Speaking
 - a. Informal interview for feature writing
 - b. Listening and responding to questions at a formal interview
2. Reading and Writing
 - a. Writing letters of application
 - b. Readers' Theatre (Script Reading)
 - c. Dramatizing everyday situations/social issues through skits.
(writing scripts and performing)
3. Word Power
Collocation

UNIT V

12 Hours

Grammar in Context

1. Adverbs & Prepositions
2. Conjunctions & Interjections
3. Sentence Patterns
4. Working with Clauses

COURSE BOOKS:

- ❖ Communicative English (For Students of Arts and Science Colleges) Tamilnadu State Council for Higher Education (TANSCH)
- ❖ Savarimuttu, Rohan J. S, and G. Petricia Alphine Nirmala, *English Grammar and Usage - An Ideal Companion for Advanced Learners*. New Century Book House (P) Ltd, 2016.

BOOKS FOR REFERENCE

1. Kumar, Manoj. *English Communication: Theory and Practice*. Scholar. Tech Press, 2018.
2. Nachmuthu, Cambridge. *Advanced Communication English*. Cambridge Publishers, 2011.

WEB RESOURCES

<https://www.youtube.com/watch?v=xZbKHDPPrrc>
<https://www.youtube.com/watch?v=TRcIEMgppK8>
https://youtube.com/playlist?list=PLZ-F4pjbka7EIKKAwh83RDqi7Vp0q_DQp
<https://www.scripts.com/script/the-chronicles-of-narnia-the-lion-the-witch-and-the-wardrobe-5540>

FINANCIAL ACCOUNTING - II

Semester: II

Hours: 6

Code : 23CC2MC03

Credit: 5

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO-1	Acquire thorough knowledge on accounting practice prevailing in partnership firms	PSO - 2	K1
CO-2	Understand and Differentiate the fixed and fluctuating capital	PSO - 3	K2
CO-3	Apply the different methods of valuation of goodwill in accounting	PSO - 1	K3
CO-4	Analyze the situation under which a partnership firm can be dissolved	PSO - 4	K4
CO-5	Evaluate and Develop the skill of calculation of deceased partner's share till the time of death	PSO - 5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: II		FINANCIAL ACCOUNTING - II										Hours: 6
Code : 23CC2MCO3												Credit: 5
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO-1	4	3	5	4	5	3	4	5	3	3	4	3.91
CO-2	3	5	3	3	3	3	4	3	5	3	3	3.45
CO-3	5	4	4	3	4	3	5	4	4	3	3	3.82
CO-4	4	3	3	4	3	5	4	3	3	5	4	3.73
CO-5	3	3	3	5	3	4	3	3	3	4	5	3.55
Overall Mean Score												3.69

Result: The score for this course is **3.69** (High Relationship)

Note:

Mapping	1 - 20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Partnership - Meaning - Partnership deed - Types of partners - Provision of partnership Act -Types of capital. **(18 Hours)**

UNIT II

Admission of partner - Revaluation of assets and liabilities - Accumulated Profits and losses - Treatment and methods of valuation of goodwill - Sacrificing Ratio - Capital adjustment. **(18 Hours)**

UNIT III

Retirement of a partner - Gaining ratio - Calculation of profit till the date of retirement - Death of a Partner - Settlement of amount due to legal representative - Life Policy accounts - Executors accounts. **(18 Hours)**

UNIT IV

Dissolution of firm - Realisation account - Garner Vs murray case - Insolvency of all partners - Treatment of unrecorded assets and Liabilities - Piecemeal distribution of cash. Limited liability Partnership **(18 Hours)**

UNIT V

Amalgamation of firms - Accounting procedure - Purchase consideration - Net Payment and Net asset method sale to Company. **(18 Hours)**

COURSE BOOK:

- ❖ T.S. Reddy & Dr. E. Moorthy, Advanced Accountancy, Margham Publications, Chennai, 2020.

BOOKS FOR REFERENCE:

1. S.P. Jain and K.L. Narang, Financial Accounting, Kalayani Publishers; New Delhi, 2021.
2. R.L. Gupta & Radhaswamy, Advanced Accounting, Sultan Chand & Sons; New Delhi, 2021.
3. M.A. Arulanandham & K.S. Raman, Advanced accountancy, Himalaya Publishing House; New Delhi, 2019.
4. R.S. N.Pillai & Bagavathi, Advanced Accounting, S. Chand & Co Ltd., New Delhi, 2020.

WEB SOURCES

1. <https://www.slideshare.net/mcsharmal/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>

Note: Part - A Multiple Choice Questions; Part - B & Part - C Only Problems.

PROGRAMMING WITH C++

Semester: II

Hours: 3

Code : 23CC2MC04

Credit: 2

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO-1	Acquire about object-oriented languages and their applications	PSO - 1	K1
CO-2	Understand and introduce basic concepts of C++ language	PSO - 2	K2
CO-3	Apply the acquired knowledge in various conversions	PSO - 3	K3
CO-4	Enlighten the various inheritance system	PSO - 4	K4
CO-5	Compare knowledge on files and exception handling	PSO - 5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: II		PROGRAMMING WITH C++										Hours: 3
Code : 23CC2MC04												Credit: 2
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO-1	5	3	4	4	4	3	5	4	3	3	4	3.82
CO-2	3	3	5	3	5	3	3	5	3	3	3	3.55
CO-3	3	5	4	3	4	3	3	4	5	3	3	3.64
CO-4	3	4	3	4	3	5	3	3	4	5	4	3.73
CO-5	3	3	4	5	3	4	3	3	3	4	5	3.64
Overall Mean Score												3.67

Result: The score for this course is **3.67** (High Relationship)

Note:

Mapping	1 - 20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Introduction to C ++: Character set - C Tokens - Keywords and Identifiers - Constants - Variables - Declaration of variables. **Various types of operators:** Introduction - Arithmetic operators - Relational operators - Logical operators - Increment and Decrement operators - Conditional operator - Bitwise operators - Special operators- Data Types Expressions and Control Structures in C++; Simple C++ Programs. **(9 Hours)**

UNIT II

Functions in C++ - Main Function - Function Prototyping -Parameters Passing in Functions - Values Return by Functions - Inline Functions - Friend and Virtual Functions. **(9 Hours)**

UNIT III

Classes and Objects; Constructors and Destructors; Operator Overloading and Type Conversions - Type of Constructors - Function Definition - Function overloading - Function Overriding. **(9 Hours)**

UNIT IV

Inheritance: Single Inheritance - Multilevel Inheritance - Multiple Inheritance - Hierarchical Inheritance - Hybrid Inheritance - Pointers, Virtual Functions and Polymorphism; Managing Console I/O operations. **(9 Hours)**

UNIT V

Working with Files: Classes for File Stream Operations -Opening and Closing a File - Endof-File Deduction - File Pointers - Updating a File - Error Handling during File Operations - Command-line Arguments. **(9 Hours)**

COURSE BOOKS:

1. E. Balagurusamy, 1995, Object Oriented Programming with C++, Tata McGraw-Hill Publishing Company Ltd
2. BjarneStroustrup, The C++ Programming, Pearson Education, 2000
3. Ulla Kirh-Prinz, Peter Prinz, A Complete guide to Programming in C++, Jones and Bartlett Publications, 2002

BOOKS FOR REFERENCE

1. Robert Lafore, Object Oriented Programming in Microsoft C++, Galgotia publication
2. "Let us C++" - YeswantKanetkar - BPB Publications, 1999

WEB RESOURCES

1. [https://www.google.co.in/books/edition/A Complete Guide to Programming in C++/-yhuY0Wg_QcC?hl=en&gbpv=1&dq=Programming%20in%20C%2B%2B&pg=PP1&printsec=frontcover](https://www.google.co.in/books/edition/A%20Complete%20Guide%20to%20Programming%20in%20C%2B%2B/pg=PP1_yhuY0Wg_QcC?hl=en&gbpv=1&dq=Programming%20in%20C%2B%2B&pg=PP1&printsec=frontcover)
2. <https://beginnersbook.com/2017/08/c-plus-plus-tutorial-for-beginners/>

PROGRAMMING WITH C++ LAB

Semester: II

Hours: 2

Code : 23CC2CP01

Credit: 2

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Acquire the knowledge on appropriate advanced object-oriented programming concepts in problem solving.	PSO-1	K1
CO - 2	Understand the object-oriented programming features to program design and implementation.	PSO-3	K2
CO - 3	Solve different programming concepts with functions, classes, to overload operators.	PSO- 4	K3
CO - 4	Execute inheritance and Pointers using classes and templates.	PSO-2	K4
CO - 5	Design, implement, test, debug and document in C++	PSO-5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: II		PROGRAMMING WITH C++ LAB										Hours: 2
Code : 23CC2CP01												Credit: 2
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	3	3	3	3	4	5	3	3	4	3	3.55
CO - 2	4	5	3	3	3	4	4	3	5	4	3	3.73
CO - 3	4	3	4	3	4	5	4	4	3	5	3	3.82
CO - 4	4	3	5	3	5	3	4	5	3	3	3	3.73
CO - 5	4	3	3	5	3	4	4	3	3	4	5	3.73
Overall Mean Score												3.71

Result: The score for this course is **3.71**(High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

1. Simple programs in C++
2. Printing Prime numbers between two given numbers
3. Finding area of geometric shapes using function overloading
4. Simple program with classes and objects.
5. Inline functions for simple arithmetic operations.
6. Program using friend functions to calculate the total salary of the family.
7. Program using inline function.
8. Demonstration of Operator overloading & Function Overloading.
9. Creating student mark list using array of objects,
10. Count number of objects in a file.

BUSINESS LAW

Semester: II

Hours: 5

Code : 23CC2AC2A

Credit: 4

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Acquire knowledge on carrying goods through land, sea and airways..	PSO - 1	K1
CO - 2	Understand the essential elements of Indian contract Act 1872	PSO - 2	K2
CO - 3	Understand Sales of Goods and Document of Title to Goods, apply it in the business	PSO - 3	K3
CO - 4	Acquire knowledge and analyze about free consent and coercion	PSO - 4	K4
CO - 5	Understand the basic concepts in cyber laws, Information Technology Act and compare it with business conditions	PSO - 5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester : II		BUSINESS LAW										Hours: 5
Code : 23CC2AC2A												Credits: 4
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO-1	5	3	4	3	4	3	5	4	3	3	3	3.64
CO-2	3	3	5	3	5	4	3	5	3	4	3	3.73
CO-3	3	5	3	4	3	3	3	3	5	3	4	3.55
CO-4	3	3	4	4	4	5	3	4	3	5	4	3.82
CO-5	4	3	3	5	3	4	4	3	3	4	5	3.73
Overall Mean Score												3.69

Result: The score for this course is **3.69** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Indian Contract Act 1872: Definition - Essential elements of a valid contract - classification of contract - Conditions or rules regarding Offer and Acceptance - kinds of offer - Revocation of offer and acceptance - Consideration - rules of consideration - Privity of contract - Exception to the rule privity of contract - Contract without consideration - Exceptions. **(15 Hours)**

UNIT II

Capacity to contract - Minor - Law relating to Minor's Agreement - Persons of unsound mind - Persons disqualified by law - Free consent - Meaning - Definition - Coercion - Threat to commit suicide - Difference between coercion and duress - Undue influence - Contract with pardhanishin women - Misrepresentation - Essentials and kinds - Fraud - Meaning and its essentials - Mistake - Kinds of mistake. **(15 Hours)**

UNIT III

Sale of goods Act 1930: Definition - Formation of Contract of sale - Sale and agreement to sell - Goods and kinds of goods - Sale and hire purchase agreement - Sale - Barter - Exchange - Sale and Bailment - Document of Title to goods - Condition and warranty - Meaning - Difference - Implied and Express condition and warranty. **(15 Hours)**

UNIT IV

The Carriage of Goods Act: Definition - Carriage by land - Kinds of carriers - Duties and Liabilities of Common carrier - Railways as a carrier - Duties and liabilities of Railway Administration - Carriage by Sea - Bill of lading - Charter Party - Content of charter party - Differences - Duties and liabilities of carrier by sea - Mate's Receipt - Carriage by Air - Definition - Documents of Carriage by Air - Content of Airway Bill - Liability of the Air Career. **(15 Hours)**

UNIT V

Cyber Laws and Information Technology Act 2000: Introduction - Need and scope of cyber laws IT Act 2000 - Secure electronic records and secure digital signature - Digital signature certification - Duties of certifying authorities and subscribers - Resignation and removal of presiding officer - Offences - Power of Central and State Government to make rules. **(15 Hours)**

COURSE BOOK:

- ❖ R.S.N. Pillai & Bhagwathi, Business Law, S. Chand and company, New Delhi, 2011.

BOOKS FOR REFERENCE:

1. S.P. Sharma, Business Law, I.K. International Publishing House Pvt., Ltd., New Delhi, 2012.
2. K.C. Carg and R.C. Chawla, Business Law-I, Kalyani Publishers, New Delhi, 2009.
3. P.C. Tulsian, Business Law, Tata McGraw Hill Publishing, New Delhi, 2014.
4. S. Kathiresan and Dr. V. Radha, Business Law, Prasanna Publishers, New Delhi, 2013.

WEB SOURCES

1. www.cramerz.comwww.digitalbusinesslawgroup.com
2. <http://swcu.libguides.com/buslaw>
3. <http://libguides.slu.edu/businesslaw>

BUSINESS COMMUNICATION

Semester: II

Hours: 5

Code : 23CC2AC2B

Credit: 4

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Acquire the basic concept of business communications	PSO-1	K1
CO - 2	Understand the effective business letter.	PSO-3	K2
CO - 3	Apply the concept of various business correspondences	PSO-2	K3
CO - 4	Contrast to various business reports and meetings	PSO-4	K4
CO - 5	Acquire the skill of preparing an effective resume and assess it.	PSO-5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: II		BUSINESS COMMUNICATION										Hours: 5
Code : 23CC2AC2B												Credit: 4
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	3	3	4	3	3	5	3	3	3	4	3.55
CO - 2	4	5	3	3	3	3	4	3	5	3	3	3.55
CO - 3	3	3	5	3	5	4	3	5	3	4	3	3.73
CO - 4	4	3	3	4	3	5	4	3	3	5	4	3.73
CO - 5	4	3	4	5	4	3	4	4	3	3	5	3.82
Overall Mean Score												3.67

Result: The score for this course is **3.67** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Definitions - Meaning - Importance of Effective Communication - Modern Communication Methods - Barriers To Communication- E-Communication - Business Letters: Need Function - Essential Effective Business Letters - Layout.
(15 Hours)

UNIT II

Trade Enquiries - Orders And Their Execution - Credit And Status Enquiries - Complaints And Adjustments - Collection Letters - Sales Letters- Circular Letters.
(15 Hours)

UNIT III

Banking Correspondence - Types - Structure Of Banking Correspondence - Elements Of Good Banking Correspondence - Insurance - Meaning And Types - Insurance Correspondence - Difference Between Life And General Insurance - Meaning Of Fire Insurance - Kinds - Corresponding Relating To Marine Insurance - Agency Correspondence - Introduction - Kinds Stage Of Agent Correspondence - Terms Of Agency Correspondence.
(15 Hours)

UNIT IV

Company Secretarial Correspondence - Introduction - Duties Of Secretary - Classification Of Secretarial Correspondence - Specimen Letters - Agenda And Minutes Of Report Writing - Introduction - Types Of Reports- Preparation Of Report Writing.
(15 Hours)

UNIT V

Application Letters - Preparation Of Resume - Interview: Meaning - Objectives And Techniques Of Various Types Of Interviews - Public Speech - Characteristics Of Good Speech.
(15 Hours)

COURSE BOOK:

1. Rajendra pal & J.S Korlahalli, Essentials of business communication- Sultan Chand & sons - New Delhi, 2015.
2. Gupta and Jain, Sahityabavan Publications, 2011.
3. K.P. Singha, Business communication, Taxmann Publications, 2014.
4. R.S.N. Pillai and Bhagavathi. S, Commercial Correspondence, Chand publications, New Delhi, 2014.
5. M.S Ramesh and R. Pattenshetty, Effective Business English and correspondence, S. Chand & Co publishers, New Delhi, 2011.

BOOKS FOR REFERENCES:

1. V.K. Jain Andom Prakash, Business Communications, S. Chand, New Delhi, 2011.
2. Rithika Motwani, Business Communication, Taxmann Publications 2011.
3. Shirley Taylor, Communications for Business-Pearson Publications - New Delhi, 2013
4. Bovee, Thill, Schatzman, Business Communication Today-Pearson Education, Private Ltd- New Delhi, 2013.
5. Penrose, Rasbery, Myers, Advanced Business Communication- Bangalore, 2012.

WEB RESOURCES

1. <http://www.accountingseekho.com>
2. <https://www.testpreptraining.com/business-communication-practice-exam-questions>
3. <http://bachelors.online.nmims.edu/degree-programs>

ABILITY ENHANCEMENT COURSE (AEC -2)**SUSTAINABILITY LIFE SKILLS****PROGRAMME OUTCOMES**

PO. NO.	UPON COMPLETION OF THIS PROGRAMME THE STUDENTS WILL BE ABLE TO
1.	Gain theoretical knowledge and apply the expertise in different fields.
2.	Acquire Industry specific skills and can emerge as entrepreneurs.
3.	Develop critical and rational thinking to solve societal issues.
4.	Explore the knowledge and acclimatize it in the ever changing work environment.
5.	Evolve theories and develop innovative discipline specific ideas.
6.	Comprehend the nuances and develop innovative, discipline-specific ideas.

PROGRAMME SPECIFIC OUTCOMES

PSO. NO.	UPON COMPLETION OF THIS PROGRAMME THE STUDENTS WILL BE ABLE TO	PO MAPPED
1.	Develop positive thinking that helps them to set and pursue for meaningful goals.	PO-1, 6
2.	Inculcate leadership qualities that lead them to inspire and guide people among peer groups and in workplaces.	PO-1, 2, 3, 6
3.	Assess the advantages and disadvantages of social media.	PO-2, 6
4.	Acquiring trade skills by developing social relationships effectively with trade experts.	PO-2,5,6
5.	Create a consciousness about Sustainable Development goals which is aimed to ensure dignity, peace and prosperity for people and the planet, now and in the future.	PO-3,6
4.	Acquiring trade skills by developing social relationships effectively with trade experts.	PO-2,5,6
5.	Create a consciousness about Sustainable Development goals which is aimed to ensure dignity, peace and prosperity for people and the planet, now and in the future.	PO-3,6

SUSTAINABILITY LIFE SKILLS

Semester: II

Hours: 2

Code : 23AE2VE02

Credit: 2

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	To make them realise the importance of physical health, emotional well-being, and stressmanagement.	PSO-1	K1
CO - 2	Apply the features of team work and strive to become good leaders.	PSO-2,4	K2
CO - 3	Enhance their awareness on social media and e- learning.	PSO-3	K3
CO - 4	Develop interactive skills in online trade, and become value based professionals.	PSO-4	K4
CO - 5	Imbibe awareness about Sustainable Development Goals and become better citizen of the world.	PSO-5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: II		SUSTAINABILITY LIFE SKILLS										Hours: 2
Code : 23AE2VE02												Credit: 2
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	4	4	4	4	4	3	4	4	3	4	4	3.88
CO - 2	4	4	3	4	4	3	4	4	4	4	4	3.81
CO - 3	4	3	4	4	4	3	4	4	4	4	4	3.81
CO - 4	4	4	4	4	4	3	4	4	3	4	3	3.72
CO - 5	4	4	3	4	4	3	3	4	4	4	4	3.72
Overall Mean Score												3.78

Result: The score for this course is **3.78** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I**6 Hours**

Self - Awareness - Empathy - Sympathy - Self-management - Stress Management- Interpersonal Relationship-Accepting Criticism- Problem Solving.

UNIT II**6 Hours**

Lateral thinking-Reasoning-motivation and goal setting- Critical thinking-leadership qualities- Social Etiquettes- Positive attitude- Creativity and components of creativity.

UNIT III**6 Hours**

Entrepreneurial Skills- Money Management-Time Management-Communication-Digital Marketing, Questioning, Observing, Networking

UNIT IV**6 Hours**

Safe Usage of social media- Gender Sensitivity-Inclusiveness-Morphing - Cyber Bulling- some useful apps- mPassport Seva- mParivahan- epathshala -epariksh-Aarogya sethu- Indian Police at your call- mAadhaar- GST Rate Finder-Umang-Sarkari Naukri-SWAYAM.

UNIT V**6 Hours**

Sustainable Development Goals.

1.No Poverty, 2.Zero Hunger 3.Good Health and Well-being 4.Quality Education 5.Gender Equality 6.Clean Water and Sanitation 7.Affordable and Clean Energy 8.Decent Work and Economic Growth 9.Industry, Innovation and Infrastructure 10.Reduced Inequality 11.Sustainable Cities and Communities 12. Responsible Consumption and Production 13. Climate Action 14. Life Below Water 15. Life on Land 16. Peace, Justice and Strong Institutions 17. Partnerships for the Goal.

COURSE TEXT:

❖ Prepared by the members of Foundation Course.

BOOKS FOR REFERENCE:

1. Pearson, Mark. *Emotional Healing & Self-Esteem*, Australian Educational Research, 1998.
2. Kemp. Sid. *Project Management for Small Business Made Easy*, Entrepreneur Press, 2006.
3. Oxley, Alan. *Security Risks in Social Media Technologies. Safe Practices in Public Service Applications*, Chandos Publishing, 2013.
4. Bigg, Tom & Mohammed Valli Moosa, editors. *Survival for a Small Planet: The Sustainable Development Agenda*, Earthscan Publications Ltd, 2004.

WEB-SOURCES

<https://www.skillsyouneed.com/rhubarb/core-life-skills.html>

<http://www.linkedin.com/pulse/what-makes-positive-attitude-10-components-gary>

<http://ifflab.org/how-to-prevent-cyber-bullying-anti-cyber-bullying-law-in-india/>

<http://www.sciencedaily>

[.com/terms/morphing.htm#:text=Morphing%20is%20special%20effect,little%20instruction%20from%20the %20 user.](http://www.sciencedaily.com/terms/morphing.htm#:text=Morphing%20is%20special%20effect,little%20instruction%20from%20the%20user)

<https://apps.gov.in/apps>

<https://sdgs.un.org/goals>

<https://www.indeed.com/career-advice/career-development/entrepreneurial-skills>

EFFECTIVE ENGLISH

Semester: II

Hours: 2

Code : 23SE2CE02

Credit: 2

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Identify their abilities to become better speakers and communicators	PSO-1	K1
CO - 2	Relate their speaking ability in English both in terms of fluency and comprehensibility.	PSO-2	K2
CO - 3	Modify their vocabulary in the context for communication	PSO-4	K3
CO - 4	Analyze their formal and informal communications with better use of words in appropriate contexts	PSO-5	K4
CO - 5	Assess conversations and present their viewpoints and opinions	PSO-3	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: II		EFFECTIVE ENGLISH										Hours: 2
Code : 23SE2CE02												Credit: 2
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	3	3	3	3	3	5	3	3	3	3	3.36
CO - 2	4	3	3	5	3	3	4	5	3	3	3	3.55
CO - 3	4	2	2	2	5	2	4	2	2	5	2	2.91
CO - 4	4	5	3	3	3	5	4	3	3	3	5	3.73
CO - 5	4	3	5	3	3	3	4	3	5	3	3	3.55
Overall Mean Score												3.42

Result: The score for this course is **3.42** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I: Easy Enacting**6 Hours****Orator - Chamber 4 (Paper 1)**

Introducing oneself (Unit 4, Lesson 2)

Student and Teacher (Unit 3 Lesson 3)

In a College Campus (Unit 4, Lesson 1)

Orator- Chamber 4 (Paper 2)

Introducing a Person (Unit 1, Lesson 3)

Inviting for a Birthday Party Unit 2, Lesson 1 & 2)

Ordering for Food (Unit 1, Lesson 4)

UNIT II: Perfecting Phrasal Verbs**6 Hours****Orator- Chamber 3**

Phrasal Verbs in Conversation

Phrasal Verbs for Situations (Describing Place, Time, Daily Routines, Feelings, Health and Socializing)

UNIT III: Captivating Collocation**6 Hours****Orator- Chamber 4**

Types of Collocation

Collocation for Situations

UNIT IV: Idiomatic Expression**6 Hours****Orator- Chamber 5**

Idioms for Conversation

Idioms for Situations

UNIT V: Grammar for Life**6 Hours****Orator- Chamber 7**

Articles, Prepositions, Pronouns, Tenses, Modals (Unit 1 to 5)

INTERNAL COMPONENTS

Test 1	40
Test 2	40
Situational Conversation	10
Designing Brochure/Invitation	5
Attendance	5
Total	100

பொதுத்தமிழ் - 3 (பிற துறை மாணவிகளுக்கு மட்டும்)

பருவம்: மூன்று

நேரம்: 6

குறியீடு: 23GT3GS03

புள்ளி: 3

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	காப்பியங்களின் வழி வாழ்வியல் சிந்தனையை அறிவர்.	PSO-5	K1
CO - 2	காப்பியங்களில் தமிழ்மொழியின் உயர்வை உணர்வர்.	PSO-2	K2
CO - 3	சமகாலப் படைப்புகளின் சிறப்புக்கூறுகளைப் பயன்படுத்தும் ஆற்றலை அறிந்து கொள்வர்.	PSO-3	K3
CO - 4	காப்பியங்கள் மூலம் இலக்கியங்களின் முக்கியத்துவத்தைப் பகுத்தாராயும் திறனை அறிவர்.	PSO-4	K4
CO - 5	மாணவர்கள் படைப்புத்திறனை மதிப்பீடு செய்ய அறிந்து கொள்வர்.	PSO-1	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: III		பொதுத்தமிழ் - 3 (பிற துறை மாணவிகளுக்கு மட்டும்)										Hours: 6
Code : 23GT3GS03												Credit: 3
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	3	3	4	5	4	4	3	4	4	3	5	3.82
CO - 2	3	3	4	4	5	5	3	5	4	3	4	3.91
CO - 3	3	4	5	4	4	4	4	4	5	3	4	4.00
CO - 4	5	3	3	4	4	4	3	4	3	5	4	3.82
CO - 5	3	5	4	3	3	3	5	3	4	3	3	3.55
Overall Mean Score												3.82

Result: The score for this course is **3.82** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

அலகு 1: பெருங்காப்பியங்கள்

சிலப்பதிகாரம்	-	வழக்குரை காதை	
மணிமேகலை	-	ஆதிரை பிச்சையிட்ட காதை	
சீவகசிந்தாமணி	-	பூமகள் இலம்பகம் (பாடல் எண் 2327 - 2336)	
		“கண்ணாடி யன்ன.... ” முதல் “தேம்பெய் கற்பகத்.. வரை	
வளையாபதி	-	கற்பில் மகளிர் (பாடல் எண் -8,9,10,11)	
		“பள்ள முதுநீர்ப்	
		“உண்டியுட் காப்புண்	
		“ எத்துணை யாற்று”	
		“தனிப்பெயற் றண்டுளி	18 Hours

அலகு 2: சமயக் காப்பியங்கள்

பெரியபுராணம்	-	பூசலார் நாயனார் புராணம்	
கம்பராமாயணம்	-	மந்தரை சூழ்ச்சிப்படலம் (பாடல் எண் 1399 - 1428)	
		“ஆண்டை அந்நிலை	
		முதல் “ஏனைநீதி இணையன” வரை	
வில்லிபாரதம்	-	மற்போர் சருக்கம்	
சீறாப்புராணம்	-	புலிவசனித்த படலம்	18 Hours

அலகு 3: புதினம்

வஞ்சிமாநகரம் (வரலாற்றுப் புதினம்)	18 Hours
-----------------------------------	-----------------

அலகு 4

பாடம் தழுவிய இலக்கிய வரலாறு	18 Hours
-----------------------------	-----------------

அலகு 5

மொழித்திறன்	
1. நூல் மதிப்புரை 2. கடிதம் வரைதல்	18 Hours

பாடநூல்கள்

தமிழ்த்துறை வெளியீடு (தொகுப்பு)	-	பொதுத்தமிழ் - 3	
		ஜெயராஜ் அன்னபாக்கியம் மகளிர் கல்லூரி	
		(தன்னாட்சி), பெரியகுளம்.	
முனைவர் சி. பாலசுப்பிரமணியன்	-	தமிழ் இலக்கிய வரலாறு	
		பாவை பப்ளிகேஷன்ஸ்,	
		சென்னை - 60. இரண்டாம் பதிப்பு - 2016.	
நா. பார்த்தசாரதி	-	வஞ்சி மாநகரம் (வரலாற்றுப் புதினம்)	
		பாவை பப்ளிகேஷன்ஸ், சென்னை - 600 014	
		முதற்பதிப்பு ஏப்ரல் 2012	

பார்வை நூல்கள்

- | | |
|---|--|
| ந.மு. வேங்கட சாமி நாட்டார் (உ.ஆ) | - சிலப்பதிகாரம் மூலமும் உரையும், ராமையா பதிப்பகம், சென்னை - 14, 10 ஆம் பதிப்பு 2019. |
| ந.மு. வேங்கடசாமி நாட்டார், ஓளவை சு.துரைசாமிப்பிள்ளை (உ.ஆ) | - மணிமேகலை மூலமும் உரையும் சாரதா பதிப்பகம், சென்னை - 600014 ஏழாம் பதிப்பு 2019 |
| உரை ஆசிரியர் குழு | - சீவக சிந்தாமணி மூலமும் உரையும், சாரதா பதிப்பகம், சென்னை - 14 2 ஆம் பதிப்பு - 2020 |
| புலமை வேங்கடாசலம் | - வளையாபதி, பாவை பப்ளிகேஷன்ஸ் சென்னை - 14 முதல் பதிப்பு மே 2006 |
| கவிஞர் வ.த.இராமசுப்பிரமணியம் எம்.ஏ (உ.ஆ) - | பெரியபுராணம் மூலமும் தெளிவுரையும் இரண்டாம் காண்டம், வெங்கட் நாராயணா ரோடு, டி. நகர், சென்னை -17. முதற்பதிப்பு மார்ச்சு 2004 |
| பேராசிரியர் அ.ச. ஞானசம்பந்தன் முதன்மைப் பதிப்பாசிரியர் | - கம்பராமாயணம் அயோத்தியா காண்டம் 2 நியூ செஞ்சுரி பக்ஹவுஸ் (பி.லிட்) சென்னை - 98. முதல் பதிப்பு டிசம்பர் 2012. |
| எஸ்.விக்ரமநாதன் (பதிப்பாசிரியர்) | - வில்லிபாரதம் இரண்டாம் பாகம் தம்பி செட்டி தெரு சென்னை -1 முதல் பதிப்பு 1959 |

Poetry and History of Hindi Literature, Technical Hindi

Semester: III

Hours: 5

Code : 23GH3GS03

Credit: 3

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Learn the reform work done by Saint Kabirdas and Saint Tulasidas	PSO-1	K1
CO - 2	Develop Official and General Knowledge.	PSO-4	K2
CO - 3	Know the Origin of Bhakthi Movement.	PSO-2	K3
CO - 4	Develop Analysis Skills .	PSO-3	K4
CO - 5	Creative Writing will be Developed.	PSO-5	K5

UNIT I**(15 Hours)**

- ❖ Sachche Devtha
- ❖ Kabir Ke Dohe - 5 numbers
- ❖ “Gyan Margi Shakha - Prominent Poets and their Poems” - Kabirdas in detailed.

UNIT II**(15 Hours)**

- ❖ Murjhaphool
- ❖ Tulasi Ke Dohe - 5 numbers
- ❖ “Ram Bhakthi Shakha - Prominent Poets and their Poems” -Tulasidas in detailed.

UNIT III**(15 Hours)**

- ❖ Vivashtha
- ❖ Deep Koyee Jal Raha Hai
- ❖ “Krishna Bhakthi Shakha - Prominent Poets and their Poems” - Surdas in detailed.

UNIT IV**(15 Hours)**

- ❖ Badhal
- ❖ “Prem Margi Shakha - Prominent Poets and their Poems” - Jayasi in detailed.
- ❖ Technical Hindi:
 - Banking Terms : 50 only
 - Name of the Ministries: 50 only

UNIT V**(15 Hours)**

- ❖ Vashand Aayaa
- ❖ Short Notes from Reethikal and Adunikkal: Chayavad , Mythili Sharan, Meera Bhaayi, Ameer Khusro.
- ❖ Technical Hindi: E-mail kaa Upayog

COURSE BOOKS:

1. Kavya Saurab Published by Dakshina Bhaaritha Hindi Prachar Sabha, T. Nagar, Chennai-600 017.

The following poems have been prescribed

- ❖ Sachche Devtha - Ayodhya Singh Upadhyay Harioudh
- ❖ Murjhaphool - Mahadevi Varma
- ❖ Vivashtha - Shivamangala Simh Suman
- ❖ Deep Koyee Jal Raha Hai - Ramnaresh Thiripati
- ❖ Badhal - Sumithranandhan panth
- ❖ Vashand Aayaa - Suryakanth Thripati Niraalaa
- ❖ Kabir ke Dohe
- ❖ Tulasi ke Dohe

2. Hindi Sahithiya kaa Sanchiptha Ithihaas - Published by Dakshina Bharath Hindi Prachar Sabha, Thyagaraya Nagar, Chennai - 600 017.

The following Bakthi kaal have been prescribed

- ❖ Gyan marg, Prem maarg, Rambakthi, Krishnabakthi
- ❖ Adunikkal & Reethikkal Notes: Chayavad , Mythili Sharan, Meera Bhaayi, Ameer Khusro.

BOOKS FOR REFERENCE:

1. Technical Hindi - Karyalaya Sahayika, Kendriya Sachivalaya Hindi Parishad New Delhi, Hindi Vathayan Dr.K.Chandra Mohan, Viswa Vidhyalaya Prakashan Varanashi.

The following topics have been prescribed

- ❖ Banking Terms - 50 only
- ❖ Name of the Ministries - 50 only
- ❖ E-mail kaa Upayog

COMMUNICATIVE ENGLISH - III

Semester: III

Hours: 4

Code : 23GE3GS03

Credit: 3

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Identify cultural diversity and divergence in perspectives.	PSO-3	K1
CO - 2	Interpret their skills and attitudes relevant to the emerging society.	PSO-2	K2
CO - 3	Produce grammatically and idiomatically correct language.	PSO-1	K3
CO - 4	Categorize the writing techniques to meet academic and professional needs.	PSO-4	K4
CO - 5	Plan for career oriented tests with sufficient practice in Grammar and Comprehension.	PSO-5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: III		COMMUNICATIVE ENGLISH - III										Hours: 4
Code : 23GE3GS03												Credit: 3
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	3	3	5	2	2	3	3	2	5	2	3	3.0
CO - 2	3	2	2	5	2	2	3	5	2	2	2	2.73
CO - 3	5	3	3	2	2	3	5	2	3	2	3	3.0
CO - 4	3	3	2	3	5	3	3	3	2	5	3	3.18
CO - 5	2	5	2	2	4	5	2	2	2	4	5	3.18
Overall Mean Score												3.02

Result: The score for this course is **3.02** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I: POETRY**12 Hours**

- Mamang Dai - "The Voice of the Mountains"
Toru Dutt - "Sita"
Oodgeroo Noonuccal - "A Song of Hope"
Christina Rossetti - "In an Artist's Studio"

UNIT II: SCENES FROM SHAKESPEARE**12 Hours**

- Romeo & Juliet* - The Balcony Scene
Macbeth - The Banquet Scene
Julius Caesar - The Murder Scene

UNIT III: SPEECHES OF FAMOUS PERSONALITIES**12 Hours**

- Jawaharlal Nehru - "A Tryst with Destiny"
Barack Obama - "Yes, We Can"
Steve Jobs - "You've Got to Find What You Love"

UNIT IV: GRAMMAR IN CONTEXT**12 Hours**

- Articles, Determiners and Quantifiers
Linking Words/ Connectives
Compound Words
Direct and Reported Speech

UNIT V: LANGUAGE COMPETENCY

- Writing letters and emails
Writing in Social media platforms
[Blogs, X, Instagram, Facebook]
Learning etiquette and Email Etiquette

12 Hours**COURSE BOOKS:**

- ❖ Course Materials will be provided by the Department of English.
- ❖ Savarimuttu, Rohan J. S, and G. Petricia Alphine Nirmala, *English Grammar and Usage - An Ideal Companion for Advanced Learners*. New Century Book House (P) Ltd, 2016.

BOOKS FOR REFERENCE

1. Stanley Wells, *The Shakespeare Book: Big Ideas Simply Explained*, DK Publishing, 2015.
2. Jeane Kelly Bernish, *Build a Professional Digital Profile*. Kindle Edition, Bernish Communications Associates, LLC; 1st edition, 2012.
3. Kryisia M Yardley- Matwiejczuk, *Role Play-Theory and Practice*. SAGE publications ltd, 1997.

WEB SOURCES

<https://www.scribd.com/document/558838656/The-Voice-of-the-Mountain-By-Mamang-Dai-Adivasi-Resurgence>

<http://www.wordslikethis.com.au/a-song-of-hope/>

<https://www.poetryfoundation.org/poems/146804/in-an-artist39s-studio>

<https://www.poetrynook.com/poem/s%E2%94%9C%C2%ABta>

<https://www.cam.ac.uk/files/a-tryst-with->

[destiny/index.html#:~:text=Jawaharlal%20Nehru%2C%20delivering%20his%20Tryst%20with%20Destiny%20speech.&text=%22Long%20years%20ago%20we%20made,awake%20to%20life%20and%20freedom.](https://www.cam.ac.uk/files/a-tryst-with-destiny/index.html#:~:text=Jawaharlal%20Nehru%2C%20delivering%20his%20Tryst%20with%20Destiny%20speech.&text=%22Long%20years%20ago%20we%20made,awake%20to%20life%20and%20freedom.)

CORPORATE ACCOUNTING - I

Semester: III

Hours: 5

Code : 23CC3MC05

Credit: 4

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO-1	Grasp and understand the fundamental principles of corporate accounting	PSO - 1	K1
CO-2	Identify and relate the uniqueness of special accounts like issue of shares and redemption of preference shares.	PSO - 4	K2
CO-3	Analyze and elucidate final accounts while considering specific circumstances and necessities.	PSO - 2	K3
CO-4	Organize the valuation of goodwill and shares.	PSO - 5	K4
CO-5	Apply Indian Accounting Standards effectively in practical scenarios, in accordance with the aforementioned concepts and their applications.	PSO - 3	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: III		CORPORATE ACCOUNTING- I										Hours: 5
Code : 23CC3MC05												Credits: 4
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO-1	5	3	3	4	3	3	5	3	3	3	4	3.55
CO-2	3	3	4	4	4	5	3	4	3	5	4	3.82
CO-3	3	3	5	3	5	3	3	5	3	3	3	3.55
CO-4	3	3	3	5	3	3	3	3	3	3	5	3.36
CO-5	3	5	3	3	3	4	3	3	5	4	3	3.55
Overall Mean Score												3.56

Result: The score for this course is **3.56** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Issue of Shares - Forfeiture -Reissue - Pro -rata Allotment - Right Issue -Bonus Issue
- Underwriting of shares and debentures-Underwriting commission-Types of underwriting. (15 Hours)

UNIT II

Redemption of Preference Shares - Provision of Companies Act-Capital Redemption Reserve-Minimum Fresh Issue- Redemption at Premium-Debentures: Issue and Redemption - Meaning -Methods - in One lot -in Installment -Purchase in the open market includes Ex interest and cum interest - Sinking Fund Investment Method. (15 Hours)

UNIT III

Introduction -Final Accounts -Form and Contents of Financial Statements as per Schedule III of Companies Act 2013 - Part I Form of Balance Sheet-Part II Form of Statement of Profit and Loss -Ascertaining Profit for Managerial Remuneration. (15 Hours)

UNIT IV

Valuation of Goodwill and Shares- Factors Affecting Goodwill -Methods of Valuation -Acquisition of Business. (15 Hours)

UNIT V

International Financial Reporting Standard (IFRS)-Meaning and its applicability in India -Indian Accounting Standards -Meaning - Objectives -Significance - Accounting standards in India- Procedures for Formulation of Standards -IndAS - 1Presentation of Financial Statement, Ind AS -2 Valuation of Inventories, Ind AS-7 Cash Flow Statement, Ind AS-8 Accounting Policies, Changes in Accounting Estimates and Errors, Ind AS12 Income Tax IndiAS110,Consolidated Financial Statement (15 Hours)

COURSE BOOKS:

1. T.S. Reddy & Dr. E. Moorthy, Advanced Corporate Accounting, Vol I, Margham Publications, Chennai, 2020.
2. S.P. Jain and N.L. Narang, Advanced Accounting Vol I, Kalyani Publication, New Delhi, 2018.
3. R.L. Gupta and M. Radhaswamy, Advanced Accounts Vol I, Sultan Chand, New Delhi, 2022.
4. Broman, Corporate Accounting, Taxmann, New Delhi, 2022.
5. Shukla, Grewal and Gupta-Advance Accounting Vol I, S. Chand, New Delhi, 2007.

BOOKS FOR REFERENCE:

1. D.S. Rawat & Nozer Shroff, Students Guide to Accounting Standards, Taxmann, New Delhi, 2021.
2. Prof. Mukesh Bramhbut, Devi, Corporate Accounting I, Ahilya Publication, Madhya Pradesh, 2015.
3. Anil Kumar, Rajesh Kumar, Corporate Accounting I, Himalaya Publishing House, Mumbai, 2011.
4. Prasanth Athma, Corporate Accounting I, Himalaya Publishing House, Mumbai, 2000.
5. M.C. Shukla, Advanced accounting Vol I, S. Chand, New Delhi, 2007.

WEB RESOURCES:

1. <https://www.tickertape.in/blog/issue-of-shares/>
2. <https://www.taxmann.com/bookstore/bookshop/bookfiles/chapter12valuationofgoodwillandshares.pdf>
3. <https://www.mca.gov.in/content/mca/global/en/acts-rules/ebooks/accounting-standards.html>

Note: Part A- MCQ; Part B & Part C - Only Problems

COMPANY LAW

Semester: III

Code : 23CC3MC06

Hours: 5

Credit: 4

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO-1	Understand the Company Law Act 1956, Formation of Company, Meeting and resolution, Legal Position of Directors, Winding up of the Company.	PSO-1	K1
CO-2	Apply the provisions of the Company Law Act 1956 regarding the formation of companies, including Memorandum and Articles of Association (MOA and AOA).	PSO-5	K2
CO-3	Recognize the procedures related to meetings and resolutions under the Company Law Act 1956.	PSO-3	K3
CO-4	Know the legal roles and responsibilities of directors as outlined in the Company Law Act 1956, NCLT, NCLAT, Winding up of the Company.	PSO-4	K4
CO-5	Relate the provisions of the Company Law Act 1956 to the powers of the tribunal and the role of liquidators in the winding-up process.	PSO-2	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: III		COMPANY LAW										Hours: 5
Code : 23CC3MC06												Credit: 4
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	3	3	4	3	4	5	3	3	4	4	3.73
CO - 2	4	3	3	5	3	4	4	3	3	4	5	3.73
CO - 3	4	5	3	3	3	3	4	3	5	3	3	3.55
CO - 4	4	3	3	3	3	5	4	3	3	5	3	3.55
CO - 5	3	3	5	4	5	4	3	5	3	4	4	3.91
Overall Mean Score												3.69

Result: The score for this course is **3.69** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Companies Act 2013 - Definition of a company, Characteristics of Company - Lifting or Piercing the Corporate Veil - Company Distinguished from Partnership and Limited Liabilities Partnerships - Classification of Companies - Based on Incorporation, Liability, Number of Members, Control. **(15 Hours)**

UNIT II

Formation of a Company - Promoter - Fundamental Documents - Memorandum of Association - Contents - Alteration - Legal Effects - Articles of Association - Certificate of Incorporation - Prospectus - Contents - Kinds - Liabilities - Share Capital - Kinds - Issue - Alteration - Dividend - Debentures. **(15 Hours)**

UNIT III

Meeting and Resolution - Types - Requisites - Voting & Poll - Resolution - Ordinary, Special Audit & Auditors-Qualification, Disqualification, Appointment and Removal of an Auditor. **(15 Hours)**

UNIT IV

Management & Administration-Directors - Legal Position - Board of Directors - Appointment / Removal - Disqualification - Director Identification Number - Directorships - Powers - Duties - Board Committees - Related Party Transactions - Contract by One - Person Company - Insider Trading - Managing Director - Manager - Secretarial Audit - Administrative Aspects and Winding Up - National Company Law Tribunal (NCLT) - National Company Law Appellate Tribunal (NCLAT) - Special Courts. **(15 Hours)**

UNIT V

Meaning - Modes-Compulsory Winding Up - Voluntary Winding Up - Consequences of Winding Up Order- Powers of Tribunal - Petition for Winding Up - Company Liquidator. **(15 Hours)**

COURSE BOOKS:

1. N.D.Kapoor, Business Laws, Sultan Chand and Sons Publication, New Delhi, 2021.
2. R.S.N. Pillai, Business Law, S. Chand, New Delhi, 2017.
3. M.V. Dhandapani, Business Laws, Sultan Chand and Sons, Chennai, 2022.
4. Shusma Aurora, Business Law, Taxmann Publication Pvt Ltd, New Delhi, 2022.
5. M.C. Kuchal, Business Law, Vikas Publication, Noida, 2021.

BOOKS FOR REFERENCE:

1. Gaffoor & Thothadri, Company Law, Vijay Nichole Imprints Limited, Chennai, 2017.
2. M.R. Sreenivasan, Business Laws, Margam Publications, Chennai, 2019.
3. Kaviya and Vidhya Sagar, Business Law, Nithya Publication, Bhopal, 2016.
4. S.D. Geet, Business Law, Nirali Prakashan Publication, Pune, 2018.
5. Preethi Agarwal, Business Law, CA Foundation Study Material, 2021.

WEB RESOURCES:

1. <https://www.mca.gov.in/content/mca/global/en/acts-rules/companies-act/companies-act-2013.html>
2. <https://vakilsearch.com/blog/explain-procedure-formation-company/>
3. <https://www.investopedia.com/terms/w/windingup.asp>

VISUAL BASIC

Semester: III

Hours: 3

Code : 23CC3AC3A

Credit: 3

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO-1	Understand and Recall working in visual basics	PSO-1	K1
CO-2	Comparing various kind of variables, operations, functions in visual basics	PSO-2	K2
CO-3	Applying decisions and conditions & control (buttons, checkbox ,message box) in visual basic	PSO-3	K3
CO-4	Analyzing work with forms and settings in procedures.	PSO-4	K4
CO-5	Design the list box, combo box and controls based on the database file.	PSO-5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: III		VISUAL BASIC										Hours: 3
Code : 23CC3AC3A												Credits: 3
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO-1	5	3	3	3	3	3	5	3	3	3	3	3.36
CO-2	3	3	5	3	5	3	3	5	3	3	3	3.55
CO-3	3	5	3	3	3	3	3	3	5	3	3	3.36
CO-4	3	3	3	3	3	5	3	3	3	5	3	3.36
CO-5	3	3	3	5	3	2	3	3	3	2	5	3.18
Overall Mean Score												3.36

Result: The score for this course is **3.36** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Introduction to Visual Basic: Introduction Graphics User Interface (GUI), Programming Language (Procedural, Object Oriented, Event Driven), The Visual Basic Environment IDE; Introduction to VB Controls: Textboxes, Frames, check Boxes, Option Buttons, Setting a Border & Style, the shape Control, The line control, Working with multiple controls and their properties, Designing the user Interface, Keyboard access, tab controls. Default & controls property, Coding for Controls, list box and combo box and their properties, filling the list box using property window/ add item method, picture/ image box and their properties. **(9 Hours)**

UNIT II

Variables, Constants and Calculations: Variables, Variables Public, Private, Static, Constants, Data Types, Naming rules/ conventions, Named & intrinsic, Declaring variables, Scope of variables, Val Function, Arithmetic operations, formatting Data. Error functions and types. Introducing to menu editor. **(9 Hours)**

UNIT III

Decision & conditions and Controls: If Statement, If then-else Statement, Comparing String, Compound conditions (and, or Not), Nested if Statements, Case Structure, Using If Statements with option Buttons & Check Boxes, Displaying Message in Message Box, testing whether input is valid or not. Using call Statement to call a procedure. Do loop, while and for next loop. **(9 Hours)**

UNIT IV

Working with forms and procedures: Introducing to forms and types of forms and setting form properties, Creating, adding, removing Forms in project, hide, Show Method, Load, Unload, Statement, Me Keywords, Referring to objects on a Different Forms. **(9 Hours)**

UNIT V

Introduction to database connecting tools (ADO, DAO, ADODC, ADODB), Creating the database file for use by Visual Basic (Using MS Access), Using the Data control, Setting its property, Using Data control with forms, using list boxes & combo boxes as data bound controls, updating a database file (adding, deleting records): PS - (Basic concepts only). **(9 Hours)**

COURSE BOOKS:

1. Mohammed Azam, Programming with Visual Basic 6.0.- IKAS publishing house (P) Ltd.
2. Gary Cornell, "Visual Basic 6 from the Ground up", First Edition, 1999, Tata McGraw-Hill. New Delhi.
3. Steven Holzner, "Visual Basic 6 Black Book", Second Edition, 1999, Oreilly.

BOOKS FOR REFERENCE:

1. Noel Jerke, "Visual Basic 6 (The Complete Reference)", Second Edition, 1999, Tata McGraw-Hill, New Delhi. 2020
2. Overland Brian, "Visual Basic 6 in Plain English", Third Edition, 1999, John Wiley

WEB RESOURCES:

1. www.tutorialspoint.com/listtutorials/visual-basic
2. https://www.google.co.in/books/edition/Beginning_Visual_Basic_2015/Ax4FCAAAQBAJ?hl=en&gbpv=1&dq=Visual%20basic&pg=PR1&printsec=frontcover
3. https://www.google.co.in/books/edition/Visual_Basic_6_Programming_Black_Book_Wi/a5iIRThV0RoC?hl=en

DATABASE MANAGEMENT SYSTEM

Semester: III

Hours: 3

Code : 23CC3AC3B

Credit: 3

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO-1	Familiarizing with Data, Information and Information procession for database.	PSO-2	K1
CO-2	Understand and Create the master sound design principles for logical design of databases, including the E-R Model.	PSO- 1	K2
CO-3	Create and Demonstrate the relational algebra theory to write relational algebra expressions for queries.	PSO-5	K3
CO-4	Mastering the basics of SQL and construct queries using SQL.	PSO-3	K4
CO-5	Analyze database design by normalization and development of a database application system.	PSO-4	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: III		DATABASE MANAGEMENT SYSTEM										Hours: 3
Code : 23CC3AC3B												Credits: 3
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO-1	3	3	5	3	5	3	3	5	3	3	3	3.55
CO-2	5	4	3	3	3	3	5	3	4	3	3	3.55
CO-3	3	4	3	5	3	4	3	3	4	4	5	3.73
CO-4	4	5	3	3	3	3	4	3	5	3	3	3.55
CO-5	3	3	3	3	3	5	3	3	3	5	3	3.36
Overall Mean Score												3.55

Result: The score for this course is **3.55** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Introduction - Definition of Information - Information Processing Cycle - DATABASE SYSTEMS: Organization of a Database- Database Management Systems - Functions of DBMS - Components of DBMS-Database Architecture - Data Models: Hierarchical Model - Network Model-Relational Model. **(9 Hours)**

UNIT II

Entity - Relationship - Introduction - ER model - Components of an ER model -ER Model symbols. **(9 Hours)**

UNIT III

Fundamental operations, extended relational algebra operations. **(9 Hours)**

UNIT IV

Create, drop, alter tables - describe table - simple select statements - order by, group by clauses - Sub queries - creating views - expanding the view - changing data with insert, update, merge and delete. **(9Hours)**

UNIT V

Introduction - first normal form - second normal form - third normal form - Boyce - Codd's normal form. **(9 Hours)**

COURSE BOOK:

- ❖ Silberschatez, Korth and Sudarshan, Database system concepts, McGraw Hill Publications, New Delhi, 4th edition, 2010.

BOOKS FOR REFERENCE:

1. Bipin c Desai, An introduction to database systems, Galgotia Publications Pvt. Ltd., 2005.
2. C.J. Date, An introduction to Database System, Pearson education Ltd, Delhi, 2005.
3. Alexis Leon &Mathews Leon, Database Management System, Vikas publications House Private Ltd, Noida, 2002.

VISUAL BASIC -LAB

Semester: III

Hours: 2

Code : 23CC3AP3A

Credit: 1

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO-1	Understand and Recall working in visual basics	PSO-1	K1
CO-2	Comparing various kind of variables in visual basics	PSO-2	K2
CO-3	Applying control in visual basic	PSO4	K3
CO-4	Analyzing work with functions, array	PSO-3	K4
CO-5	Apply the concepts of various string and numeric functions	PSO-5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: III		VISUAL BASIC -LAB										Hours: 2
Code : 23CC3AP3A												Credit: 1
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO-1	5	3	3	3	3	3	5	3	3	3	3	3.36
CO-2	3	3	5	3	5	3	3	5	3	3	3	3.55
CO-3	3	4	3	3	3	5	3	3	4	5	3	3.55
CO-4	3	5	3	3	3	4	3	3	5	4	3	3.55
CO-5	4	3	4	5	4	3	2	4	3	3	5	3.64
Overall Mean Score												3.53

Result: The score for this course is **3.53** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

LIST OF PRACTICALS:

1. Write a visual basic program to perform arithmetic operations (+,-*/).
2. Write a visual basic program using list box to sort the numbers in ascending and descending order.
3. Design a form with textbox, labels, list box, combo box, and command button to display your bio data.
4. Write a visual basic program to calculate simple interest and compound interest values using function.
5. Design a form to display the list of products by using list box controls.
6. Write a visual basic program to generate Fibonacci series.
7. Write a visual basic program to perform string manipulation.
8. Write a visual basic program to change the color using scrollbar.
9. Write a visual basic program to perform number checking.
10. Write a visual basic program to menu editor, text editor using rich text box. to format files.
11. Write a visual basic program to format font in different styles.
12. Design the form to create a database for ten customers using DAO control.
13. Design an employee payroll using ADO control.

COURSE BOOKS:

1. Mohammed Azam, Programming with Visual Basic 6.0.- IKAS publishing house (P) Ltd.
2. Gary Cornell, "Visual Basic 6 from the Ground up", First Edition, Tata McGraw Hill.New Delhi, 1999.
3. Steven Holzner, "Visual Basic 6 Black Book", Second Edition, 1999, Oreilly.

BOOKS FOR REFERENCE:

1. Noel Jerke, "Visual Basic 6 (The Complete Reference)", Second Edition, Tata Mc Graw-Hill, New Delhi, 1999.
2. Overland Brian, "Visual Basic 6 in Plain English", Third Edition, 1999, John Wiley

NOTE: Latest Edition of Textbooks May be Used

WEB RESOURCES

1. www.tutorialspoint.com/listtutorials/visual-basic
2. [https://www.google.co.in/books/edition/Beginning_Visual_Basic_2015/Ax4FCAA_AQBAJ?hl=en&gbpv=1&dq=Visual%20basic&pg=PR1&printsec=front cover](https://www.google.co.in/books/edition/Beginning_Visual_Basic_2015/Ax4FCAA_AQBAJ?hl=en&gbpv=1&dq=Visual%20basic&pg=PR1&printsec=front%20cover)
3. https://www.google.co.in/books/edition/Visual_Basic_6_Programming_Black_Book/Wi/a5iIRTh_V0RoC?hl=en

DATABASE MANAGEMENT SYSTEM - LAB

Semester: III

Hours: 2

Code : 23CC3AP3B

Credit: 1

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO-1	Have working knowledge in DBMS for various departments of the organization.	PSO-1	K1
CO-2	Design and implement a database schema for a given problem domain	PSO-2	K2
CO-3	Create a database query using SQL DML/DDL/DCL commands	PSO4	K3
CO-4	Programming PL/SQL including stored procedures, character function, control structures, date and time functions.	PSO-3	K4
CO-5	Solve database problems using SQL and PL/SQL	PSO-5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: III		DATABASE MANAGEMENT SYSTEM - LAB										Hours: 2
Code : 23CC3AP3B												Credits: 1
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO-1	5	3	3	3	3	3	5	3	3	3	3	3.36
CO-2	3	3	5	3	5	3	3	5	3	3	3	3.55
CO-3	4	4	3	3	3	5	4	3	4	5	3	3.73
CO-4	4	5	4	3	4	3	4	4	5	3	3	3.82
CO-5	4	3	3	5	3	3	4	3	3	3	5	3.55
Overall Mean Score												3.60

Result: The score for this course is **3.60** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

1. Write a query in SQL to create an employee table. Employee (empno, ename, deptno, job, hiredate)
 - a. To insert 10 records to the table
 - b. To alter the table to add two more columns as salary, designation to the employee table.
 - c. To update the salary, designation fields to the employee table.
 - d. To display the employee table.
2. Write a query in SQL to create a department table. Department (deptno, dname, loc).
 - a. To make deptno as primary key.
 - b. To ensure dname and loc columns does not contain NULL values. Enforce REFERENTIAL INTEGRITY and Declare deptno field of department table as a primary key and deptno field of employee table as a foreign key.

3. Insert the following values in employee table.

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	Smith	Clerk	7902	17-dec-80	8000	200	10
7499	Allen	Salesman	7698	20-feb-81	1600	300	30
7521	Ward	Salesman	7698	22-feb-81	1250	500	30
7566	Jones	Manager	8394	02-apr-81	2975	200	30
7654	Martin	Salesman	7698	28-sep-81	1250	1400	30

- a. Edit the commission of Jones to 1000.
 - b. Retrieve all rows of employee table.
 - c. Delete the row from employee table where deptno is 10.
 - d. Delete all rows from employee table.
 - e. Drop the employee table.
4. Write a SQL program using Aggregate Operations
 - a. Retrieve the details of employee whose salary is between 1000 and 2000 both inclusive?
 - b. To find the average salary of all the employees.
 - c. To find the average yearly compensation paid to Salesman.
 - d. To find the minimum salary of managers in various departments having salary greater than 2500.
 - e. To select all employees sorted department wise in ascending order.
 - f. To select all employees sorted department salary wise in descending order.
5. Write a SQL program using Subquery.
 - a. Get the details of all the books whose price is greater than the average price of the books.
 - b. Get the names of all the books for which an order has been placed.
 - c. Get the title and price of all the books whose price is less than the average price of the books.

6. Write a SQL Program using Character function.
7. Write a SQL Program using Date and Time function.
8. Write a PL/SQL program to check whether the given number is odd or even.
9. Write a PL/SQL program using Control Structure.
10. Write a PL/SQL program using procedure and function.

COURSE BOOKS

1. "Relational Database System Concepts", 6th Edition by Abraham Silberschatz, Henry F. Korth, S. Sudarshan, McGraw-Hill. New Delhi, 2016
2. "Fundamentals of Database Systems", 7th Edition by R. Elmasri and S. Navathe, Pearson, Delhi, 2010
3. "An introduction to Database Systems", C J Date, Pearson. Delhi, 2005

BOOKS FOR REFERENCE

1. "Modern Database Management", Hoffer, Ramesh, Topi, Pearson, 2010
2. "Principles of Database and Knowledge - Base Systems", Vol 1 by J. D. Ullman, Computer Science Press, 2013.
3. An Introduction to Database Systems - C.J.Date - Addison - Wesley Publications - Seventh Edition Delhi, 2000.

NOTE: Latest Edition of Textbooks May be Used

WEB RESOURCES

1. <https://www.youtube.com/watch?v=T7AxM7Vqvaw>
2. https://www.youtube.com/watch?v=kBd1M6hNDAE&list=PLxCzCOWd7aiFAN6I8CuViBu_CdJgiOkT2Y
3. <https://www.youtube.com/watch?v=wjfeGxqAQOY&list=PLrjkTql3jnmCLxHftqLgkrZbM8fUt0vn>

CREATIVE DESIGNING PRODUCTS

Semester: III

Code : 23SE3CC03

COURSE OUTCOMES:

Hours: 1

Credits: 1

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO-1	Understand the need of entrepreneur, the concept of business environment, marketing concepts and structure of bouquet, fashion accessories, tassels, and doll making.	PSO-1	K1
CO-2	Analyze the emergence of the entrepreneurial class and its impact on society, need for fashion accessories, the components of the business environment,	PSO-2	K2
CO-3	Identify the characteristics of successful entrepreneurs, the skills required for the preparation of fashion accessories, building bouquets, tassels, and dolls	PSO-3	K3
CO-4	Examine the challenges faced by the entrepreneurial industry	PSO-4	K4
CO-5	Apply practical skills in making fashion accessories, building bouquets, tassels, and dolls	PSO-5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: III		CREATIVE DESIGNING PRODUCTS #										Hours: 1
Code : 23SE3CC03												Credit: 1
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO-1	5	3	3	3	3	3	5	3	3	3	3	3.36
CO-2	2	3	5	3	5	3	2	5	3	3	3	3.36
CO-3	3	5	3	3	3	3	3	3	5	3	3	3.36
CO-4	3	3	3	3	3	5	3	3	3	5	3	3.36
CO-5	3	3	3	5	3	4	3	3	3	4	5	3.55
Overall Mean Score												3.40

Result: The score for this course is **3.40** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

The Entrepreneur-Definition- Emergence of entrepreneurial class- Entrepreneurship-Meaning- Theories of entrepreneurship - Characteristics of entrepreneur, Types of Entrepreneur- Qualities of Entrepreneur-Intrapreneur- Differences between Entrepreneur and Intrapreneur.

Practical: Act as an Entrepreneur (3 Hours)

UNIT II

Fashion Accessories: - Meaning- Definition- History of Fashion- Importance -Need of Fashion Accessories- s Types of Fashion Accessories-Equipment's of Fashion Accessories-List of Fashion Accessories-Male and Female Fashion Accessories- skills Needed for the preparation of Accessories-Problems of Fashion Industry-- Target customer - Recent trends.

Practical: Jewellery Making (3 Hours)

UNIT III

Business Environment:-Introduction: Concept, Components and Significance of Business Environment, Micro-Macro Environment-SWOT Analysis, **Leadership:** Leadership & management, Theories of leadership- How to be an Effective Leader

Practical: Act as a Leader (3 Hours)

UNIT IV

Bouquet, Tassels and Doll Making:- -Need, Structure, Techniques for building of Bouquet, Tassels and Doll- Management Skills required for making Bouquet, Bouquet, Tassels and Doll-Types of Bouquet, Bouquet, Tassels and Doll- Process of Different type of Bouquet, Tassels and Doll.

Practical: Bouquet, Tassels and Doll Making (3 Hours)

UNIT V

Marketing: Introduction to Marketing and Marketing Management, Marketing Concepts - Marketing Process Marketing mix - Marketing environment. - Consumer Markets and buying behaviour - Market segmentation

Practical: Area Analysis, Marketing survey (3 Hours)

COURSE BOOK:

Prepared by the Department

BOOK FOR REFERENCE:

1. Donald F. Kuratko, Entrepreneurship: Theory, Process, and Practice" Mumbai, 2010.
2. Eric Ries. "The Lean Startup: How Today's Entrepreneurs Use Continuous Innovation to Create Radically Successful Businesses" Pearson Publication, New Delhi, 2012.
3. Lars Svendsen, "Fashion: A Philosophy" S. Chand, Delhi 2011.
4. Kate Nelson. "The History of Fashion Journalism" Best Publisher, 2011
5. Malcolm Barnard. "Fashion Theory: An Introduction" PHI Publisher, Delhi, 2012.

WEB RESOURCE:

1. <https://www.youtube.com/watch?v=Y9JhW1sN1SU>
2. <https://www.youtube.com/watch?v=I4oekPDLbck>
3. <https://www.youtube.com/watch?v=sjDQUaTpVsk>
4. <https://www.youtube.com/watch?v=qxl6TkGwgnE>
5. <https://www.youtube.com/watch?v=b4HBIqfyA4>
6. <https://www.youtube.com/watch?v=zFMI96PSlgI>
7. <https://www.youtube.com/watch?v=vp4f8CKr-dc>
8. <https://www.youtube.com/watch?v=fxzP13LjLzA>
9. <https://www.youtube.com/watch?v=nfHWqZMRGk>
10. <https://www.youtube.com/watch?v=qV9LoeRZCA>

BUSINESS ENVIRONMENT

Semester: III

Hours: 2

Code : 23CC3GE01

Credit: 2

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Acquire the basic knowledge of business environment	PSO-1	K1
CO - 2	Understand the concept of economic Environment	PSO-2	K2
CO - 3	Learn the fundamentals of financial Environment	PSO-3	K3
CO - 4	Comprehend the knowledge about political Environment	PSO-5	K4
CO - 5	Acquire the knowledge on Natural Environment	PSO-4	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: III		BUSINESS ENVIRONMENT #										Hours: 2
Code : 23CC3GE01												Credit: 2
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	3	3	4	3	3	5	3	3	3	4	3.55
CO - 2	3	3	5	4	5	3	3	5	3	3	4	3.64
CO - 3	3	5	3	3	3	3	3	3	5	3	3	3.36
CO - 4	3	3	3	5	3	3	3	3	3	3	5	3.36
CO - 5	3	4	3	3	3	5	3	3	4	5	3	3.55
Overall Mean Score												3.49

Result: The score for this course is **3.49** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Business - Meaning features Business environment - Meaning, Nature and significance. Micro and Macro environment of Business, Business strategy and its relation to environment. **(6 Hours)**

UNIT II

Economic environment - Meaning, economic development, types of economic system and role of business economist. Demographic environment - Meaning, Demographic variables, and population growth - Caused remedies and suggestions of family planning. **(6 Hours)**

UNIT III

Financial environment - Meaning, classification of financial market, role of central, commercial & Co-operative banks. Technological environment - Meaning, factors Technological development and technological progress. **(6 Hours)**

UNIT IV

Political environment - meaning, effect of political ideologies and political system. Socio - cultural environment - meaning of culture and society, cultural environment, features and elements of culture. **(6 Hours)**

UNIT V

Natural environment - Meaning, various aspects of natural environment, Resources - land, soil and water resources. Pollution - Benefits and barrier to pollution prevention legal environment - Meaning, Indian contribution and partnership at 1932. **(6 Hours)**

COURSE BOOK:

- ❖ Dr. N. Premavathy, Business Environment, Sri Vishnu Publications, Chennai, 2008.

BOOKS FOR REFERENCE:

1. Dr. Namita Gopal-Business Environment, Tata McGraw-Hill Publishing company Ltd, New Delhi, 2009.
2. Dr. Swabera Islam & Dr. Evakorlang Kharkongor -Business environment, Taxmann Publications Pvt.ltd. New Delhi.
3. Paul Weterly and Dorron otter-Business environment, Oxford University Press, New York, 2008

PART IV - NATIONAL CADET CORPS

PO. NO.	UPON COMPLETION OF THIS PROGRAMME THE STUDENTS WILL BE ABLE TO
1.	Think critically, evaluate analytically and apply the acquired knowledge of their discipline in related scenario.
2.	Formulate hypothesis, design experiments, use appropriate tools and interpret the results.
3.	Demonstrate the precise understanding of the principles and theories of their discipline through experiments.
4.	Enhance the communicative skills and gain confidence to disseminate knowledge through oral/verbal communications effectively at various situations.
5.	Identify the different roles in an organizational structure of the work place and carry out multiple roles in social responsibilities.
6.	Increase self-awareness, set and pursue meaningful goals, and develop positive personal qualities.

PROGRAMME SPECIFIC OUTCOMES (PSO)

PSO. NO.	UPON COMPLETION OF THE COURSE THE STUDENTS WILL BE ABLE TO	PO MAPPED
1	Reinforce the aims, motto, vision and mission of the NCC through the academic curriculum.	PO-1, PO-3
2	Train the students, to be graduates with all round development, who apart from their own subject, can successfully compete in other fields such as defense/paramilitary/ police forces and civil services.	PO-1, PO-4
3	Perform in social service activities and creating awareness about social evils in society.	PO-1, PO-5, PO-6.
4	Explain the tri services organization, comprising the army, navy and air force, engaged in grooming the youth of the country into disciplined and patriotic citizens.	PO-2, PO-6
5	Demonstrate “B” and “C” certificate examination of NCC helps in getting jobs in different forces and also security related jobs.	PO-2, PO-5, PO-6

GE - 1: NATIONAL INTEGRATION AND PERSONALITY DEVELOPMENT

Semester: III

Hours: 2

Code : 23GE3NC01

Credit: 2

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Develop technical skill in Civil defense and self-defense in order to safeguard the society in case of need arises	PSO - 1, PSO - 2, PSO - 4	K1
CO - 2	Perceive the importance of Weapon training is to remove the fear of a weapon from the hearts of youth.	PSO - 1, PSO - 4	K2
CO - 3	Comprehend the motivation for positive attitude, character building and personality development.	PSO - 2, PSO - 3, PSO 4, PSO - 5	K3
CO - 4	Analyze the different types of disasters under different circumstances.	PSO - 4, PSO - 5	K4
CO - 5	Achieve practical knowledge in community development and other social programmes.	PSO - 1, PSO - 2	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: III				GE-1: NATIONAL INTEGRATION AND PERSONALITY DEVELOPMENT								Hours: 2
Code : 23GE3NC01												Credit: 2
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	3	3	2	2	4	5	4	3	3	5	3.55
CO - 2	5	4	4	2	3	4	5	4	4	4	5	4.00
CO - 3	5	5	4	2	2	3	3	5	3	3	4	4.00
CO - 4	5	4	3	2	2	4	4	5	4	4	5	3.82
CO - 5	5	4	4	2	3	3	5	4	2	5	4	3.73
Overall Mean Score												3.82

Result: The Score for this Course is **3.82** (High Relationship)

Note:

Mapping	1 - 20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of Cos = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for Cos = $\frac{\text{Total of Mean Scores}}{\text{Total No. of Cos}}$
--	--

GE-1: NATIONAL INTEGRATION AND PERSONALITY DEVELOPMENT

2hrs/Week

UNIT I

National Integration

6 Hours

Motto of National Integration - Importance of National Integration Culture and heritage of Tamil Nadu.

UNIT II

Civil Affairs

6 Hours

Aim of aid to civil authority - Role of NCC Cadets during natural calamities - Types of disaster - Essential services during natural calamities

UNIT III

Civil Defence and Self Defence

6 Hours

Civil Defence - Organization - Aims and services- Aid to Civil authorities in emergency- Self Defence -Aims of Self Defence - Women and Self Defence

UNI IV

Leadership And Personality Development

6 Hours

Leadership - Types and traits - Man Management in NCC - Duties of a Good Citizen - Role of Youth in Nation Building - Morale - Factors which affect morale - Factors which develop high morale Personality Development - Factor influencing Personality-Time Management .

UNIT V

Soft Skills

6 Hours

Soft skills - interview skill - influencing skill - social skill - communication skill - self motivation - self-esteem - body language.

INTERNAL QUESTION PATTERN (Fully Internal Papers) - UG (2023-2026)**Max. Marks - 40****Duration - 1 $\frac{1}{2}$ Hours**

Section	Bloom's level	Course Outcome	Questions
A MCQs (10×1=10)	K1	CO1	1.
		CO1	2.
		CO1	3.
		CO1	4.
		CO1	5.
		CO1	6.
		CO1	7.
		CO1	8.
		CO1	9.
		CO1	10.
B Answer all the Questions (2×5=10)	K2	CO2	11. a) (or) 11. b)
	K3	CO3	12. a) (or) 12. b)
	K4	CO4	13. a) (or) 13. b)
	K5	CO5	14. a) (or) 14. b)

CONTINUOUS INTERNAL ASSESSMENT COMPONENT (CIA) - 2023-2026

Component	Marks
Internal test I	40
Internal test II	40
Seminar/Assignment	10
Quiz	5
Attendance	5
Total	100

AEC-3 ENVIRONMENTAL STUDIES

Semester: III

Hours: 2

Code : 23AE3ES03

Credit: 2

PROGRAMME OUTCOMES

PO. NO.	UPON COMPLETION OF THIS PROGRAMME THE STUDENTS WILL BE ABLE TO
1.	Endow with in-depth knowledge, analyze and apply the understanding of their discipline for the betterment of self and society
2.	Synthesize ideas from various disciplines, enhance the interdisciplinary knowledge and extend it for research
3.	Gain confidence and skills to communicate orally/ verbally in research platforms and state a clear research finding
4.	Develop problem-solving and computational skills and gain confidence to appear for the competitive examinations
5.	Enhance knowledge regarding research by accumulating practical knowledge in specific areas of research
6.	Achieve idealistic goals and enrich the values to tackle the societal challenges

PROGRAMME SPECIFIC OUTCOMES

PSO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PO MAPPED
1.	Assess the scope and importance of environmental studies and the need for public awareness	PO-1
2.	Develop a deeper understanding in the classification of resources	PO - 2
3.	Analyze the concept of the ecosystem	PO-3
4.	Comprehend the definitions, causes and control measures of environmental pollutions	PO-4
5.	Participate in the environmental issues programmes from the unsustainable to sustainable development	PO - 5, PO-6

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Understand natural resources, ecosystems, environmental pollution and social issues	PSO-1	K1
CO - 2	Explain different types of natural resources, pollution, ecosystem and social issues	PSO-2	K2
CO - 3	Demonstrate the identification, utilization, ecosystems and the impact of environmental pollution on both the natural world and human communities and the conservation of natural resources	PSO-3	K3
CO - 4	Analyse social issues related to environmental sustainability	PSO-4	K4
CO - 5	Examine societal concerns within and surrounding the Theni District	PSO-5	K5

**RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES
AND PROGRAMME SPECIFIC OUTCOMES**

Semester: III		AEC-3ENVIRONMENTAL STUDIES										Hours: 2
Code : 23AE3ES03												Credit: 2
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	3	3	3	3	3	5	3	3	3	3	3.36
CO - 2	3	5	4	4	3	3	3	5	4	4	3	3.73
CO - 3	3	3	5	3	4	4	3	3	5	3	4	3.64
CO - 4	3	3	3	5	4	4	3	3	3	5	4	3.64
CO - 5	3	3	3	4	5	5	3	3	3	4	5	3.73
Overall Mean Score												3.62

Result: The score for this course is **3.62** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I: NATURAL RESOURCES

Multidisciplinary nature of environmental studies: Definition, scope and importance - need for public awareness - classification of resources: renewable and non - renewable resources - forest resources, water resources, mineral resources, food resources, energy resources, land resources - associated problems; role of an individual in conservation of natural resources - equitable use of sources for sustainable lifestyles.

(6 Hours)

UNIT II: ECOSYSTEMS

Concept, structure and function of an ecosystem - energy flow in the ecosystem - food chains, food webs and ecological pyramids - Types, characteristic features, structure and function of Forest, grassland, desert and aquatic ecosystems.

(6 Hours)

UNIT III: ENVIRONMENTAL POLLUTION

Definition - causes - effects and control measures of air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution, nuclear hazards, solid waste management, the role of an individual in prevention of pollution.

(6 Hours)

UNIT IV: SOCIAL ISSUES AND THE ENVIRONMENTS

From unsustainable to sustainable development - urban problems related to energy water conservation, rainwater harvesting, watershed management, resettlement and rehabilitation of people, its problem and concerns, case studies, environmental ethics, climate change, global warming, acid rain and ozone layer depletion, nuclear accidents and holocaust, case studies. wasteland reclamation. environmental protection act, air act, water act and wildlife protection.

(6 Hours)

UNIT V: BIODIVERSITY IN THENI DISTRICT

Water resources, climate and soil types - Ecosystems: flora and fauna, the impact of human activities on the ecosystem - environmental pollution: identification of pollution sources and pollution control measures.

(6 Hours)

FIELDWORK

Visit to Kodaikanal for documentation of environmental assets- river/forest/ grassland/hill/mountain/cholas.

(6 Hours)

COURSE BOOK:

- ❖ Murugesan, R., (2007). Environmental Science and Engineering, Milleniumpublication, Madurai.

UNIT I : Section - 1.3 to 1.37

UNIT II : Section - 2.1 to 2.7 & 2.10 to 2.27

UNIT III : Section - 3.1 to 3.37

UNIT IV : Section - 4.1 to 4.17

UNIT V :

https://en.wikipedia.org/wiki/Theni_district

[https://nwm.gov.in/sites/default/files/Notes%20on%20The
ni%20District .pdf](https://nwm.gov.in/sites/default/files/Notes%20on%20The%20District.pdf)

<https://tnmines.tn.gov.in/pdf/dsr/23.pdf>

Note:

- (i) Tamil Version for Tamil Literature and History Tamil Medium Students
(ii) UNIT-V materials prepared by Staff

Continuous Internal Assessment Component (CIA)**Theory:**

Component	Marks
Internal test I	40
Internal test II	40
Field Visit	10
Field Visit Report	5
Attendance	5
Total	100

Continuous Internal Assessment Component (CIA)**Passing Minimum: 40% out of 100****Internal Question Pattern****Part - A**

10 Questions × 1Mark =10 Marks

Part - B

2 Questions × 5 Marks = 10 Marks (Internal Choice)

Part - C

2 Questions × 10 Marks = 20 Marks (2 Questions out of 3)

(Open Choice and at least one Question from

பொதுத் தமிழ் - 4
(பிற துறை மாணவிகளுக்கு மட்டும்)

பருவம்: நான்கு

நேரம்: 6

குறியீடு: 23GT4GS04

புள்ளி: 3

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	சங்க இலக்கியத்தில் காணப் பெறும் வாழ்வியல் சிந்தனைகளை அறிந்து கொள்வர்.	PSO-2	K1
CO - 2	தமிழின் தொன்மையையும் செம்மொழித் தகுதியையும் அறிவர்.	PSO-1	K2
CO - 3	நாடக இலக்கியம் மூலம் நடிப்பாற்றலையும், கலைத் தன்மையையும், படைப்பாற்றலையும் வளர்த்தல்.	PSO-3	K3
CO - 4	தமிழிலிருந்து அலுவலகக் கடிதங்களை மொழிபெயர்க்கும் அறிவைப் பெறுவர்.	PSO-4	K4
CO - 5	மொழியறிவோடு வேலை வாய்ப்பினைப் பெறுதல்.	PSO-5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: IV		பொதுத்தமிழ் - 4 (பிற துறை மாணவிகளுக்கு மட்டும்)										Hours: 6
Code : 23GT4GS04												Credit: 3
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	4	3	3	4	5	5	3	5	3	4	4	3.91
CO - 2	4	5	3	3	3	3	5	3	3	4	3	3.55
CO - 3	3	3	5	4	4	4	3	4	5	3	4	3.82
CO - 4	5	3	3	3	4	4	3	4	3	5	3	3.64
CO - 5	3	3	3	5	4	4	3	4	3	3	5	3.64
Overall Mean Score												3.71

Result: The score for this course is **3.71** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

அலகு 1: எட்டுத் தொகை

நற்றிணை - (10, 14, 16), குறுந்தொகை - (16, 17, 19, 20, 25, 29), கலித்தொகை - (38, 51), அகநானூறு - (15, 33, 55), புறநானூறு - (37, 86, 112), பரிபாடல் - வையை, இருபத்திரண்டாம் பாடல், ஒளிறுவாள் பொருப்பன் உடல் சமத் திறுத்த) **18 Hours**

அலகு 2: பத்துப் பாட்டு

நெடுநல்வாடை - நக்கீரர் **18 Hours**

அலகு 3: நாடகம்

சபாபதி - பம்மல் சம்பந்த முதலியார் **18 Hours**

அலகு 4: இலக்கிய வரலாறு

பாடம் தழுவிய இலக்கிய வரலாறு **18 Hours**

அலகு 5: மொழித்திறன்

மொழிபெயர்ப்பு / கலைச்சொற்கள்

கொடுக்கப்பட்டுள்ள ஆங்கிலப் பகுதியைத் தமிழில் மொழிபெயர்த்தல்.

அலுவலகக் கடிதம் - தமிழில் மொழிபெயர்த்தல்.

18 Hours

பாட நூல்கள்

1. தமிழ்த்துறை வெளியீடு (தொகுப்பு), - பொதுத்தமிழ் - 4, ஜெயராஜ் அன்னபாக்கியம்
மகளிர் கல்லூரி (தன்னாட்சி), பெரியகுளம்.
2. சங்க இலக்கியம், எட்டுத்தொகை, - எம். நாராயண வேலுப்பிள்ளை,
நர்மதா பதிப்பகம், முதற்பதிப்பு -2011.
3. பத்துப் பாட்டு, மூலமும் உரையும், - திருநெல்வேலி தென்னிந்திய சைவ சிந்தாந்த
நூற்பதிப்புக் கழகம், சென்னை 18,
முதற்பதிப்பு - 2007.
4. பம்மல் சம்பந்த முதலியார் அவர்களின் சபாபதி நாடகம்,
அருட்பெருஞ்சோதி அச்சகம், சென்னை -1.
5. சிற்பி. பாலசுப்பிரமணியன். - தமிழ் இலக்கிய வரலாறு,

பார்வை நூல்கள்

1. புதிய நோக்கில் தமிழ் இலக்கிய வரலாறு, தமிழண்ணல்.
2. வகைமை நோக்கில் தமிழ் இலக்கிய வரலாறு, எ.பி. பாக்கியமேரி.

General Essay, Translation and Letter Writing, Alankar

Semester: IV

Hours: 5

Code : 23GH4GS04

Credit: 3

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Learn the Development of Hindi Translation	PSO-1	K1
CO - 2	Learning to be United Across Religions.	PSO-4	K2
CO - 3	Improve Personal and Official letter writing skills.	PSO-2	K3
CO - 4	Analytical Creativity will be Developed.	PSO-3	K4
CO - 5	Ability to Beautiful words with Syllables and Phrases.	PSO-5	K5

UNIT I **(15 Hours)**

- ❖ Anushashan
- ❖ Anuvad Abyas - III (1-2 Lessons) English to Hindi, Hindi to English
- ❖ Avedan Patra

UNIT II **(15 Hours)**

- ❖ Pariksham Ka Mahatva
- ❖ Anuvad Abyas - III (3-4 Lessons) English to Hindi, Hindi to English
- ❖ Sampathak ke naam Patra

UNIT III **(15 Hours)**

- ❖ Paropakar
- ❖ Anuvad Abyas - III (5 Lessons) English to Hindi, Hindi to English
- ❖ Ras Short Notes -(Shringar, Hasya, Veer, Karun, Raudra)

UNIT IV **(15 Hours)**

- ❖ Bhavaathmak Ekta
- ❖ Paarivarik Patra
- ❖ Chand Short Notes - (Doha, Sorta, Geethika, Rola, Hari Geethika)

UNIT V **(15 Hours)**

- ❖ Nari Ka Karthavya Aur Adhikaar
- ❖ Thuranth Patra
- ❖ Alankar -(Anupras, Yamak, Vakrokthi, Upama, Virodabhas)

COURSE BOOKS:

1. Nibandh Pravesika, Dakshina Bhaaritha Hindi Prachar Sabha, T. Nagar, Chennai-600017.

The following Sahityotar (General) essay have been prescribed

- ❖ Anushashan
 - ❖ Pariksham Ka Mahatva
 - ❖ Paropkar
 - ❖ Bhavathmak Ekta
 - ❖ Nari Ka Karthavya Aur Adhikaar
2. Translation: Anuvad Abyas -III(1-5 Lessons) English to Hindi, Hindi to English
Published by Dakshina Bharath Hindi Prachar Sabha, Thyagaraya Nagar, Chennai - 600017.
3. Alankar: Kavya Shashthra Published by Dakshina Bharath Hindi Prachar Sabha,
Thyagaraya Nagar, Chennai - 600 017.

The following Alankar have been prescribed

- ❖ Ras- Short Notes -(Shringar, Hasya, Veer, Karun, Raudra
- ❖ Alankar -(Anupras, Yamak, Vakrokthi, Upama, Virodabhas)
- ❖ Chand Short Notes - (Doha, Sorta, Geethika, Rola, Hari Geethika

BOOKS FOR REFERENCE:

1. Letter Writing: Pramanik Alekan Aur Tippan Prof Viraj M.A. Kashmirgate, Delhi - 110006

The following topics have been prescribed

- ❖ Paarivarik Patra
- ❖ Avedan Patra
- ❖ Sampathak ke naam Patra
- ❖ Thuranth Patra

COMMUNICATIVE ENGLISH - IV

Semester: IV

Hours: 4

Code : 23GE4GS04

Credit: 3

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Recognize the literary genres through various literary works	PSO-5	K1
CO - 2	Compare the social norms of other cultures	PSO-3	K2
CO - 3	Apply the language skills through literature	PSO-2	K3
CO - 4	Connect the ideas provided in the text	PSO-4	K4
CO - 5	Prioritize their communication skills along with literature	PSO-1	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: IV				COMMUNICATIVE ENGLISH - IV								Hours: 4
Code : 23GE4GS04												Credit: 3
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	4	5	4	4	4	5	4	4	4	4	5	4.27
CO - 2	3	3	5	4	3	3	3	4	5	3	3	3.55
CO - 3	4	3	3	5	3	3	4	5	3	3	3	3.55
CO - 4	4	4	3	4	5	4	4	4	3	5	4	4.00
CO - 5	5	4	4	4	3	4	5	4	4	3	4	4.00
Overall Mean Score												3.87

Result: The score for this course is **3.87** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I: POETRY**12 Hours**

- Dahlia Ravikovitch - "Pride"
Maya Angelou - "Phenomenal Woman"
William Wordsworth - "The Tables Turned"

UNIT II: LIFE STORY**12 Hours**

- Adeline Yen Mah - From *Chinese Cinderella*
George Orwell - "Why I Write"

UNIT III: SHORT STORY**12 Hours**

- O Henry - "A Retrieved Reformation"

Extract from a play

The Quality of Mercy (Trial Scene from *The Merchant of Venice* -
Shakespeare: Act IV- Scene 1-(1 to 163 lines)

UNIT IV: GRAMMAR**12 Hours**

Types of Sentences
Question Tags

UNIT V: DRAFTING**12 Hours**

Reading Comprehension
Book Review
Product Review
Resume Writing

COURSE BOOKS

- ❖ Course Materials will be provided by the Department of English.
- ❖ Savarimuttu, Rohan J. S, and G. Petricia Alphine Nirmala, *English Grammar and Usage - An Ideal Companion for Advanced Learners*. New Century Book House (P) Ltd, 2016.

BOOKS FOR REFERENCE

1. Orwell, George. *Why I Write*. Gangrel-GB, London, 1946.
2. Green, David. *Contemporary English Grammar: Structures and Composition*. Macmillan India Limited, Chennai, 1981.
3. Shakespeare, William. *The Merchant of Venice*, Peacock. 2014.

WEB SOURCES:

1. <https://www.google.co.in/books/edition/Chinese-Cinderella-and-the-Secret-Drag/on/JUqCzR5GTdQC?hl=en&gbpv=1&pg=PT3&printsec=frontcover>
2. <https://orwell.ru/library/essays/wiw/english/e-wiw>
3. [https://srjcstaff.santarosa.edu/~mheydon/whywriteD.pdf\(correct](https://srjcstaff.santarosa.edu/~mheydon/whywriteD.pdf(correct)
4. <http://www.blupete.com/Literature/Essays/Hazlitt/RoundTable/LoveLife.htm>
5. <https://www.poetryinternational.com/en/poets-poems/poems/poem/103-3359-PRIDE>

CORPORATE ACCOUNTING - II

Semester: IV

Hours: 5

Code : 23CC4MC07

Credit: 5

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO-1	Grasp and Understand the basic concepts of corporate accounting	PSO - 1	K1
CO-2	Talk over the various process of corporate accounting	PSO - 2	K2
CO-3	Apply and relate the accounting principles and standards to prepare the final statement	PSO - 3	K3
CO-4	Analyze and explore the corporate financial report	PSO - 4	K4
CO-5	Evaluate and assess various methods of amalgamation, alteration of share capital, bank accounts, financial statements and liquidation	PSO - 5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: IV				CORPORATE ACCOUNTING - II								Hours: 5
Code : 23CC4MC07												Credit: 5
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	3	4	4	4	3	5	4	3	3	4	3.82
CO - 2	3	3	5	3	5	3	3	5	3	3	3	3.55
CO - 3	3	5	3	3	3	4	3	3	5	4	3	3.55
CO - 4	4	3	3	3	3	5	4	3	3	5	3	3.55
CO - 5	4	3	3	5	3	4	4	3	3	4	5	3.73
Overall Mean Score												3.64

Result: The score for this course is **3.64** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Amalgamation, Absorption and External Reconstruction -Purchase Consideration- Lump sum Method, Net assets method, Net payment method, Intrinsic value method- - Types of amalgamation (Excluding inter-company holdings). **(15 Hours)**

UNIT II

Alteration of Share Capital-Modes of Alteration- Internal Reconstruction - Conversion of stock -Increase and decrease of capital - Reserve liability. **(15 Hours)**

UNIT III

Final statements of banking companies (As per New provisions) - non performing assets- rebate on bills discounted - profit and loss A/C -Balance Sheet as per Banking Regulation Act 1949. **(15 Hours)**

UNIT IV

Introduction-Holding & Subsidiary Company-Legal requirements relating to presentation of accounts-Preparation of Consolidated Balance Sheet (Excluding inter-company holdings). **(15 Hours)**

UNIT V

Meaning -Modes of Winding up -Preparation of statement of Affairs and Deficiency Accounts-order of payment -Liquidators Remuneration -liquidators Final Statement of Accounts. (Simple Problems Only) **(15 Hours)**

COURSE BOOKS:

1. S.P.Jain and K.L Narang, Advanced Accountancy, Kalyani Publishers, New Delhi, 2017.
2. T.S.Reddy and A.Murthy, Corporate Accounting Margham Publishers, Chennai, 2017.
3. R.L.Gupta and M.Radhaswamy, Advanced Accounts, Sultan Chand, New Delhi, 2014.
4. M.C. Shukla and T.S.Grewal, Advanced Accounts Vol.II, S Chand & Sons, New Delhi, 2016.

BOOKS FOR REFERENCE:

1. B. Raman, Corporate Accounting, Taxmann publication, Kolhapur, 2018.
2. M.C.Shukla, Advanced Accounting, S.Chand Publication, Chennai, 2007.
3. Prof.Mukesh Bramhbutt, Devi Ahilya Publication, Indore, 2019.
4. Anil Kumar, Rajesh Kumar, Advanced Corporate accounting, Himalaya Publishing house New Delhi, 2015.
5. Prasanth Athma, Corporate Accounting, Himalaya Publishing House, Chennai, 2015.

WEB RESOURCES:

1. <https://www.accountingnotes.net/amalgamation/amalgamation-absorption-and-reconstruction-accounting/126>
2. <https://www.slideshare.net/debchat123/accounts-of-banking-companies>
3. <https://www.accountingnotes.net/liquidation/liquidation-of-companies-accounting/12862>

Note: Part A- MCQ, Part B -Theory, Part C & Part D- Only Problems

BUSINESS MATHEMATICS & STATISTICS

Semester: IV

Hours: 4

Code : 23CC4MC08

Credit: 4

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Grasp the Knowledge on the basis of ratio, interest and annuity, measures of Central tendency, correlation and time series analyze	PSO - 1	K1
CO - 2	Connect the concept of Business mathematics and statistics in applying those concepts in Business practices.	PSO - 3	K2
CO - 3	Relate the principles and techniques for mathematical and statistical inferences	PSO - 2	K3
CO - 4	Examine the data of business mathematics and statistical tools	PSO - 4	K4
CO - 5	Apply and Access the problems on ratio, interest, measures of Central tendency, Regressions and time series.	PSO - 5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: IV		BUSINESS MATHEMATICS & STATISTICS										Hours: 4
Code : 23CC4MC08												Credit: 4
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	4	3	3	3	4	5	3	4	4	3	3.73
CO - 2	4	5	3	3	3	3	4	3	5	3	3	3.55
CO - 3	3	3	5	4	5	3	3	5	3	3	4	3.73
CO - 4	3	4	3	4	3	5	3	3	4	5	4	3.73
CO - 5	3	4	3	5	3	3	3	3	4	3	5	3.55
Overall Mean Score												3.65

Result: The score for this course is **3.65** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%		61 - 80%	81 - 100%
Scale	1	2	3		4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0		3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate		High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Ratio, Proportion and Variations, Indices and Logarithms. **(12 Hours)**

UNIT II

Banker's Discount - Simple and Compound Interest - Arithmetic, Geometric and Harmonic Progressions. Annuity - Meaning - Types of Annuity Applications.

(12 Hours)

UNIT III

Arithmetic Mean, Geometric Mean - Harmonic Mean - Mode and Median - Quartiles - Deciles - Percentiles. Measures of Variation - Range - Quartile Deviation and Mean Deviation - Variance and Standard Deviation & Co-efficient.

(12 Hours)

UNIT IV

Correlation - Karl Pearson's Coefficient of Correlation - Spearman's Rank Correlation - Regression Lines and Coefficients.

(12 Hours)

UNIT V

Time Series Analysis: Secular Trend - Seasonal Variation - Cyclical variations - Index Numbers - Aggregative and Relative Index - Chain and Fixed Index -Wholesale Index - Cost of Living Index.

(12 Hours)

COURSE BOOKS:

1. Dr. B.N. Gupta, Business Mathematics & Statistics, Shashi Bhawan Publishing House, Chennai, 2021.
2. Asim Kumar Manna, Business Mathematics & Statistics, McGraw Hill Education, Noida, 2018.

BOOKS FOR REFERENCE:

1. J.K. Sharma, Fundamentals of Business Statistics, Vikas Publishing, Noida, 2014.
2. Peter Waxman, Business Mathematics & Statistics, Prentice Hall, New York, 2011.
3. Andre Francis, Business Mathematics & Statistics, Cengage Learning EMEA, 2010.

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/>

JAVA PROGRAMMING - LAB

Semester: IV

Hours: 5

Code : 23CC4AP4A

Credit: 4

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Know the Importance of Java comparing the other language.	PSO - 1	K1
CO - 2	Develop program using constructors and its types.	PSO - 3	K2
CO - 3	Implementing the concept Exception handling various application.	PSO - 2	K3
CO - 4	Analyzing different types of inheritance.	PSO - 4	K4
CO - 5	Life Build Applet code using AWT controls and Layout managers	PSO - 5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: IV		JAVA PROGRAMMING- LAB										Hours: 5
Code : 23CC4AP4A												Credit: 4
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	4	3	3	3	3	5	3	4	3	3	3.55
CO - 2	4	5	3	3	3	4	4	3	5	4	3	3.73
CO - 3	4	3	5	3	5	3	4	5	3	3	3	3.73
CO - 4	3	4	3	3	3	5	3	3	4	5	3	3.55
CO - 5	3	3	4	5	4	3	3	4	3	3	5	3.64
Overall Mean Score												3.64

Result: The score for this course is **3.64** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Introduction to Java - Features of Java - Java Environment - Lexical Issues or tokens-
Data Types - Variables - Arrays - Operators - Conditional Statements-Iterative
Statements-General Structure of a Java Program **(15 Hours)**

UNIT II

Classes and Objects - Fields and Methods Declaration -Constructors - Method
Overloading - Static keyword - Final keyword -String Class - String Buffer Class.
Java Utilities: Scanner, Stack, Date, Vector, Enumeration. Inheritance: Keyword
extends-Types of Inheritance-Keyword super- Overriding of methods Abstract class
and methods **(15 Hours)**

UNIT III

User-Defined Packages: Creating and accessing Packages. Interface: Defining
Interface-Keyword implements -Multiple Inheritance using Interface. Threads:
Introduction- Thread States or life cycle of thread Creation of threads using Thread
class and Runnable interface -Thread methods -Thread Priorities -Thread
Synchronization. **(15 Hours)**

UNIT IV

Exception Handling: Types of errors - Syntax of Exception handling code - Built-in
Exceptions - Multiple catch statements - Nested try block - Finally statement-
Throwing our own exception using throw - Method throwing exception using throws
keyword - Managing Errors. **(15 Hours)**

UNIT V

Applets: Difference between applet and application -Applet life cycle - Building
Applet code using Applet tag - Passing parameters to Applets Drawing various
shapes using Graphics Class. AWT Controls: Buttons, Labels, Text Field, Text Area,
Choice, Check Box, List, Scroll Bar and Layout Managers. **(15 Hours)**

LIST OF PRACTICALS:

1. Write a java program to print the sum (addition), multiply, subtract, divide and remainder of two numbers.
2. Write a java program to swap two variables.
3. Write a java program to compare two numbers.
4. Write a java program to count letters, spaces, numbers and other characters in an input string.
5. Write a java program to create an enum called "Days of week "representing the day of the week.
6. Write a java program to display the pattern like a right angle triangle with a number.
7. Write a java program to create a class called "rectangle "width and height attributes calculate the area and perimeter of the rectangle.
8. Write a java program that throws an exception and catch it using a try -catch block.
9. Write a java program to sum values of an array.
10. Write a java program to remove duplicates elements from an array.
11. Write a java program to get the character at the given index within the string.
12. Write a java program to create a date object using the calendar class.
13. Write a java program to get the current date and time.
14. Write a java program to find a specified element in a given array of element in a given of elements using binary search.
15. Develop an application that uses GUI components, Font and Colors.
16. Write an application that draws basic graphical primitives on the screen.

COURSE BOOKS:

1. E. Balagurusamy, "Programming with Java", Tata McGraw-Hill, Fourth Edition, New Delhi, 2010,
2. P Radha Krishna, "Object Oriented Programming through Java", Universities Press Second Edition, 2007.

BOOKS FOR REFERENCE:

1. K. Arnold and J. Gosling, "The Java Programming Language", Addison Wesley, Second Edition, Boston, 1996,
2. P. Naughton and H. Schildt, "Java2 (The Complete Reference)", Tata McGraw Hill, Eight Edition, New Delhi, 2005,
3. John R Hubbard, Programming with Java - Schaum's Outline Series
4. Kathy Sierra and Bert Bates, "Head First Java", Oreilly, Second Edition, 2003.

NOTE: Latest Edition of Textbooks May be Used

WEB RESOURCES:

1. www.w3resource.com.
2. <https://www.javatpoint.com/java>
3. www.tutorialspoint.com/java/java-quick-guide.htm
4. www.ntu.edu.sg/home/ehchua/programming/java/J3a_OOPBasics.html
5. www.tutorialspoint.com/java/java_overview.htm

COMPUTER NETWORKS - LAB

Semester: IV

Hours: 5

Code : 23CC4AP4B

Credits: 4

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Understand the basic taxonomy and terminology of the computer networking and enumerate the layers of OSI model	PSO - 1	K1
CO - 2	Acquire knowledge of physical layer	PSO - 3	K2
CO - 3	Apply the data link layer in Networks	PSO - 2	K3
CO - 4	Analyzing the network layer and design issues.	PSO-4	K4
CO - 5	Imply the concepts of transport layer and transport protocol	PSO - 5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: IV				COMPUTER NETWORKS -LAB								Hours: 5
Code :23CC4AP4B												Credit: 4
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	4	3	3	3	4	5	3	4	4	3	3.73
CO - 2	4	5	3	3	3	4	4	3	5	4	3	3.73
CO - 3	4	3	5	3	5	3	4	5	3	3	3	3.73
CO - 4	3	5	3	3	3	5	3	3	3	5	3	3.55
CO - 5	3	3	4	5	4	3	3	4	3	3	5	3.64
Overall Mean Score												3.67

Result: The score for this course is **3.67** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs= $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	---

UNIT I

Introduction - Uses of Computer Networks - Network Hardware- Network Software
OSI Reference Model - TCP/IP Reference Model **(15 Hours)**

UNIT II

Physical Layer - Guided Transmission media - Wireless Transmission - Public
switched Telephone Network -Local Loop - Trunks - Multiplexing- Switching
(15 Hours)

UNIT III

Data Link Layer - Design Issues- Error Detection and Correction- Simplex Stop and
Wait Protocol- Sliding Window Protocol. **(15 Hours)**

UNIT IV

Network Layer - Design Issues - Routing Algorithm- IP Protocol - IP Addresses
Internet Control Protocols **(15 Hours)**

UNIT V

Transport Layer: Addressing- Connection Establishment-Connection Release.
Internet Transport Protocol: UDP-TCP. Application Layer: DNS- Electronic Mail-
World Wide Web **(15 Hours)**

LIST OF PRACTICALS:

1. Explore guided transmission media (e.g., twisted pair, fiber optic).
2. Study wireless transmission technologies.
3. Simulate switching scenarios
4. Implement error detection and correction algorithms
5. Implement and analyze the Simplex Stop and Wait Protocol.
6. Implement and simulate the Sliding Window Protocol.
7. Implement and compare different routing algorithms.
8. Configure IP addresses and study the IP protocol.
9. Implement and compare UDP and TCP protocols.

COURSE BOOKS:

1. Andrew S. Tanenbaum, "Computer Networks", Fourth Edition, PHI, New Delhi, 2008
2. Behrouz and Forouzan, "Data Communication and Networking", Third Edition, 2006, TMH
3. Tanenbaum, A. S. Computer Networks. Pearson Education, New Delhi, 2004

BOOKS FOR REFERENCE:

1. Couch Digital and Analog communication systems, MacMillan publishing Co, Noida, 1990.
2. William Stallings , Data and Computer Communications, MacMillan Publishing Co, second edition, Noida, 1989
3. Prokis, J.Q, Digital Communications, Mcgraw Hill, Noida, 1983

NOTE: Latest Edition of Textbooks May be Used

WEB RESOURCES

1. <http://ceit.aut.ac.ir/~91131079/SE2/SE2%20Website/Lecture%20Slides.html>
2. https://www.google.co.in/books/edition/Computer_Networks/J_1SAAAAMAAJ?hl=en&gbpv=0&bsq=computer%20networks

MULTIMEDIA - LAB#**Semester: IV****Hours: 3****Code : 23SE4OA4A****Credit: 2****COURSE OUTCOMES:**

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Remember the basics of multimedia, Images, Frame by Frame Animation, Tween, Mask, Text, Sound Effects.	PSO - 1	K1
CO - 2	Understand the concepts of multimedia, Images, Frame by Frame Animation, Tween, Mask, Text, Sound Effects.	PSO - 3	K2
CO - 3	Apply the concepts of multimedia, Images, Frame by Frame Animation, Tween, Mask, Text, Sound Effects.	PSO - 2	K3
CO - 4	Analyze the concepts of multimedia, Images, Frame by Frame Animation, Tween, Mask, Text, Sound Effects.	PSO - 4	K4
CO - 5	Evaluate the concepts of multimedia, Images, Frame by Frame Animation, Tween, Mask, Text, Sound Effects.	PSO - 5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: IV		MULTIMEDIA - LAB#										Hours: 3
Code : 23SE4OA4A												Credit: 2
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO-1	5	4	4	3	4	3	5	4	4	3	3	3.82
CO-2	4	5	3	3	3	4	4	3	5	4	3	3.73
CO-3	4	3	5	3	5	3	4	5	3	3	3	3.73
CO-4	3	4	3	3	3	5	3	3	4	5	3	3.55
CO-5	4	3	3	5	3	3	4	3	3	3	5	3.55
Overall Mean Score												3.67

Result: The Score for this Course is: **3.67** (High Relationship)**Note:**

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

LIST OF EXERCISES

1. Drawing images using tools
2. Frame-by-Frame Animation
3. Motion Tweening
4. Classic Tweening
5. Shape Tweening
6. Shape Tweening with shape hints
7. Multilayer Animation
8. Animation using Layer Mask
9. Animation using Guide Layer
10. Text Animation
11. Animation using buttons and sound effects
12. Short Story Creation

ADVERTISING AND SALESMANSHIP

Semester: IV

Hours: 2

Code : 23CC4GE02

Credit: 2

COURSE OUTCOMES:

CO. NO	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO-1	Explain about advertising functions classification and social economy and ethical issues.	PSO - 1	KI
CO-2	Demonstrate the advertising process buying behavior, advertising plan and advertising copy.	PSO - 2	K2
CO-3	Discuss the advertising media selection decision and evaluating advertising effectiveness.	PSO -5	K3
CO-4	Estimate a brief knowledge about sales promotion importance methods and effectively selling.	PSO - 3	K4
CO-5	Outline the importance of salesmanship, recruitment, motivation and rewarding of sales personal.	PSO - 4	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: IV		ADVERTISING AND SALESMANSHIP #										Hours: 2
Code : 23CC4GE02												Credit: 2
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO-1	5	4	3	3	3	3	5	3	4	3	3	3.55
CO-2	3	4	5	3	5	3	3	5	4	3	3	3.73
CO-3	4	3	4	5	4	3	4	4	3	3	5	3.82
CO-4	3	5	4	3	4	3	3	4	5	3	3	3.64
CO-5	4	3	4	3	4	5	3	4	3	5	3	3.73
Overall Mean Score												3.69

Result: The Score for this course is 3.69 (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Meaning of advertising - Characteristic Features of Advertising - Nature and Scope of Advertising - Benefits or Advantages of Advertising - Criticisms of Advertising - Is Advertising Economic Waste - Difference between Advertising and Salesmanship. **(6 Hours)**

UNIT II

Advertising Media - Indoor and Outdoor Advertising - Advertising agency - Role - Importance. **(6 Hours)**

UNIT III

Personal Selling - Definition - Salesmanship - Definition Features - Objectives - Benefits - Criticisms salesmanship. **(6 Hours)**

UNIT IV

Qualities of a successful salesman: Physical, Mental, Social and Moral Qualities - Other requisites of a Salesman. **(6 Hours)**

UNIT V

Recruitment of Salesman - Sources - Remuneration of Salesman - Methods.

(6 Hours)

COURSE BOOK:

- ❖ P. Saravanel & S. Sumathi, Advertising and Salesmanship, Meenakshi Publications, Chennai, 2020.

BOOKS FOR REFERENCE:

1. Daver, "Salesmanship Advertising", Progressive Publishers, Mumbai, 1980.
2. Mahendra Mohan, "Advertising Management", Mc-Graw Hill Publishing, New Delhi, 1996.
3. R.S.N. Pillai & Bagavathi, "Salesmanship", Sultan Chand Co Ltd, New Delhi, 2009.

GE-2: ORGANIZATION AND HEALTH PROGRAMME IN NCC

Semester: IV

Hours: 2

Code : 23GE4NC02

Credit: 2

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Describe the history, honors and awards of Indian Military.	PSO - 1, PSO - 2, PSO - 4	K1
CO - 2	Explain the map and weapon training to remove the fear of a weapon from the hearts of youth.	PSO - 1, PSO - 4	K2
CO - 3	Illustrate the different types of disasters under different circumstances.	PSO - 2, PSO - 3, PSO 4, PSO - 5	K3
CO - 4	Analyze the practical knowledge in community development and other social programs.	PSO - 4, PSO - 5	K4
CO - 5	Assess the personality development and develop technical skill of first Aid.	PSO - 1, PSO - 2	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: IV		GE-2: ORGANIZATION AND HEALTH PROGRAMME IN NCC										Hours: 2
Code : 23GE4NC02		PROGRAMME IN NCC										Credits: 2
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	4	4	2	2	2	4	5	3	3	5	3.55
CO - 2	4	4	4	2	3	2	4	4	4	4	5	3.64
CO - 3	5	4	3	2	2	3	3	3	5	3	2	3.18
CO - 4	5	5	4	3	2	3	5	5	4	5	3	4.00
CO - 5	4	3	3	3	2	2	4	4	5	5	4	3.55
Overall Mean Score												3.58

Result: The Score for this Course is **3.58** (High Relationship)

Note:

Mapping	1 - 20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of Cos = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for Cos = $\frac{\text{Total of Mean Scores}}{\text{Total No. of Cos}}$
--	--

GE-2: ORGANIZATION AND HEALTH PROGRAMME IN NCC

2hrs/Week

UNIT I: Indian Military and NCC Organization

6 Hours

History of Indian Military - Paramilitary forces -BSF- CRPF and CISF - NCC Organization and History- Aims and Objectives of NCC - Motto of NCC - DG's Four Cardinal Principles of NCC- NCC Song- Ranks in Army, Air force and Navy - Certificate Examination in NCC- Honors and Awards.

UNIT II: Map Reading

6 Hours

Map and its features - kinds of north - Service protractor and Compass-bearing - Conversion of bearings - Conventional signs - Setting of map - Finding own position - Map to ground - Ground to map - Night March chart.

UNIT III: Hygiene and Sanitation

6 Hours

Personal Hygiene - Sanitation - Methods of purification of drinking water -Latrine types - Urinal Types.

UNIT IV: Types Of Disease and Pollution

6 Hours

Define Health - Types of Health - Communicable and Non communicable Disease - Pollution and its type.

UNIT V: First Aid

6 Hours

Aims of First Aid - Principle of First Aid - Motto of First Aid - List of items in First aid Box - Types of Bandages - Types of Fracture -Dislocation - Types of Wounds - Burns and Scalds - Sprain - Strain - Asphyxia - Drowning - Poison - Shock - Snake bite - Sun and Heat Stroke - Insect bite - Dog bite - Hanging - Artificial Respiration - Haemorrhage.

BOOKS FOR REFERENCES:

- ❖ Mishra R.C., A Handbook of NCC, Kanti Prakashan, Etawah, 2000.

ABILITY ENHANCEMENT COURSE-4 (AEC-4)
CAPACITY BUILDING

Semester: IV

Hours: 1

Code : 23AE4CB04

Credit: 1

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Define the importance of capacity building	PSO-1	K1
CO - 2	Develop skills for life-long learning	PSO-2,4	K2
CO - 3	Asses the importance of organizational development	PSO-3	K3
CO - 4	Analyze the need of the community togetherness	PSO-4	K4
CO - 5	Evaluate tech-based learning experiences.	PSO-5	K5

**RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES
AND PROGRAMME SPECIFIC OUTCOMES**

Semester: IV		CAPACITY BUILDING										Hours: 1
Code : 23AE4CB04												Credit: 1
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of COs
	1	2	3	4	5	6	1	2	3	4	5	
CO -1	3	5	3	3	3	3	3	4	5	3	4	3.54
CO - 2	4	5	4	3	3	4	3	4	4	3	5	3.81
CO - 3	4	4	3	3	5	4	3	4	3	3	5	3.72
CO - 4	3	4	3	4	3	4	3	3	5	3	5	3.63
CO - 5	4	4	3	3	4	4	3	4	5	4	5	3.90
Overall Mean Score												3.72

Result: score for this course is **3.72** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs= $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	---

UNIT I

Introduction to Capacity Building (3 Hours)

UNIT II

Skills Development -essential skills-communication-problem solving-life long learning (3 Hours)

UNIT III

Organizational Strengthening-strategic planning-Team Building-Case Studies (3 Hours)

UNIT IV

Community Empowerment- Grassroots Initiatives (3 Hours)

UNIT V

Technology and Innovation-tech enabled learning-Innovation in capacity Building-Future Trends (3 Hours)

BOOKS FOR REFERENCE:

1. Senge, Peter M. *The Fifth Discipline: The Art and Practice of the Learning Organisation*. Doubleday, 1990.
2. Gilley, Jerry W., and Ann Maycunich Gilley. *The Manager as Change Agent: A Practical Guide to Developing High-Performanca People and Organisations*. Jossey-Bass, 1985.
3. Kanter, Rosabeth Moss. *Leadership for Change : Enduring Skills for Change Masters*. Harvard Business Review Press, 2015.

Continuous Internal Assessment Component (CIA)

Component	Marks
Role Play	25
Collage	25
Poster Making	25
Team Activities	20
Attendance	5
Total	100

COST ACCOUNTING- I

Semester: V

Hours: 6

Code : 23CC5MC09

Credit: 5

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Gain comprehension of fundamental principles in Cost Accounting.	PSO - 1	K1
CO - 2	Categorize the methodologies utilized across different cost categories.	PSO - 3	K2
CO - 3	Enhance proficiency in constructing a comprehensive cost sheet.	PSO - 2	K3
CO - 4	Analyze and examine diverse approaches to costing.	PSO - 5	K4
CO - 5	Assess and evaluate the cost analysis of financial entities.	PSO - 4	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: V		COST ACCOUNTING - I										Hours: 6
Code : 23CC5MC09												Credit: 5
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	3	3	3	3	3	5	3	3	3	3	3.36
CO - 2	3	5	3	3	3	4	3	3	5	4	3	3.55
CO - 3	3	3	5	4	5	3	3	5	3	3	4	3.73
CO - 4	3	3	4	5	4	4	3	4	3	4	5	3.82
CO - 5	3	3	3	4	3	5	3	3	3	5	4	3.55
Overall Mean Score												3.60

Result: The score for this course is **3.60** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Definition - Nature and Scope - Principles of Cost Accounting -Cost Accounting and Financial Accounting-Cost Accounting Vs. Management Accounting -Installation of costing System - Classification of Costs- Cost Centre - Profit Centre. **(18 Hours)**

UNIT II

Preparation of Cost Sheet - Reconciliation of Cost and Financial Accounts - Unit Costing-Job Costing - Tenders & Quotations. **(18 Hours)**

UNIT III

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. **(18 Hours)**

UNIT IV

Direct Labour and Indirect Labour-Time Keeping-Methods and Calculation of Wage Payments-Time Wages-Piece Wages - Incentives-Different Methods of Incentive Payments -Idle time - Overtime - Labour Turnover - Meaning, Causes and Measurement. **(18 Hours)**

UNIT V

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. **(18 Hours)**

COURSE BOOKS:

1. Jain S.P. and Narang K.L., Cost Accounting, Kalyani Publishers, New Delhi, 2017.
2. Khanna B.S., Pandey I.M., Ahuja G.K., and Arora M.N., Practical Costing, S. Chand & Co, New Delhi, 1991.
3. Dr. S.N. Maheswari, Fundamentals of Cost Accounting, Sultan Chand Publications, New Delhi, 2023.
4. T.S. Reddy and Y. Hari Prasad Reddy, Cost Accounting, Margham Publication, Chennai, 2020.
5. S.P. Iyengar, Cost Accounting, Sultan Chand Publication, New Delhi, 2023.

BOOKS FOR REFERENCE:

1. Polimeni, Cost Accounting, Concepts and Applications for Managerial Decision making, McGraw-Hill, New York, 1991.
2. Jain S.P. and Narang K.L., Cost Accounting, Kalyani Publishers, New Delhi, 2017.
3. V.K. Saxena and C.D.Vashist, Cost Accounting, Sultan Chand Publication, New Delhi, 2006.
4. Murthy A & Gurusamy S, Cost Accounting, Vijay Nicole Imprints Pvt, Ltd, Chennai, 2014.
5. Prasad.N.K. and Prasad.V.K., Cost Accounting, Book Syndicate, Kolkata, 2017.

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>

Note: Part A- MCQ, Part B -Theory, Part C & Part D- Only Problems

BANKING LAW AND PRACTICE

Semester: V

Hours: 6

Code : 23CC5MC10

Credit: 5

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Grasp and understand the basic concepts of banking law and practice	PSO-1	K1
CO - 2	Categorize the types of banking structure in India	PSO-2	K2
CO - 3	Smear and apply banking principles to promote the economic development of a nation	PSO-3	K3
CO - 4	Analyze and evaluate the recent development of banking sector and its application	PSO-5	K4
CO - 5	Estimate the banker's and customers relationship in banking sector	PSO-4	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: V		BANKING LAW AND PRACTICE										Hours: 6
Code : 23CC5MC10												Credit: 5
Course Outcomes	Programme Outcome (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO -1	5	3	3	3	3	4	5	3	3	4	3	3.55
CO - 2	3	4	5	3	5	4	3	5	4	4	3	3.91
CO - 3	3	5	4	3	4	3	3	4	5	3	3	3.64
CO - 4	3	3	4	5	4	3	3	4	3	3	5	3.64
CO - 5	3	3	3	4	3	5	3	3	3	5	4	3.55
Overall Mean Score												3.65

Result: The score for this course is **3.65** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

History of Banking- Provisions of Banking Regulations Act 1949 - Components of Indian Banking - Indian Banking System-Phases of Development - Commercial Banking: Definition - Classification of Banks. Banking System - Universal Banking - Commercial Banking functions - Role of Banks in Economic Development.

(18 Hours)

UNIT II

Establishment - objective - Legal framework - Functions - SBI - Origin and History - Establishment Indian subsidiaries - Foreign subsidiaries -Non-Banking-Subsidiaries - Personal banking International banking - Trade Financing - Correspondent banking - Co-operative banks-Meaning and definition - Features - Co-operative banks vs Commercial banks-Structure.

(18 Hours)

UNIT III

Opening - Types of Accounts - FDR-Steps in Opening Account-Saving vs Current Account - 'Donatio Mortis Causa'-Passbook - Bank Customer Relationship - Special Types of currents - KYC norms. Bank Lending -Lending Sources-Bank Lending Principles - Forms of lending- Negotiable Instruments - Meaning -Characteristics - Types. Crossing - Definition - Objectives - Crossing and negotiability - Consequences of Crossing.

(18 Hours)

UNIT IV

Meaning - Components - Kinds of Endorsements-Cheques payable to fictitious person Endorsement by legal representative - Negotiation bank - Rules regarding Endorsement - Paying banker-Banker's duty - Dishonouring of Cheques - Discharge of paying banks Payments of a crossed cheque payment- Collecting bankers' duty -RBI instruction - Paying Banker Vs Collecting Banker - Customer Grievances - Grievance Redressal - Banking Ombudsman.

(18 Hours)

UNIT V

Meaning - Services - e-banking and financial services - Initiatives -Opportunities - Internet banking Meaning - Internet banking Vs Traditional Banking - Services-Drawbacks - Frauds in Internet banking. Mobile banking - Anywhere Banking-Any Time Banking - Electronic Mobile Wallets. ATM Evolution -Concept-Features - Types-. Electronic money-Meaning - Categories - Merits of e-money.

(18 Hours)

COURSE BOOKS:

1. Dr. S. Gurusamy, Banking Theory: Law and Practice, Vijay Nicole Publication, Chennai, 2017.
2. E. Gorden, Dr.K. Natarajan, Banking Theory Law & Practice, Himalaya Publication, NewDelhi, 2010.
3. Muraleedharan, Modern Banking: Theory and Practice, Prentice Hall India Learning Private Ltd, New Delhi, 2015.
4. Gajendra, A Text on Banking Theory Law & Practice, Vrinda Publication, NewDelhi, 2014.

BOOKS FOR REFERENCE:

1. Gupta P.K, E-Banking and Insurance, Himalaya Publication, Kolkata, 2012.
2. E.Gorden, Dr.K. Natarajan, Banking Theory Law & Practice, Himalaya publication, New Delhi, 2010.
3. A.Gajendra, Text on Banking Theory Law & Practice, Vrinda Publication, Delhi, 2014.
4. Henry Dunning Macleod, The Theory and Practice of Banking, Hard Press Publishing, Old New Zealand, 2010.

WEB RESOURCES:

1. <https://www.rbi.org.in/>
2. <https://businessjargons.com/e-banking.html>
3. <https://www.wallstreetmojo.com/endorsement/>

INCOME TAX LAW AND PRACTICE - I

Semester: V

Hours: 5

Code : 23CC5MC11

Credit: 3

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Grasp the terminology associated with Income Tax.	PSO - 1	K1
CO - 2	Recognize the regulations and stipulations governing income tax.	PSO - 2	K2
CO - 3	Acquaint oneself with the process of calculating income tax for individuals.	PSO - 3	K3
CO - 4	Demonstrate the different advantages outlined in the Income Tax Act of 1961.	PSO - 5	K4
CO - 5	Determine an individual's net income after tax deductions.	PSO - 4	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: V		INCOME TAX LAW AND PRACTICE - I										Hours: 5
Code : 23CC5MC11												Credit: 3
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	3	4	3	4	3	5	4	3	3	3	3.64
CO - 2	3	3	5	3	5	3	3	5	3	3	3	3.55
CO - 3	4	5	3	3	3	3	4	3	5	3	3	3.55
CO - 4	3	3	3	5	3	3	3	3	3	3	5	3.36
CO - 5	4	3	4	3	4	5	4	4	3	5	3	3.82
Overall Mean Score												3.58

Result: The score for this course is **3.58** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Introduction to Income Tax - History - Objectives of Taxation - Features of Income Tax - Meaning of Income - Types - Important Definitions Under the Income Tax Act - Assessee - Types- Incomes Exempted under Section 10. **(15 Hours)**

UNIT II

Residential Status - Residential Status of an Individual - Company - HUF - Basic Conditions - Additional Conditions - Incidence of Tax and Residential Status - Problems on Residential Status and Incidence of Tax. **(15 Hours)**

UNIT III

Computation of Salary Income - Features of Salary - Allowances - Types of Allowances - Perquisites - Kinds of Perquisites -Types of Provident Fund - Gratuity - Pension - Commutation of Pension - Deduction of Salary - Profits in Lieu of Salary. **(15 Hours)**

UNIT IV

Income from House Property -Basis of Charge - Annual Value -Gross Annual Value, Net Annual Value of Let-out Property, Self- Occupied Property- Amenities-Deductions. **(15 Hours)**

UNIT V

Income from Business or Profession - Allowable Expenses - Not Allowable Expenses - General Deductions - Provisions Relating to Depreciation - Deemed Business Profits - Undisclosed Incomes - Investments - Compulsory Maintenance of Books of Accounts - Audit of Accounts of Certain Persons - Special Provisions for Computing Incomes on Estimated Basis - Computation of Income from Business or Profession. **(15 Hours)**

COURSE BOOKS:

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. H.C. Mehrotra, 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.

BOOKS FOR REFERENCE:

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.BhargavaTaxman, 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.

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>

Note: Part A MCQ, Part B & Part C- Only problems

AUDITING AND CORPORATE GOVERNANCE

Semester: V

Hours: 5

Code : 23CC5MC12

Credit: 3

COURSE OUTCOME:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Grasp and understand the basic concepts of auditing and corporate governance	PSO-1	K1
CO - 2	Categorize the diverse forms of audits and vouchers.	PSO-2	K2
CO - 3	Select appropriate methodologies for compiling audit statements across different accounts.	PSO-3	K3
CO - 4	Assess the auditing process and the roles performed by auditors.	PSO-4	K4
CO - 5	Analyze and evaluate the ethical standards and code of conduct integral to auditing practice.	PSO-5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: V		AUDITING AND CORPORATE GOVERNANCE										Hours: 5
Code : 23CC5MC12												Credit: 3
Course Outcomes	Programme Outcome (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	3	3	3	3	3	5	3	3	3	3	3.36
CO - 2	3	4	5	3	5	4	3	5	4	4	3	3.91
CO - 3	3	5	4	3	4	3	3	4	5	3	3	3.64
CO - 4	3	3	3	3	3	5	3	3	3	5	3	3.36
CO - 5	3	4	4	5	4	3	3	4	4	3	5	3.82
Overall Mean Score												3.62

Result: The score for this course is **3.62** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Meaning and Definition of Auditing -Distinction between Auditing and Accounting - Objectives - Advantages and Limitations of Audit - Scope of Audit - Classifications of Audits - Audit of Banking, Insurance, Non-Profit Organizations and Charitable Societies, Trusts, Organizations. **(15 Hours)**

UNIT II

Audit Planning - Audit Programme - Procedures - Internal Audit - Internal Control - Internal Check - Vouching - Cash and Trade Transactions - Verification and Valuations of Assets and Liabilities. **(15 Hours)**

UNIT III

Appointment and Removal of Auditors - Rights, Duties and Liabilities of Auditor - Professional Conduct and Ethics in Auditing - Audit Report - Recent Trends in Auditing - Information Systems Audit (ISA) - Impact of Computerization on Audit Approach - Online Computer System Audit - Types of Online Computer Systems - Procedure of Audit under ISA System. **(15 Hours)**

UNIT IV

Conceptual Framework of Corporate Governance: Theories & Models, Broad Committees - Corporate Governance Reforms. Major Corporate Scandals in India and Abroad: Common Governance Problems Noticed in various Corporate Failures. Codes & Standards on Corporate Governance. **(15 Hours)**

UNIT V

Concept of CSR, Corporate Philanthropy, Strategic Relationship of CSR with Corporate Sustainability - CSR and Business Ethics, CSR and Corporate Governance - CSR Provisions under the Companies Act, 2013. **(15 Hours)**

COURSE BOOKS:

1. B.N. Tandon, Practical Auditing, S. Chand & Company Ltd, New Delhi, 2012.
2. Dr.T.R. Sharma, Dr. Gaurav Sankalp, Auditing & Corporate Governance, Sahithya Bhawan Publications, Agra 2010.
3. Dinkar Pagare, Principles and Practice of Auditing, Sultan Chand & Sons, New Delhi, 2020.
4. ArunaJha, Auditing & Corporate Governance, Taxmann Publication Pvt. Ltd, New Delhi, 2017.

BOOKS FOR REFERENCE:

1. Dr. T.R. Sharma, Auditing, Sahithya Bhawan Publications, Agra, 2019.
2. Shri. Vengadamani, Practical Auditing, Margham Publication, Chennai, 2011.
3. C.B.Gupta, NehaSinghal, Auditing & Corporate Governance, Scholar Tech Press, New Delhi, 2016.
4. Kevin Keasey, Steve Thompson & Mike wright, Governance & Auditing, Emerald Group Publishing Limited, Bingley, 2015.

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>

WEB DESIGN Theory and Lab

Semester: V

Hours: 4

Code : 23CC5DE1A

Credit: 3

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Understand and Recall the Internet Basic concepts and Internet Domains	PSO-1	K1
CO - 2	Impart Lists, Frames and Table to the Forms and Forms Elements	PSO-2	K2
CO - 3	Elaborate DHTML Style Sheets and Element of the Style	PSO-3	K3
CO - 4	Representation of JavaScript Data types, Control and Looping and Functions.	PSO-5	K4
CO - 5	Pointing out Form object, User Defined Object and Cookies	PSO-4	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: V		WEB DESIGN Theory and Lab										Hours: 4
Code : 23CC5DE1A												Credit: 3
Course Outcomes	Programme Outcome (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	3	3	3	3	3	5	3	3	3	3	3.36
CO - 2	3	3	5	3	5	3	3	5	3	3	3	3.55
CO - 3	3	5	3	3	3	4	3	3	5	4	3	3.55
CO - 4	3	3	3	5	3	3	3	3	3	3	5	3.36
CO - 5	3	3	4	4	4	5	3	4	3	5	4	3.82
Overall Mean Score												3.53

Result: The score for this course is **3.53** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Internet: Basic Concepts - Communicating on Internet - Internet Domains - Internet Server Identities - Establishing Connectivity on the Internet **(6 Hours)**

UNIT II

Introduction to HTML -Anchor Tag - Hyperlink - Head and Body Section - Heading - Horizontal Ruler - Paragraphs - Tags - Images and Picture - Lists - Tables - Frames - Forms and forms elements. **(6 Hours)**

UNIT III

DHTML and Style sheets - Defining styles - Elements of style - Linking a style sheet to a html documents - Inline style - External style sheets - Multiple styles - Web page designing. **(6 Hours)**

UNIT IV

Introduction to Java script - Advantage of JavaScript - Data type - Variable - Array - Operator and Expression - Control and looping Constructs - Functions - Dialog Boxes. **(6 Hours)**

UNIT V

JavaScript Document Object Model - Event Handling - Form Object - Built in Object - User Defined Object-Cookies **(6 Hours)**

LIST OF PRACTICALS:

1. Design a page having suitable background color and text color with title “My First Web Page” using all the attributes of the Font tag.
2. Create a HTML document giving details of your [Name, Age], [Address, Phone] and [Register Number, Class] aligned in proper order using alignment attributes of Paragraph tag.
3. Write HTML code to design a page containing some text in a paragraph by giving suitable heading style.
4. Create a web page for internal links; when the user clicks on different links on the web page it should go to the appropriate locations/sections in the same page.
5. Write a HTML code to create a web page with pink color background and display moving message in red color.
6. Create a web page, showing an ordered list of all second semester courses.
7. Create a login page in portal.

8. Create a table to show your class time table.
9. Web in HTML to design a Bio-Data.
10. Insert an image and create a link such that clicking on image takes user to other page.
11. Create a web-page with HTML describing your department use paragraph and list tags.
12. Create a web-page with HTML in marquee (text, pictures).
13. Create a display a text on top of an image using an overlay in CSS.
14. Create a scrollable container that will sanp on elements when scrolling in CSS.
15. Create a custom hover and focus effect for navigation, items, using CSS transformations.

COURSE BOOKS

1. Ivan Bayross, "Web Enabled Commercial Application Development using HTML, JavaScript, DHTML and PHP", Fourth Edition, BPB Publications, Noida, 2010,
2. Harvey M. Deitel, Paul J. Deitel, Tem R. Nieto, "Internet & World Wide Web - How to program", Third Edition, Prentice Hall,US, 2002
3. Using HTML 4, XML & JAVA by Eric Ladd & Jim O'Donell (Platinum Edition) (PHI), Noida.

BOOKS FOR REFERENCE:

1. Hirdesh Bharadwaj, Web designing, Paper Back, 2016
2. Brain D Miller, Principles of web design, Allworth Publications, 2022

NOTE: Latest Edition of Textbooks May be Used

WEB RESOURCES

1. http://books.google.co.in/books?id=BrASwbAGGUC&pg=PA69&source=gbs_selected_pages&cad=2#v=onepage&q&f=false
2. https://www.google.co.in/books/edition/Principles_of_Web_Design/qFk1EAAAOBAJ?hl=en&gbpv=1&dq=web%20design&pg=PA1977&printsec=frontcover
3. <https://www.w3schools.com/html/>
4. <https://geeksforgeeks.org/html-tutorial/amp/>

CYBER SECURITY

Semester: V

Hours: 4

Code : 23CC5DE1B

Credit: 3

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO-1	Understand the basics about cyber security	PSO-1	K1
CO-2	Know the measures to secure their e-mail communications	PSO-2	K2
CO-3	Acquire the knowledge and have familiarity in following security guidelines	PSO-3	K3
CO-4	Apply the cyber security initiatives taken by the Government	PSO-4	K4
CO-5	Know how to do online transactions in a secured way and enhance the skills on the different platforms and application	PSO-5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: V		CYBER SECURITY										Hours: 4
Code : 23CC5DE1B												Credits: 3
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO-1	5	3	4	3	4	3	5	4	3	3	3	3.64
CO-2	3	3	5	3	5	4	3	5	3	4	3	3.73
CO-3	4	5	3	3	3	3	4	3	5	3	3	3.55
CO-4	3	3	4	4	4	5	3	4	3	5	4	3.82
CO-5	4	3	3	5	3	3	4	3	3	3	5	3.55
Overall Mean Score												3.65

Result: The score for this course is **3.65** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Introduction to Cyber Space History of Internet - Cyber Crime - Information Security -data stealing -Computer Ethics and Security Policies -violence against women- cyber security for women's talking - pornography- usage of social media and cyber security for women. **(12 Hours)**

UNIT II

Email Security & Wi Fi Security Guidelines to choose web browsers - Securing web browser - Antivirus - Email security - Guidelines for setting up a secure password - Two-steps authentication Password - Manager - Wi-Fi Security - strategies to overcome E-mail threats- techniques of using public Wi-Fi -legal aspects regarding Email. **(12 Hours)**

UNIT III

Social Media Security Guidelines for social media security - Tips and best practices for safer Social Networking - Basic Security for Windows - User Account Password - Smartphone Security guidelines: Introduction to mobile phones - Smartphone Security - Android Security - IOS Security **(12 Hours)**

UNIT IV

Cyber Security Initiatives in India - Importance of cyber security- making awareness - Counter Cyber Security Initiatives in India - Cyber Security Exercise - Cyber Security in curriculum - Cyber Security Assurance - case studies- government initiations to prevent cyber-crimes. **(12 Hours)**

UNIT V

Online Banking, Credit Card and UPI Security Online Banking Security - Mobile Banking Security - Security of Debit and Credit Card - UPI - Micro ATM, e-wallet and POS Security - Security of Micro ATMs - e-wallet Security Guidelines - Security Guidelines for Point of Sales(POS). **(12 Hours)**

COURSE BOOKS:

1. Introduction to Cyber Security
2. Fundamentals of Information Security, Cyber Security Techniques
3. A Guide for Women in Cyber Security, 2021.

BOOKS FOR REFERENCES:

1. Cyber Attacks and Counter Measures: User Perspective
2. The 2017 Global Information Security Workforce Study: Women in Cybersecurity
3. An Cybersecurity Workforce Report, Women in Cyber Security, Young, Educated And Ready To Take Charge.
4. Sudhir Naib, The Information Technology Act, 2005: A Handbook, OUP, NewYork, 2011

WEB RESOURCES:

1. <http://uou.ac.in/foundation-course>
2. <http://uou.ac.in/progdetail?pid=CEGCS-17>
3. <http://uou.ac.in/progdetail?pid=CEGCS-17>
4. <https://cybersecurityguide.org/resources/women-in-cybersecurity/>
5. www.isc2.org/-/media/Files/Research/ISC2-Women-in-Cybersecurity2017
<https://www.isc2.org/-/media/ISC2/Research/ISC2-Women-inCybersecurityReport.ashx>

MOBILE COMPUTING

Semester: V

Hours: 4

Code : 23CC5DE1C

Credit: 3

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO-1	Acquire the knowledge in the mobile computing	PSO-1	K1
CO-2	Analyze the different networks and designs issues	PSO-2	K2
CO-3	Acquire the knowledge on the mobile telecommunication systems	PSO-3	K3
CO-4	Apply the mobile Internet protocol and transport layer	PSO-4	K4
CO-5	Enhance the skills on the different platforms and application models	PSO-5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: V		MOBILE COMPUTING										Hours: 4
Code : 23CC5DE1C												Credit: 3
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO-1	5	3	4	3	4	3	5	4	3	3	3	3.64
CO-2	3	4	5	3	5	3	3	5	4	3	3	3.73
CO-3	4	5	3	3	3	4	4	3	5	4	3	3.73
CO-4	3	3	4	4	4	5	3	4	3	5	4	3.82
CO-5	4	4	3	5	3	3	4	3	4	3	5	3.73
Overall Mean Score												3.73

Result: The score for this course is **3.73** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Introduction-Mobile Computing - Mobile Computing Applications -Generations of Mobile computing - Structure of Mobile Computing Application. MAC Protocols - Wireless MAC Issues - Fixed Assignment Schemes - Random Assignment Schemes - Reservation Based Schemes. **(12 Hours)**

UNIT II

Mobile Ad-Hoc Networks-Ad-Hoc Basic Concepts - Characteristics - Applications - Design Issues - Routing - Essential of Traditional Routing Protocols -Popular Routing Protocols - Vehicular Ad Hoc networks (VANET) - MANET Vs VANET - Security. **(12 Hours)**

UNIT III

Mobile Telecommunication System - Global System for Mobile Communication (GSM) - Services & Architecture - Protocols - Connection Establishment - General Packet Radio Service (GPRS) - Universal Mobile Tele communication System (UMTS). Architecture - Handover - security. **(12 Hours)**

UNIT IV

Mobile Internet Protocol and Transport Layer-Overview of Mobile IP - Features of Mobile IP - Key Mechanism in Mobile IP - route Optimization. Overview of TCP/IP - Architecture of TCP/IP Adaptation of TCP Window - Improvement in TCP Performance. **(12 Hours)**

UNIT V

Mobile Platforms and Applications-Mobile Device Operating Systems - Special Constrains & Requirements - Commercial Mobile Operating Systems - Software Development Kit: iOS, Android, BlackBerry, Windows Phone - M-Commerce - Structure - Pros & Cons - Mobile Payment System - Security Issues. **(12 Hours)**

COURSE BOOKS:

1. Jochen Schiller, "Mobile Communications", PHI/Pearson Education, Second Edition, 2003. (Unit I Chap 1,2 &3- Unit II chap 4,5 &6-Unit III Chap 7.Unit IV Chap 8- Unit V Chap 9&10.), New Delhi.
2. William Stallings, "Wireless Communications and Networks", PHI/Pearson Education, 2002. (Unit I Chapter - 7&10-Unit II Chap 9), New Delhi.
3. Kaveh Pahlavan, Prasanth Krishnamoorthy, "Principles of Wireless Networks", PHI/Pearson Education, New Delhi, 2003.

BOOKS FOR REFERENCE:

1. Uwe Hansmann, Lothar Merk, Martin S. Nicklons and Thomas Stober, "Principles of Mobile Computing", Springer, New York, 2003.
2. Hazyszt of Wesolowshi, "Mobile Communication Systems", John Wiley and Sons Ltd, New Delhi 2002.

WEB RESOURCES:

1. https://www.google.co.in/books/edition/FUNDAMENTALS_OF_MOBILE_COMPUTING_Second/NREACwAAQBAJ?hl=en&gbpv=1&dq=mobile%20computing&pg=PP1&printsec=frontcover
2. https://www.google.co.in/books/edition/Mobile_Computing/LSqPLwEACAAJ?hl=en
3. https://www.google.co.in/books/edition/Mobile_Computing/psAgAQAAIAAJ?hl=en&gbpv=1&bsq=mobile+computing&dq=mobile+computing&printsec=frontcover

E-COMMERCE

Semester: V

Hours: 4

Code : 23CC5DE2A

Credit: 3

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO-1	Acquire the basic concept of E- Business and related information technology	PSO-1	K1
CO-2	Understand the different e-commerce business models	PSO-2	K2
CO-3	Apply the different concepts of e-commerce marketing	PSO-3	K3
CO-4	Analyze the Electronic data interchange and security systems	PSO-4	K4
CO-5	Inculcate and evaluate the ethical principles within the framework of E-commerce operations.	PSO-5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: V		E-COMMERCE										Hours: 4
Code : 23CC5DE2A												Credit: 3
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO-1	5	3	4	3	4	3	5	4	3	3	3	3.64
CO-2	3	3	5	3	5	4	3	5	3	4	3	3.73
CO-3	4	5	3	3	3	3	4	3	5	3	3	3.55
CO-4	4	3	4	4	4	5	3	4	3	5	4	3.91
CO-5	4	3	3	5	3	3	4	3	3	3	5	3.55
Overall Mean Score												3.67

Result: The score for this course is **3.67** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Defining E - Commerce; Main Activities of Electronic Commerce; Benefits of E-Commerce; Broad Goals of Electronic Commerce; Main Components of E-Commerce; Functions of Electronic Commerce - Process of E-Commerce - Types of E-Commerce; The World Wide Web, The Internet and the Web : Features, Role of Automation & Artificial Intelligence in E-Commerce **(12 Hours)**

UNIT II

E-commerce Business Models, Major Business to Consumer (B2C) business models, Major Business to Business (B2B) business models, Business models in emerging E-commerce areas - E-tailing: Traditional retailing and e retailing, Benefits of e retailing, Models of e retailing, Features of e retailing **(12 Hours)**

UNIT III

The Internet Audience and Consumer Behavior, Basic Marketing Concepts, Internet Marketing Technologies - Marketing Strategy - E services: Categories of e-services, Web-enabled services, Information-selling on the web **(12 Hours)**

UNIT IV

Benefits of EDI, EDI technology, EDI standards, EDI communications, EDI Implementation, EDI Agreements, EDI Security. Electronic Payment Systems, Need of Electronic Payment System - Digital economy - Threats in Computer Systems: Virus, Cyber Crime Network Security: Encryption, Protecting Web server with a Firewall, Firewall and the Security Policy, Network Firewalls and Application Firewalls, Proxy Server. **(12 Hours)**

UNIT V

Issues in E Commerce Understanding Ethical, Social and Political issues in E-Commerce: A model for Organizing the issues, Basic Ethical Concepts, Analyzing Ethical Dilemmas, Candidate Ethical principles Privacy and Information Rights: Information collected at E-Commerce Websites **(12 Hours)**

COURSE BOOKS:

1. Whitley, David (2000). e-Commerce Strategy, Technologies and Applications. Tata McGraw Hill New Delhi
2. Schneider Gary P. and Perry, James T (1st Edition 2000). Electronic Commerce. Thomson Learning.
3. Bajaj, Kamlesh K and Nag, Debjani (1st Edition 1999). E-Commerce: The Cutting Edge of Business. Tata McGraw Hill, Publishing Company Ltd., New Delhi.
4. "Frontiers of Electronic Commerce", Kalakota & Whinston, Pearson Education, 2002.
5. Effy Oz, "Foundations of E-Commerce", PHI, 2001.

BOOKS FOR REERENCE:

1. Dr. C.S. Rayudu,"E-Commerce &E-Business", Himalaya Publishing House, New Delhi, 2004.
2. Kamalesh K. Bajaj, "E-Commerce: The Cutting Edge & Business", Tata McGraw-Hill, New Delhi, 2003.

WEB RESOURCES

1. <https://ecommerceguide.com/guides/what-is-ecommerce/>
2. [https://searchcio.techtarget.com/definition/ecommerce#:~:text=E%2Dcommerce%20\(electronic%20commerce\)%20is%20the%20buying%20and%20selling,or%20consumer%2Dto%2Dbusiness.](https://searchcio.techtarget.com/definition/ecommerce#:~:text=E%2Dcommerce%20(electronic%20commerce)%20is%20the%20buying%20and%20selling,or%20consumer%2Dto%2Dbusiness.)
3. https://www.google.co.in/books/edition/E_commerce/MwEB8LuK0P0C?hl=en&gbpv=1&dq=E-commerce&pg=PP1&printsec=frontcover
4. https://www.google.co.in/books/edition/ESSENTIALS_OF_E_COMMERCE_TECHNOLOGY/ZAOSwdjes38C?hl=en&gbpv=1&dq=E-commerce&pg=PP1&printsec=frontcover

MANAGEMENT INFORMATION SYSTEMS

Semester: V

Hours: 4

Code : 23CC5DE2B

Credit: 3

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO-1	Understand the management information system	PSO-1	K1
CO-2	Explore the system concepts and to identify the characteristics of system	PSO-2	K2
CO-3	Analyse the transaction processing system	PSO-3	K3
CO-4	Apply the database management systems and architecture networks	PSO-4	K4
CO-5	Estimate the functional management information systems	PSO-5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: V		MANAGEMENT INFORMATION SYSTEMS										Hours: 4
Code : 23CC5DE2B												Credit: 3
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO-1	5	3	4	3	4	3	5	4	3	3	3	3.64
CO-2	3	3	5	3	5	4	3	5	3	4	3	3.73
CO-3	4	5	3	3	3	3	4	3	5	3	3	3.55
CO-4	4	3	4	4	4	5	3	4	3	5	4	3.91
CO-5	4	3	3	5	3	3	4	3	3	3	5	3.55
Overall Mean Score												3.67

Result: The score for this course is **3.67** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Management information system: meaning - features - requisites of an effective MIS - MIS Model - components - subsystems of an MIS - role and importance - corporate planning for MIS - growth of MIS in an organization - centralization vs decentralization of MIS. Support - Limitations of MIS. **(12 Hours)**

UNIT II

System concepts - elements of system - characteristics of a system - types of system - categories of information system - system development life cycle - system enhancement. **(12 Hours)**

UNIT III

Information systems in business and management: Transaction processing system: Information repeating and executive information system. **(12 Hours)**

UNIT IV

Database management systems - conceptual presentation - client server architectures networks. **(12 Hours)**

UNIT V

Functional management information system: Financial - accounting - marketing - production - Human resource - business process outsourcing. **(12 Hours)**

COURSE BOOKS:

1. Gordon B. Davis And MaggretheH. Olson , Management Information Systems , McGraw Hill International Edition - Second Edition , Noida 1998
2. RoberG .Mudrick , Joel E . Ross And James R .CIAGGET , Information Systems For Modern Management , 33Rd Edition , Prentice Hall Of India (P) Ltd ., Eastern Economy Edition , U.S,1992.
3. Jerome Kanter Management Information Systems, 3 Edition, Prentice Hall Of India Ltd., Eastern Economy Edition, U.S., 1990.

BOOKS FOR REFERENCE:

1. James A. O'Brien, Management information systems, McGraw Hill, Noida,2002
2. BagchiNirmalya, Management Information systems, Vikas Publications, Delhi, 2010
3. IndrajitChattarjee, Management information systems, PHI Learning,Delhi, 2010

NOTE: Latest Edition of Textbooks May be Used

WEB RESOURCES

1. https://www.google.co.in/books/edition/Management_Information_Systems/RTZDDAAAQBAJ?hl=en&gbpv=1&dq=management%20information%20system&pg=PR4&printsec=frontcover
2. https://www.google.co.in/books/edition/MANAGEMENT_INFORMATION_SYSTE/EMS/DOimeoOKWsC?hl=en
3. https://www.google.co.in/books/edition/Management_Information_Systems_Management/ZaNDAAAQBAJ?hl=en&gbpv=1&dq=management%20information%20system&pg=PP1&printsec=frontcover

COMPUTER ARCHITECTURE AND ORGANIZATION

Semester: V

Hours: 4

Code : 23CC5DE2C

Credits: 3

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Identify various components of computer and their interconnection	PSO-1	K1
CO - 2	Understand basic computer arithmetic operations.	PSO-2	K2
CO - 3	Identify and analyze the basic components and design of the CPU.	PSO-3	K3
CO - 4	Compare and select various Memory devices as per requirement.	PSO-4	K4
CO - 5	Analyze and evaluate the performance of various secondary memories.	PSO-5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: V		COMPUTER ARCHITECTURE AND ORGANIZATION										Hours: 4
Code : 23CC5DE2C												Credit: 3
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	3	4	3	4	3	5	4	3	3	3	3.64
CO - 2	3	3	5	3	5	4	3	5	3	4	3	3.73
CO - 3	4	5	3	3	3	3	4	3	5	3	3	3.55
CO - 4	3	3	4	4	4	5	3	4	3	5	4	3.82
CO - 5	4	3	3	5	3	3	4	3	3	3	5	3.55
Overall Mean Score												3.65

Result: The score for this course is **3.65** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Classification of Computer - Designing for performance - Structure of a Computer System - Arithmetic Logic Unit - Control Unit - Bus Structure.

(12 Hours)

UNIT II

Addition and Subtraction - Multiplication and Division algorithms - Floating point - Arithmetic Operations - Decimal arithmetic operations.

(12 Hours)

UNIT III

Instruction Characteristics - CPU with Single BUS - Types of Operands - Types of Operations - Addressing Modes.

(12 Hours)

UNIT IV

Characteristics of Memory Systems - Main Memory - Types of Random Access Memory - ROM - Organization - Static and dynamic memories.

(12 Hours)

UNIT V

Magnetic Disk - Tape - Hard Disk - Compact Disk (CD) - Pen drive.

(12 Hours)

COURSE BOOKS:

1. M. Moris Mano Computer System Architecture, 3rd edition, Pearson/PHI, Delhi, India, 2006

REFERENCE BOOKS:

1. Carl Hamacher, Zvonks Vranesic, SafeaZaky, Computer Organization, 5th edition, McGraw Hill, New Delhi, India. 2002
2. William Stallings, Computer Organization and Architecture- designing for performance, 8th edition, Prentice Hall, New Jersey. 2010
3. Andrew S. Tanenbaum, Structured Computer Organization, 5th edition, Pearson Education Inc, Delhi, 2006
4. John P. Hayes (), Computer Architecture and Organization, 3rd edition, Tata McGrawHill, New Delhi, 1998

WEB REFERENCES:

1. <https://www.sciencedirect.com/topics/computer-science/computer-architecture>
2. <https://www.geeksforgeeks.org/computer-organization-and-architecture-tutorials>.

INTERNSHIP/INDUSTRIAL TRAINING

Semester: V

Credits 2

Code : 23CC5IN01/23CC5IT01

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Learn the fundamentals of an internship site/ industrial set up.	PSO-3	K1
CO - 2	Explain the acquired knowledge and demonstrate.	PSO-1	K2
CO - 3	Apply the principles involved in machineries and tools to the current scenario.	PSO-4	K3
CO - 4	Develop their soft skills for their working environment in the near future.	PSO-2	K4
CO - 5	Emergence as an Entrepreneurs.	PSO-5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: V		INTERNSHIP/INDUSTRIAL TRAINING										Credit: 2
Code : 23CC5IN01/23CC5IT01												
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	3	5	3	3	3	3	3	3	5	3	3	3.36
CO - 2	5	3	3	3	3	3	5	3	3	3	3	3.36
CO - 3	3	3	3	4	3	5	3	3	3	5	4	3.55
CO - 4	4	4	5	3	5	3	4	5	4	3	3	3.91
CO - 5	3	3	3	5	3	4	3	3	3	4	5	3.55
Overall Mean Score												3.55

Result: The score for this course is **3.55** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

JACEP - EXTENSION

U.G. PROGRAMME OUTCOMES (2023 - 2026)

PO. NO.	UPON COMPLETION OF THIS PROGRAMME THE STUDENTS WILL BE ABLE TO
1.	Acquire comprehensive knowledge and evaluate analytically in their specific disciplines.
2.	Apply the acquired knowledge in professional and social life.
3.	Evolve new methodologies in the specific disciplines leading to innovation and employability.
4.	Develop critical thinking required to pursue research.
5.	Apply the computational and life skills to the challenging problems in life.
6.	Design and develop independent projects.

U.G. PROGRAMME SPECIFIC OUTCOMES (PSO)

PSO. NO.	UPON COMPLETION OF THIS PROGRAM THE STUDENTS WILL BE ABLE TO	PO MAPPED
PSO - 1	Understand and identify the needs of the community and articulate viewpoints both practically and theoretically.	PO-1, PO-3
PSO - 2	Develop among themselves a sense of social and civic responsibility to be more culturally equipped.	PO-2, PO-3, PO- 4, PO- 6
PSO - 3	Apply their education in finding practical solutions to individual, community problems to exercise their rights properly.	PO - 1, PO- 3, PO- 4, PO- 6
PSO - 4	Acquire leadership qualities and a democratic attitude by carrying out their duties as effective citizens of the country.	PO- 2, PO- 3, PO- 5
PSO - 5	Develop the capacity to think clearly and cogently to meet emergencies and national disasters and practise national integration and social harmony.	PO- 3, PO- 4, PO- 5

JACEP - EXTENSION

Semester: V-VI

Hours: 60

Code : 23SLPEX01

Credit: 1

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Impart knowledge on education.	PSO-2, PSO-3	K1
CO - 2	Get awareness of environmental issues and solve the issues.	PSO-1, PSO-5	K2
CO - 3	Develop a concern for the voiceless and faceless and rectify it.	PSO- 1, PSO-2, PSO-5	K3
CO - 4	Analyse the reasons for health problems and impart knowledge on a balanced diet.	PSO-1, PSO- 3	K4
CO - 5	Apply different fields of knowledge to the society.	PSO-3, PSO- 4, PSO-5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: V -VI		JACEP - EXTENSION										Hours: 60
Code : 23SLPEX01												Credit: 1
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	3	3	4	4	3	3	3	5	3	3	5	3.54
CO - 2	3	4	3	2	4	3	4	5	4	5	2	3.55
CO - 3	3	4	5	3	3	4	3	3	5	3	5	3.72
CO - 4	2	2	3	3	2	3	3	5	5	5	3	3.27
CO - 5	3	3	3	3	3	3	4	4	4	3	3	3.27
Overall Mean Score												3.47

Result: The Score for this Course is **3.47** (High Relationship)

Note:

Mapping	1 - 20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I: LITERACY GROUP:

Giving orientation for the students about JACEP - importance of education awareness of dropouts and counselling the parents to re-admit the school dropouts- organizing activities based on the disciplines - arranging competitions for school children - educating the school children about the positives and negatives of social media- Higher studies after +2.

UNIT II: HEALTH AND HYGIENE GROUP:

Doing a survey on health problems - organizing medical camps and talks - organizing basic medical check-ups, conducting health and hygiene talk by B. Voc students of JAC to the adopted villages- Balance diet, orientation about home nurse- rapport with Government and NGO's

UNIT III: LIAISON GROUP & PEOPLE ORGANIZATION GROUP:

Motivating workers to access government savings schemes with unorganised sectors- celebrating important days - Services offered in E- Sevai centres- organizing income generation skill training for self-help groups. organizing population education programmes - conducting awareness programmes on emerging social issues - rapport with non-governmental organizations and local bodies to ensure the development of the villages - organizing youth, farmers and self-help group to function democratically-

UNIT IV: ENVIRONMENTAL GROUP:

Tree and sapling plantation - promotion of Herbal Gardens - observing environmental-related days -awareness campaign to educate the villagers to protect the environment.

UNIT V: APPLICATION OF KNOWLEDGE:

Conducting Special Skill Training for self-employment based on discipline to the target group with the help of NGO's and government organizations - awareness on social media.

BOOKS FOR REFERENCE:

1. Higher studies after +2
2. Services offered in E- Sevai services
3. பிறப்பு முதல் இறப்பு வரை அரசு ஆவணங்கள்/ சேவைகள் வழிகாட்டு கையேடு
4. அரசு நலத்திட்ட உதவிகள் தகவல் கையேடு
5. வருவாய் மற்றும் பேரிடர் மேலாண்மை துறை மூலம் பொது மக்களுக்கு இ சேவை வழியாக இணையதள மின் சேவை

SCHEME OF EVALUATION

Continuous Internal Assessment		
1.	Attendance (60 hours)	10 Marks
2.	Field Visit & Report	50 marks
3.	Assignment	40 Marks
Total		100 marks

COST ACCOUNTING - II

Semester: VI

Hours: 5

Code : 23CC6MC13

Credit: 4

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Grasp and understand the basic concepts of Cost Accounting and its standards.	PSO - 1	K1
CO - 2	Classify the various types of costing.	PSO - 3	K2
CO - 3	Utilize a range of methodologies in cost analysis.	PSO - 2	K3
CO - 4	Inspect strategies for controlling costs.	PSO - 5	K4
CO - 5	Assess and evaluate the tools utilized for calculating variances.	PSO - 4	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: VI		COST ACCOUNTING- II										Hours: 5
Code : 23CC6MC13												Credit: 4
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	2	3	3	3	3	5	3	2	3	3	3.18
CO - 2	3	5	3	3	3	2	3	3	5	2	3	3.18
CO - 3	2	2	5	3	5	3	2	5	2	3	3	3.18
CO - 4	3	3	2	5	2	4	3	2	3	4	5	3.27
CO - 5	3	2	3	3	3	5	3	3	2	5	3	3.18
Overall Mean Score												3.20

Result: The score for this course is **3.20** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

An Introduction to Cost Accounting System - 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. **(15 Hours)**

UNIT II

Definition - Features of Contract costing - Calculation of Profit on Contracts -Cost plus Contract - Contract Costing and job Costing - A comparison - Preparation of Contract A/c. **(15 Hours)**

UNIT III

Process Costing - Meaning - Features of Process Costing -Application of Process Costing -Fundamental principles of process costing - Treatment of Loss and Gain: Normal and Abnormal Loss -Abnormal Gain -Joint Products, By Products - Concept of Equivalent Production - Process Accounts -Process Losses and Gains. **(15 Hours)**

UNIT IV

Operation Costing - Meaning - Preparation of Operation Cost Sheet - Transport Costing - Power Supply Costing - Simple Problems. **(15 Hours)**

UNIT V

Definition - Objectives - Advantages - Standard Cost and Estimated Cost - Installation of Standard Costing -Variance analysis -Material, Labour, Overhead, and Sales Variances - Calculation of Variances. **(15 Hours)**

COURSE BOOKS:

1. Jain S.P. and Narang K.L, Cost Accounting, Kalyani Publishers, New Delhi, 2014.
2. Khanna B.S., Pandey I.M., Ahuja G.K., and Arora M.N., Practical Costing, S Chand & Co, New Delhi, 2010.
3. Dr.S.N. Maheswari, Principles of Cost Accounting, Sultan Chand publications, New Delhi, 2008.
4. T.S. Reddy and Y. Hari Prasad Reddy, Cost Accounting, Margham publications, Chennai, 2020.
5. S.P. Iyengar, Cost Accounting, Sultan Chand & Sons, New Delhi, 2023.

BOOKS FOR REFERENCE:

1. Polimeni, Cost Accounting: Concepts and Applications for Managerial Decision Making, McGraw - Hill, New York, 2022.
2. Jain S.P. and Narang K.L..Cost Accounting, Kalyani Publishers, New Delhi, 2013.
3. V.K. Saxena and C.D. Vashist, Cost Accounting, Sultan Chand & Sons, New Delhi, 2010.
4. Murthy A & Gurusamy S, Cost Accounting, Vijay Nicole Imprints Pvt. Ltd., Chennai, 2010.
5. Prasad. N.K and Prasad.V.K, Cost Accounting, Book Syndicate, Bangladesh, 2017.

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>

Note: Part A- MCQ, Part B& Part C- Only problems

MANAGEMENT ACCOUNTING

Semester: VI

Hours: 4

Code : 23CC6MC14

Credit: 3

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Grasp the fundamental principles of Management Accounting.	PSO -1	K1
CO - 2	Compute accounting ratios to determine the financial position of a firm.	PSO - 4	K2
CO - 3	Distinguish between Fund Flow Statements and Cash Flow Statements.	PSO - 2	K3
CO - 4	Create diverse budgets to analyze the expenditures and revenues of a firm.	PSO - 5	K4
CO - 5	Assess and Evaluate organizational operations and offer suggestions for improvement using management accounting techniques.	PSO - 3	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: VI				MANAGEMENT ACCOUNTING								Hours: 4
Code : 23CC6MC14												Credit: 3
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	4	3	4	3	3	5	3	4	3	4	3.73
CO - 2	4	3	3	3	3	5	4	3	3	5	3	3.55
CO - 3	3	3	5	3	5	3	3	5	3	3	3	3.55
CO - 4	4	3	3	5	3	3	4	3	3	3	5	3.55
CO - 5	3	5	4	3	4	3	3	4	5	3	3	3.64
Overall Mean Score												3.60

Result: The score for this course is **3.60** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Management Accounting -Meaning - Scope -Importance-Limitations -Management Accounting Vs Cost Accounting -Management Accounting Vs Financial Accounting.

(12 Hours)

UNIT II

Analysis and Interpretation of Financial Statements -Nature and Significance -Types of Financial Analysis - Tools of Analysis - Comparative Statements - Common size Statements - Trend Analysis. Ratio Analysis: Meaning - Advantages - Limitations - Types of Ratios - Liquidity Ratios - Profitability Ratios - Turnover Ratios - Capital Structure Ratios - Leverage Ratios -preparation of financial statements from Ratios.

(12 Hours)

UNIT III

Introduction, Meaning of Funds Flow Statements -Ascertainment of flow of funds - Technique of preparing fund flow statement -Schedule of Changes in Working Capital-Adjusted Profit and Loss account -preparation of Funds Flow Statement Meaning of Cash Flow Statements - Advantages -Limitations -Preparation of Cash Flow Statement -Types of Cash flows - Operating, Financing and Investing Cash flows.

(12 Hours)

UNIT IV

Budgetary Control - Meaning - Preparation of various Budgets - Cash Budget-Flexible Budget - Production Budget - Sales Budget.

(12 Hours)

UNIT V

Marginal Costing-Meaning - Features - 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- Break Even Point - Decision Making: Selection of a Product Mix - Make or Buy Decision - Discontinuance of a product line - Change or Status quo - Limiting Factors - Exploring New Markets.

(12 Hours)

COURSE BOOKS:

1. Jain S.P. & Narang K.L., Cost and Management Accounting, Kalyani Publications, 2018.
2. Rds. Maheswari, Cost and Management Accounting, Sultan Chand & Sons Publications, New Delhi, 2013.
3. Sharma and Shashi K. Gupta, Management Accounting, Kalyani Publishers, Chennai, 2010.
4. Jenitra L Mervin, Dasilton L Cecil, Management Accounting, Lerantec Press, Chennai, 2010.
5. T.S.Reddy & Y. Hari Prasad Reddy, Management Accounting, Margham Publications, Chennai, 2016.

REFERENCE BOOKS:

1. Chadwick, The Essence of Management Accounting, Financial times publications, Mumbai, 2021.
2. Charles T.Horngren and Gary N.Sundem, Introduction to Management Accounting, Chennai, 2007.
3. Murthy A and Gurusamy S, Management Accounting- Theory & Practice, Vijay Nicole Imprints Pvt. Ltd., Chennai, 2012.
4. Hansen Mowen, Cost Management Accounting and Control, South Western College, India, 2007.
5. N.P. Srinivasan, Management Accounting, New Age Publishers, Chennai, 2018.

WEB RESOURCES:

1. <https://www.accountingnotes.net/companies/fund-flow-analysis/fund-flow-analysis-accounting/13300>
2. <https://accountingshare.com/budgetary-control/>
3. <https://www.investopedia.com/terms/m/marginalcostofproduction.asp>

Note: Part A- MCQ, Part B& Part C- Only problems

INCOME TAX LAW AND PRACTICE - II

Semester: VI

Hours: 4

Code : 23CC6MC15

Credit: 3

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Grasp and acquire the knowledge about the basic principles and concepts of Income tax	PSO - 1	K1
CO - 2	Manage capital gains, diverse income streams, utilize loss carryforwards, conduct individual assessments, and interface with tax authorities.	PSO - 2	K2
CO - 3	Work out the capital gains, income from other sources, 80G total income and due dates of filing	PSO - 3	K3
CO - 4	Analyze and explore the permissible exemption and deductions from income of various accesses under Income Tax	PSO - 5	K4
CO - 5	Gain understanding of income tax legislation and its application in practice	PSO - 4	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: VI		INCOME TAX LAW AND PRACTICE - II										Hours: 4
Code : 23CC6MC15												Credit: 3
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	3	3	3	3	4	5	3	3	4	3	3.55
CO - 2	3	4	5	3	5	3	3	5	4	3	3	3.73
CO - 3	3	5	3	3	3	4	3	3	5	4	3	3.55
CO - 4	4	3	3	5	3	3	4	3	3	3	5	3.55
CO - 5	3	4	3	4	3	5	3	3	4	5	4	3.73
Overall Mean Score												3.62

Result: The score for this course is **3.62** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Capital Gains - Kinds of Capital Assets - Computation of Capital Gains - Exemption under Section 54, 54B, 54D, 54EC, 54F, 54GA. **(12 Hours)**

UNIT II

Income from Other Sources - Income Chargeable to Tax under the Head Income from Other Sources - Procedures for Computing Income from Other Sources - Deductions Allowed - Deduction not Allowed - Problems on Computation of Income from Other Sources. **(12 Hours)**

UNIT III

Provisions for Set-off and Carry Forward of Losses (Simple Problems). Deductions U/S 80C, 80CC, 80CCB, 80CCC, 80CCD, 80 CCE, 80D, 80DD, 80DDB, 80E, 80EE, 80EEA, 80EEB, 80G, 80GG, 80GGA, 80TTA, 80TTB, and 80U only. **(12 Hours)**

UNIT IV

Assessment: Meaning and Types, Computation of Total Income and Tax Liability of an Individuals (simple problems in case of Income from salaries, HP and Profits and Gains - computed income may be given). **(12 Hours)**

UNIT V

Administration of Income Tax Act - Income Tax Authorities - Powers of CBDT - Powers of Income - Tax Officers - Procedures for Assessment - Filing of Return - Due Dates of Filing - Voluntary Filling - Return of Loss - Related Return - Defective Return - Signing of Return - Permanent Account Number (PAN). **(12 Hours)**

COURSE BOOKS:

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, SahityaBhavan Publications, Agra.
5. T. Srinivasan, Income Tax &Practice, Vijay Nicole Imprints Private Limited, Chennai.

BOOKS FOR REFERENCE:

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. Singhanian, Students Guide to Income Tax.,U.K. Bharghava Taxman, New Delhi.
4. Dr.Vinod K Singhanian, Dr. Monica Singhanian, 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.

WEB RESOURCES:

1. <https://www.investopedia.com/terms/c/capitalgain.asp>
2. <https://www.incometaxmanagement.com/Direct-Taxes/AY-2021-22/assessment/1-assessment-of-an-individual.html>
3. <https://www.incometax.gov.in/iec/foportal/>

Note: Part A MCQ, Part B& Part C- Only problems

ACCOUNTING SOFTWARE (TALLY)

Semester: VI

Hours: 6

Code : 23CC6CP02

Credit: 5

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Understand the basic techniques of accounting software.	PSO - 1	K1
CO - 2	Describe the procedure of voucher entries in accounting software.	PSO - 2	K2
CO - 3	Make use of the software to calculate TDS and TCS.	PSO - 4	K3
CO - 4	Analyze the record inventory vouchers.	PSO - 3	K4
CO - 5	Evaluate the voucher classes and tax computation.	PSO - 5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: VI		ACCOUNTING SOFTWARE (TALLY)										Hours: 6
Code : 23CC6CP02												Credit: 5
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	3	4	3	4	3	5	4	3	3	3	3.64
CO - 2	3	3	5	3	5	3	3	5	3	3	3	3.55
CO - 3	3	3	4	3	4	5	3	4	3	5	3	3.64
CO - 4	3	5	3	4	3	3	3	3	5	3	4	3.55
CO - 5	4	3	4	5	4	3	4	4	3	3	5	3.82
Overall Mean Score												3.64

Result: The score for this course is **3.64** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Accounting Package Accounting packages: computerized accounting - meaning and features - advantages and disadvantages - computerized vs manual accounting - creating of company- grouping of accounts - creation accounts and inventory - entering transactions: Vouchers- types - numbering - deleting and editing vouchers - opening and closing balances - stock valuation. **(18 Hours)**

UNIT II

Computerized Accounting Computerized Accounting: computers and financial application, accounting software packages. An over view of computerized accounting system- salient features and significance, concept of grouping of accounts. Codification of accounts, maintaining the hierarchy of ledger, generating accounting reports. **(18 Hours)**

UNIT III

Introduction to Tally ERP 9.1 TallyERP9.1:Introduction to tally-starting tally-gateway of tally and exit from tally-Items in Tally Screen-Menu Options company creation in tally, saving the Company profile .Alteration/deletion of company- Basic Currency Information - selection of company; account groups and ledgers - Company Features and Inventory Features. **(18 Hours)**

UNIT IV

Working In Tally Creation of Company-journal entry Ledger-writing vouchers. Different types of Vouchers correcting Sundry Debtors and Sundry Creditors Accounts- Trial Balance- Accounting Books, cash book, Bank Book, Ledger Accounts, Group Summary, Sales Register and Purchase Register, Statement of Accounts & Balance sheet **(18 Hours)**

UNIT V

Reports in Tally-Preparation of Final Accounts- Output report - basic features of displaying reports Printing reports- other options- Display of account bookstand statement, viewing cash/bank books, Configure balance sheet, integrating accounts with inventory, GST Calculations - Preparation of Profit and Loss accounts and other reports **(18 Hours)**

LAB EXERCISES:

1. Tally introduction
2. Company creation
3. Creation of groups, ledger, single and multiple
4. Creation of cost category and cost centers
5. Creation of vouchers
6. Preparation of trial balance
7. Preparation of final accounts with adjustments
8. Creation of stock groups, stock category and stock items
9. Entering data in stock groups of a departmental store
10. Statement of stock summary
11. Bank Reconciliation Statement
12. Creation purchase and sales orders
13. Payroll
14. Tax Deducted at Source
15. Tax Collected at Source
16. Goods and service tax

COURSE BOOK:

1. Dr. G. John, Tally Primer, JITE Publications, 2024.

BOOK FOR REFERENCE:

1. N. Lavaanyalakshmi, Computerised Accounting Package Tally - Margham Publisher, Chennai, 2022,
2. A.K. Nandhani & K.K. Nandhani, BPB Implementing Tally, BPB Publications, New Delhi, 2010.
3. Lodha Roshan, Tally Prime with GST Accounting, Law Point Publication, Kolkata 2022.
4. Er. Soumya Ranjan Behera, Tally.ERP 9 with GST, B.K. Publication, Chennai, 2017.
5. Asok K. Nadhani, Tally. ERP 9 Training Guide, BPB Publication, New Delhi, 2018.

WEB RESOURCES:

1. <https://www.tallyclub.in/>
2. <https://tallysolutions.com/business-guides/inventory-management-in-tally-erp9/>
3. <https://www.toppr.com/guides/accounting-and-auditing/computerised-accounting-environment/intro-to-tally/>

PRACTICAL:

Continuous Internal Assessment (CIA) - 40 Marks

External Practical Exam

- 60 Marks

PROJECT

Semester: VI

Hours: 4

Code : 23CC6PR01

Credit: 3

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Identify a problem in their respective field.	PSO 1	K1
CO - 2	Understand the various steps involved in solving the problem.	PSO 2	K2
CO - 3	Apply various skills to solve the problem.	PSO 3	K3
CO - 4	Interpret their findings in the respective field.	PSO 4	K4
CO - 5	Present the outcome of their project.	PSO 5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: VI		PROJECT										Hours: 4
Code : 23CC6PR01												Credit: 3
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	3	3	3	3	3	5	3	3	3	3	3.36
CO - 2	4	3	5	3	5	3	4	5	3	3	3	3.73
CO - 3	3	5	3	3	3	3	3	3	5	3	3	3.36
CO - 4	3	3	3	3	3	5	3	3	3	5	3	3.36
CO - 5	3	3	3	5	3	4	3	3	3	4	5	3.55
Overall Mean Score												3.47

Result: The score for this course is **3.47** (High relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

PHP Theory and Lab

Semester: VI

Hours: 3

Code : 23CC6DE3A

Credit: 2

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO-1	Grasp the knowledge and implement the program control flow.	PSO-1	K1
CO-2	Understand the working with Arrays	PSO-2	K2
CO-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.	PSO-4	K3
CO-4	Develop a MySQL database and establish connectivity using MySQL.	PSO-3	K4
CO-5	Analyze and evaluate the ramifications of database data addition and modification using SQL.	PSO-5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: VI		PHP										Hours: 3
Code : 23CC6DE3A												Credit: 2
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO-1	5	3	3	3	3	3	5	3	3	3	3	3.36
CO-2	3	2	5	2	5	3	3	5	2	3	2	3.18
CO-3	4	3	3	3	3	5	4	3	3	5	3	3.55
CO-4	3	5	3	3	3	3	3	3	5	3	3	3.36
CO-5	3	3	3	5	3	4	3	3	3	4	5	3.55
Overall Mean Score												3.40

Result: The Score for this course is **3.40** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Introducing PHP - Basic development Concepts - Creating first PHP Scripts - Using Variable and Operators - Storing Data in variable - Understanding Data types - Setting and Checking variables Data types - Using Constants - Manipulating Variables with Operators. **(3 Hours)**

UNIT II

Controlling Program Flow: Writing Simple Conditional Statements - Writing More Complex Conditional Statements - Repeating Action with Loops - Working with String and Numeric Functions. **(3 Hours)**

UNIT III

Working with Arrays: Storing Data in Arrays - Processing Arrays with Loops and Iterations -Using Arrays with Forms - Working with Array Functions - Working with Dates and Times. **(3 Hours)**

UNIT IV

Using Functions and Classes: Creating User-Defined Functions - Creating Classes - Using Advanced OOP Concepts. Working with Files and Directories: Reading Files- writing Files Processing Directories. **(3 Hours)**

UNIT V

Working with Database and SQL: Introducing Database and SQL- Using MySQL- Adding and modifying Data-Handling Errors - Using SQLite Extension and PDO Extension. **(3 Hours)**

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 e-mail addresses 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.

COURSE BOOKS:

1. VikramVaswani, "PHP A Beginner's Guide", Tata McGraw Hill New Delhi, 2008.
2. Steven Holzner, "The PHP Complete Reference", Tata McGraw Hill, New Delhi, 2007.
3. Steven Holzer , "Spring into PHP", Tata McGraw Hill, 5thEdition New Delhi, 2011

REFERENCE BOOKS:

1. RasmusLerdorf, Kevin Tatroe, Bob Kaehms, PHP Programming,
2. Leon Atkinson "Core PHP Programming", Prentice Hall, ISBN0130463469.
3. W. Jason Gilmore, "Beginning PHP5 and MySQL: From Novice to Professional", 2004, A press, ISBN:1- 893115-51-8

NOTE: Latest Edition of Textbooks May be Used

Web Resources:

1. <https://www.w3schools.com/php/>
2. <https://www.phppoint.com/php-tutorial-pdf/>
3. <http://www.xmlsoftware.com/>

Evaluation Pattern:**Internal Components for Practical**

Components	Blooms level	Marks Distribution
Lab Attendance	K1	5
Record	K2	5
Lab work	K3	10
Internal test(2)	K4	10
VIVAVOCE	K5	10
Total		40

External Components for Practical

Components	Blooms level	Marks Distribution
Lab Activity	K1	5
Procedure	K2	10
Execution	K3	10
Output	K4	10
VIVAVOCE	K5	25
Total		60

CRYPTOGRAPHY AND NETWORK SECURITY

Semester: VI

Hours: 3

Code : 23CC6DE3B

Credit: 2

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO-1	Identify various security attacks, services, and mechanisms.	PSO-1	K1
CO-2	Interpret the mathematics of asymmetric key cryptography and various asymmetric key ciphers like RSA and ElGamal.	PSO-2	K2
CO-3	Apply algebraic structures and modular arithmetic in symmetric key cryptography.	PSO-3	K3
CO-4	Compare and contrast different authentication methods and protocols.	PSO-4	K4
CO-5	Design secure communication systems using symmetric and asymmetric key cryptography.	PSO-5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: VI		CRYPTOGRAPHY AND NETWORK SECURITY										Hours: 3
Code : 23CC6DE3B												Credit: 2
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO-1	5	3	3	3	3	3	5	3	3	3	3	3.36
CO-2	3	3	5	3	5	2	3	5	3	2	3	3.36
CO-3	3	5	2	4	2	3	3	2	5	3	4	3.27
CO-4	3	3	4	3	4	5	3	4	3	5	3	3.64
CO-5	2	3	3	5	3	3	2	3	3	3	5	3.18
Overall Mean Score												3.36

Result: The Score for this course is **3.36** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Security trends - Legal, Ethical and Professional Aspects of Security, Need for Security at Multiple levels, Security Policies - Model of network security - Security attacks, services and mechanisms - OSI security architecture - Classical encryption techniques: substitution techniques, transposition techniques, steganography- Foundations of modern cryptography: perfect security - information theory - product cryptosystem - cryptanalysis. **(9 hours)**

UNIT II

Mathematics of Symmetric Key Cryptography: Algebraic structures - Modular arithmetic-Euclid's algorithm- Congruence and matrices -Groups, Rings, Fields- Finite fields- SYMMETRIC KEY CIPHERS: SDES - Block cipher Principles of DES - Strength of DES - Differential and linear cryptanalysis - Block cipher design principles - Block cipher mode of operation - Evaluation criteria for AES - Advanced Encryption Standard - RC4 - Key Distribution. **(9 Hours)**

UNIT III

Mathematics of Asymmetric Key Cryptography: Primes - Primality Testing - Factorization - Euler's totient function, Fermat's and Euler's Theorem - Chinese Remainder Theorem - Exponentiation and logarithm - ASYMMETRIC KEY CIPHERS: RSA cryptosystem - Key distribution - Key management - Diffie Hellman key exchange -ElGamal cryptosystem - Elliptic curve arithmetic-Elliptic curve cryptography. **(9 Hours)**

UNIT IV

Authentication requirement - Authentication function - MAC - Hash function - Security of hash function and MAC - SHA -Digital signature and authentication protocols - DSS- Entity Authentication: Biometrics, Passwords, Challenge Response protocols- Authentication applications - Kerberos, X.509 **(9 Hours)**

UNIT V

Electronic Mail security - PGP, S/MIME - IP security - Web Security - SYSTEM SECURITY: Intruders - Malicious software - viruses - Firewalls. **(9 Hours)**

COURSE BOOKS:

1. William Stallings, "Cryptography and Network Security - Principles and Practices", Prentice Hall of India, Third Edition, New Delhi, 2003
2. Atul Kahate, "Cryptography and Network Security", Tata McGraw-Hill, New Delhi, 2003.
3. Bruce Schneier, "Applied Cryptography", John Wiley & Sons Inc, New Jersey, 2001.

BOOKS FOR REFERENCE

1. Charles B. Pfleeger, Shari Lawrence Pfleeger, "Security in Computing", Third Edition, Pearson, Education, Bombay 2003
2. William Stallings, Cryptography and Network security, Hardcover, 2016

NOTE: Latest Edition of Textbooks May be Used

WEB RESOURCES:

1. <https://www.google.co.in/books/edition/Cryptography and Network Security/v8nCCwAABAJ?hl=en&gl=in&kptab=editions&sa=X&ved=2ahUKEwiDnLTgxoP8AhXbpVYBHd18CggOmBZ6BAgBEAc>
2. https://www.google.co.in/books/edition/Cryptography And Network Security/4E/qKcrce0x_2YC?hl=en&gbpv=1&dq=cryptography%20and%20network%20security&pg=PP1&printsec=frontcover
3. <https://www.google.co.in/books/edition/Introduction to Cryptography and Network/JGPDxwEACAAJ?hl=en>

INTRODUCTION TO ERP

Semester: VI

Hours: 3

Code : 23CC6DE3C

Credit: 2

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Acquire the basic knowledge about the ERP and its risks and benefits	PSO-1	K1
CO - 2	Briefly understand ERP solutions and functional modules	PSO-2	K2
CO - 3	Apply the post implementation and maintenance of ERP	PSO-3	K3
CO - 4	Analyze the ERP implementation	PSO 4	K4
CO - 5	Evaluate the benefits and challenges of emerging trends in ERP	PSO-5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: VI		INTRODUCTION TO ERP										Hours: 3
Code : 23CC6DE3C												Credit: 2
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	5	3	3	3	3	3	5	3	3	3	3	3.36
CO - 2	3	3	5	3	5	2	3	5	3	2	3	3.36
CO - 3	3	5	3	4	3	3	3	3	5	3	4	3.55
CO - 4	3	3	4	3	4	5	3	4	3	5	3	3.64
CO - 5	3	3	3	5	3	3	3	3	3	3	5	3.36
Overall Mean Score												3.45

Result: The score for this course is **3.45** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Introduction: Overview of enterprise systems ñ Evolution - Risks and benefits - Fundamental technology - Issues to be consider in planning design and implementation of cross functional integrated ERP systems **(9 Hours)**

UNIT II

ERP Solutions and Functional Modules: Overview of ERP software solutions- Small, medium and large enterprise vendor solutions, BPR and best business practices - Business process Management, Functional modules **(9 Hours)**

UNIT III

ERP Implementation: Planning Evaluation and selection of ERP systems - Implementation life cycle - ERP implementation, Methodology and Frame work- Training ñ Data Migration - People Organization in implementation-Consultants, Vendors and Employees. **(9 Hours)**

UNIT IV

Post Implementation: Maintenance of ERP- Organizational and Industrial impact; Success and Failure factors of ERP Implementation. **(9 Hours)**

UNIT V

Emerging Trends on ERP: Extended ERP systems and ERP add-ons - CRM, SCM, Business analytics - Future trends in ERP systems-web enabled, Wireless technologies, cloud computing. **(9 Hours)**

COURSE BOOKS:

1. Alexis Leon, ERP demystified, second Edition Tata McGraw-Hill, New Delhi, 2009
2. Sinha P. Magal and Jeffery Word, Essentials of Business Process and Information System, Wiley, New Jersey, 2012
3. Jagan Nathan Vaman, ERP in Practice, Tata McGraw-Hill, New Delhi, 2008

BOOKS FOR REFERENCE:

1. Alexis Leon, Enterprise Resource Planning, second edition, Tata McGraw-Hill, New Delhi , 2008
2. Mahadeo Jaiswal and Ganesh Vanapalli, ERP Macmillan India, Bombay 2009
3. Vinod Kumar Grag and N.K. Venkita krishnan, ERP- Concepts and Practice, PHI, Delhi 2006

NOTE: Latest Edition of Textbooks May be Used

Web Resources

1. https://www.google.co.in/books/edition/Enterprise_Resource_Planning/Z0M8BAAQBAJ?hl=en&gbpv=1&dq=Introduction%20to%20ERP&pg=PP1&printsec=frontcover
2. https://www.google.co.in/books/edition/Enterprise_Resource_Planning_Systems/7fzMFGtCmkC?hl=en&gbpv=1&dq=Introduction%20to%20ERP&pg=PP1&printsec=frontcover
3. https://www.google.co.in/books/edition/Enterprise_Resource_Planning/oTS-aoVMsykC?hl=en&gbpv=1&pg=PP1&printsec=frontcover

ENTREPRENEURIAL DEVELOPMENT

Semester: VI

Hours: 4

Code : 23SE6CC04

Credit: 2

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO-1	Recall the qualities of successful entrepreneurs and to Identify different types of entrepreneurs.	PSO - 1	K1
CO-2	Understand the systematic process to select and screen a business idea	PSO - 2	K2
CO-3	Develop a business idea and create a basic business plan.	PSO - 3	K3
CO-4	Analyze the impact of different funding and financial institutions on entrepreneurship growth	PSO - 4	K4
CO-5	Evaluate the success factors and potential pitfalls of different business models.	PSO - 5	K5

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Semester: VI		ENTREPRENEURIAL DEVELOPMENT #										Hours: 4
Code : 23SE6CC04												Credits: 2
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO-1	5	4	3	3	3	3	5	3	4	3	3	3.55
CO-2	3	3	5	3	5	3	3	5	3	3	3	3.55
CO-3	3	5	4	3	4	3	3	4	5	3	3	3.64
CO-4	3	3	4	3	4	5	3	4	3	5	3	3.64
CO-5	3	4	3	5	3	4	3	3	4	4	5	3.73
Overall Mean Score												3.62

Result: The score for this course is **3.62** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of COs = $\frac{\text{Total of Values}}{\text{Total No. of POs \& PSOs}}$	Mean Overall Score for COs = $\frac{\text{Total of Mean Scores}}{\text{Total No. of COs}}$
--	--

UNIT I

Entrepreneurship - Meaning - Characteristics of an Entrepreneur - Qualities of Entrepreneurs - Kinds of Entrepreneurs - Factors Affecting Growth of Entrepreneurship - Internal, External, Socio, Demographic, Political and Economic
(12 Hours)

UNIT II

Business idea - Form of Ownership - Sole Proprietorship - Partnership - Private and Public limited company - Preparation of detail Project Report - Government Clearance.
(12 Hours)

UNIT III

Entrepreneurship Development Programme (EDP) - Objective - Phases of EDP - Institution for Entrepreneurship Development - Selection and Training - Women Entrepreneurship - Problems of Women Entrepreneurship.
(12 Hours)

UNIT IV

Project identification - Meaning of Project - Classification - Sources of Project Ideas - Project Formulation - Project Report - Meaning - Contents - Types - Steps in Preparation - Qualities of a good Report.
(12 Hours)

UNIT V

Institutional support to Entrepreneurs - Institutions at National Level - Industry Associations - Industry Related Research Institutions - Specialised Training Institutes - Institutions at Tamil Nadu - SFCs - SIDBI - Commercial Banks.
(12 Hours)

COURSE BOOK:

1. E. Gordon, K. Natarajan, "Entrepreneurship Development" Himalaya Publishing House, Mumbai 2020.

BOOKS FOR REFERENCE:

1. Khanka S.S., "Entrepreneurial Development", S. Chand & Co. Ltd. Ram Nagar New Delhi, 2013.
2. Desai Vasant, "Entrepreneurial Development and Management", Himalaya Publishing House, New Delhi, 2014.
3. Dr. Satish Taneja, "Entrepreneur Development" Himalaya Publishing House, New Delhi, 2012.
4. Jayshree Suresh "Entrepreneurial Development", Margham Publishers, Chennai, 2013

DIGITAL MARKETING

Semester: VI

Code : 23CC6SS01

Credits: 2*

LEARNING OUTCOMES:

1. To Acquire the knowledge of Digital marketing and media concepts.
2. To Understand to the run advertisements on Search Engines
3. To Apply communication strategies to influence behavior positively in a given context.
4. To Analyze cross-cultural and ethical issues in globalized digital markets
5. To build the users lists, deliver e-mails & generate relevant clicks

UNIT I

Basic of Online Marketing - Difference of Internet Marketing vs Traditional Marketing - Search Engine Basics - Key points of internet marketing - Basic terms used in internet marketing - Effective platforms for promotions - Why people moving in digital marketing? - Structure of Online Marketing.

UNIT II

What is Google Adwords - Google Ads Campaign - Search Campaign - Sale Campaign - Banner and Search Ads - Keyword Understanding - Creating successful ads.

UNIT III

Introduction to Social Media Marketing - Facebook Marketing - Facebook Campaign Creation - Facebook for lead generation - Instagram Marketing - Instagram Promotion or ad creation - Youtube Introduction - Understanding Youtube Algorithm - Growing Youtube Channel - LinkedIn Marketing - Twitter Marketing.

UNIT IV

Introduction to Email Marketing - Creating newsletter for Emails - Increasing open rate of Emails - Sending Bulk Emails - Using auto responder - Email Marketing Tools.

UNIT V

Introduction of Online Reputation Management - Reputation Problems -Eliminating Negative Websites - Consumer Complaint Sites

COURSE BOOK

1. Damian Ryan, Understanding Digital Marketing: Marketing Strategies for Engaging the Digital Generation, Kogan Page; 4 edition, Head quarters at London, branch at Delhi, 2016.

REFERENCE BOOKS:

1. Eric Morrow, Shannon Chirone, Digital Marketing for Everyone: Connect With Your Customers, Grow Your Business & Demystify Social Media, Create Space Independent Publishing Platform, Scotts Valley, California, 2020

WEB REFERENCES

1. <https://www.disruptiveadvertising.com/marketing/digital-marketing/>
2. https://en.wikipedia.org/wiki/Digital_marketing
3. <https://www.digitalmarketer.com/digital-marketing/>

PRINCIPLES OF INSURANCE

Semester: VI

Code : 23CC6SS02

Credits: 2*

LEARNING OUTCOMES:

1. To Acquire the basic knowledge of insurance
2. To Be aware of Life Insurance policies
3. To Develop the understanding of fire insurance and Marine Insurance concept
4. To analyze the various kinds of insurance
5. To Learn and evaluate the concept of agent

UNIT I

Introduction to Insurance - Meaning, Definition of insurance - General principles of insurance - Types of insurance life, fire and marine - Difference between life and other types of insurance, Growth & Development of Indian insurance industry - Regulations of insurance business and the emerging scenario.

UNIT II

Life Insurance - Introduction to life insurance: Features of life insurance - Essentials of life insurance, Different types of life policies - Annuities, Formation of life insurance contracts, Assignment and nominations - Lapses and revivals of policies. Surrender value, paid up value, Loans - Claims - Procedure for claims - Settlement of claims - Death and Maturity.

UNIT III

Fire Insurance - Fire insurance contracts - Fire insurance coverage - Policies for stocks - Rate fixation in fire insurance - Settlement of claims. Marine Insurance - Functions - Marine perils - Types of marine policies - Clauses in general use - Warranties and conditions proximate cause - Subrogation and conciliation - Re-insurance - Double insurance - Types of marine losses.

UNIT IV

Miscellaneous Insurance - Motor insurance - Employer's liability insurance - Personal accident and sickness insurance - Aviation insurance - Burglary insurance - Fidelity guarantee insurance - Engineering insurance - Cattle insurance - Crop insurance.

UNIT V

Procedure for becoming an Agent - Pre-requisite for obtaining a license - Duration of license - Cancellation of license - Termination of agency - Code of Conduct - Functions of the Agent.

COURSE BOOKS:

1. Fundamentals of Insurance - Dr. Periyasamy, Himalaya Publishing Pvt Ltd, Mumbai, 2013
2. Insurance principles and practice - Moorthy. A, Margham publications, Chennai. 2015
3. Fundamentals of insurance - Dr. P. K. Guptha, Margham publications, Chennai, 2017

BOOKS FOR REFERENCE:

1. Insurance principles and practice - Periasamy. P, Margham publications, Chennai, 2018
2. Insurance principles and practice - Mishra. M. N, Sultan Chand & Sons, New Delhi, 2021
3. Insurance principles and practice - Balu. V. & Premilan, Margham publications, Chennai, 2014

WEB RESOURCES

1. <https://www.mcminnlaw.com/principles-of-insurance-contracts/>
2. <https://panfic.com/insurance-knowledge/prinsip-dasar-asuransi/>
3. <https://unacademy.com/content/ssc/study-material/general-awareness/principles-of-insurance/>

RISK MANAGEMENT

Semester: VI

Code : 23CC6SS03

Credits: 2*

LEARNING OUTCOMES:

1. To Acquire the knowledge about the handling & preventions of risk management
2. To Understand the process of managing risks by identifying and measuring potential challenges.
3. To Apply the concept of assignment in the context of life insurance policies in India.
4. To Analyze the significance and foundational principles of insurance.
5. To Evaluate comprehensive details and assurance related to general insurance.

UNIT I

Nature and scope of risk management - Methods of handling risks -Prevention of risk.

UNIT II

Reduction of risks - Shifting of risks - Acceptance of risks - Spreading of risks.

UNIT III

Meaning - Definition - Characteristics of insurance contract - Functions – Importance - Uses - Classification of insurance - Principles of insurance contract.

UNIT IV

Essentials - Classification - Assignment of life policies - LIC of India.

UNIT V

Fire - marine - Accidents - Health - Property - Vehicle -Bank assurance.

COURSE BOOK:

- ❖ Course Material prepared by the Department.

BOOKS FOR REFERENCE:

1. B. D. Bhargava, Principles of Insurance, Pearl Books, New Delhi, 2019.
2. M. N. Mishra & S. B. Mishra, Insurance Principles & Practice, S. Chand, New Delhi, 2013.
3. Dr. E. Dharmaraj, Elements of Insurance, Simres Publications, 2019.
4. Dr. N. R. Nagarajan, Principles and Practice of Insurance, M.M. Publishers, Erode 2020
5. Dr. P. Periasamy, Principles & Practice of Insurance, Himalya publishing House, New Delhi, 2019.

WEB RESOURCES:

1. <https://www.techtarget.com/searchsecurity/definition/What-is-risk-management-and-why-is-it-important>
2. <https://corporatefinanceinstitute.com/resources/career-map/sell-side/risk-management/risk-management/>

SERVICES MARKETING

Semester: VI

Code : 23CC6SS04

Credits: 2*

LEARNING OUTCOMES:

1. To acquire the concept of services and the nature & characteristics of services. Identify and describe the role of services in the economy.
2. To understand the growth of the service sector and its significance in the economy
3. To Apply the classification of services in real-world examples and Develop pricing strategies for specific types of services.
4. To Analyze the challenges faced by global service marketers in the international market.
5. To Develop innovative approaches for overcoming obstacles in service marketing

UNIT I

Services Marketing - introduction - growth of the service sector - the concept of services - definition of the services - nature of the services - characteristics of services - classification of services - need for services marketing - obstacles in service marketing - role of services in an economy.

UNIT II

Consumers in service industry - buyer characteristics - buyer decision making process - individual consumer and organizational consumer - Service marketing mix - the seven Ps: product decision, pricing - strategies and tactics, promotion of services and placing of distribution methods for services - additional dimension in service marketing - people - physical evidence and process.

UNIT III

Pricing in services - steps involved in pricing decisions - factors affecting pricing decisions - methods in pricing - pricing strategies - service promotion - promotion mix for services - advertising - steps in advertising process - direct marketing.

UNIT IV

Globalization of services in international market - introduction - challenges to global service marketers - successful global service marketing - typical international services - launching of services in the international market - strategic implications of international services marketing - global brand dominance in the service industries - globalization and corporate culture.

UNIT V

Bank marketing -tourism marketing-hospital marketing - airline marketing.

COURSE BOOK:

1. Vasanthi Venugopal & Raghu, Services Marketing, Margham Publications, Chennai, 2019.

BOOKS FOR REFERENCE:

1. Christopher Tovelock, Johan Writz, Jayant Chatterjee, Service Marketing People, Technology, Strategy, Pearson Publication, New Delhi, 2014.
2. Rajendra Nargundkar, Service Marketing - Text & Cases, Tata McGraw-Hill Publishing Company Limited, New Delhi, 2013.
3. Dr. L. Natarajan, Services Marketing, Margham Publications, Chennai, 2019.
4. Dr. S. Shajahan & P.K. Sinha & S. C. Sahoo - Text & Cases, Tata McGraw-Hill Publishing Company Limited, New Delhi, 2010.

WEB RESOURCES:

1. <https://www.pixel506.com/insights/services-marketing-characteristics-innovations-and-more>

PATTERN OF THE QUESTION PAPER- SELF STUDY PAPER (EXTERNAL)**Time: 3 Hours****Max. Marks: 100****PART-A**

Answer ANY Five out of Eight Questions

5 × 20 = 100

(At least one Question from Each unit)

SKILL DEVELOPMENT PROGRAMME (SDP)
(Certificate Course)

Code	Title of the Course	Hours	Credit
23CC1SD01	E - Banking	60	2
23CC1SD02	Customer Relationship Management	60	2
23CC1SD03	International Business	60	2

PATTERN OF THE QUESTION PAPER - SKILL DEVELOPMENT PROGRAMME
INTERNAL QUESTION PATTERN

PART - A

4 Questions × 5 marks = 20 Marks (out of 7 Questions)

PART - B

2 Questions × 10 marks = 20 Marks (out of 4 Questions)

Component	Marks	Marks
Internal test I	40	Converted to 25
Internal test II	40	
Quiz	10	
Assignment	5	
Attendance	5	
Total	100	25

EXTERNAL QUESTION PATTERN

PART - A

7 Questions × 5 marks = 35 Marks

(2 Questions from Each unit)

PART - B

4 Questions × 10 marks = 40 Marks (out of 8 Questions)

(At least one Question from Each unit)

SKILL DEVELOPMENT PROGRAMME (SDP)

E - BANKING

Semester: III & IV

Hours: 60

Code : 23CC1SD01

Credit: 2

LEARNING OUTCOMES:

1. To Explain electronic banking and commerce and what goes into electronic banking
2. To Acquire knowledge about e banking ATM, EFT Tele banking
3. To Understand of the different techniques of e-banking services.
4. To Gain knowledge and Apply e-banking security systems.
5. To Identify and Implement the components required e-builder solutions

UNIT I

Introduction to E- Banking- Informational web site -Transactional websites -E-Banking Components -E- banking support services - web linking -Account aggregation - Electronic Authentication- website Hosting. **(12 Hours)**

UNIT II

Internet and E- Banking - Growth in internet Banking - Types of internet banking- Risk Management- internal controls - issues in the internet banking. **(12 Hours)**

UNIT III

Electronic payment system - Electronic clearing system- RBI Projects - RTGS - CFMS - NDS - SFMS - INFINET-Payment systems- Agenda for implementation - programme for computerization and networking. **(12 Hours)**

UNIT IV

Indian financial network- VSAT technology -Electronic funds transfers - Procedural Guidelines for participating banks - admission necessary for participations - process flow - SEFT Scroll-NCC - Beneficiary Bank. **(12 Hours)**

UNIT V

RBI Guidelines for internet banking—Technology and security standards- PKI-FTP- SSL-DDoS & DoS- legal issues- regulatory and supervisory issues- Regulatory approach- **(12 Hours)**

COURSE BOOK

- ❖ Ravindra Kumar, Manish Despande , “E- Banking”- Pacific Books International, Delhi, 2012

BOOKS FOR REFERENCE:

1. Roger Hunt & John Shelly, Computers and Commonsens, 2011
2. Bhushan Dewan, E-Commerce, New Delhi, 2010
3. C.S. Rayudu, E-Business, Himalaya Publishing House. New Delhi, 2013

WEB RESOURCES:

1. <https://cleartax.in/glossary/e-banking-electronic-banking/>
2. <https://www.idfcfirstbank.com/finfirst-blogs/finance/what-is-e-banking>

CUSTOMER RELATIONSHIP MANAGEMENT

Semester: III & IV

Hours: 60

Code : 23CC1SD02

Credits: 2

LEARNING OUTCOMES:

1. To Discuss the objectives, ingredients and various types of Customer relationship Management.
2. To Explain about the customer relationships and relationship Management Theories.
3. To Identify the 21st Century customers and acquire the details of customer life cycle & types of customers.
4. To Understand the phases of customer development and strategies for customer acquisition & retention.
5. To Assess the emerging trends in CRM

UNIT I

Meaning - Definition - Ingredients of CRM- Objectives of CRM - Types of CRM: Strategic CRM - Operational CRM - Analytical CRM - Collaborative CRM.

(12 Hours)

UNIT II

Meaning - Evolution of Customer - Supplier Relationship - Relationship Management Theories: IMP Group - Nordic School - Anglo Australian School - North American School- Asian School.

(12 Hours)

UNIT III

Empowered Customer - Customer Life Cycle - Consumer vs. Customer - Types of Customers - Customer Orientation - Customer Management Strategies - Customer Acquisition.

(12 Hours)

UNIT IV

New Customers - Strategies for Customer Acquisition - Phases of Customer Development-- Strategies for Customer Retention-Strategies for Terminating Customer Relationship.

(12 Hours)

UNIT V

ECRM - Features of ECRM - Difference between CRM and ECRM - Future CRM Trends.

(12 Hours)

COURSE BOOK:

- ❖ Course Material will be provided by the Department.

BOOKS FOR REFERENCE:

1. Sheth J. N., Parvatiyar A. and Shainesh G. Customer Relationship Management: Emerging Concepts, Tools & Applications, Tata McGraw - Hill Education, New Delhi, 2011
2. Alok Kumar Rai, Customer Relationship Management: Concepts and Cases, Second Edition, PHI Learning, New Delhi, 2015

INTERNATIONAL BUSINESS

Semester: III & IV

Code : 23CC1SD03

Hours: 60

Credit: 2

LEARNING OUTCOMES:

1. To Acquire basic knowledge on international business.
2. To Understand the concept of international marketing.
3. To Acquire knowledge on export procedure.
4. To Comprehend the knowledge about the international logistics management.
5. To Be aware of WTO (World Trade Organization).

UNIT I

International Environment - International Business - Meaning Nature - Concept - Micro & Macro Environment - STEPIN: Social Environment - Technology Environment - Economical Environment Political Environment - International Environment - Natural Environment. **(12 Hours)**

UNIT II

International Marketing - Marketing- Marketing Mix - International Marketing - Stages of Internationalization - Global Marketing- Evolution of Global Marketing - Benefits of Global Marketing - Barriers to Global Marketing. **(12 Hours)**

UNIT III

Export Procedures & Documentation Import - Export - Types of Export - Steps for Exporting - Organizing yours self for export Registering firm - Basics documents needed for Export & Imports - IECRCMC-IMPORT LICENCE. **(12 Hours)**

UNIT IV

International Logistics Management - Introduction - Logistics Mission - Importance of Logistics - Components of Logistics Information- Demand Forecasting - Inventory Management Warehousing - Transportation - Packaging - Order processing - Sourcing & Supply Management **(12 Hours)**

UNIT V

GATT to WTO, Functions and Principles of WTO, WTO and Developing Countries. Dispute Settlement Mechanism. Recent Trade Rounds and Position of India. **(12 Hours)**

COURSE BOOK

❖ Course Material prepared by the Department

BOOKS FOR REFERENCE:

1. Ravindra Kumar, Manish Deshpande , "E- Banking"- Pacific Books International, New Delhi, 2012
2. Francies Cherunilam, "International Business - Text and Cases", PHI Pvt. Ltd, New Delhi. 2010.
3. V. K. Bhalla, S. Shiva Ramu, International Business, Environment and Management, Anmol Publications Pvt Ltd, New Delhi, 2014
4. V Sharan, International Business, Pearson Education, New Delhi, 2016.

SKILL DEVELOPMENT PROGRAMME (CERTIFICATE COURSE)

GANDHIAN THOUGHT

PAPER I: LIFE OF MAHATMA GANDHI

Code: CCHYGT01

Hour: 1

Credit: 1

COURSE OUTCOMES:

- ❖ Gain Knowledge on the Early Life of Mahatma Gandhi.
- ❖ Analyse the racial equality and Mahatma Gandhi's Experience in South Africa.
- ❖ Explain the role of Mahatma Gandhi in Indian Freedom Struggle.
- ❖ Assess the constructive works of Mahatma Gandhi in Indian Nationalism.
- ❖ Discuss the major Incidents from the Life of Mahatma Gandhi.

UNIT I

Family background and beginnings of the Mahatma - Birth and childhood - Education and family life - lessons learned - The London Experience.

UNIT II

Making of the Mahatma: Gandhi in South Africa - From a barrister to a people's leader - Towards racial equality - From family life to ashram life - Birth of Satyagraha and constructive work - experiments with truth.

UNIT III

Beginnings of Indian Freedom Struggle: Early resistances and 1857 Revolt - Birth of Indian National Congress: Moderates, Extremists and Terrorists - Gandhi leads the nation in a new direction - Early micro satyagrahas.

UNIT IV

Mahatma Gandhi leads the Freedom struggle to victory: Major satyagrahas - Constructive Work - Sabarmathi and Sevagram - Various currents of Indian Nationalism - Towards partition and freedom - The final martyrdom.

UNIT V

Video shows on Gandhi - Field and life experiences - Incidents from the life of Gandhi that inspired and shaped your life.

Code: CCHYGT01

Hour: 1

Credit: 1

COURSE OUTCOMES:

- ❖ Gain Knowledge on the Early Life of Mahatma Gandhi.
- ❖ Analyse the racial equality and Mahatma Gandhi's Experience in South Africa.
- ❖ Explain the role of Mahatma Gandhi in Indian Freedom Struggle.
- ❖ Assess the constructive works of Mahatma Gandhi in Indian Nationalism.
- ❖ Discuss the major Incidents from the Life of Mahatma Gandhi.

அலகு 1

குடும்ப பின்னணியும் மகாத்மாவின் தொடக்கமும் - பிறப்பும் குழந்தைப் பருவமும் - கல்வியும்
குடும்ப வாழ்வும் - கற்ற பாடங்கள் - இலண்டன் அனுபவங்கள்.

அலகு 2

மகாத்மா உருவாகிறார் - தென்னாப்பிரிக்காவில் காந்தி - பாரிஸ்ட்ரிலிருந்து மக்கள் தலைவராக
- இன சமத்துவத்தை நோக்கி - குடும்ப வாழ்விலிருந்து ஆசிரம வாழ்வுக்கு - சத்தியாகிரகம்
மற்றும் தீர்மானப்பணியின் தொடக்கம் - சத்திய பரிசோதனைகள்.

அலகு 3

இந்திய விடுதலைப் போராட்டத்தின் தொடக்கம் - ஆரம்ப கால எதிர்ப்புகளும் 1857 எழுச்சியும்
- இந்திய தேசிய காங்கிரஸின் தொடக்கம் - மிதவாதிகள், தீவிரவாதிகள் மற்றும் பயங்கரவாதிகள்
- காந்தி நாட்டை புதிய திசையில் நடத்துகிறார் - ஆரம்ப வட்டார சத்தியாகிரங்கள்.

அலகு 4

மகாத்மா காந்தி இந்திய விடுதலைப் போராட்டத்தை தலைமையேற்று நடத்துகிறார் - தேசிய
சத்தியாகிரங்கள் - நிர்மாணப் பணிகள் - சபர்மதியும் சேவாகிரமும் - இந்திய தேசியத்தின்
பல்வேறு போக்குகள் - பிரிவினையும் விடுதலையும் - மகத்தான உயிர் தியாகம்.

அலகு 5

காந்தியைப் பற்றிய படங்கள் - கள மற்றும் வாழ்க்கை அனுபவங்கள் - உங்களது வாழ்வை
பரவசப்படுத்திய, உருக்கிய மகாத்மா காந்தியின் வாழ்க்கை நிகழ்ச்சிகள்.

RECOMMENDED BOOKS

PAPER I

Mahatma Gandhi	: An Autobiography சத்திய சோதனை
R. Nanda	: Mahatma Gandhi - A Biography
Ravindra varma	: Gandhi in Anecdotes, Navajivan Publishers, Ahmedabad, 2001
டி.டி. திருமலை	: காந்தி
கல்கி	: மாந்தருள் ஒரு தெய்வம் இவானதி பதிப்பகம் சென்னை 1991
திரு.வி.க.	: காந்தியடிகளும் மனித வாழ்க்கையும்
ஜெயகாந்தன்	: வாழ்விக்க வந்த காந்தி
J.B. Kriplani	: Gandhi His Life and Thought
லூயி பிஷர்	: மகாத்மா காந்தி
Louis Fischer	: The Life of Mahatma Gandhi, Harper Collins Publishers, Uttarpradesh, 2017
பா. ஆனந்தி, மங்களவதி கேப்ரியல் ரூ	: காந்திய சிந்தனை வினா-விடை
வி.ஏ. வித்யா	: (Gandhian Thought Quiz)
சி. பெரிதாய் ரூ பா. ஆனந்தி	: மகாத்மா காந்தியடிகளின் காலம்

COURSE BOOK:

- ❖ மகாத்மா காந்தியின் வாழ்வும் அறவியலும் - டாக்டர் பா. ஆனந்தி ரூ
- ❖ டாக்டர் ச. செயப்பிரகாசம்
- ❖ Life and Values of Mahatma Gandhi - Dr. B. Ananthi & Dr. S. Jeyapragasam

PAPER II: NON VIOLENCE AND SARVODAYA

Code: CCHYGT02

Hour: 1

Credit: 1

COURSE OUTCOMES:

- ❖ Gain Knowledge on Mahatma Gandhi's Non - violence
- ❖ Discuss the Policies of Mahatma Gandhi on Truth and Action
- ❖ Analyse Sarvodaya and Antyodaya
- ❖ Assess the values introduced through Brahmacharya and Aparigraha
- ❖ Relate violence and Truth in our day today life with the teachings of Gandhiji

UNIT I

Meaning of Nonviolence (*ahimsa*): Nonkilling and noninjuring - Love, service and forgiving - Nonviolent Action: Peaceful resolution of conflict, nonviolent life style & constructive work and Satyagraha - Nonviolent values and ethics

UNIT II

Truth: Absolute and Relative - Moving beyond falsehood, errors and mistakes - Truth and pluralism - Truth and action - Truth and Nonviolence

UNIT III

Sarvodaya (welfare of all at all levels) and Antyodaya (welfare of the last first) - Means and Ends - Removal of untouchability - Communal Harmony - Uplift of Women

UNIT IV

Removal of poverty: Full & total appropriate employment - Self-dependence, Self-reliance, Swaraj and Swadeshi (love thy neighbour) - Self-control and Sublimation (*brahmacharya*) - Simple and Ethical living - *Aparigraha* (nonpossession) and Trusteeship (stewardship) - Appropriate and Holistic Science and Technology.

UNIT V

Place of Nonviolence and truth in our day to-day life and ways to enhance them - learn and practice three skills which would enhance your self-reliance and ability to help (serve) others in need - Resolve conflicts peacefully - Experience inter-religious relationships, dialogue and prayers.

Code: CCHYGT02

Hour: 1

Credit: 1

COURSE OUTCOMES:

- ❖ Gain Knowledge on Mahatma Gandhi's Non - violence
- ❖ Discuss the Policies of Mahatma Gandhi on Truth and Action
- ❖ Analyse Sarvodaya and Antyodaya
- ❖ Assess the values introduced through Brahmacharya and Aparigraha
- ❖ Relate violence and Truth in our day today life with the teachings of Gandhiji

அலகு 1

அகிம்சையின் பொருள் - கொல்லாமையும் துன்பம் செய்யாமையும் - அன்பு, தொண்டு மற்றும் மன்னித்தல் - அகிம்சைச் செயல்- அமைதி வழியில் சிக்கல் தீர்வு, அகிம்சை வாழ்வியலும் நிர்மாணப்பணியும், சத்தியாகிரகம் - அகிம்சை அறவியலும் விழுமியங்களும்.

அலகு 2

உண்மை : பேருண்மையும் (முழுமை உண்மையும்) சார்பு உண்மையும்- பொய்மைகள், தவறுகள் மற்றும் குற்றங்களுக்கு அப்பால் செல்லுதல் - உண்மையும் பன்மியமம் - உண்மையும் செயலும் - உண்மையும் அகிம்சையும்.

அலகு 3

சர்வோதயமும் (அனைவரின் நலம் அனைத்து நிலைகளிலும்) அந்தியோதயமும் (கடையவர் நலன் முதலில்) - குறிக்கோளும் வழிமுறையும் - தீண்டாமை நீக்கம் - சமூக ஒற்றுமை - மகளிர் முன்னேற்றம்.

அலகு 4

வறுமை நீக்கம் : முழுமையான ஏற்புடைய வேலை வாய்ப்பு - தற்சார்பும் தன்னிறைவும், சுயராஜ்ஜியம் மற்றும் சுதேசி (அயலவரை நேசி) - புலனடக்கமும் மேன்மையாக்கமும் (பிரம்மச்சரியம்) - எளிய மற்றும் அறவியல் வாழ்வு உடைமையின்மையும், அறங்காவலர் நெறியும் - ஏற்புடைய மற்றும் முழுமை அறிவியலும் தொழில் நுட்பமும்.

அலகு 5

நமது அன்றாட வாழ்வில் அகிம்சையும் உண்மையும் பெறுமிடமும் அதனை மேம்படுத்தும் வழிகளும் - உங்களது தற்சார்பையும் தேவையில் பிறருக்கு உதவும் ஆற்றலையும் வளர்க்கும் ஏதாவது மூன்று திறன்களைக் (ஞமடைடள) கற்றல் - அமைதி வழியில் சிக்கல் தீர்வு அனுபவங்கள் - சர்வசமய நட்புறவு, உரையாடல் மற்றும் வழிபாட்டு அனுபவம் பெறல்.

RECOMMENDED BOOKS

PAPER II

M.K. Gandhi	: Sarvodaya
	: Nonviolence in Peace and War (2 Vols)
Richard B. Gregg	: Power of Nonviolence
மு. வசந்தா (பதி.)	: சர்வோதயம்
R.R. Diwakar	: The Saga of Satyagraha
ச. செயப்பிரகாசம்	: அகிம்சை, மதுரை, 2008

COURSE BOOK:

- ❖ மகாத்மா காந்தியின் வாழ்வும் அறவியலும் - டாக்டர் பா. ஆனந்தி ரு டாக்டர் ச. செயப்பிரகாசம்
- ❖ Life and Values of Mahatma Gandhi - Dr. B. Ananthi & Dr. S. Jeyapragasam

SKILL DEVELOPMENT PROGRAMME (SDP)
LIBRARY AND INFORMATION SCIENCE
THEORY PAPER & PRACTICAL
PROGRAMME OUTCOMES (PO)

PO. NO.	UPON COMPLETION OF THIS PROGRAMME THE STUDENTS WILL BE ABLE TO
1.	Gain theoretical knowledge and apply the expertise in different fields.
2.	Acquire Industry specific skills and can emerge as entrepreneurs.
3.	Develop critical and rational thinking to solve societal issues.
4.	Explore the knowledge and acclimatize it in the ever changing work environment.
5.	Evolve theories and develop innovative discipline specific ideas.
6.	Comprehend the nuances and develop innovative, discipline-specific ideas.

THEORY PAPER & PRACTICAL
PROGRAMME SPECIFIC OUTCOMES (PSO)

PSO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PO MAPPED
1.	Have knowledge about the Library Resources and Services.	PO-2, PO-5
2.	To get Equipped with capabilities required for placement in Libraries	PO-2, PO-5
3.	To Use maximum of resources available in the Library.	PO-1
4.	Get the basic practical approaches to use online resources.	PO-5, PO-6
5.	Familiarize with the Principles of Management in Library Services.	PO-4

OBJECTIVES:

- To familiarize the students with the methods of maintaining Library Resources and Services.
- To equip them with capabilities required for placement in Libraries.

TEACHING HOURS

The Certificate course will be conducted in 60 contact hours per year as follows

Theory = 30 Hours

Practical = 30 Hours

ELIGIBILITY

Any III U.G. and any P.G. Student

SYLLABUS
THEORY PAPER

Code: 23GL1SD01

Hours: 2

Credit: 1

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Have knowledge about the various types of Libraries.	PSO - 1	K1
CO - 2	Understand the various kinds of Reference sources available in the Library	PSO - 1	K2
CO - 3	Get the analytical approaches to classify and Arrange the reading materials in Library	PSO - 2	K4
CO - 4	Apply various methods to search the reading material and thereby get it at the earliest	PSO - 3	K3
CO - 5	To Acquire knowledge about the managerial principles and techniques in Libraries.	PSO - 5	K5

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** - Create

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Code: 23GL1SD01		THEORY PAPER										Hours: 2
												Credit: 1
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	3	4	4	4	4	4	3	4	4	4	4	3.82
CO - 2	4	4	4	4	4	4	4	4	4	4	4	4
CO - 3	3	3	4	4	4	3	3	4	4	3	3	3.45
CO - 4	4	4	4	4	4	4	4	4	4	4	4	4
CO - 5	4	4	4	3	3	3	3	3	4	4	4	3.55
Overall Mean Score												3.76

Result: The score for this course is **3.76** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of Cos = $\frac{\text{Total of Values}}{\text{Total No. of Pos \& PSOs}}$	Mean Overall Score for Cos = $\frac{\text{Total of Mean Scores}}{\text{Total No. of Cos}}$
--	--

UNIT I: LIBRARY AND SOCIETY

Five Laws of Library Science - Extension services - Types of Library - Orientation to Library Staff and Students

UNIT II: INFORMATION SOURCES & SERVICES

Information - Reference Service, Definition, Kinds - Kinds of Sources of Information - Standard Ready Reference Sources - Bibliography - Definition, Types - Abstract: APA style.

UNIT III: CLASSIFICATION THEORY

Library classification - Definition, need and purposes - Colon Classification 6th Edition and Dewey Decimal Classification 20th Edition : General features.

UNIT IV: CATALOGUING THEORY

Definition, objectives and functions of catalogue - Physical and inner forms of catalogue - OPAC

UNIT V: LIBRARY MANAGEMENT

Principles of Management - Library Rules - Library routines (Selection, Acquisition, Technical processing) - Circulation Systems (Charging & Discharging), Automated charging system - Preservation of reading materials

UNIT VI: INFORMATION TECHNOLOGY

Computer application to Library work - Internet: General features, Search engines -e-resources - E-Library / Digital Library - INFLIBNET N-List, SHODHSINDH

PRACTICAL PAPER

Code: 23GL1SDP1

Hours: 2

Credit: 1

COURSE OUTCOMES:

CO. NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PSO ADDRESSED	COGNITIVE LEVEL
CO - 1	Apply colon classification scheme in classifying the reading materials.	PSO - 2	K3
CO - 2	Analyse the title according to Dewey Decimal Classification Scheme.	PSO - 2	K4
CO - 3	Synthesis code for the book title according to colon Classification.	PSO - 5	K6
CO - 4	Apply code for the book title according to Dewey Decimal Classification.	PSO - 2	K3
CO - 5	Get practical approaches to search and download online resources.	PSO- 2	K3

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** - Create

RELATIONSHIP MATRIX FOR COURSE OUTCOMES, PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

Code: 23GL1SDP1		PRACTICAL PAPER										Hours: 2
												Credit: 1
Course Outcomes	Programme Outcomes (PO)						Programme Specific Outcomes (PSO)					Mean Score of CO's
	1	2	3	4	5	6	1	2	3	4	5	
CO - 1	3	3	4	4	4	4	3	4	4	4	3	3.64
CO - 2	4	3	4	4	4	4	4	4	3	4	4	3.82
CO - 3	4	4	4	4	4	3	3	4	4	3	3	3.64
CO - 4	3	4	4	4	4	4	4	4	4	4	4	3.91
CO - 5	3	4	4	3	3	3	3	3	4	4	4	3.45
Overall Mean Score												3.69

Result: The score for this course is **3.69** (High Relationship)

Note:

Mapping	1-20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%
Scale	1	2	3	4	5
Relation	0.0 - 1.0	1.1 - 2.0	2.1 - 3.0	3.1 - 4.0	4.1 - 5.0
Quality	Very Poor	Poor	Moderate	High	Very High

Values Scaling:

Mean Score of Cos = $\frac{\text{Total of Values}}{\text{Total No. of Pos \& PSOs}}$	Mean Overall Score for Cos = $\frac{\text{Total of Mean Scores}}{\text{Total No. of Cos}}$
--	--

Colon Classification -6th edition, Main Classes

1. Dewey Decimal Classification 20th edition - I, II & III Summary
2. Computer - Internet searching and to download information
3. INFLIBNET N-List - Searching process

BOOKS FOR REFERENCE:

1. Library Organisation and Decision Making - J. B.Sharma - Pointer Publishers, Jaipur - 2008
2. Library and Information Science - C.K. Sharma, Akhil Kumar Singh and Rakesh Kumar- Atlantic publishers & distributors (P) Ltd. - 2008
3. Reference Service - Mr. Krishan Kumar
4. Basics of Library and Information Science - K.T.Dilli, Vikas Publishing.
5. Preservation of Library, Archival and Digital Documents - L.S.Ramaiah & G. Sujatha - ESS ESS Publications, New Delhi - 2008
6. E-Libraries in Computer age - C.Praveen S ingh - Alfa publications, New Delhi - 2008
7. Colon Classification - S.R.Ranganathan - 6th Edition - Asia publishing house, New Delhi - 1960
8. Dewey Decimal Classification - Edited by John P Comaromi etc. - 20th Edition - Forest press, New York - 1989

EVALUATION METHOD

Theory Paper Code : 23GL1SD01		Practical Paper Code : 23GL1SDP1	
Internal	25 Marks	Internal	40 Marks
External	75 Marks	External	60 Marks
Total	100 Marks	Total	100 Marks

CONTINUOUS INTERNAL ASSESSMENT COMPONENT (CIA) - 2023-2026 -UG

CIA components for Practical can be decided by the respective Departments.

**Passing Minimum in the Continuous Internal Assessment is Compulsory for
appearing the External Semester Examination**

Theory:

Component	Marks	Marks
Internal test I	40	Converted to 25
Internal test II	40	
Quiz	10	
Assignment	5	
Attendance	5	
Total	100	25

PRACTICAL:

Continuous Internal Assessment (CIA) - 40 Marks

External Practical Exam - 60 Marks

PASSING MINIMUM FOR EXTERNAL SEMESTER EXAMINATION -UG

Semester Examination		
Theory	40% out of 75 Marks (i.e. 30 Marks)	40% out of 100 Marks (i.e. 40 Marks)
Practical	40% out of 60 Marks (i.e. 24 Marks)	

INTERNAL QUESTION PATTERN (UG)**Class:****Time: 2 Hours****Date:****Max.: 40 Marks****Title of the Paper**

Course Outcome	Bloom's K-level	Q. No	SECTION
			SECTION – A (10 x 1 = 10 marks) MCQs
			SECTION – B (2 x 5 = 10 Marks) Answer ALL Questions. (Internal Choice)
			SECTION – C (2x 10 =20 Marks) Answer All Question. (Internal Choice)

EXTERNAL QUESTION PATTERN**UG External Question Pattern for the courses carrying credits 5 and above****Class:****Time: 3 Hours****Date:****Max.: 100 Marks****Title of the Paper**

Course Outcome	Bloom's K-level	Q. No	SECTION
			SECTION – A (15 x 1 = 15 marks) MCQs
			SECTION – B (5x 2 = 10 Marks) Answer any FIVE Questions out of SEVEN
			SECTION – C (5x 5 =25 Marks) Answer All Question. (Internal Choice, one question from each Unit)
			SECTION – D (5x 10 =50 Marks) Answer All Question. (Internal Choice, one question from each Unit)

EXTERNAL QUESTION PATTERN**UG External Question Pattern for the courses carrying credits below 5****Class:****Time: 2 ½ Hours****Date:****Max.: 75 Marks****Title of the Paper**

Course Outcome	Bloom's K-level	Q. No	SECTION
			SECTION – A (15 x 1 = 15 marks) MCQs
			SECTION – B (5x 6 = 30 Marks) Answer All Question. (Internal Choice, one question from each Unit)
			SECTION – C (3x 10 =30 Marks) Answer All Question. (Internal Choice)

SKILL DEVELOPMENT PROGRAMME (SDP)

LIBRARY AND INFORMATION SCIENCE

PROGRAMME OUTCOMES (PO)

PO NO.	UPON COMPLETION OF THIS PROGRAMME THE STUDENTS WILL BE ABLE TO
1.	Gain theoretical knowledge and apply the expertise in different fields.
2.	Acquire Industry specific skills and can emerge as entrepreneurs.
3.	Develop critical and rational thinking to solve societal issues.
4.	Explore the knowledge and acclimatize it in the ever-changing work environment.
5.	Evolve theories and develop innovative discipline specific ideas.
6.	Comprehend the nuances and develop innovative, discipline-specific ideas.

PROGRAMME SPECIFIC OUTCOMES (PSO)

PSO NO.	UPON COMPLETION OF THIS COURSE THE STUDENTS WILL BE ABLE TO	PO MAPPED
1.	Have knowledge about the Library Resources and Services.	PO-2, PO-5
2.	To get Equipped with capabilities required for placement in Libraries	PO-2, PO-3
3.	To Use maximum of resources available in the Library.	PO-1
4.	Get the basic practical approaches to use online resources.	PO-5, PO-6
5.	Familiarize with the Principles of Management in Library Services.	PO-4

OBJECTIVES:

- ❖ To familiarize the students with the methods of maintaining Library Resources and Services.
- ❖ To equip them with capabilities required for placement in Libraries.

TEACHING HOURS

The Certificate course will be conducted in 180 contact hours per year as follows

Theory - Paper I = 60 Hours

Theory - Paper II = 60 Hours

Practical Paper = 60 Hours

ELIGIBILITY

Plus Two passed / Any U.G. and P.G. Student

SYLLABUS

THEORY PAPER - 1: FUNDAMENTALS OF LIBRARY AND INFORMATION SCIENCE

Code: 24GL1SD01

Hours: 2

Credit: 1

COURSE OUTCOMES:

- ❖ Have knowledge about the types, principles, classification, cataloguing and routine work of the Library
- ❖ Understand the types, principles, classification, cataloguing and routine work of the Library
- ❖ Apply the principles, classification, cataloguing and routine work of the Library
- ❖ Get the analytical approaches in the types, principles, classification, cataloguing and routine work of the Library
- ❖ Evaluate the types, principles, classification, cataloguing and routine work of the Library

UNIT I

Library concept and definitions; Types of libraries - Public, Academic and Special Libraries - Role of libraries in modern society.

UNIT II

Five Laws of Library Science and their implications. Principles of Management - Library Budget, Types

UNIT III

Library classification - Definition, need and purposes - Colon Classification 6th Edition and Dewey Decimal Classification: Main Classes

UNIT IV

Library Cataloguing - Definition, objectives and functions of catalogue - Physical and inner forms of catalogue - OPAC

UNIT V

Various sections in a Library- Routine work in Acquisition, Technical, Circulation, Maintenance, Reference, and Binding Sections

BOOKS FOR REFERENCE:

1. Library Organisation and Decision Making - J. B.Sharma - Pointer Publishers, Jaipur - 2008
2. Library and Information Science - C.K. Sharma, Akhil Kumar Singh and Rakesh Kumar- Atlantic publishers & distributors (P) Ltd. - 2008
3. Basics of Library and Information Science - K.T.Dilli, Vikas Publishing.
4. Colon Classification - S.R.Ranganathan - 6th Edition - Asia publishing house, New Delhi - 1960
5. Dewey Decimal Classification - Edited by John P Comaromi etc. - 20th Edition - Forest press, New York - 1989
6. Current Trends and Fundamentals in Library and Information Science - Sr. R. Fatima Mary **Sylvia**,Pavai Publications, Chennai - 2012

THEORY PAPER -2: INFORMATION SOURCES & SERVICES

Code: 24GL1SD02

Hours: 2

Credit: 1

COURSE OUTCOMES:

- ❖ Have knowledge about the types and kinds of Information Sources and Services.
- ❖ Understand the types and kinds of Information Sources and Services.
- ❖ Apply the types and kinds of Information Sources and Services.
- ❖ Get the analytical approaches of the types and kinds of Information Sources and Services in the practical life situation.
- ❖ Evaluate the types and kinds of Information Sources and Services.

UNIT I

Sources of Information - Documentary - Non- Documentary - Types of Information Sources - Primary, Secondary, Tertiary Sources

UNIT II

Kinds of Sources of Information - Standard Ready Reference Sources and Long-Range Reference Sources

UNIT III

Information Services - Reference Service - Definition, Need and Types - Ready Reference Service - Long Range Reference Service - User Needs - User Education, Extension services.

UNIT IV

E-resources - Concept and evolution; Merits and demerits of e-resources

UNIT V

Library Automation and Digitization- Digital Library- Artificial Intelligence applications in Libraries

BOOKS FOR REFERENCE:

1. Reference Service - Mr. Krishan Kumar
2. Digital Libraries Tools & Techniques - C. Praveen Singh - Alfa Publications, New Delhi - 2008
3. Library and Information Science - C.K.Sharma, Akhil Kumar Singh and Rakesh Kumar - Vol.III - Atlantic Publishers & Distributors (P) Ltd. - 2008
4. Current Trends and Fundamentals in Library and Information Science - Sr. R. Fatima Mary **Sylvia**, Pavai Publications, Chennai - 2012

PRACTICAL PAPER

Code: 24GL1SDP1

Hours: 2

Credit: 1

COURSE OUTCOMES:

- ❖ Acquire the knowledge of Colon Classification, Dewey Decimal Classification, ICT and INFLIBNET
- ❖ Understand the concept of Colon Classification, Dewey Decimal Classification, ICT and INFLIBNET
- ❖ Apply the knowledge of Colon Classification, Dewey Decimal Classification, ICT and INFLIBNET
- ❖ Analyse the practical knowledge of Colon Classification, Dewey Decimal Classification, ICT and INFLIBNET
- ❖ Synthesis the practical approaches of Colon Classification, Dewey Decimal Classification, ICT and INFLIBNET

Paper 3 - INFORMATION PROCESSING PRACTICE

Code: 24GL1SDP1

Hours: 2

Credit: 1

4. Classification: Colon Classification 6th edition, Main Classes
5. Classification: Dewey Decimal Classification 20th edition - I, II & III Summary
6. ICT - Internet Browsing; Downloading
7. E-Resources in INFLIBNET N-List - Browsing; Downloading

BOOKS FOR REFERENCE:

1. Digital Libraries Tools & Techniques - C. Praveen Singh - Alfa Publications, New Delhi - 2008
2. Colon Classification - S.R.Ranganathan - 6th Edition - Asia publishing house, New Delhi - 1960
3. Dewey Decimal Classification - Edited by John P Comaromi etc. - 20th Edition - Forest press, New York - 1989

EVALUATION METHOD

Theory Paper – 1 Fundamentals of Library and Information Science Code : 24GL1SD01		Theory Paper - 1 Information Sources & Services Code : 24GL1SD02		Practical Paper Code : 24GL1SDP1	
Internal	25 Marks	Internal	25 Marks	Internal I	50 Marks
External	75 Marks	External	75 Marks	Internal II	50 Marks
Total	100 Marks	Total	100 Marks	Purely Internal, Total	100 Marks

CONTINUOUS INTERNAL ASSESSMENT COMPONENT (CIA) - 2023-2026 -UG
CIA components for Practical can be decided by the respective Departments.

Passing Minimum in the Continuous Internal Assessment is Compulsory for
appearing the External Semester Examination

Theory: Internal Component

Component	Marks	Marks
Internal test I	40	Converted to 25
Internal test II	40	
Assignment I	10	
Quiz	10	
Total	100	25

Question Pattern

SECTION	Types of Question	Number of Qns.	Number of Qns. to be answered	Marks for each Qn.	Total
A Q. No (1-15)	Multiple Choice	15	15	1	15
B Q. No (16-21)	either or type.	6	5	5	30
C Q. No (22-24)	either or type	3	3	10	30

YOGA FOR YOUTH EMPOWERMENT

Semester: Non semester

Hours: 2

Code : 23YYSD01

Credit: 2

OBJECTIVES:

- ❖ Providing value education to improve the students' character.
- ❖ Understanding yogic life and physical health.
- ❖ Maintaining youthfulness.
- ❖ Measure and method in five aspects of life.

UNIT: 1

Physical Health: Manavalakalai (SKY) Yoga - Introduction - Education as a means for youth empowerment - Greatness of Education - Yoga for youth Empowerment.

Simplified Physical Exercises - Hand, Leg, Breathing. Eye exercises - Kapalabathi, Makarasana Part I, Makarasana Part II, Body Massage, Acu pressure, Relaxation exercises – Benefits. **Yogasanas I** - Pranamasana - Hastha Uttanasana - Pada asthasana – Aswa Sanjalana Asana - Thuvipatha asva Sanjalana asana - Astanga Namaskara –Bhujangasana. Altha Muktha Savasana, Aswa Sanjalana Asana – Pada Hasthasana - Hastha Uttanasana - Pranamasana. **Pranayama** - Naddi suddi - Clearance Practice- Benefits. Simplified Physical Exercise - Kayakalpa Practices - Meditation Practices. (6 Hours)

UNIT II

Life force: Reasons or Diseases - Natural reasons (Genetic / imprints, Planetary Position, Natural calamities and climatic changes) - Unnatural reasons (Food habits, Thoughts, Deeds). **Philosophy of Kaya kalpa** - Physical body - Sexual vital fluid - Life force - Bio-Magnetism-Mind. **Maintaining youthfulness** - Postponing old age - Transformation of food into seven components - Importance of sexual vital fluid - Measure and method in five aspects of life - Controlling undue Passion. **Kayakalpa practice** - Aswini Mudra - Ojas breath - Benefits of Kaya Kalpa. (6 Hours)

UNIT III

Mental Health: Mental Frequencies - Beta, Apha, Theta and Delta wave - Agna Meditation explanation-benefits. **Shanti meditation** - Shanthi Meditation explanation – benefits. **Thuriya Meditation** - Thuriya Meditation explanation – benefits. **Benefits of Blessing** - Self blessing (Auto suggestion) - Family blessing - Blessing the others -World blessing - Divine protection. (6 Hours)

UNIT IV

Values: Human Values - Self-control - Self-confidence - Honesty Contentment- Humility Modesty Tolerance- Adjustment- Sacrifice- Forgiveness. Purity (Body, Dress, Environment) - Physical purity - Mental purity - Spiritual purity. **Social Values** - Nonviolence - Service Patriotism Equality. Respect for parents and elders - care and protection - Respect for teacher. Punctuality - Time Management.

(6 Hours)

UNIT V

Morality (virtues): Importance of introspection - I - Mine (Ego, Possessiveness) Six Evil Temperaments - Greed - Anger- Miserliness - Immoral sexual passion Inferiority and superiority Complex - Vengeance. Maneuvering of Six Temperaments - Contentment Tolerance - Charity Chastity - Equality – Pardon (Forgiveness). Five essential Qualities acquired through Meditation - Perspicacity- Magnanimity - Receptivity - Adaptability -Creativity (Improved Memory Power).

(6 Hours)

BOOKS FOR REFERENCE:

- ❖ Yoga for modern age - Thathuvagnani Vethathiri Maharishi.
- ❖ Simplified Physical Exercises- Thathuvagnani Vethathiri Maharishi.
- ❖ Kayakalpam - Thathuvagnani Vethathiri Maharishi.
- ❖ Thirukkural - Rev.Dr.G.U.Pope.
- ❖ Mind- Thathuvagnani Vethathiri Mahaishi.
- ❖ Sound Health through yoga- Dr.Chandrasekaran.
- ❖ Light on yoga –BKS Jyenger.
- ❖ Unavu murai - Thathuvagnani Vethathiri Maharishi.

EVALUATION YOGA FOR YOUTH EMPOWERMENT

Internal	External	Total
25	75	100

CIA Components

Component		Marks
Test-I	:	40
Test - II	:	40
Assignment	:	05
Quiz/Seminar	:	10
Attendance	:	05
Total	:	100

**The total internal marks obtained for 100 will be
Converted into marks obtained for 25**

YOGA FOR YOUTH EMPOWERMENT
(EXTERNAL – EVALUATION)

Time: 3 Hours

Max. Marks: 75

Part	Types of questions	Number of Qns.	Number of Qns. to be answered	Marks for each qn.	Total
A Q. NO (1-20)	MCQ(Four questions from each Unit)	20	20	1	20
B Q. NO (21-25)	Either (or) type. (Two questions from each unit)	10	5	5	25
C Q. NO (25-30)	Open choice (One question from each unit)	5	3	10	30

PRACTICAL - YOGA FOR YOUTH EMPOWERMENT -23YYSD02

Semester: Non- Semester

Hours: 2

Code : 23YYSD02

Credit: 1

1. **Simplified Physical Exercises** - Hand, Leg, Breathing. Eye exercises - Kapalabathi, Makarasana Part I, Makarasana Part II, Body Massage, Acu pressure, Relaxation exercises – Benefits.
2. **Yogasanas I** - Pranamasana - Hastha Uttanasana - Pada asthasana – Aswa Sanjalana Asana - Thuvipatha asva Sanjalana asana - Astanga Namaskara – Bhujangasana. Altha Muktha Savasana, Aswa Sanjalana Asana – Pada Hasthasana - Hastha Uttanasana - Pranamasana.
3. **Pranayama** - Naddi suddi - Clearance Practice- Benefits. Simplified Physical Exercise - Kayakalpa Practices - Meditation Practices.

YOGA FOR YOUTH EMPOWERMENT – PRACTICAL -I (Internal Only)

CIA Components for Internal Assessment

Components		Marks
Component- I (Physical Exercises)	:	50
Component- II (Yogasanas I)	:	25
Component – III (Pranayama)	:	25
Total	:	100