



## **ACADEMIC YEAR 2023-2024**

- **PROGRAMME OUTCOME**
- **PROGRAMME SPECIFIC OUTCOME**
- **COURSE OUTCOME**

## **PROGRAMME OUTCOME AND COURSE OUTCOME**

<b>SL.NO</b>	<b>COURSES</b>	<b>PAGE NO</b>
<b>1</b>	<b>LANGUAGE &amp; ENGLISH</b>	<b>1-18</b>
<b>2</b>	<b>B.A. ENGLISH</b>	<b>20-35</b>
<b>3</b>	<b>B.COM. GENERAL</b>	<b>37-45</b>
<b>4</b>	<b>B.COM BANK MANAGEMENT</b>	<b>46-54</b>
<b>5</b>	<b>B.COM COMPUTER APPLICATION</b>	<b>55-63</b>
<b>6</b>	<b>M.COM ACCOUNTING &amp; FINANCE</b>	<b>64-80</b>
<b>7</b>	<b>B.B. A</b>	<b>82-95</b>
<b>8</b>	<b>B.C. A</b>	<b>97-101</b>
<b>9</b>	<b>B.SC. COMPUTER SCIENCE</b>	<b>102-112</b>
<b>10</b>	<b>B.SC MATHEMATICS</b>	<b>114-121</b>
<b>11</b>	<b>B.SC. CHEMISTRY</b>	<b>123-133</b>

LANGUAGE PAPER (TAMIL, HINDI, FRENCH)  
AND  
ENGLISH  
COMMON FOR ALL U.G. COURSES

## பொதுத்தமிழ்-1

### தமிழ் இலக்கிய வரலாறு -1

#### முதலாம் ஆண்டு - முதற் பருவம்

Course Code	Course Name	Category	L	T	P	S	Credits	Ins.Hrs	CIA	Externa	Total
100L1AU	பொதுத்தமிழ் -1 தமிழ் இலக்கிய வரலாறு -1	Supportive	Y	-	-	-	3	6	25	75	100

#### Learning Objectives

- முதலாமாண்டுப் பட்ட வகுப்பு மாணவர்களுக்குத் தமிழ் மொழி இலக்கியங்களை அறிமுகம் செய்தல்
- தமிழ் இலக்கியப் போக்குகளையும், இலக்கணங்களையும் மாணவர் அறியுமாறு செய்து அவர்களின் படைப்பாற்றலைத் தூண்டுதல்
- தமிழ் இலக்கியம் சார்ந்த போட்டித் தேர்வுகளுக்கு ஏற்ப கற்பித்தல் நடைமுறைகளை மேற்கொள்ளுதல்

#### Expected Course Outcomes

On the Successful completion of the Course, Students will be able to

இப்பாடத்தைக் கற்பதால் பின்வரும் பயன்களை மாணவர் அடைவர்

CO 1	சங்க இலக்கியத்தில் காணப்பெறும் வாழ்வியல் சிந்தனைகளை அறிந்து கொள்வர்	K4
CO 2	அற இலக்கியம் மற்றும் தமிழ் காப்பியங்களின்வழி வாழ்வியல் சிந்தனையைப் பெறுவர்	K5, K6
CO 3	பக்தி இலக்கியங்களைக் கற்பதன் மூலம் பக்தி நெறியினையும், பகுத்தறிவு இலக்கியங்களைக் கற்பதன் வழி நல்லிணக்கத்தையும் தெரிந்து பின்பற்றுவர்	K3
CO 4	மொழியறிவோடு சிந்தனைத்திறனைப் பெறுவர்	K3
CO 5	மொழிப்பயிற்சிக்குத் தேவையான இலக்கணங்களைக் கற்பர்.	K2

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create

அலகு-1 தமிழ் இலக்கிய, இலக்கண வரலாறு அறிமுகம்.

1. இலக்கணம்;

அ.தொல்காப்பியம், இறையனார் களவியல் உரை, நம்பியகப் பொருள், புறப்பொருள் வெண்பா மாலை, நன்னூல், தண்டியலங்காரம், யாப்பருங்கலக்காரிகை நூல்கள்

ஆ.மொழிப் பயிற்சி- ஒற்றுப்பிழை தவிர்த்தல்

- வல்லினம் மிகும் இடங்கள்
- வல்லினம் மிகா இடங்கள்

- <https://www.chennailibrary.com/>
- <https://www.sirukathaigal.com>
- <https://www.tamilvirtualuniversity.org>
- <https://www.noolulagam.com>
- <https://www.katuraitamilblogspot.com>

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PSO 1	PSO 2	1.
CLO1	3	2	3	3	3	2	2	2	3	2	3	2	
CLO2	3	3	2	2	2	3	2	3	3	2	2	2	
CLO3	3	2	3	3	2	2	2	3	2	3	3	2	
CLO4		3	3	2	2	2	3	2	3	2	3	3	
CLO5	3	3	2	2	2	3	3	2	2	2	3	3	

Strong -3,Medium-2,Low-1

**பொதுத்தமிழ்- 2**  
**தமிழ் இலக்கிய வரலாறு -2**  
**முதலாம் ஆண்டு – இரண்டாம் பருவம்**

Course Code	Course Name	Category	L	T	P	S	Credits	Ins.Hrs	CIA	External	Total
100L2AU	பொதுத்தமிழ் -2 தமிழ் இலக்கிய வரலாறு -2	Supportive	Y	-	-	-	3	6	25	75	100

**Learning Objectives**

- முதலாமாண்டுப் பட்ட வகுப்பு மாணவர்களுக்குத் தமிழ் மொழி இலக்கியங்களை அறிமுகம் செய்தல்
- தமிழ் இலக்கியப் போக்குகளையும், இலக்கணங்களையும் மாணவர் அறியுமாறு செய்து அவர்களின் படைப்பாற்றலைத் தூண்டுதல்
- தமிழ் இலக்கியம் சார்ந்த போட்டித் தேர்வுகளுக்கு ஏற்ப கற்பித்தல் நடைமுறைகளை மேற்கொள்ளுதல்

**Expected Course Outcomes**

On the Successful completion of the Course, Students will be able to

இப்பாடத்தைக் கற்பதால் பின்வரும் பயன்களை மாணவர் அடைவர்

CO 1	சிற்றிலக்கியங்களின்வழி இலக்கியச் சுவையினையும் பண்பாட்டு அறிவினையும் பெறுவர்	K4
CO 2	புதுக்கவிதை வரலாற்றினை அறிந்து கொள்வர்	K5, K6
CO 3	திராவிட இயக்க இலக்கியங்களைக் கற்பதன் மூலம் மொழி உணர்வு , இன உணர்வு, சமத்துவம் சார்ந்த சிந்தனைகளைப் பெறுவர்	K3
CO 4	தமிழ்மொழியைப் பிழையின்றி எழுதவும், புதிய கலைச்சொற்களை உருவாக்கவும் அறிந்து கொள்வர்	K3
CO 5	போட்டித் தேர்வுகளில் வெற்றி பெறுவதற்குத் தமிழ்ப் பாடத்தினைப் பயன்கொள்ளும் வகையில் பயிற்சி பெறுவர்.	K2

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create

அலகு-1 தமிழ் இலக்கிய வரலாறு அறிமுகம்.

1. சிற்றிலக்கியம்; குறவஞ்சி, கலம்பகம், உலா, பரணி, பள்ளு, பிள்ளைத்தமிழ், தூது, அந்தாதி.
2. தனிப்பாடல் அறிமுகம்
3. இக்கால இலக்கியம் ;கவிதை, சிறுகதை,நாடகம், உரைநடை. , திராவிட இயக்கம் வளர்த்த தமிழ்.

அலகு-2 சிற்றிலக்கியக்கமும்,தனிப்பாடலும்

சிற்றிலக்கியம்;

Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]

Web Sources

- <https://www.chennaiibrary.com/>
- <https://www.sirukathaigal.com>
- <https://www.tamilvirtualuniversity.org>
- <https://www.noolulagam.com>
- <https://www.katuraitamilblogspot.com>

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CLO3	3	2	3	3	2	2	2	3	2	3	3	2	
CLO4		3	3	2	2	2	3	2	3	2	3	3	
CLO5	3	3	2	2	2	3	3	2	2	2	3	3	

Strong -3,Medium-2,Low-1

**UNIVERSITY OF MADRAS**  
**UG & 5 YR INTEGRATED DEGREE – FOUNDATION COURSE**  
 EXISTING SYLLABUS (22-23) FOLLOWED FOR THE ACADEMIC YEAR 2023-2024

**FOUNDATION COURSE: PART-I HINDI PAPER-I**

**100L1E**

**Inst.Hrs. : 6**

**Credits : 3**

**Year : I**

**Semester : I**

<b>Programme:</b>	U.G. – FOUNDATION COURSE – PART-I HINDI	
<b>Programme Outcomes:</b>	<ol style="list-style-type: none"> <li>1. Identify the literary trends, prose forms and nature of functional Hindi and its applications</li> <li>2. Understand the roll of literature and importance of Functional Hindi</li> <li>3. Obtain the practical knowledge of critical study of Literature, thinking, writing and expressional skills.</li> <li>4. Obtain official noting, drafting and Business and personal, semi official letter writing methods and techniques</li> <li>5. Employ the evaluating, summerising and differentiate contextual meanings.</li> </ol>	
<b>Programme Specific Outcomes:</b>	<ol style="list-style-type: none"> <li>1. Basic knowledge for higher studies</li> <li>2. Obtain Basic professional skills i.e. business and official Correspondence and applications</li> <li>3. Language application and writing skills</li> <li>4. Basic idea of evaluation critical and analytical study of literature.</li> <li>5. Develops ideas of creative thinking and writing</li> </ol>	
<b>Course Objectives</b>	1. Identify the theme and aims of prose lessons and functional Hindi	K1
	2. Understand and summarise the theme	K2
	3. Explain the ideology of literary works and writers	K3
	4. Interpret the contextual meaning and differentiation	K4
	5. Evaluate on the basis of elements, features and trends of prose	K5
	6. Conceive the knowledge of literary themes and practice of functional Hindi	K6
<b>Title of the Course:</b>	PAPER – I - PROSE, FUNCTIONAL HINDI & LETTER WRITING	
<b>Pre-requisites, if any:</b>	Basic Knowledge of Hindi Prose forms and prose writers	
<b>UNITS</b>		
<b>I</b>	<ol style="list-style-type: none"> <li>1. Sabhyata ka Rahasya</li> <li>2. Personal Applications</li> <li>3. Leave Letters</li> <li>4. Introduction to office procedures</li> <li>5. Official letter</li> <li>6. Demi Official Letter</li> </ol>	
<b>II</b>	<ol style="list-style-type: none"> <li>1. Mitrata</li> <li>2. Letter to the Editor</li> <li>3. Opening an A/C</li> </ol>	



**UNIVERSITY OF MADRAS**  
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 EXISTING SYLLABUS (22-23) FOLLOWED FOR THE ACADEMIC YEAR 2023-2024

	<ol style="list-style-type: none"> <li>4. Demi Official Letter</li> <li>5. Office Order</li> <li>6. Administrative Terminology English to Hindi ( 30 Words )</li> </ol>
<b>III</b>	<ol style="list-style-type: none"> <li>1. Yuvavon Se</li> <li>2. Application for Withdrawal</li> <li>3. Circular</li> <li>4. Memo</li> <li>5. Enquiry</li> <li>6. Administrative Terminology Hindi to English ( 30 Words )</li> </ol>
<b>IV</b>	<ol style="list-style-type: none"> <li>1. Paramanu Oorja evam Khadya Padarth Sanrakshan</li> <li>2. Transfer of an A/C</li> <li>3. Missing of Pass Book / Cheque Leaf</li> <li>4. Official Memo</li> <li>5. Resolution and Notice</li> <li>6. Administrative Terminology English to Hindi ( 30 Words )</li> </ol>
<b>V</b>	<ol style="list-style-type: none"> <li>1. Yougyata aur Vyavasay ka Chunav</li> <li>2. Complaints</li> <li>3. Ordering for Books</li> <li>4. Notification</li> <li>5. Official Noting Hindi to English ( 25 Phrases )</li> <li>6. Official Noting English to Hindi (25 Phrases)</li> </ol>
<b>Course Outcomes</b>	<ol style="list-style-type: none"> <li>1. Explains the nature, features, elements of prose forms and Functional Hindi</li> <li>2. Understand the theme, aim of lessons and obtain application skills.</li> <li>3. Evaluate the thought, ideology, expressional and artistic skills of writers.</li> <li>4. Obtain skills of critical analysis of Literary forms and drafting skills of personal letters, business letters, noting and drafting skills</li> <li>5. Learn to Employ the obtained skills in enriching the bright future.</li> </ol>
<b>Reading List (Print and Online)</b>	<ol style="list-style-type: none"> <li>1. Sarkari karyalayon mein Hindi ka Prayog, Written by Gopinath Srivatav, Lokbharati Prakashan, 15,A, Gandhi Mrag, Allabad – 1</li> <li>2. Hi.wikipedia.org/wiki.आधुनिक_हिन्दी_गद्य_का_इतिहास</li> <li>3. <a href="https://www.infosrf.com/blog-single.php?MnBv=494">https://www.infosrf.com/blog-single.php?MnBv=494</a></li> </ol>
<b>Recommended Texts</b>	<ul style="list-style-type: none"> <li>• HINDI GADHYA MALA Ed. by Dr. Syed Rahamathulla, Poornima Prakashan 4/7-B, Begum III Street, Royapettah, Chennai – 14.</li> <li>• Karyalayeen Tippaniya :Kendriya Hindi Sansthan, Agra</li> <li>• Prayojan Moolak Hindi : Dr. Syed Rahamathulla, Poornima Prakashan, 4/7, Begum III Street, Royapettah, Chennai – 14</li> </ul>

**Method of Evaluation:**

**UNIVERSITY OF MADRAS**  
**UG & 5 YR INTEGRATED DEGREE – FOUNDATION COURSE**  
EXISTING SYLLABUS (22-23) FOLLOWED FOR THE ACADEMIC YEAR 2023-2024

<b>Internal Assessment</b>	<b>End Semester Examination</b>	<b>Total</b>	<b>Grade</b>
25	75	100	

	<b>POS1</b>	<b>POS 2</b>	<b>POS 3</b>	<b>POS 4</b>	<b>POS 5</b>
<b>CO 1</b>	S	S	M	S	M
<b>CO 2</b>	S	S	S	S	S
<b>CO 3</b>	S	S	S	S	S
<b>CO 4</b>	S	S	S	S	S
<b>CO 5</b>	S	S	S	S	S

**UNIVERSITY OF MADRAS**  
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 EXISTING SYLLABUS (22-23) FOLLOWED FOR THE ACADEMIC YEAR 2023-2024

**FOUNDATION COURSE: PART-I HINDI PAPER-II**

**100L2E**

**Inst.Hrs. : 6**  
**Credits : 3**

**Year : I**  
**Semester : II**

<b>Paper – II- ONE ACT PLAY, SHORT STORY &amp; TRANSLATION</b>		
<b>Duration:</b>	<b>1 Semester</b>	
<b>Programme Outcomes:</b>	1. Identify the features, elements of literary forms i.e. Drama, one act play, Novel and Short Stories, techniques of Translation 2. Understand the Ideology, message and aims of the literary works and writers 3. Obtain the knowledge of method of critical study of Literary works. 4. Obtain the skills of summarise, interpretation of contexts, and practice of translation 5. Employ the knowledge of translation and language and professional skills.	
<b>Programme Specific Outcomes:</b>	1. Basic knowledge for higher studies 2. Basic Knowledge of Hindi literature and its trends 3. Language skills spoken and writing skills 4. Basic idea of critical and analytical study of literature. 5. Obtains knowledge of Translation of different subjects	
<b>Course Objectives</b>	1. Identifies the writers, theme and aims of literary works	K1
	2. Understand and summarise the theme of one act plays and short stories and their techniques	K2
	3. Explains the methods and techniques of Translation of different fields	K2
	4. Evaluate the theme and artistic skills of One Act Plays and short stories and writers	K5
	5. Conceive the basic knowledge of literary themes and translation	K6
<b>Pre-requisites, if any:</b>	Basic Knowledge of Hindi Fiction and Translation	
<b>UNITS</b>		
<b>I</b>	1. Aurazeb ki Aakhiri Raat 2. Mukthidhan 3. Practice of Annotation Writing 4. Practice of Summary and Literary evaluation Writing	
<b>II</b>	1. Laksmi ka Swagat 2. Mithayeewala 3. Practice of Summary and Literary evaluation Writing 4. Translation Practice. (English to Hindi)	

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 EXISTING SYLLABUS (22-23) FOLLOWED FOR THE ACADEMIC YEAR 2023-2024

<b>III</b>	<ol style="list-style-type: none"> <li>1. Basant Ritu ka Natak</li> <li>2. Seb Aur Dev</li> <li>3. Practice of Summary and Literary evaluation Writing</li> <li>4. Introduction to Translation Practice</li> </ol>
<b>IV</b>	<ol style="list-style-type: none"> <li>1. Bahut Bada Sawal</li> <li>2. Vivah ki Teen Kathayen</li> <li>3. Practice of Summary and Literary evaluation Writing</li> <li>4. Translation Practice. (English to Hindi)</li> </ol>
<b>V</b>	<ol style="list-style-type: none"> <li>1. Translation Practice. (English to Hindi)</li> </ol>

<b>Course Outcomes</b>	<ol style="list-style-type: none"> <li>1. Identifies the nature, features, elements of One Act Plays and Short Stories and skills of Translation</li> <li>2. Understand the theme, aim of lessons and obtain skills of Evaluation.</li> <li>3. Evaluate the thought, ideology, expressional and artistic skills of writers and contextual meanings</li> <li>4. Obtain skills of summarizing, evaluating and critical study</li> <li>5. Employ the techniques and skills of Literature and Translation.</li> </ol>
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<b>Reading List (Print and Online)</b>	<ol style="list-style-type: none"> <li>1. <a href="https://hindisarang.com/hindi-ekaanki-ekaankikar/">https://hindisarang.com/hindi-ekaanki-ekaankikar/</a></li> <li>2. <a href="https://hi.wikipedia.org/wiki/हिन्दी_कहानी">https://hi.wikipedia.org/wiki/हिन्दी_कहानी</a></li> </ol>
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<b>Recommended Texts</b>	<ol style="list-style-type: none"> <li>1. <b>ONE ACT PLAY</b> (Detailed Study): <b>AATH EKANKI</b>  <b>Edited By:</b> Devendra Raj Ankur, Mahesh Anand Vani prakashan, 4695, 21-A Dariyagunj, New Delhi – 110 002</li> <li>2. <b>SHORT STORIES</b> (Non-Detailed Study): <b>SWARNA MANJARI</b>  <b>Edited by:</b> Dr. Chitti. Annapurna, Rajeswari Publications, 21/3, Mothilal Street, (Opp.Ranganathan St.), T.Nagar, Chennai–600017.</li> <li>3. Prayojan Moolak Hindi : Dr. Syed Rahamathulla, Poornima Prakashan, 4/7 B Begum III Street, Royapettah, Chennai – 14.</li> <li>4. Anuvad Abhyas Part III : Dakshin Bharat Hindi Prachar Sabha, T. Nagar, Chennai-17.</li> </ol>
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**Method of Evaluation:**

Internal Assessment	End Semester Examination	Total	Grade
25	75	100	

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
<b>CO 1</b>	S	M	S	S	S
<b>CO 2</b>	S	S	S	S	L
<b>CO 3</b>	M	S	S	S	L
<b>CO 4</b>	M	S	S	S	L
<b>CO 5</b>	S	S	S	S	S

# UNIVERSITY OF MADRAS

FOUNDATION COURSE: FRENCH  
SYLLABUS WITH EFFECT FROM 2023-2024

**UG & 5 Year PG Integrated - SEMESTER – I**

## Foundation Course in French: Prescribed Text and Grammar-I

<b>Course Outcomes</b>	<ol style="list-style-type: none"> <li>1. Introduce oneself and talk about one's likes and dislikes</li> <li>2. Invite someone, to accept or deny an invitation</li> <li>3. Making purchases at the market</li> <li>4. Recall and remember the usage of grammatical tenses in constructing sentences in a dialogue.</li> <li>5. Apply the learnt grammar rules in practice exercises to improve their understanding</li> </ol>		
<b>Course</b>	Foundation Course in French	<b>Course Code</b>	100L1K
<b>Title of the Course:</b>	Prescribed Text and Grammar-I		
<b>Credits:</b>	3		
<b>Pre-requisites, if any:</b>	---		
<b>Course Objectives</b>	Identify the basic French sentence structure		K1
	Define and describe the various grammatical tenses and use them to communicate in French		K2
	Examine the various documents presented and discuss and reply to the questions asked on it		K2 and K3
	Analyze and interpret expressions used to convey the cause, the effect, the purpose, and the opposition in French		K4
	Evaluate the grammatical nature present in passages		K5
<b>Units</b>			
<b>I</b>	Unité 1: Salut ! Unité 2: Enchanté!		
<b>II</b>	Unité 3: J'adore !		
<b>III</b>	Unité 4: Tu veux bien ?		
<b>IV</b>	Unité 5: On se voit quand ?		
<b>V</b>	Unité 6: Bonne idée !		
<b>Prescribed Text</b>	Régine Mérieux & Yves Loiseau, <b>Units 1-6</b> of <i>Latitudes 1</i> (A1 /A2), méthode de français, Didier, 2017 (Indian Edition)		

### Mapping with Programme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
<b>CO1</b>	S	M	M	L	S	M	L	S	S	S	M	S	M
<b>CO2</b>	S	M	M	L	M	M	L	S	S	S	S	S	M
<b>CO3</b>	M	S	S	M	M	M	L	S	M	M	M	S	M
<b>CO4</b>	S	M	M	L	S	M	L	S	S	S	M	S	M
<b>CO5</b>	S	M	M	L	M	M	L	S	S	S	S	S	M

**S-Strong      M-Medium      L-Low**

# UNIVERSITY OF MADRAS

FOUNDATION COURSE: FRENCH  
SYLLABUS WITH EFFECT FROM 2023-2024

## SEMESTER I

**Title of the Paper** : Prescribed Text and Grammar-I

**Prescribed textbook** : Régine Mérieux & Yves Loiseau, **Units 1-6 of *Latitudes 1*** (Indian Edition), Paris, Didier, 2017.

**Questions not to be asked from the Autoévaluation and Préparation au DELF**

**Paper setters are to strictly adhere to the syllabus and ask questions only from the pages included in the syllabus. Questions should cover the entire syllabus.**

## QUESTION PAPER PATTERN

Time : 3 Hours

Maximum Marks : 75

### **Section A (10 x 2 = 20 Marks)**

**Answer any TEN questions**

15 questions to be asked on cultural / civilisational aspects found in the prescribed textbook

### **Section B (5 x 5 = 25 Marks)**

**Answer any FIVE questions**

8 Grammar exercises to be given from the prescribed textbook

### **Section C (3 x 10 = 30 Marks)**

**Answer any THREE**

3 must be answered out of 5 topics (1 dialogue writing, 1 letter /email writing, 1 composition, 1 comprehension, 1 translation)

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# UNIVERSITY OF MADRAS

FOUNDATION COURSE: FRENCH  
SYLLABUS WITH EFFECT FROM 2023-2024

UG & 5 Year PG Integrated – SEMESTER – II

## Foundation Course in French: Prescribed Text and Grammar-II

<b>Course Outcomes</b>	<ol style="list-style-type: none"> <li>To ask for and give directions.</li> <li>To give orders or commands using <i>Impératif</i></li> <li>To narrate events from the past using <i>Passé Composé</i></li> <li>Cite the ordinal numbers in French</li> <li>Indicate the position of something using prepositions of place</li> </ol>		
<b>Course</b>	Foundation Course in French	<b>Course Code</b>	<b>100L2K</b>
<b>Title of the Course:</b>	Prescribed Text and Grammar-II		
<b>Credits:</b>	3		
<b>Pre-requisites, if any:</b>	-		
<b>Course Objectives</b>	Revise and recall the French sentence structure	K1	
	Enumerate the various grammatical tenses and use them to communicate better in French	K2	
	Summarize and develop ideas from the documents after discussing it in detail	K2 and K3	
	Write and understand dialogues based on the themes done in class	K4	
	Evaluate and comprehend text passages	K5	
<b>Units</b>			
<b>I</b>	Unité 7: C'est où?		
<b>II</b>	Unité 8: N'oubliez pas !		
<b>III</b>	Unité 9: Belle vue sur la mer !		
<b>IV</b>	Unité 10: Quel beau voyage !		
<b>V</b>	Unité 11: Oh ! joli ! Unité 12: Et après ?		
<b>Prescribed Text</b>	Régine Mérieux & Yves Loiseau, <b>Units 7-12</b> of <i>Latitudes 1</i> (A1 /A2), méthode de français, Didier, 2017 (Indian Edition)		

### Mapping with Programme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	S	M	L	M	M	L	S	S	S	M	M	M
CO2	S	M	M	L	M	M	L	S	S	S	S	M	M
CO3	M	S	S	M	S	M	M	S	S	S	M	S	S
CO4	S	S	M	L	S	M	L	S	S	S	S	S	S
CO5	S	S	S	L	M	M	L	S	S	S	M	S	S

**S-Strong      M-Medium      L-Low**

# UNIVERSITY OF MADRAS

FOUNDATION COURSE: FRENCH  
SYLLABUS WITH EFFECT FROM 2023-2024

## SEMESTER II

**Title of the Paper** : Prescribed Text and Grammar-II

**Prescribed textbook**: Régine Mérieux & Yves Loiseau, **Units 7-12 of *Latitudes 1*** (Indian Edition), Paris, Didier, 2017.

Questions not to be asked from the Autoévaluation and Préparation au DELF

Paper setters to strictly adhere to the syllabus and ask questions only from the pages included in the syllabus. Questions should cover the entire syllabus.

## QUESTION PAPER PATTERN

Time : 3 Hours

Maximum Marks : 75

### **Section A (10 x 2 = 20 Marks)**

Answer any TEN questions

15 questions to be asked on cultural / civilisational aspects found in the prescribed textbook

### **Section B (5 x 5 = 25 Marks)**

Answer any FIVE questions

8 Grammar exercises to be given from the prescribed textbook

### **Section C (3 x 10 = 30 Marks)**

Answer any THREE

3 must be answered out of 5 topics (1 dialogue writing, 1 letter /email writing, 1 composition, 1 comprehension, 1 translation)

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# UNIVERSITY OF MADRAS

FOUNDATION COURSE: ENGLISH  
SYLLABUS WITH EFFECT FROM 2023-2024

## FIRST YEAR - SEMESTER I PAPER II –GENERAL ENGLISH

Subject Code	Category	L	T	P	S	Credits	Inst. Hours	Marks		
								CIA	External	Total
100L1ZU	Part II	Y	Y	-	-	3	6	25	75	100
<b>Learning Objectives</b>										
<b>LO1</b>	To enable learners to acquire self awareness and positive thinking required in various life situations.									
<b>LO2</b>	To help them acquire the attribute of empathy									
<b>LO3</b>	To assist them in acquiring creative and critical thinking abilities									
<b>LO4</b>	To enable them to learn the basic grammar									
<b>LO5</b>	To assist them in developing LSRW skills									
Unit No.	Unit Title & Text							No. of Periods for the Unit		
<b>I</b>	<b>SELF-AWARENESS(WHO)&amp;POSITIVE THINKING(UNICEF)</b> <b>Life Story</b> 1.1 Chapter 1 from Malala Yousafzai, I am Malala 1.2 An Autobiography or The Story of My Experiments with Truth (Chapters 1, 2 & 3) M.K.Gandhi <b>Poem</b> 1.3 Where the Mind is Without Fear – Gitanjali 35 – Rabindranath Tagore 1.4 Love Cycle – Chinua Achebe							20		
<b>II</b>	<b>EMPATHY</b> <b>Poem</b> 2.1 Nine Gold Medals – David Roth 2.2 Alice Fell or poverty – William Wordsworth <b>Short Story</b> 2.3 The School for Sympathy – E.V. Lucas 2.4 Barn Burning – William Faulkner							20		
<b>III</b>	<b>CRITICAL &amp; CREATIVE THINKING</b> <b>Poem</b> 3.1 The Things That Haven't Been Done Before – Edgar Guest 3.2 Stopping by the Woods on a Snowy Evening – Robert Frost							20		

# UNIVERSITY OF MADRAS

## FOUNDATION COURSE: ENGLISH SYLLABUS WITH EFFECT FROM 2023-2024

	<b>Readers Theatre</b> 3.3 The Magic Brocade – A Tale of China 3.4 Stories on Stage – Aaron Shepard (Three Sideway Stories from Wayside School” by Louis Sachar)	
<b>IV</b>	<b>Part of Speech</b> 4.1 Articles 4.2 Noun 4.3 Pronoun 4.4 Verb 4.5 Adverb 4.6 Adjective 4.7 Preposition	15
<b>V</b>	<b>Paragraph and Essay Writing</b> 5.1 Descriptive 5.2 Expository 5.3 Persuasive 5.4 Narrative <b>Reading Comprehension</b>	15
<b>Course Outcomes</b>		
<b>Course Outcomes</b>	On completion of this course, students will:	
<b>CO1</b>	Acquire self awareness and positive thinking required in various life situations	PO1,PO7
<b>CO2</b>	Acquire the attribute of empathy.	PO1,PO2,PO10
<b>CO3</b>	Acquire creative and critical thinking abilities.	PO4,PO6,PO9
<b>CO4</b>	Learn basic grammar	PO4,PO5,PO6
<b>CO5</b>	Development and integrate the use of four language skills i.e., listening, speaking, reading and writing.	PO3,PO8
	<b>Text books (Latest Editions)</b>	
<b>1.</b>	Malala Yousafzai. I am Malala, Little, Brown and Company, 2013.	
<b>2.</b>	M.K. Gandhi. An Autobiography or The Story of My Experiments with Truth (Chapter – I), Rupa Publications, 2011.	
<b>3.</b>	Rabindranath Tagore. "Gitanjali 35" from Gitanjali (Song Offerings): A Collection of Prose Translations Made by the Author from the Original Bengali. MacMillan, 1913.	
<b>4.</b>	N.Krishnasamy. Modern English: A Book of Grammar, Usage and Composition Macmillan, 1975.	
<b>5.</b>	Aaron Shepard. Stories on Stage, Shepard Publications, 2017.	
<b>6.</b>	J.C. Nesfield. English Grammar Composition and Usage, Macmillan, 2019.	

# UNIVERSITY OF MADRAS

FOUNDATION COURSE: ENGLISH  
SYLLABUS WITH EFFECT FROM 2023-2024

## FIRST YEAR - SEMESTER II PAPER II –GENERAL ENGLISH

Subject Code	Category	L	T	P	S	Credits	Inst. Hours	Marks		
								CIA	External	Total
100L2ZU	Part II	Y	Y	-	-	3	6	25	75	100

### Learning Objectives

<b>LO1</b>	To make students realize the importance of resilience
<b>LO2</b>	To enable them to become good decision makers
<b>LO3</b>	To enable them to imbibe problem-solving skills
<b>LO4</b>	To enable them to use tenses appropriately
<b>LO5</b>	To help them use English effectively at the work place.

Unit No.	Unit Title & Text	No. of Periods for the Unit
<b>I</b>	<p><b>RESILIENCE</b></p> <p><b>Poem</b></p> <p>1.1 Don't Quit – Edgar A. Guest 1.2 Still Here – Langston Hughes</p> <p><b>Short Story</b></p> <p>1.3 Engine Trouble – R.K. Narayan 1.4 Rip Van Winkle – Washington Irving</p>	20
<b>II</b>	<p><b>DECISION MAKING</b></p> <p><b>Short Story</b></p> <p>2.1 The Scribe – Kristin Hunter 2.2 The Lady or the Tiger - Frank Stockton</p> <p><b>Poem</b></p> <p>2.3 The Road not Taken – Robert Frost 2.4 Snake – D. H Lawrence</p>	20
<b>III</b>	<p><b>PROBLEM SOLVING</b></p> <p><b>Prose life Story</b></p> <p>3.1 How I taught My Grandmother to Read – Sudha Murthy</p> <p><b>Autobiography</b></p> <p>3.3 How frog Went to Heaven – A Tale of Angolo 3.4 Wings of Fire (Chapters 1,2,3) by A.P.J Abdul Kalam</p>	20

# UNIVERSITY OF MADRAS

## FOUNDATION COURSE: ENGLISH SYLLABUS WITH EFFECT FROM 2023-2024

<b>IV</b>	<b>Tenses</b> 4.1 Present 4.2 Past 4.3 Future 4.4 Concord	15
<b>V</b>	<b>English in the Workplace</b> 5.1 E-mail – Invitation, Enquiry, Seeking Clarification 5.2 Circular 5.3 Memo 5.4 Minutes of the Meeting	15

<b>Course Outcomes</b>		
<b>Course Outcomes</b>	On completion of this course, students will;	
<b>CO1</b>	Realize the importance of resilience	PO1,PO7
<b>CO2</b>	Become good decision-makers	PO1,PO2,PO10
<b>CO3</b>	Imbibe problem-solving skills	PO4,PO6,PO9
<b>CO4</b>	Use tenses appropriately	PO4, PO5,PO6
<b>CO5</b>	Use English effectively at the work place.	PO3,PO8

### **Text Books (Latest Editions)**

### **References Books**

1	Martin Hewings. Advanced English Grammar. Cambridge University Press, 2000
2	SP Bakshi, Richa Sharma. Descriptive English. Arihant Publications (India) Ltd., 2019.
3.	Sheena Cameron, Louise Dempsey. The Reading Book: A Complete Guide to Teaching Reading. S & L. Publishing, 2019.
4	Barbara Sherman. Skimming and Scanning Techniques, Liberty University Press, 2014.
5.	Phil Chambers. Brilliant Speed Reading: Whatever you need to read, however. Pearson, 2013.
6.	Communication Skills : Practical Approach Ed. Shaikh Moula
	Ramendra Kumar. Stories of Resilience, Blue Rose Publications, 2020.

# UNIVERSITY OF MADRAS

FOUNDATION COURSE: ENGLISH  
SYLLABUS WITH EFFECT FROM 2023-2024

## Web Sources

1	Langston Hughes. Still Here <a href="https://poetryace.com/im-still-here">https://poetryace.com/im-still-here</a>
2	R. K. Narayan. Engine Trouble <a href="http://www.sbioaschooltrichy.org/work/Work/images/new/8e.pdf">http://www.sbioaschooltrichy.org/work/Work/images/new/8e.pdf</a>
3	Washington Irving. Rip Van Winkle <a href="https://www.gutenberg.org/files/60976/60976-h/60976-h.htm">https://www.gutenberg.org/files/60976/60976-h/60976-h.htm</a>
4	Frank Stockton. The Lady or the Tiger <a href="https://www.gutenberg.org/ebooks/396">https://www.gutenberg.org/ebooks/396</a>

## Mapping with Programme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
<b>CO1</b>	3	3	3	3	3	3	3	2	3	2
<b>CO2</b>	2	3	3	3	2	3	3	2	2	2
<b>CO3</b>	3	3	3	2	3	3	3	2	3	2
<b>CO4</b>	3	3	3	3	3	3	3	2	2	2
<b>CO5</b>	3	2	3	3	3	3	3	2	2	3

3 – Strong, 2 – Medium, 1 - Low

## Mapping with Programme Specific Outcomes:

CO / PO	PSO1	PSO2	PSO3	PSO4
<b>CO1</b>	3	3	3	3
<b>CO2</b>	3	3	3	3
<b>CO3</b>	3	3	3	3
<b>CO4</b>	3	3	3	3
<b>CO5</b>	3	3	3	3
<b>Weightage</b>	15	15	15	15
<b>Weighted percentage of Course Contribution toPos</b>	3.0	3.0	3.0	3.0

# **DEPARTMENT OF ENGLISH**

## B.A. ENGLISH

### PROGRAMME OUTCOME

**PO1: Disciplinary Knowledge:** Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate programme of study.

**PO2: Critical Thinking:** Capability to apply analytic thought to a body of knowledge; analyse and evaluate evidence, arguments, claims, beliefs on the basis of empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach to knowledge development.

**PO3: Communication Skills:** Ability to express thoughts and ideas effectively in writing and orally communicate with others using appropriate media; confidently share one's views and express herself/himself; demonstrate the ability to listen carefully; read and write analytically and present complex information in a clear and concise manner to different groups.

**PO4: Research-related skills:** A sense of inquiry and capability for asking relevant/appropriate questions, problem arising, synthesizing and articulating; Ability to recognize cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyze, interpret and draw conclusions from data, establish hypotheses, predict cause-and-effect relationships; ability to plan, execute and report the results of an experiment or investigation

**PO5: Cooperation/Team work:** Ability to work effectively and respectfully with diverse teams; facilitate cooperative or coordinated effort on the part of a group, and act together as a group or a team in the interests of a common cause and work efficiently as a member of a team.

**PO6: Reading & Projects:** Document their reading and interpretive practices in assignments, translation works, and independent projects.

**PO7: Confidence & Effectiveness:** Confidently and effectively articulate their literary and textual experiences.

**PO8: Social Skills & Empathetic Approach:** Reorganize a professional and reflective approach to leadership, responsibility, personal integrity, empathy, care and respect for others, accountability and self- regulation.

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

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

### PROGRAMME SPECIFIC OUTCOME

**PSO1:** Read and interpret various literary texts focusing on themes, generic conventions, historical contexts, linguistic and stylistic variations and innovations.

**PSO2:** Analyse texts, evaluate ideas and apply critical concepts and categories with

**PSO3:** Analyse texts, evaluate ideas and apply critical concepts and categories with clarity.

**PSO4:** Developing a research framework and presenting their independent ideas effectively.

**PSO5:** Equipping their employability skills to excel in professions like teaching and exposing them to various activities to empower them through communication skills.

**PSO6:** Enabling a holistic perspective towards the socio-political inequalities and environmental issues.

### CORE 1: INTRODUCTION TO ENGLISH LITERATURE

**COURSE CODE: 105C1A**

YEAR / SEMESTER	Course Name	Category	L	T	P	S	Credits	Inst. Hours	Max.Marks		
									CIA	External	Total
I year I semester	<b>Introduction to English Literature</b>	Core	Y	Y	-	-	5	5	25	75	100

Course Outcomes		
Course Outcomes	On completion of this course, students will;	
<b>CO1</b>	Understand and describe the basic elements of poetry, including meter, rhyme, and theme.	PO1
<b>CO2</b>	Gain knowledge of the elements of fiction including narrative structure, character analysis and comparison between different but related texts.	PO1, PO2
<b>CO3</b>	Have an idea about dramatic storytelling including play structure, monologues, dialogue, and scene setting.	PO4, PO6
<b>CO4</b>	Use library resources to research and develop arguments about literary works.	PO4, PO5, PO6
<b>CO5</b>	Work skillfully within a team, respect coworkers, delegate work and contribute to a group project.	PO3, PO8

**Mapping with Programme Outcomes:**

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10
<b>CO 1</b>	S	S	S	S	S	S	S	M	S	M
<b>CO 2</b>	M	S	S	S	M	S	S	M	M	M
<b>CO 3</b>	S	S	S	M	S	S	S	M	S	M
<b>CO 4</b>	S	S	S	S	S	S	S	M	M	M
<b>CO 5</b>	S	M	S	S	S	S	S	M	M	S



**Mapping with Programme Specific Outcomes:**

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
<b>Weightage</b>	15	15	15	15	15
<b>Weighted percentage of Course Contribution to Pos</b>	3.0	3.0	3.0	3.0	3.0

**Mapping with Programme Outcomes:**

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10
CO 1	S	S	S	S	S	M	S	S	S	M
CO 2	M	S	S	M	M	S	M	M	M	S
CO 3	S	S	M	M	S	M	S	M	S	M
CO 4	S	S	S	S	M	S	S	M	S	M
CO 5	S	M	S	S	S	S	M	M	M	S

**Mapping with Programme Specific Outcomes:**

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	2	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
<b>Weightage</b>	15	15	15	14	15
<b>Weighted percentage of Course</b>	3.0	3.0	3.0	2.8	3.0

**CORE 2: INDIAN WRITING IN ENGLISH COURSE CODE: 105C1B**

YEAR / SEMESTER	Course Name	Category	L	T	P	S	Credits	Inst. Hours	Max.Marks		
									CIA	External	Total
I year I semester	<b>Indian Writing in English</b>	Core	Y	Y	-	-	5	5	25	75	100

Course Outcomes		
<b>Course Outcomes</b>	On completion of this course, students will	
<b>CO1</b>	Appreciate the historical trajectory of various genres of Indian Writing in English from colonial times to till the present	PO1
<b>CO2</b>	Analyze Indian literary texts written in English in terms of colonialism, postcolonialism, regionalism, and nationalism	PO1, PO2
<b>CO3</b>	Understand the role of English as a medium for political awakening and the use of English in India for creative writing	PO4, PO6
<b>CO4</b>	Analyze how the sociological, historical, cultural and political context impacted the texts selected for study	PO4, PO5, PO6
<b>CO5</b>	Evaluate critically the contributions of major Indian English poets and dramatists	PO3, PO8

**Mapping with Programme Outcomes:**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
<b>CO1</b>	3	3	3	3	3	3	3	2	3	2
<b>CO2</b>	2	3	3	3	2	3	3	2	2	2
<b>CO3</b>	3	3	3	2	3	3	3	2	3	2
<b>CO4</b>	3	3	3	3	3	3	3	2	2	2
<b>CO5</b>	3	2	3	3	3	3	3	2	2	3

3 – Strong, 2 – Medium , 1 - Low

**Mapping with Programme Specific Outcomes:**

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	2	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
<b>Weightage</b>	15	15	15	14	15
<b>Weighted percentage of Course Contribution to POs</b>	3.0	3.0	3.0	2.8	3.0

**FIRST YEAR - SEMESTER I ELECTIVE I- SOCIAL HISTORY OF ENGLAND**

Subject Code	Category	L	T	P	S	Credits	Inst. Hours	Marks		
								CIA	External	Total
105E1A	Elective	4	-	-	-	3	4	25	75	100
<b>Course Outcomes</b>										
<b>Course Outcomes</b>	On completion of this course, students will;									
CO1	Gain extensive insight into the history of English literature, while laying special emphasis on various literary movements, genres and writers that are held to be the representatives of their times.								PO1	
CO2	Evaluate the way socio-cultural and historical phenomena influence the literary production of a particular period								PO1, PO2	
CO3	Familiarize themselves with the socio-cultural ambience and the discursive frameworks of various ages								PO4, PO6	
CO4	Develop a nuanced appreciation of the literary stalwarts of those times.								PO4, PO5, PO6	
CO5	Gain in-depth understanding on the growth of the English language under the influence of various other languages including Latin and French, besides being mentored in the structural nitty-gritties of the language.								PO3, PO8	

**Mapping with Programme Outcomes:**

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0
CO 1	S	S	S	S	S	M	S	S	S	M
CO 2	M	S	S	M	M	S	M	M	M	S
CO 3	S	S	M	M	S	M	S	M	S	M
CO 4	S	S	S	S	M	S	S	M	S	M
CO 5	S	M	S	S	S	S	M	M	M	S

### Mapping with Programme Specific Outcomes:

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	2	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	14	15
Weighted percentage of Course Contribution to Pos	3.0	3.0	3.0	2.8	3.0

### BRIDGE COURSE: FUNDAMENTAL FRAMEWORK FOR READING ENGLISH LITERATURE

Subject Code	Category	L	T	P	S	Credits	Inst. Hours	Marks		
								CIA	External	Total
105B1A	Core	Y	Y	-	-	2	2	25	75	100

Course Outcomes		
<b>Course Outcomes</b>	On completion of this course, students will;	
CO1	Attain communicative competence so that they can use language accurately and appropriately	PO1
CO2	Understand the basic features of communication and aim at improving language skills	PO1, PO2
CO3	Gain useful letter/report writing tools, tips and techniques to effectively apply the skills to their everyday workplace correspondence.	PO4, PO6
CO4	Demonstrate the particulars of writing effective emails, whilst improving punctuation and grammar.	PO4, PO5, PO6
CO5	Make sure that the style, content and message is concise, correct and appropriate.	PO3, PO8

### FIRST YEAR - SEMESTER II CORE III – BRITISH LITERATURE-I

Subject Code	Category	L	T	P	S	Credits	Inst. Hours	Marks		
								CIA	External	Total
105C2A	Core	Y	Y	-	-	5	5	25	75	100
<b>Course Outcomes</b>										

<b>Course Outcomes</b>	On completion of this course, students will;	
<b>CO1</b>	Demonstrate knowledge of the major social, political, philosophical, and scientific events forming the back drop for the development of early British Literature.	PO1
<b>CO2</b>	Synthesize, integrate, and connection formation by Writing essays using techniques of critic is made by evaluation.	PO1, PO2
<b>CO3</b>	Read and discuss the themes, approaches, styles, and contributions to the development of British literature from the Medieval Period to the end of the eighteenth-century	PO4, PO6
<b>CO4</b>	Distinguish between the characteristics of British literary movements in discussing and writing about British literature.	PO4, PO5, PO6
<b>CO5</b>	Critically appreciate literature using standard literary terminology and other literary conventions.	PO3, PO8

#### Mapping with Programme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
<b>CO1</b>	3	3	3	3	3	3	3	2	3	2
<b>CO2</b>	2	3	3	3	2	3	3	2	2	2
<b>CO3</b>	3	3	3	2	3	3	3	2	3	2
<b>CO4</b>	3	3	3	3	3	3	3	2	2	2
<b>CO5</b>	3	2	3	3	3	3	3	2	2	3

3 – Strong, 2 – Medium , 1 - Low

#### Mapping with Programme Outcomes:

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
<b>CO1</b>	3	3	3	3	3
<b>CO2</b>	3	3	3	2	3
<b>CO3</b>	3	3	3	3	3
<b>CO4</b>	3	3	3	3	3
<b>CO5</b>	3	3	3	3	3
<b>Weightage</b>	15	15	15	14	15
<b>Weighted percentage of Course Contribution to POs</b>	3.0	3.0	3.0	2.8	3.0

**FIRST YEAR - SEMESTER II CORE IV AMERICAN LITERATURE**

Subject Code	Category	L	T	P	S	Credits	Inst. Hours	Marks		
								CIA	External	Total
105C2B	Core	Y	Y	-	-	5	5	25	75	100

**Course Outcomes**

Course Outcomes	On completion of this course, students will;
<b>CO1</b>	Analyze and discuss works of American literature from arrange of genres (e.g. poetry, nonfiction, slave narrative, captivity narrative, literary fiction, genre fiction, sermon, public proclamations, letters, etc.).
<b>CO2</b>	Identify relationships between moments in American history, colonialism, and culture and their representation in works of American literature.
<b>CO3</b>	Articulate ways that American literature reflects complex historical and cultural experiences.
<b>CO4</b>	Produce a mix of critical, creative, and/ or reflective works about American literature to 1865.
<b>CO5</b>	Analyze and describe about American literature using standard literary terminology and other literary conventions.

**Mapping with Programme Outcomes:**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
<b>CO1</b>	3	3	3	3	3	3	3	2	3	2
<b>CO2</b>	2	3	3	3	2	3	3	2	2	2
<b>CO3</b>	3	3	3	2	3	3	3	2	3	2
<b>CO4</b>	3	3	3	3	3	3	3	2	2	2
<b>CO5</b>	3	2	3	3	3	3	3	2	2	3

**3 – Strong, 2 – Medium , 1 - Low**

### Mapping with Programme Outcomes:

:

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	2	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
<b>Weightage</b>	15	15	15	14	15
<b>Weighted percentage of Course Contribution to POs</b>	3.0	3.0	3.0	2.8	3.0

### FIRST YEAR - SEMESTER II

### SOCIAL HISTORY OF ENGLAND-II

Subject Code	Category	L	T	P	S	Credits	Inst. Hours	Marks		
								CIA	External	Total
105E2A	Elective	Y	Y	-	-	3	4	25	75	100

Course Outcomes`		
<b>Course Outcomes</b>	On completion of this course, students will;	
<b>CO1</b>	Recognize the milestones of British History from 18 <sup>th</sup> century till the modern age and can relate how these movements influence the English society and Literatures of that period	PO1
<b>CO2</b>	Identify the various revolutions and movements of English society leading to form a crucial opinion for the benefit of humanity	PO1, PO2
<b>CO3</b>	Examine the causes and consequences of the war of Americans and French	PO4, PO6
<b>CO4</b>	Evaluate the effects of the revolutions and their impacts in literature in a better perspective	PO4, PO5, PO6
<b>CO5</b>	Analyze the reforms and the development of education, transport and communication in the modern era.	PO3, PO8

### Mapping with Programme Outcomes:

#### Mapping of Course Outcomes to Program Specific Outcomes

	PSO1	PSO2	PSO3	PSO4	PSO5	Average
CO1	3	3	2	2	3	2.6
CO2	2	2	3	2	3	2.4
CO3	3	3	3	2	2	2.6
CO4	3	3	3	3	2	2.8
CO5	2	3	2	3	3	2.6

Key: Strongly Correlated – 3      Moderately Correlated – 2      Weakly Correlated - 1

### Mapping with Programme Outcomes:

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	2	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
Weightage	15	15	15	14	15
Weighted percentage of Course Contribution to Pos	3.0	3.0	3.0	2.8	3.0

### PUBLIC SPEAKING SKILLS

Subject Code	Category	L	T	P	S	Credits	Inst. Hours	Marks		
								CIA	External	Total
105S2A	SEC-II	Y	Y	-	-	2	2	25	75	100
<b>Course Outcomes</b>										
<b>Course Outcomes</b>	On completion of this course, students will;									
CO1	Demonstrate an understanding of the principles of public speaking									PO1
CO2	Recognize barriers to public speaking and identify how to avoid them									PO1, PO2
CO3	Understand how to give effective verbal and non-verbal feedback									PO4, PO6
CO4	Learn about planning speech organization for the intended audience									PO4, PO5, PO6
CO5	Practice effective group delivery and speech informal context.									PO3, PO8



**Mapping with Programme Outcomes:**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
<b>CO1</b>	3	3	3	3	3	3	3	2	3	2
<b>CO2</b>	2	3	3	3	2	3	3	2	2	2
<b>CO3</b>	3	3	3	2	3	3	3	2	3	2
<b>CO4</b>	3	3	3	3	3	3	3	2	2	2
<b>CO5</b>	3	2	3	3	3	3	3	2	2	3

**Mapping with Programme Outcomes:**

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
<b>CO1</b>	3	3	3	3	3
<b>CO2</b>	3	3	3	3	3
<b>CO3</b>	3	3	3	2	3
<b>CO4</b>	3	3	3	3	3
<b>CO5</b>	3	3	3	3	3
<b>Weightage</b>	15	15	15	14	15
<b>Weighted percentage of Course Contribution to Pos</b>	3.0	3.0	3.0	2.8	3.0

**DIGITAL LITERACY AND CONCEPTS**

Subject Code	Category	L	T	P	S	Credits	Inst. Hours	Marks		
								CIA	External	Total
105S2B	SEC-III	Y	Y	-	-	2	5	25	75	100
<b>.Course Outcomes</b>										
<b>Course Outcomes</b>	On completion of this course, students will;									
<b>CO1</b>	Gain knowledge of digital literacy.							PO1		
<b>CO2</b>	Acquire skills in text literacies and language.							PO1, PO2		
<b>CO3</b>	Acquire skills in information digital literacy.							PO4, PO6		
<b>CO4</b>	Build confidence in using digital literacy.							PO4, PO5, PO6		
<b>CO5</b>	Aware of the various types socio-economic factors in digital literacy.							PO3, PO8		

**Mapping with Programme Outcomes:**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
<b>CO1</b>	3	3	3	3	3	3	3	2	3	2
<b>CO2</b>	2	3	3	3	2	3	3	2	2	2
<b>CO3</b>	3	3	3	2	3	3	3	2	3	2
<b>CO4</b>	3	3	3	3	3	3	3	2	2	2
<b>CO5</b>	3	2	3	3	3	3	3	2	2	3

**3 – Strong, 2 – Medium , 1 - Low**

### Mapping with Programme Outcomes:

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
<b>Weightage</b>	15	15	15	15	15

### SECOND YEAR AND THIRD YEAR:

**CO14: TAMIL III** – The course mainly focuses on the importance of Religion and religious people. It spreads love, affection and self-confidence to all the people. It also focuses on life and life style of the ancient people like Kannagi, Madhavi and many epic stories.

**CO15: ENGLISH III** – After successful completion of this course the students develop their skills in the areas of academic reading, writing, speaking, and listening. The students can demonstrate and understand which helps an ability to produce the structure, conventions and characteristics of a range of short academic essays. Deliver structured academic oral and written presentations.

**CO16: BRITISH LITERATURE III** – Reveal their ability to discuss cogently, both orally and in writing the important concepts, themes and traditions in the 20th cent British literature and contemporary British literature. Take cognizance of the seminal socio-political and historical events of the twentieth century, which exerted a deep influence on life and literature of the time. Understand and appreciate the broad spectrum of literary and artistic movements of the Twentieth century and thereby develop the critical acumen to comprehend the complementarity of theme and technique in the literary works. Exposed to analyze and demonstrate the knowledge of the major literary movements of the period. Gain the insight into the major issues related to the cultural and social context of the British society in the 20th century. Receive training to understand and deploy a range of terms and concepts pertaining to the British literary studies.

**CO17: ASPECTS OF ENGLISH LANGUAGE I** - To recall, reinforce and test knowledge of English Grammar and to sensitize on correct and incorrect use of the English language. This course will make the students to know the beauty of the coherence of Language and Literature. Demonstrate the awareness of evolution theory of language by varied culture. Study the formation of new words. Apply literary terminology for Narrative, Poetic and Dramatic genres. Explore literary elements. Identify and use the figures of speech. Appreciate literary form and structure in shaping a text's meaning.

**CO18: BACKGROUND TO ENGLISH LITERATURE-III** - This paper aims at introducing basic concepts about English history, literary forms and literary periods with linguistic, historical background to enable students understand the contexts and background of British literature of the Twentieth Century.

**CO19: SOFT SKILLS-** Upon completion of this course, the students will be able to construct simple sentences in French. Demonstrate an elementary knowledge of French sentence structure through speaking and writing.

**CO20: ENVIRONMENTAL STUDIES** – To analyze the importance and influence of environment on the economy including the quality of manpower. To define the nature and classification of resource and energy within the context in India. To gain knowledge on environment awareness program. To illustrate about the international environment assessment program.

**CO21: TAMIL IV-** Ancient literature folks of inner and outer activities of the country are focused in this course. It also focuses on noble culture, tradition and discipline spread among the students through the historical plays. Students are also learning climate, seasons, atmosphere, agriculture and generosity. It also focuses on ancient moral and mythical values.

**CO22: ENGLISH IV** – This course develops English language skills in listening, speaking, reading and writing by having learners engage in a range of communicative tasks and activities. Further the course expands the learner's use of grammatically correct and appropriate language in speaking and writing for effective communication in a variety of interpersonal and academic situations.

**CO23: AMERICAN LITERATURE I** – The students acquire knowledge about American literature, its cultural themes, literary periods and key artistic features. They can understand the various aspects of American society through a critical examination of the literary texts representing different periods and cultures. To introduce the students to the evolution of American literature through the study of pioneering texts - Discovery of America, The Natives, Founding Nations, History of the United States of America, A study of the geographical map of USA, The Beginnings of American Literature.

**CO24: ASPECTS OF ENGLISH LANGUAGE-II** - Understand the origin of language and the development of writing. Comprehend basic grammatical and semantic categories of English. Understand the regional and social variations of English. Grasp the complexity of language as a communication system shaped by cognitive, cultural and social factors. Comprehend the features of speech sounds in English and their respective RP phonetic symbols. Know how speech organs work and attain a practical knowledge of the articulation of the English speech sounds, acquiring, especially, the following skills: Distinguish and properly enunciate voiced and voiceless sounds and produce native-like intonation, rhythm and stress in sentences. Utilize phonetic dictionary symbols to continue to improve pronunciation.

**CO25: BACKGROUND TO EUROPEAN AND AMERICAN LITERATURE-IV** This paper aims at introducing basic concepts about seminal concepts from European and American histories to enable students understand the contexts and background of European and American literatures. At the end of this course students will be able to Identify and define basic terms and concepts which are needed for advanced courses in European and American literature

**CO26: AMERICAN LITERATURE II** – The students acquire knowledge about American literature, its cultural themes, literary periods and key artistic features in an advanced level. They can understand the various aspects of American society through a critical examination of the literary texts representing different periods, cultures and theories.

**CO27: WORLD CLASSICS IN TRANSLATION** – This paper aims at introducing students to a few seminal classics of the world to expose them to classical literary styles and perspectives and gain an understanding of early human experiences from different parts of the world. What is World Literature, The significance of translation in reading classics, Historical and Cultural past of Greek and Rome, The influence of World Literature, A Review of world-renowned classical writers.

**CO28: ASPECTS OF ENGLISH LANGUAGE–III** - Understand the origin of language and the development of writing. Comprehend basic grammatical and semantic categories of English. Understand the regional and social variations of English. Grasp the complexity of language as a communication system shaped by cognitive, cultural and social factors. Comprehend the features of speech sounds in English and their respective RP phonetic symbols. Know how speech organs work and attain a practical knowledge of the articulation of the English speech sounds, acquiring, especially, the following skills: Distinguish and properly enunciate voiced and voiceless sounds and produce native-like intonation, rhythm and stress in sentences. Utilize phonetic dictionary symbols to continue to improve pronunciation.

**CO29: INTRODUCTION TO LITERARY THEORIES** – Analyse cogently the changing perspectives of writings through the times and place them in the contemporary socio-political and cultural perspectives. Explore the living literary merit whether medieval or modern. Chronologically fix authors, texts, movements' ideologies and literary practices. Possess an awareness of alternatively defined traditions and genres, such as women's literature, postcolonial literatures, and world literatures. Analyse literature using appropriate critical terminology and Theatrical figures.

**CO30: INTRODUCTION TO JOURNALISM-** Appreciate journalistic writing as a form of literature. Comprehend the complex relationship between communication and media theories. Raise their level of confidence in critical analysis and research in creative works of writing.

**CO31: VALUE EDUCATION-** To learn the importance of values which acts as guiding factor in day-to-day life. Personal values like affection, compassion, gratitude, courage, optimism is taught to the students to improve their mind and personality. Family values and importance of family bonding are understood by the students. Students understand the difference between self - esteem and ego and the harmful effects of Anger.

**CO32: POSTCOLONIAL LITERATURES IN ENGLISH -** Demonstrate through their understanding that the texts produced by non-canonical or underrepresented writers have much significance as they narrate the human experiences from the historical and cultural contexts. Better understand the ambivalence and polarized scenarios in which all the postcolonial countries had been caught in, in the past. Understand that the victim position is the cornerstone experience of all the post- colonial nations and find further scope for analysis and exploration of real-life experiences of the people

**CO33: CONTEMPORARY LITERATURE-** Upon the successful completion of the course, the students would display a working knowledge of the historical contexts of significant works of the past decade. Identify and describe distinct literary characteristics of contemporary literature and demonstrate an understanding of how 21<sup>st</sup> century culture, trends, and historical events affect the literature produced today.

**CO34: INDIAN LITERATURES in ENGLISH** The objective of the course is to familiarize the students with the emergence and growth of Indian Writing in English in the context of colonial experience. The course will discuss issues concerning Indian Writing in English such as the representation of culture, identity, history, constructions of nation, (post)national and gender politics, cross-cultural transformations. The student will be appreciating Nation-Nationalism; Counter Discourse; Subalternity; Identity Movements. Course Outcomes: After the completion of this course, the participants would gain insight into 'Indianness' through representative works. Students will be able to appreciate the historical trajectory of various genres of Indian Writing in English from colonial times to till the present analyze Indian literary texts written in English in terms of colonialism, postcolonialism, regionalism, and nationalism Understand the role of English as a medium for political awakening and the use of English in India for creative writing analyze how the sociological, historical, cultural and political context impacted the texts selected for study analyse the strength and constraints of Indian English as a literary medium. evaluate critically the contributions of major Indian English poets and dramatists develop a literary sensibility and display an emotional response to the literary texts and cultivate a sense of appreciation for them apply the ideas encapsulated in Indian Aesthetics to literary texts.

**CO35: WOMEN'S WRITING** – The students will have an awareness of class, race and gender as social constructs and about how they influence women's lives. The students will have acquired the skill to understand feminism as a social movement and a critical tool. They will be able to explore the plurality of female experiences. They will be equipped with analytical, critical and creative skills to interrogate the biases in the construction of gender and patriarchal norms

**CO36: GREEN STUDIES** - This paper seeks to give awareness, and to sensitize students on the role of literature in addressing contemporary social and environmental concerns, using the relevant Tinai and the postmodern Eco criticism to analyze literary texts. At the end of the course students will be able to acquire awareness about one of the oldest forms of ecocriticism- the Tinai understand and respect world views and the discrimination in society as failure to comply with egalitarian values of Nature. Become familiar with the opposing viewpoints in Man's relationship with the physical environment from literary texts understand and identify Ecological concepts- Symbiosis, Mutation, Parasitism Biodiversity from the literary texts prescribed. become familiar with ecological, deep ecological and Oiko poetic principles apply these critical tools to analyse and understand environmental messages from literary texts and other mediums

# **DEPARTMENT OF COMMERCE**

- **B.COM GENERAL**
- **B.COM BANK MAANAGEMENT**
- **B.COM COMPUTER APPLICATION**
- **M.COM ACCOUNTING AND FINANCE**

# B.COM GENERAL

## PROGRAMME OUTCOMES

**PO1: Disciplinary knowledge:** Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate Programme of study

**PO2: Communication Skills:** Ability to express thoughts and ideas effectively in writing and orally; Communicate with others using appropriate media; confidently share one's views and express herself/himself; demonstrate the ability to listen carefully, read and write analytically, and present complex information in a clear and concise manner to different groups.

**PO3: Critical thinking:** Capability to apply analytic thought to a body of knowledge; analyse and evaluate evidence, arguments, claims, beliefs on the basis of empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach to knowledge development.

**PO4: Problem solving:** Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge; and apply one's learning to real life situations.

**PO5: Analytical reasoning:** Ability to evaluate the reliability and relevance of evidence; identify logical flaws and holes in the arguments of others; analyze and synthesize data from a variety of sources; draw valid conclusions and support them with evidence and examples, and addressing opposing viewpoints.

**PO6: Research-related skills:** A sense of inquiry and capability for asking relevant/appropriate questions, problem arising, synthesizing and articulating; Ability to recognize cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyse, interpret and draw conclusions from data, establish hypotheses, predict cause and-effect relationships; ability to plan, execute and report the results of an experiment or investigation.

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

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

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

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



**PO11: Self-directed learning:** Ability to work independently, identify appropriate resources required for a project, and manage a project through to completion.

**PO12: Multicultural competence:** Possess knowledge of the values and beliefs of multiple cultures and a global perspective; and capability to effectively engage in a multicultural society and interact respectfully with diverse groups.

**PO13: Moral and ethical awareness/reasoning:** Ability to embrace moral/ethical values in conducting one's life, formulate a position/argument about an ethical issue from multiple perspectives, and use ethical practices in all work. Capable of demonstrating the ability to identify ethical issues related to one's work, avoid unethical behaviour such as fabrication, falsification or misrepresentation of data or committing plagiarism, not adhering to intellectual property rights; appreciating environmental and sustainability issues; and adopting objective, unbiased and truthful actions in all aspects of work.

**PO14: Leadership readiness/qualities:** Capability for mapping out the tasks of a team or an organization, and setting direction, formulating an inspiring vision, building a team who can help achieve the vision, motivating and inspiring team members to engage with that vision, and using management skills to guide people to the right destination, in a smooth and efficient way.

**PO15: Lifelong learning:** Ability to acquire knowledge and skills, including learning how to learn<sup>66</sup>, that are necessary for participating in learning activities throughout life, through self-paced and self-directed learning aimed at personal development, meeting economic, social and cultural objectives, and adapting to changing trades and demands of work place through knowledge/skill development/reskilling.

### **PROGRAMME SPECIFIC OUTCOMES**

**PSO1: Placement:** To prepare the students who will demonstrate respectful engagement with others' ideas, behaviours, beliefs and apply diverse frames of reference to decisions and action. Further the students are encouraged with add-on value based and job-oriented courses which ensure them to sustain in the organisation level.

**PSO2: Contribution to Business World:** Apply theoretical concepts to business practices to produce employable, ethical, and innovative professionals to sustain in the dynamic business world.

**PSO3: Contribution to the Society:** To contribute to the development of the society by collaborating with stakeholders for mutual benefit. Become acquainted with commercial knowledge and soft skill to react in the most appropriate way when faced with challenges in the society.

**FIRST YEAR – SEMESTER – I**

**CORE-I: FINANCIAL ACCOUNTING - I**

Subject Code	L	T	P	S	Credits	Inst. Hours	Marks		
							CIA	External	Total
146C1A	5				5	5	25	75	100

CO	Course Outcomes
CO1	Remember the concept of rectification of errors and Bank reconciliation statements
CO2	Apply the knowledge in preparing detailed accounts of sole trading concerns
CO3	Analyse the various methods of providing depreciation
CO4	Evaluate the methods of calculation of profit
CO5	Determine the royalty accounting treatment and claims from insurance companies in case of loss of stock.

**MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES**

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

**3 – Strong, 2- Medium, 1-low**

**FIRST YEAR – SEMESTER – I**

**CORE-II: PRINCIPLES OF MANAGEMENT**

Subject Code	L	T	P	S	Credits	Inst. Hours	Marks		
							CIA	External	Total
146C1B	5				5	5	25	75	100

Course Outcomes	
CO1	Demonstrate the importance of principles of management.
CO2	Paraphrase the importance of planning and decision making in an organization.
CO3	Comprehend the concept of various authorizes and responsibilities of an organization.
CO4	Enumerate the various methods of Performance appraisal
CO5	Demonstrate the notion of directing, co-coordination and control in the management.

**MAPPING WITH PROGRAMME OUTCOMES AND  
PROGRAMME SPECIFIC OUTCOMES**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
<b>CO1</b>	3	2	2	3	3	2	2	2	3	2	3
<b>CO2</b>	3	2	3	3	2	2	2	2	3	2	2
<b>CO3</b>	3	2	2	3	2	2	2	1	3	2	2
<b>CO4</b>	3	2	2	3	2	2	2	2	3	2	2
<b>CO5</b>	3	2	3	3	2	2	2	1	3	2	2
<b>TOTAL</b>	15	10	12	15	11	10	10	8	15	10	11
<b>AVERAGE</b>	3	2	2.4	3	2.2	2	2	1.6	3	2	2.2

**3 – Strong, 2- Medium, 1- low**

**FIRST YEAR – SEMESTER – I ELECTIVE I:**

**BUSINESS ECONOMICS**

Subject Code	L	T	P	S	Credits	Inst. Hours	Marks		
							CIA	External	Total
146E1C	4				3	4	25	75	100

<b>Course Outcomes</b>	
<b>CO1</b>	Explain the positive and negative approaches in economic analysis
<b>CO2</b>	Understood the factors of demand forecasting
<b>CO3</b>	Know the assumptions and significance of indifference curve
<b>CO4</b>	Outline the internal and external economies of scale
<b>CO5</b>	Relate and apply the various methods of pricing

**MAPPING WITH PROGRAMME OUTCOMES AND  
PROGRAMME SPECIFIC OUTCOMES**

	<b>PO 1</b>	<b>PO 2</b>	<b>PO 3</b>	<b>PO 4</b>	<b>PO 5</b>	<b>PO 6</b>	<b>PO 7</b>	<b>PO 8</b>	<b>PSO 1</b>	<b>PSO 2</b>	<b>PSO 3</b>
<b>CO1</b>	3	2	2	2	2	2	2	2	1	2	2
<b>CO2</b>	3	2	3	3	2	2	2	2	2	2	2
<b>CO3</b>	3	2	3	3	2	2	2	2	2	2	2
<b>CO4</b>	3	2	2	3	2	2	2	2	2	2	2
<b>CO5</b>	3	2	3	3	2	2	2	2	2	2	2
<b>TOTAL</b>	15	10	13	14	11	10	10	10	10	10	10
<b>AVERAGE</b>	3	2	2.6	2.8	2.2	2	2	2	2	2	2

**3 – Strong, 2- Medium, 1- Low**

**FIRST YEAR – SEMESTER - II CORE – III: FINANCIAL ACCOUNTING-II**

<b>Subject Code</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>S</b>	<b>Credits</b>	<b>Inst. Hours</b>	<b>Marks</b>		
							<b>CIA</b>	<b>External</b>	<b>Total</b>
<b>146C2A</b>	<b>5</b>				<b>5</b>	<b>5</b>	<b>25</b>	<b>75</b>	<b>100</b>

<b>Course Outcomes</b>	
<b>CO1</b>	To evaluate the Hire purchase accounts and Instalment systems
<b>CO2</b>	To prepare Branch accounts and Departmental Accounts
<b>CO3</b>	To understand the accounting treatment for admission and retirement in partnership
<b>CO4</b>	To know Settlement of accounts at the time of dissolution of a firm.
<b>CO5</b>	To elaborate the role of IFRS

**MAPPING WITH PROGRAMME OUTCOMES AND  
PROGRAMME SPECIFIC OUTCOMES**

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3
<b>CO1</b>	3	2	3	3	2	3	2	2	3	2	2
<b>CO2</b>	3	2	3	3	3	2	2	2	3	2	2
<b>CO3</b>	3	2	2	3	3	2	2	2	3	2	2
<b>CO4</b>	3	2	3	3	2	2	2	2	3	2	2
<b>CO5</b>	3	3	3	3	3	3	3	3	3	3	3
<b>TOTAL</b>	16	11	14	15	14	12	11	11	15	11	11
<b>AVERAGE</b>	3.2	2.2	2.8	3	2.8	2.4	2.2	2.2	3	2.2	2.2

**3 – Strong, 2- Medium, 1-**

**FIRST YEAR – SEMESTER – II CORE – IV: BUSINESS LAW**

Subject Code	L	T	P	S	Credits	Inst. Hours	Marks		
							CIA	External	Total
<b>146C2B</b>	<b>5</b>				<b>5</b>	<b>5</b>	<b>25</b>	<b>75</b>	<b>100</b>

<b>Course Outcome</b>	
<b>CO1</b>	Explain the Objectives and significance of Mercantile law
<b>CO2</b>	Understand the clauses and exceptions of Indian Contract Act.
<b>CO3</b>	Explain concepts on performance, breach and discharge of contract.
<b>CO4</b>	Outline the contract of indemnity and guarantee
<b>CO5</b>	Explain the various provisions of Sale of Goods Act 1930

**MAPPING WITH PROGRAMME OUTCOMES AND  
PROGRAMME SPECIFIC OUTCOMES**

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

**FIRST YEAR – SEMESTER - II**  
**ELECTIVE - II: INDIAN ECONOMIC DEVELOPMENT**

Subject Code	L	T	P	S	Credits	Inst. Hours	Marks		
							CIA	External	Total
146E2C	4				3	4	25	75	100

Course Outcomes	
CO1	Elaborate the role of State and Market in Economic Development
CO2	Explain the Sectorial contribution to National Income
CO3	Illustrate and Compare National Income at constant and current prices.
CO4	Describe the canons of public expenditure
CO5	Understand the theories of money and supply

**MAPPING WITH PROGRAMME OUTCOMES AND  
PROGRAMME SPECIFIC OUTCOMES**

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3
CO1	3	2	2	3	2	2	2	2	2	2	2
CO2	3	2	3	3	2	2	2	2	2	3	2
CO3	3	2	3	3	2	2	2	2	2	2	2
CO4	3	2	3	3	2	2	2	2	2	2	2
CO5	3	2	3	3	2	2	2	2	2	2	2
<b>TOTAL</b>	15	10	14	15	10	10	10	10	10	13	10
<b>AVERAGE</b>	3	2	2.8	3	2	2	2	2	2	2.2	2

**3 – Strong, 2- Medium, 1- Low**

## SECOND AND THIRD YEAR:

**CO11:** To enable the students, understand applications of accounting transactions in corporate sectors and to understand the various provisions of the Accounting Standards and Company's Act 2013, new trends in issuing redemption of shares in company accounts.

**CO12:** To enlighten the students on the provisions of Law governing the general contract and special contract and recent amendments in Companies Act.

**CO13:** To Study the Indian Banking regulation Act 1949, Commercial Bank, Development and Digital Bank and to understand various financial Services and Financial system.

**CO14:** To make the students understand the importance and the relevance of marketing in Today's Business World and enable them to know the features of Indian marketing.

**CO15:** To understand the relevance the need of the statistics in the current scenario and to customize the importance of Business Statistics.

**CO16:** EVS-To develop the student's concern about our own environment. The concern leads us to act at their own level to protect the environment we all live in.

**CO17:** To understand the procedures of corporate restructuring and to prepare the various accounting statements

**CO18:** To gain knowledge on Company Law provisions and amendments.

**CO19:** To provide knowledge on financial markets and institutions and to impart knowledge on financial markets and institutions.

**CO20:** To understand the concepts of Indirect taxation, types and Assessment procedures.

**CO21:** To Understand the Concept of Operations Research and to help the students to Understand the Various Techniques of Solving Problems.

**CO22: EVS:** To Understand and evaluate the global scale of environmental problems; and. Reflect critically on their roles, responsibilities, and identities as citizens, consumers and environmental actors in a complex, interconnected world.

**CO23:** To gain knowledge and to understand the basic elements of costing.

**CO24:** To gain in sight of the Auditing practices prevailing in the present scenario and understand the general approach of audit in EDP environment.

**CO25:** To understand the basic concepts of logistics and supply chain management and prepare them self to work in logistics and allied industries.

**CO26:** To understand the basics of financial management, investing, financing and dividend decisions.

**CO27:** To understand the concepts of Income tax, Types of filing and computation of tax from various head.

**CO28:** To understand the concepts of cost accounting, methods and its usage in decision making.

**CO29:** To understand the primary purpose of management accounting namely financial statement analysis and budgetary control. To develop and apply budget for planning and controlling purpose.

**CO30:** To understand on the basic concepts of entrepreneurship and business opportunities. Too familiar with knowledge about business and project reports for starting a new venture on team based.

**CO31:** To understand the procedure for computing taxable income from different heads, clubbing of income, Setoff and carry forward of losses and Deductions applicable to an individual.

**CO32:** To understand the basic concepts, functions and functioning of Human resource department of the organizations.



## **B.COM BANK MANAGEMENT**

### **PROGRAMME OUTCOMES**

**PO1: Disciplinary knowledge:** Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate Programme of study

**PO2: Communication Skills:** Ability to express thoughts and ideas effectively in writing and orally; Communicate with others using appropriate media; confidently share one's views and express herself/himself; demonstrate the ability to listen carefully, read and write analytically, and present complex information in a clear and concise manner to different groups.

**PO3: Critical thinking:** Capability to apply analytic thought to a body of knowledge; analyse and evaluate evidence, arguments, claims, beliefs on the basis of empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach to knowledge development.

**PO4: Problem solving:** Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge; and apply one's learning to real life situations.

**PO5: Analytical reasoning:** Ability to evaluate the reliability and relevance of evidence; identify logical flaws and holes in the arguments of others; analyze and synthesize data from a variety of sources; draw valid conclusions and support them with evidence and examples, and addressing opposing viewpoints.

**PO6: Research-related skills:** A sense of inquiry and capability for asking relevant/appropriate questions, problem arising, synthesizing and articulating; Ability to recognise cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyse, interpret and draw conclusions from data, establish hypotheses, predict cause and-effect relationships; ability to plan, execute and report the results of an experiment or investigation.

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

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

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

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

**PO11: Self-directed learning:** Ability to work independently, identify appropriate resources required for a project, and manage a project through to completion.

**PO12: Multicultural competence:** Possess knowledge of the values and beliefs of multiple cultures and a global perspective; and capability to effectively engage in a multicultural society and interact respectfully with diverse groups.

**PO13: Moral and ethical awareness/reasoning:** Ability to embrace moral/ethical values in conducting one's life, formulate a position/argument about an ethical issue from multiple perspectives, and use ethical practices in all work. Capable of demonstrating the ability to identify ethical issues related to one's work, avoid unethical behaviour such as fabrication, falsification or misrepresentation of data or committing plagiarism, not adhering to intellectual property rights; appreciating environmental and sustainability issues; and adopting objective, unbiased and truthful actions in all aspects of work.

**PO14: Leadership readiness/qualities:** Capability for mapping out the tasks of a team or an organization, and setting direction, formulating an inspiring vision, building a team who can help achieve the vision, motivating and inspiring team members to engage with that vision, and using management skills to guide people to the right destination, in a smooth and efficient way.

**PO15: Lifelong learning:** Ability to acquire knowledge and skills, including learning how to learn, that are necessary for participating in learning activities throughout life, through self-paced and self-directed learning aimed at personal development, meeting economic, social and cultural objectives, and adapting to changing trades and demands of work place through knowledge/skill development/reskilling.

### **PROGRAMME SPECIFIC OUTCOMES**

**PSO1: Placement:** To prepare the students who will demonstrate respectful engagement with others' ideas, behaviours, beliefs and apply diverse frames of reference to decisions and action. Further the students are encouraged with add-on value based and job-oriented courses which ensure them to sustain in the organisation level.

**PSO2 – Contribution to Business World:** Apply theoretical concepts to business practices to produce employable, ethical, and innovative professionals to sustain in the dynamic business world.

**PSO3 – Contribution to the Society:** To contribute to the development of the society by collaborating with stakeholders for mutual benefit. Become acquainted with commercial knowledge and soft skill to react in the most appropriate way when faced with challenges in the society.

**FIRST YEAR – SEMESTER – I**

**CORE-I: FINANCIAL ACCOUNTING - I**

Subject Code	L	T	P	S	Credits	Inst. Hours	Marks		
							CIA	External	Total
146C1A	5				5	5	25	75	100

CO	Course Outcomes
CO1	Remember the concept of rectification of errors and Bank reconciliation statements
CO2	Apply the knowledge in preparing detailed accounts of sole trading concerns
CO3	Analyse the various methods of providing depreciation
CO4	Evaluate the methods of calculation of profit
CO5	Determine the royalty accounting treatment and claims from insurance companies in case of loss of stock.

**MAPPING WITH PROGRAMME OUTCOMES AND  
PROGRAMME SPECIFIC OUTCOMES**

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

**FIRST YEAR – SEMESTER – I**

**CORE-II: PRINCIPLES OF  
MANAGEMENT**

Subject Code	L	T	P	S	Credits	Inst. Hours	Marks		
							CIA	External	Total
146C1B	5				5	5	25	75	100

Course Outcomes	
CO1	Demonstrate the importance of principles of management.
CO2	Paraphrase the importance of planning and decision making in an organization.
CO3	Comprehend the concept of various authorizes and responsibilities of an organization.
CO4	Enumerate the various methods of Performance appraisal
CO5	Demonstrate the notion of directing, co-coordination and control in the management.

**MAPPING WITH PROGRAMME OUTCOMES AND  
PROGRAMME SPECIFIC OUTCOMES**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
<b>CO1</b>	3	2	2	3	3	2	2	2	3	2	3
<b>CO2</b>	3	2	3	3	2	2	2	2	3	2	2
<b>CO3</b>	3	2	2	3	2	2	2	1	3	2	2
<b>CO4</b>	3	2	2	3	2	2	2	2	3	2	2
<b>CO5</b>	3	2	3	3	2	2	2	1	3	2	2
<b>TOTAL</b>	15	10	12	15	11	10	10	8	15	10	11
<b>AVERAGE</b>	3	2	2.4	3	2.2	2	2	1.6	3	2	2.2

**3 – Strong, 2- Medium, 1- LOW**

**FIRST YEAR – SEMESTER – I ELECTIVE I:**

**BUSINESS ECONOMICS**

Subject Code	L	T	P	S	Credits	Inst. Hours	Marks		
							CIA	External	Total
146E1C	4				3	4	25	75	100

Course Outcomes	
<b>CO1</b>	Explain the positive and negative approaches in economic analysis
<b>CO2</b>	Understood the factors of demand forecasting
<b>CO3</b>	Know the assumptions and significance of indifference curve
<b>CO4</b>	Outline the internal and external economies of scale
<b>CO5</b>	Relate and apply the various methods of pricing

**MAPPING WITH PROGRAMME OUTCOMES AND  
PROGRAMME SPECIFIC OUTCOMES**

	<b>PO 1</b>	<b>PO 2</b>	<b>PO 3</b>	<b>PO 4</b>	<b>PO 5</b>	<b>PO 6</b>	<b>PO 7</b>	<b>PO 8</b>	<b>PSO 1</b>	<b>PSO 2</b>	<b>PSO 3</b>
<b>CO1</b>	3	2	2	2	2	2	2	2	1	2	2
<b>CO2</b>	3	2	3	3	2	2	2	2	2	2	2
<b>CO3</b>	3	2	3	3	2	2	2	2	2	2	2
<b>CO4</b>	3	2	2	3	2	2	2	2	2	2	2
<b>CO5</b>	3	2	3	3	2	2	2	2	2	2	2
<b>TOTAL</b>	15	10	13	14	11	10	10	10	10	10	10
<b>AVERAGE</b>	3	2	2.6	2.8	2.2	2	2	2	2	2	2

**3 – Strong, 2- Medium, 1- Low**

**FIRST YEAR – SEMESTER - II CORE – III: FINANCIAL ACCOUNTING-II**

<b>Subject Code</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>S</b>	<b>Credits</b>	<b>Inst. Hours</b>	<b>Marks</b>		
							<b>CIA</b>	<b>External</b>	<b>Total</b>
<b>146C2A</b>	<b>5</b>				<b>5</b>	<b>5</b>	<b>25</b>	<b>75</b>	<b>100</b>

<b>Course Outcomes</b>	
<b>CO1</b>	To evaluate the Hire purchase accounts and Instalment systems
<b>CO2</b>	To prepare Branch accounts and Departmental Accounts
<b>CO3</b>	To understand the accounting treatment for admission and retirement in partnership
<b>CO4</b>	To know Settlement of accounts at the time of dissolution of a firm.
<b>CO5</b>	To elaborate the role of IFRS

**MAPPING WITH PROGRAMME OUTCOMES AND  
PROGRAMME SPECIFIC OUTCOMES**

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3
<b>CO1</b>	3	2	3	3	2	3	2	2	3	2	2
<b>CO2</b>	3	2	3	3	3	2	2	2	3	2	2
<b>CO3</b>	3	2	2	3	3	2	2	2	3	2	2
<b>CO4</b>	3	2	3	3	2	2	2	2	3	2	2
<b>CO5</b>	3	3	3	3	3	3	3	3	3	3	3
<b>TOTAL</b>	16	11	14	15	14	12	11	11	15	11	11
<b>AVERAGE</b>	3.2	2.2	2.8	3	2.8	2.4	2.2	2.2	3	2.2	2.2

**3 – Strong, 2- Medium, 1-**

**FIRST YEAR – SEMESTER – II CORE  
– IV: BUSINESS LAW**

Subject Code	L	T	P	S	Credits	Inst. Hours	Marks		
							CIA	External	Total
<b>146C2B</b>	<b>5</b>				<b>5</b>	<b>5</b>	<b>25</b>	<b>75</b>	<b>100</b>

<b>Course Outcome</b>	
<b>CO1</b>	Explain the Objectives and significance of Mercantile law
<b>CO2</b>	Understand the clauses and exceptions of Indian Contract Act.
<b>CO3</b>	Explain concepts on performance, breach and discharge of contract.
<b>CO4</b>	Outline the contract of indemnity and guarantee
<b>CO5</b>	Explain the various provisions of Sale of Goods Act 1930

**MAPPING WITH PROGRAMME OUTCOMES AND  
PROGRAMME SPECIFIC OUTCOMES**

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

**FIRST YEAR – SEMESTER - II ELECTIVE - II:**

**INDIAN ECONOMIC DEVELOPMENT**

Subject Code	L	T	P	S	Credits	Inst. Hours	Marks		
							CIA	External	Total
<b>146E2C</b>	<b>4</b>				<b>3</b>	<b>4</b>	<b>25</b>	<b>75</b>	<b>100</b>

<b>Course Outcomes</b>	
<b>CO1</b>	Elaborate the role of State and Market in Economic Development
<b>CO2</b>	Explain the Sectorial contribution to National Income
<b>CO3</b>	Illustrate and Compare National Income at constant and current prices.
<b>CO4</b>	Describe the canons of public expenditure
<b>CO5</b>	Understand the theories of money and supply

**MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME  
SPECIFIC OUTCOMES**

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3
<b>CO1</b>	3	2	2	3	2	2	2	2	2	2	2
<b>CO2</b>	3	2	3	3	2	2	2	2	2	3	2
<b>CO3</b>	3	2	3	3	2	2	2	2	2	2	2
<b>CO4</b>	3	2	3	3	2	2	2	2	2	2	2
<b>CO5</b>	3	2	3	3	2	2	2	2	2	2	2
<b>TOTAL</b>	15	10	14	15	10	10	10	10	10	13	10
<b>AVERAGE</b>	3	2	2.8	3	2	2	2	2	2	2.2	2

## SECOND AND THIRD YEAR:

**CO11:** To enable the students, understand applications of accounting transactions in corporate sectors and to understand the various provisions of the Accounting Standards and Company's Act 2013, new trends in issuing redemption of shares in company accounts.

**CO12:** To enlighten the students on the provisions of Law governing the general contract and special contract and recent amendments in Companies Act.

**CO13:** To Study the Indian Banking regulation Act 1949, Commercial Bank, Development and Digital Bank and to understand various financial Services and Financial system. To highlight the role of foreign exchange market and its management.

**CO14:** To understand the basic concepts of Marketing Principles in Banking Sector and services.

**CO15:** To Customize the Importance of Business Statistics for the Commerce Students.

**CO16: EVS:** To Understand and evaluate the global scale of environmental problems; and. Reflect critically on their roles, responsibilities, and identities as citizens, consumers and environmental actors in a complex, interconnected world.

**CO17:** To understand the procedures of corporate restructuring and to prepare the various accounting statements.

**CO18:** To understand the concepts and principles of CRM and the conceptual aspects of service quality.

**CO19:** To understand the various financial services.

**CO20:** To understand the concepts of Indirect taxation, types and Assessment procedures.

**CO21:** To Equip the students to get thorough knowledge of International Economics.

**CO22: EVS:** To Understand and evaluate the global scale of environmental problems; and. Reflect critically on their roles, responsibilities, and identities as citizens, consumers and environmental actors in a complex, interconnected world.

**CO23:** To understand the basic elements of costing.

**CO24:** To gain in sight of the Auditing practices prevailing in the present scenario and understand the general approach of audit in EDP environment.

**CO25:** To highlight the role of foreign exchange market and its management and to understand the Concept of **International Banking Structure**.

**CO26:** To understand the basics of financial management, investing, financing and dividend



decisions.

**CO27:** To understand the concepts of Income tax, Types of filing and computation of tax from various head

**CO28:** To make the Students Understand the Concept of application of technology in banking Sector and expose the students to learn the role of **Technology in Banking** Sectors.

**CO29:** To understand the primary purpose of management accounting namely financial statement analysis and budgetary control. To develop and apply budget for planning and controlling purpose.

**CO30:** To understand on the basic concepts of entrepreneurship and business opportunities. Too familiar with knowledge about business and project reports for starting new ventures on team based.

**CO31:** To understand the procedure for computing taxable income from different heads, clubbing of income, Setoff and carry forward of losses and Deductions applicable to an individual.

**CO32:** To understand the basic concepts, functions and functioning of Human resource department of the organizations

## **B.COM COMPUTER APPLICATIONS**

### **PROGRAMME OUTCOMES**

**PO1: Disciplinary knowledge:** Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate Programme of study

**PO2: Communication Skills:** Ability to express thoughts and ideas effectively in writing and orally; Communicate with others using appropriate media; confidently share one's views and express herself/himself; demonstrate the ability to listen carefully, read and write analytically, and present complex information in a clear and concise manner to different groups.

**PO3: Critical thinking:** Capability to apply analytic thought to a body of knowledge; analyse and evaluate evidence, arguments, claims, beliefs on the basis of empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach to knowledge development.

**PO4: Problem solving:** Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge; and apply one's learning to real life situations.

**PO5: Analytical reasoning:** Ability to evaluate the reliability and relevance of evidence; identify logical flaws and holes in the arguments of others; analyze and synthesize data from a variety of sources; draw valid conclusions and support them with evidence and examples, and addressing opposing viewpoints.

**PO6: Research-related skills:** A sense of inquiry and capability for asking relevant/appropriate questions, problem arising, synthesizing and articulating; Ability to recognise cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyse, interpret and draw conclusions from data, establish hypotheses, predict cause and-effect relationships; ability to plan, execute and report the results of an experiment or investigation.

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

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

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

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

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

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

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

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

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

### **PROGRAMME SPECIFIC OUTCOMES**

**PSO1: Placement:** To prepare the students who will demonstrate respectful engagement with others ideas, behaviours, beliefs and apply diverse frames of reference to decisions and action. Further the students are encouraged with add-on value based and job-oriented courses which ensure them to sustain in the organisation level.

**PSO2 – Contribution to Business World:** Apply theoretical concepts to business practices to produce employable, ethical, and innovative professionals to sustain in the dynamic business world.

**PSO3 – Contribution to the Society:** To contribute to the development of the society by collaborating with stakeholders for mutual benefit. Become acquainted with commercial knowledge and soft skill to react in the most appropriate way when faced with challenges in the society.

**FIRST YEAR – SEMESTER – I**

**CORE-I: FINANCIAL ACCOUNTING - I**

Subject Code	L	T	P	S	Credits	Inst. Hours	Marks		
							CIA	External	Total
146C1A	5				5	5	25	75	100

CO	Course Outcomes
CO1	Remember the concept of rectification of errors and Bank reconciliation statements
CO2	Apply the knowledge in preparing detailed accounts of sole trading concerns
CO3	Analyse the various methods of providing depreciation
CO4	Evaluate the methods of calculation of profit
CO5	Determine the royalty accounting treatment and claims from insurance companies in case of loss of stock.

**MAPPING WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES**

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

**3 – Strong, 2- Medium, 1-low**

**FIRST YEAR – SEMESTER – I**

**CORE-II: PRINCIPLES OF MANAGEMENT**

Subject Code	L	T	P	S	Credits	Inst. Hours	Marks		
							CIA	External	Total
146C1B	5				5	5	25	75	100

Course Outcomes	
CO1	Demonstrate the importance of principles of management.
CO2	Paraphrase the importance of planning and decision making in an organization.
CO3	Comprehend the concept of various authorizes and responsibilities of an organization.
CO4	Enumerate the various methods of Performance appraisal
CO5	Demonstrate the notion of directing, co-coordination and control in the management.

**MAPPING WITH PROGRAMME OUTCOMES AND  
PROGRAMME SPECIFIC OUTCOMES**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
<b>CO1</b>	3	2	2	3	3	2	2	2	3	2	3
<b>CO2</b>	3	2	3	3	2	2	2	2	3	2	2
<b>CO3</b>	3	2	2	3	2	2	2	1	3	2	2
<b>CO4</b>	3	2	2	3	2	2	2	2	3	2	2
<b>CO5</b>	3	2	3	3	2	2	2	1	3	2	2
<b>TOTAL</b>	15	10	12	15	11	10	10	8	15	10	11
<b>AVERAGE</b>	3	2	2.4	3	2.2	2	2	1.6	3	2	2.2

**3 – Strong, 2- Medium, 1- LOW**

**FIRST YEAR – SEMESTER - I**

**ELECTIVE - I: PYTHON PROGRAMMING AND LAB**

Subject Code	L	T	P	S	Credits	Inst. Hours	Marks		
							CIA	External	Total
<b>147E1B</b>	<b>2</b>		<b>2</b>		<b>3</b>	<b>4</b>	<b>40</b>	<b>60</b>	<b>100</b>
<b>Course Outcomes</b>									
<b>CO1</b>	Develop and execute simple Python programs								
<b>CO2</b>	Write simple Python programs using conditionals and looping for solving problems								
<b>CO3</b>	Decompose a Python program into functions								
<b>CO4</b>	Represent compound data using Python lists, tuples, dictionaries etc.								

<b>Python Programming Lab</b>
<p><b>Course Outcomes:</b> (for students: To know what they are going to learn)</p> <p><b>CO1:</b> To understand the problem-solving approaches</p> <p><b>CO2:</b> To learn the basic programming constructs in Python</p> <p><b>CO3:</b> To practice various computing strategies for Python-based solutions to real world problems</p> <p><b>CO4:</b> To use Python data structures - lists, tuples, dictionaries.</p>

**FIRST YEAR – SEMESTER - II**  
**CORE – III: FINANCIAL ACCOUNTING-II**

Subject Code	L	T	P	S	Credits	Inst. Hours	Marks		
							CIA	External	Total
146C2A	5				5	5	25	75	100

Course Outcomes	
<b>CO1</b>	To evaluate the Hire purchase accounts and Instalment systems
<b>CO2</b>	To prepare Branch accounts and Departmental Accounts
<b>CO3</b>	To understand the accounting treatment for admission and retirement in partnership
<b>CO4</b>	To know Settlement of accounts at the time of dissolution of a firm.
<b>CO5</b>	To elaborate the role of IFRS

**MAPPING WITH PROGRAMME OUTCOMES AND  
PROGRAMME SPECIFIC OUTCOMES**

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3
<b>CO1</b>	3	2	3	3	2	3	2	2	3	2	2
<b>CO2</b>	3	2	3	3	3	2	2	2	3	2	2
<b>CO3</b>	3	2	2	3	3	2	2	2	3	2	2
<b>CO4</b>	3	2	3	3	2	2	2	2	3	2	2
<b>CO5</b>	3	3	3	3	3	3	3	3	3	3	3
<b>TOTAL</b>	16	11	14	15	14	12	11	11	15	11	11
<b>AVERAGE</b>	3.2	2.2	2.8	3	2.8	2.4	2.2	2.2	3	2.2	2.2

**3 – Strong, 2- Medium, 1-**

**FIRST YEAR – SEMESTER – II CORE**

**– IV: BUSINESS LAW**

Subject Code	L	T	P	S	Credits	Inst. Hours	Marks		
							CIA	External	Total
146C2B	5				5	5	25	75	100

Course Outcome	
CO1	Explain the Objectives and significance of Mercantile law
CO2	Understand the clauses and exceptions of Indian Contract Act.
CO3	Explain concepts on performance, breach and discharge of contract.
CO4	Outline the contract of indemnity and guarantee
CO5	Explain the various provisions of Sale of Goods Act 1930

**MAPPING WITH PROGRAMME OUTCOMES AND  
PROGRAMME SPECIFIC OUTCOMES**

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

**FIRST YEAR – SEMESTER – I ELECTIVE -**  
**I: PROGRAMMING IN C AND LAB**

Subject Code	L	T	P	S	Credits	Inst. Hours	Marks				
							CIA	External	Total		
147E1A	2		2		3	4	40	60	100		
Course Outcomes											
CO1	Apply the concept of Control Structures to solve any given problem.										
CO2	Apply the concept of single and multi-dimensional arrays to solve problems related to searching, sorting and matrix operations.										
CO3	Apply the concept of Strings for writing programs related to character array.										
CO4	Write programs using concept of user defined and recursive functions.										
CO5	Apply concept of structures to write programs.										

<b>C Programming Lab</b>	
<b>Course Outcomes:</b> (for students: To know what they are going to learn)	
<b>CO1:</b> Apply the concept of Control Structures to solve any given problem.	
<b>CO2:</b> Apply the concept of single and multi-dimensional arrays to solve problems related to searching, sorting and matrix operations.	
<b>CO3:</b> Apply the concept of Strings for writing programs related to character array.	
<b>CO4:</b> Write programs using concept of user defined and recursive functions.	
<b>CO5:</b> Apply concept of structures to write programs.	

### SECOND AND THIRD YEAR:

**CO13:** To enable the students, understand applications of accounting transactions in corporate sectors and to understand the various provisions of the Accounting Standards and Company’s Act 2013, new trends in issuing redemption of shares in company accounts.

**CO14:** To understand the basic provisions of Law, contract and legal remedies in the law

**CO15:** To understand the basic knowledge of computerized accounting to deserving students under self– learning mode. It helps the students to get thorough knowledge for the preparation of budget and vouchers, purchase orders, sales order and salary payment and preparing the final accounts with GST

**CO16:** Introduction to C++, application of OOPs, and OOPs Concepts – OOPs language classes and objects, single, multilevel, multiple, Hierarchical, Hybrid inheritance, polymorphism and file handling concepts.

**CO17:** To understand the relevance the need of the statistics in the current scenario and to customize the importance of Business Statistics.

**CO18: EVS:** To Understand and evaluate the global scale of environmental problems; and. Reflect critically on their roles, responsibilities, and identities as citizens, consumers and environmental actors in a complex, interconnected world.

**CO19: SS-**To enrichment each student of an individual healthy and clean mind and to make them ensure not to possess any kinds of ill feelings against anybody, being truthful and deferential in ones thoughts and actions. To morale the student’s performance and communication should be honest and respectful.

**CO20:** To understand the procedures of corporate restructuring and to prepare the various accounting statements

**CO21:** To make the students understand the basic concepts of Management like planning, decision making, controlling, staffing, organizing etc. To know about the significance of the Management in Business.



**CO22:** Introduction E-Commerce, origin of Internet strategic business unit value chain in E-Commerce, Emerging client service, electronic cash, electronic wallets, strategies for marketing, EDI applications in business, m-Commerce its components and applications.

**CO23:** Introduction to Java, features, basic concepts, objects and classes of Java, interface programming creating threads, managing errors and exceptions, syntax of exceptions handling code, Applet and AWT.

**CO24:** To understand the concept of operation research and the various techniques of solving problems.

**CO25: EVS:** To Understand and evaluate the global scale of environmental problems; and. Reflect critically on their roles, responsibilities, and identities as citizens, consumers and environmental actors in a complex, interconnected world.

**CO26: SS-**To enrichment each student of an individual healthy and clean mind and to make them ensure not to possess any kinds of ill feelings against anybody, being truthful and deferential in one's thoughts and actions. To morale the student's performance and communication should be honest and respectful

**CO27:** To understand the basic elements of costing.

**CO28:** To gain in sight of the Auditing practices prevailing in the present scenario and understand the general approach of audit in EDP environment.

**CO29:** To understand the basics of data analytics using SPSS and apply the concepts of statistics in SPSS, data analysis software for business modeling.

**CO30:** To impart knowledge on source of financing and methods of appraisal of investment decisions and risk involved in global level of financial operations and to know the concepts of the investments, financing and working capital.

**CO31:** To understand the concepts of Income tax, Types of filing and computation of tax from various head.

**CO32: Value Education:** To learn about philosophy of Life and Individual qualities, social values and responsibilities and Rights as Professional and facing Global Challenge

**CO33:** To Study the world of financial services, Commercial Bank, Development and Digital Bank and to understand various financial Services and Financial system.

**CO34:** To understand the primary purpose of management accounting namely financial statement analysis and budgetary control. To develop and apply budget for planning and controlling purpose.

**CO35:** To understand the basic concepts, functions and functioning of Human resource department of the organization.

**CO36:** To give knowledge of creating static and dynamic web pages.

**CO37:** To understand the procedure for computing taxable income from different heads, clubbing of income, Setoff and carry forward of losses and Deductions applicable to an individual.

**CO38: Extension Activities:** To arouse social consciousness of the students by providing them opportunities to work with and among the people. To develop an awareness and knowledge of social realities to have concern for the well-being of the community and engage in creative and constructive social action

## **M.COM ACCOUNTING AND FINANCE**

### **PROGRAMME OUTCOMES**

PO1. Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.

PO2. Problem Solving: Solve problems from the disciplines of concern using the knowledge, skills and attitudes acquired from humanities/ sciences/ mathematics/ social sciences.

PO3. Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

PO4. Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in wide variety of settings.

PO5. Ethics: Understand multiple value systems including your own, the moral dimensions of your decisions, and accept responsibility for them.

PO6. Environment and sustainability: Understand the impact of technology and business practices in societal and environmental contexts, and sustainable development.

PO7. Self-directed and life-long learning: Demonstrate the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

PO8. Computational Thinking: Understand data-based reasoning through translation of data into abstract concepts using computing technology-based tools.

### **PROGRAMME SPECIFIC OUTCOMES**

PSO1: The students are able to pursue research in their interested areas

PSO2: Students enable themselves as teaching faculty in higher education after qualifying the eligibility test.

PSO3: It provides an extreme and rigorous base for teaching, research and allied business administration. The students are to excel as financial analyst.

PSO4: Students acquire leadership skills and managerial competency to handle various economic and social problems.

## FIRST YEAR CORE –I

### SEMESTER I

Course Code	Title of the Course	Category	L	T	P	O	Credits	Inst. Hours	Marks		
									CIA	External	Total
411C1A	BUSINESS FINANCE		6	-	-	-	4	6	25	75	100

	Learning Objectives
1	To outline the fundamental concepts in finance
2	To estimate and evaluate risk in investment proposals
3	To evaluate leasing as a source of finance and determine the sources of startup financing
4	To examine cash and inventory management techniques
5	To appraise capital budgeting techniques for MNCs

#### Mapping of Course Outcomes with POs and PSOs

	POs						PSOs		
	1	2	3	4	5	6	1	2	3
CO1	3	3	1	3	3	3	2	2	2
CO2	3	3	2	3	3	3	3	3	3
CO3	2	2	1	2	2	2	3	2	2
CO4	2	2	1	2	2	2	2	2	2
CO5	3	3	2	3	3	3	3	3	3

**First Year****Core – II****Semester I**

Course Code	Title of the Course	Category	L	T	P	O	Credits	Inst. Hours	Marks		
									CIA	External	Total
411C1B	DIGITAL MARKETING		6	-	-	-	4	6	25	75	100

	Learning Objectives
1	To assess the evolution of digital marketing
2	To appraise the dimensions of online marketing mix
3	To infer the techniques of digital marketing
4	To analyse online consumer behaviour
5	To interpret data from social media and to evaluate game-based marketing

Mapping of course outcomes with POs and PSOs

	Pos						PSOs		
	1	2	3	4	5	6	1	2	3
CO1	3	3	2	3	3	3	3	3	3
CO2	3	3	2	3	3	3	3	3	3
CO3	3	3	2	2	3	2	3	3	2
CO4	3	3	2	2	3	3	3	3	3
CO5	3	3	1	3	3	2	3	3	2

High – 3

Medium – 2

Low – 1

First Year Core – III  
Semester I

Course Code	Title of the Course	Category	L	T	P	O	Credits	Inst. Hours	Marks		
									CIA	External	Total
411C1C	BANKING AND INSURANCE		6	-	-	-	4	6	25	75	100

Learning Objectives	
1	To understand the evolution of new era banking
2	To explore the digital banking techniques
3	To analyse the role of insurance sector
4	To evaluate the mechanism of customer service in insurance and the relevant regulations
5	To analyse risk and its impact in banking and insurance industry

Mapping of course outcomes with POs and PSOs

	POs						PSOs		
	1	2	3	4	5	6	1	2	3
CO1	2	2	1	3	3	3	3	3	3
CO2	3	3	3	3	3	3	3	3	3
CO3	2	2	1	2	2	2	2	3	2
CO4	3	2	2	1	2	2	2	3	2
CO5	3	3	1	3	3	3	3	3	3
	High – 3			Medium – 2			Low – 1		

First Year

Elective – I B

Semester I

Course Code	Title of the Course	Category	L	T	P	O	Credits	Inst. Hours	Marks		
									CIA	External	Total
411E1B	OPERATIONS RESEARCH		6	-	-	-	4	6	25	75	100

**Course outcomes**

Students will be able to

CO No.	CO Statement	Knowledge level
CO 1	Apply Linear Programming	K3
CO 2	Identify models for problem solving	K3
CO 3	Apply sequencing and game theory	K3
CO 4	Apply network analysis to enhance effectiveness	K3
CO 5	Examine the models for decision making	K4

Mapping of course outcomes with POs and PSOs

	POs						PSOs		
	1	2	3	4	5	6	1	2	3
CO 1	3	3	2	3	3	2	2	3	3
CO 2	3	3	1	3	3	3	3	3	3
CO 3	3	3	1	3	3	2	3	3	2
CO 4	3	3	2	3	3	3	3	3	3
CO 5	3	3	1	3	3	2	3	3	2

High – 3

Medium – 2

Low – 1

First Year

Elective –I A

Semester I

Course Code	Title of the Course	Category	L	T	P	O	Credits	Inst. Hours	Marks		
									CIA	External	Total
411E1A	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT		6	-	-	-	4	6	25	75	100

### Course Outcomes

Students will be able to

CO No.	CO Statement	Knowledge Level
CO 1	Examine investment options and structure a portfolio	K4
CO 2	Assess the value of Equity Shares, Preference Shares and Bonds	K5
CO 3	Examine stock performance through fundamental and technical analysis	K4
CO 4	Examine the various Portfolio Theories.	K4
CO 5	Evaluate the portfolio performance.	K5

Mapping of course outcomes with POs and PSOs

	Pos						PSOs		
	1	2	3	4	5	6	1	2	3
CO1	3	3	1	3	2	3	2	2	3
CO2	3	3	1	3	2	3	2	3	2
CO3	3	3	2	3	2	3	2	3	2
CO4	2	3	1	3	2	2	2	3	2
CO5	3	3	1	3	2	2	2	3	2

High – 3

Medium – 2

Low – 1



First Year

Core – IV

Semester II

Course Code	Title of the Course	Category	L	T	P	O	Credits	Inst. Hours	Marks		
									CIA	External	Total
411C2A	STRATEGIC COST MANAGEMENT		6	-	-	-	5	6	25	75	100

Learning Objectives	
1	To analyse the aspects of strategic and quality control management
2	To analyse and select cost control techniques
3	To apply activity-based costing for decision making
4	To utilize transfer pricing methods in cost determination
5	To apply cost management techniques in various sectors

Mapping of course outcomes with POs and PSOs

	Pos						PSOs		
	1	2	3	4	5	6	1	2	3
CO1	3	3	3	3	3	3	3	3	3
CO2	3	3	2	3	3	3	3	3	3
CO3	3	3	2	3	3	3	3	3	3
CO4	3	3	2	3	3	3	3	2	3
CO5	3	3	1	3	3	3	3	3	3
	High – 3			Medium – 2			Low – 1		



First Year

Core – VI

Semester II

Course Code	Title of the Course	Category	L	T	P	O	Credits	Inst. Hours	Marks		
									CIA	External	Total
411C2C	SETTING UP OF BUSINESS ENTITIES		6	-	-	-	4	6	25	75	100

Learning Objectives	
1	To understand the startup landscape and its financing
2	To analyse the formation and registration of Section 8 company
3	To outline the concept of LLP and business collaboration
4	To understand the procedure for obtaining registration and license
5	To create awareness about the legal compliances governing business entities

Mapping of course outcomes with POs and PSOs

	Pos						PSOs		
	1	2	3	4	5	6	1	2	3
CO1	3	3	3	3	3	3	3	1	3
CO2	3	2	2	3	2	3	2	3	3
CO3	3	3	2	3	3	3	3	3	3
CO4	3	3	3	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3	3	3

High – 3

Medium – 2

Low – 1

First Year

Elective - III A

Semester II

Course Code	Title of the Course	Category	L	T	P	O	Credits	Inst. Hours	Marks		
									CIA	External	Total
411E2A	FOREX MANAGEMENT		4	-	-	-	3	4	25	75	100

Learning Objectives	
1	To understand international business models and financing functions
2	To analyse the effect of exchange rate systems and policies on multi-currency trade
3	To evaluate the various derivative instruments available in the foreign exchange market
4	To understand the role of various credit instruments and documents in international finance
5	To evaluate the role of governing institutions and their schemes to promote foreign trade policy

Mapping of course outcomes with POs and PSOs

	POs						PSOs		
	1	2	3	4	5	6	1	2	3
CO1	3	3	3	2	2	3	2	3	3
CO2	3	3	3	3	2	2	2	3	2
CO3	3	3	2	3	3	3	3	3	3
CO4	2	2	2	3	3	2	3	2	2
CO5	2	3	2	3	3	3	3	3	3

High – 3

Medium – 2

Low – 1

First Year

Elective IV A

Semester II

Course Code	Title of the Course	Category	L	T	P	O	Credits	Inst. Hours	Marks		
									CIA	External	Total
411E2C	CORPORATE RESTRUCTURING LAW AND PRACTICE		4	-	-	-	3	4	25	75	100

Learning Objectives	
1	To acquire knowledge about various strategies of Corporate Restructuring.
2	To understand the procedural aspects relating to meetings and petitions
3	To analyse the legal and procedural aspects of Mergers, Amalgamations and Takeovers.
4	To understand the concept, need, modes and procedural aspects of Demerger and Reverse Merger.
5	To understand the Global and National Scenario of Corporate Restructuring

**Course Outcomes:**

Students will be able to:

CO No.	CO Statement	Knowledge level
CO 1	Identify the different strategies of Corporate Restructuring	K3
CO 2	Summarise legal and procedural aspects relating to meetings	K2
CO 3	Explain the legal and procedural aspects of Mergers, Amalgamations and Takeovers	K2
CO 4	Distinguish between different modes of Demerger and Reverse Merger	K4
CO 5	Identify the procedural and practical aspects of Buy back of shares by Companies	K3

Mapping of course outcomes with POs and PSOs

	POs						PSOs		
	1	2	3	4	5	6	1	2	3
CO1	3	3	2	3	3	3	3	3	3
CO2	3	3	2	3	3	3	3	3	3
CO3	3	3	2	3	3	3	3	3	3
CO4	3	3	2	3	3	3	3	3	3
CO5	3	3	2	3	3	3	3	3	3

**SEMESTER III: Insurance and Risk Management**

**COURSE OUTCOMES:**

At the end of the course, the students will be able to

<b>CO1</b>	Explain the fundamental concepts and process of risk management (U)
<b>CO2</b>	Identify the risk components in commercial risk management (P)
<b>CO3</b>	Evaluate and identify the suitable policy from general insurance for an individual(E)
<b>CO4</b>	Explain the concepts of financial and retirement planning(P)
<b>CO5</b>	Describe the recent reforms in Insurance sector, Insurance intermediaries, pricing methods of insurance products and foreign insurer(U)

**MAPPING OF COURSE OUTCOMES TO PROGRAM SPECIFIC OUTCOMES**

	PSO 1	PSO2	PSO3
<b>CO1</b>	3	-	-
<b>CO2</b>	3	-	-
<b>CO3</b>	3	-	-
<b>CO4</b>	3	-	-
<b>CO5</b>	3	-	-

**3-Strong Correlation 2-Medium Correlation 1-Low Correlation**

**SEMESTER III Strategic Management**

**COURSE OUTCOMES:**

At the end of the course, the students will be able to

<b>CO1</b>	Outline Strategic Management process, strategic vision & mission of an organization. (U)
<b>CO2</b>	Interpret the concept of environmental scanning and industry competition in the present global scenario. (U)
<b>CO3</b>	Demonstrate strategy formulation and implementation in business operations(U)
<b>CO4</b>	Outline Strategies for competing in global markets and strategies of MNC companies.
<b>CO5</b>	Infer leadership styles and corporate culture prevalent for effective strategies(U)

**MAPPING OF COURSE OUTCOMES TO PROGRAM SPECIFIC OUTCOMES**

	<b>PSO 1</b>	<b>PSO2</b>	<b>PSO3</b>
<b>CO1</b>	3	-	-
<b>CO2</b>	3	-	-
<b>CO3</b>	3	-	-
<b>CO4</b>	3	-	-
<b>CO5</b>	3	-	-

**3-Strong Correlation 2-Medium Correlation 1-Low Correlation**

## Corporate Governance and Social Responsibility

### COURSE OUTCOMES:

At the end of the course, the students will be able to

<b>CO1</b>	Explain the fundamentals of ethics and its implication in business(U)
<b>CO2</b>	Interpret the concepts of ethics in advertisement and environmental (U)
<b>CO3</b>	Outline the concepts of corporate social responsibility(U)
<b>CO4</b>	Explain the fundamentals of corporate governance(U)
<b>CO5</b>	Outline the formation of Birla Committee Report and its recommendations(U)

### MAPPING OF COURSE OUTCOMES TO PROGRAM SPECIFIC OUTCOMES

	<b>PSO 1</b>	<b>PSO2</b>	<b>PSO3</b>
<b>CO1</b>	3	-	-
<b>CO2</b>	3	-	-
<b>CO3</b>	3	-	3
<b>CO4</b>	3	-	-
<b>CO5</b>	3	-	-

**3-Strong Correlation 2-Medium Correlation**

**1-Low Correlation**

## SEMESTER IV- CORE- BUSINESS ANALYTICS

### COURSE OUTCOMES:

At the end of the course, the students will be able to

<b>CO1</b>	Explain the fundamental concepts in business analytics(U)
<b>CO2</b>	Outline the role of analyst in business analytics(U)
<b>CO3</b>	Demonstrate how to communicate with analytics professionals effectively(U)
<b>CO 4</b>	Explain the techniques in data warehousing(U)
<b>CO5</b>	Interpret the decision-making process and problem-solving methods in business organizations(U)



## MAPPING OF COURSE OUTCOMES TO PROGRAM SPECIFIC OUTCOMES

	PSO 1	PSO2	PSO3
<b>CO1</b>	3	-	-
<b>CO2</b>	3	-	-
<b>CO3</b>	3	-	-
<b>CO4</b>	3	-	-
<b>CO5</b>	3	-	-

**3-Strong Correlation 2-Medium Correlation 1-Low Correlation**

### SEMESTER IV- BUSINESS ANALYTICS

#### COURSE OUTCOMES:

At the end of the course, the students will be able to

<b>CO1</b>	Explain the fundamental concepts in business analytics(U)
<b>CO2</b>	Outline the role of analyst in business analytics(U)
<b>CO3</b>	Demonstrate how to communicate with analytics professionals effectively(U)
<b>CO 4</b>	Explain the techniques in data warehousing(U)
<b>CO5</b>	Interpret the decision-making process and problem-solving methods in business organizations(U)

## MAPPING OF COURSE OUTCOMES TO PROGRAM SPECIFIC OUTCOMES

	PSO 1	PSO2	PSO3
<b>CO1</b>	3	-	-
<b>CO2</b>	3	-	-
<b>CO3</b>	3	-	-
<b>CO4</b>	3	-	-
<b>CO5</b>	3	-	-

**3-Strong Correlation 2-Medium Correlation 1-Low Correlation**

## Investment Analysis and Portfolio Management

### COURSE OUTCOMES:

At the end of the course, the students will be able to

<b>CO1</b>	Describe the overview of investments and identify the various financial instruments(U)
<b>CO2</b>	Examine the approaches to security analysis(A)
<b>CO3</b>	Demonstrate the components of financial analysis(U)
<b>CO4</b>	Categorize the securities and their valuation to interpret the fundamental and technical analysis of derivatives(A)
<b>CO5</b>	Analyse the theories of portfolio management(A)

### MAPPING OF COURSE OUTCOMES TO PROGRAM SPECIFIC OUTCOMES

	<b>PSO 1</b>	<b>PSO2</b>	<b>PSO3</b>
<b>CO1</b>	3	-	3
<b>CO2</b>	3	-	3
<b>CO3</b>	3	-	3
<b>CO4</b>	3	-	3
<b>CO5</b>	3	-	3

**3-Strong Correlation 2-Medium Correlation 1-Low Correlation**

## INDIRECT TAXES

### SEMESTER IV

### COURSE OUTCOMES:

At the end of the course, the students will be able to

<b>CO1</b>	Explain the features, and benefits of GST (U)
<b>CO2</b>	Describe the important definitions on GST(U)
<b>CO3</b>	Outline the registration procedure relating to GST(U)
<b>CO4</b>	Explain the various aspects of assessment of GST(U)
<b>CO5</b>	Outline the important provisions of Customs Duty(U)

## MAPPING OF COURSE OUTCOMES TO PROGRAM SPECIFIC OUTCOMES

	<b>PSO 1</b>	<b>PSO2</b>	<b>PSO3</b>
<b>CO1</b>	3	-	3
<b>CO2</b>	3	-	3
<b>CO3</b>	3	-	3
<b>CO4</b>	3	-	3
<b>CO5</b>	3	-	3

**3-Strong Correlation 2-Medium Correlation 1-Low Correlation**

### Financial Markets and Institutions

#### SEMESTER IV

#### COURSE OUTCOMES:

At the end of the course, the students will be able to

<b>CO1</b>	Classify the securities market and their instruments in the financial system(U)
<b>CO2</b>	Explain the profile of Indian money market including the commercial paper market, Bill market (U)
<b>CO3</b>	Describe the role of certificate of deposits, Treasury bills, REPO Accounting in Indian money markets. (U)
<b>CO4</b>	Classify the Indian money and Capital market and analyze the new financial instruments in capital market(P)
<b>CO5</b>	Outline the functions of various financial service institutions in India like CRISIL, DFHIL, ICRA,OTCEI, NSDL, STCI(U)

## MAPPING OF COURSE OUTCOMES TO PROGRAM SPECIFIC OUTCOMES

	<b>PSO 1</b>	<b>PSO2</b>	<b>PSO3</b>
<b>CO 1</b>	3	-	3
<b>CO 2</b>	3	-	-
<b>CO3</b>	3	-	-
<b>CO 4</b>	3	-	3
<b>CO 5</b>	3	-	3

DEPARTMENT OF BUSINESS  
ADMINISTRATION

## **B.B.A**

### **PROGRAMME OUTCOMES**

**PO1: Disciplinary knowledge:** Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate Programme of study

**PO2: Communication Skills:** Ability to express thoughts and ideas effectively in writing and orally; Communicate with others using appropriate media; confidently share one's views and express herself/himself; demonstrate the ability to listen carefully, read and write analytically, and present complex information in a clear and concise manner to different groups.

**PO3: Critical thinking:** Capability to apply analytic thought to a body of knowledge; analyse and evaluate evidence, arguments, claims, beliefs on the basis of empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach to knowledge development.

**PO4: Problem solving:** Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge; and apply one's learning to real life situations.

**PO5: Analytical reasoning:** Ability to evaluate the reliability and relevance of evidence; identify logical flaws and holes in the arguments of others; analyze and synthesize data from a variety of sources; draw valid conclusions and support them with evidence and examples, and addressing opposing viewpoints.

**PO6: Research-related skills:** A sense of inquiry and capability for asking relevant/appropriate questions, problem arising, synthesising and articulating; Ability to recognise cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyse, interpret and draw conclusions from data, establish hypotheses, predict cause and-effect relationships; ability to plan, execute and report the results of an experiment or investigation.

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

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

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

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

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

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

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

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

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

### **PROGRAMME SPECIFIC OUTCOMES**

**PSO1: Placement:** To prepare the students who will demonstrate respectful engagement with others ideas, behaviours, beliefs and apply diverse frames of reference to decisions and action. Further the students are encouraged with add-on value based and job-oriented courses which ensure them to sustain in the organisation level.

**PSO2 – Contribution to Business World:** Apply theoretical concepts to business practices to produce employable, ethical, and innovative professionals to sustain in the dynamic business world.

**PSO3 – Contribution to the Society:** To contribute to the development of the society by collaborating with stakeholders for mutual benefit. Become acquainted with commercial knowledge and soft skill to react in the most appropriate way when faced with challenges in the society.

## FIRST YEAR

Subject Code	Subject Name	Category	L	T	P	O	Credits	Inst. Hours	Marks		
									CIA	External	Total
<b>150C1B</b>	<b>Accounting for Managers I</b>	Core	Y	-	-	-	5	5	25	75	100

Course Outcomes		
Course Outcome	On completion of this course, students will;	Program Outcomes
<b>CO1</b>	Prepare Journal, ledger, trial balance and cash book	PO2, PO1
<b>CO2</b>	Classify errors and making rectification entries	PO1
<b>CO3</b>	Prepare final accounts with adjustments	PO2, PO6
<b>CO4</b>	To understand Hire Purchase system	PO2, PO6
<b>CO5</b>	Prepare single and double entry system of accounting.	PO6

### MAPPING WITH PROGRAM OUTCOMES

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
<b>CO 1</b>	M	M	M	M	M	S	L	M
<b>CO 2</b>	S	M	M	M	M	S	L	S
<b>CO 3</b>	S	M	M	M	M	S	L	S
<b>CO 4</b>	S	M	M	M	M	S	L	M
<b>CO 5</b>	S	M	M	M	M	S	L	M

**S-Strong      M-Medium      L-Low**

Subject Code	Subject Name	Category	L	T	P	O	Credits	Inst. Hours	Marks		
									CIA	External	Total
150E1A	Managerial Economics	Generic Elective	Y	-	-	-	3	4	25	75	100

Course Outcomes		
Course Outcomes	On completion of this course, students will;	Program Outcomes
CO1	Analyze & apply the various managerial economic concepts in individual & business decisions.	PO2, PO6, PO8
CO2	Explain demand concepts, underlying theories and identify demand forecasting techniques.	PO6, PO8
CO3	Employ production, cost and supply analysis for business decision making	PO1, PO2, PO6
CO4	Identify pricing strategies	PO1, PO2, PO6
CO5	Classify market structures under competitive scenarios.	PO2, PO6, PO8

#### Mapping with program outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	M	S	M	M	M	S	L	M
CO2	S	L	M	M		S		S
CO3	S	S	M	M	M	S		M
CO4	S	S	M	M		S		M
CO5		S	M	M		S		S

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

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



Subject Code	Subject Name	Category	L	T	P	O	Credits	Inst. Hours	Marks		
									CIA	External	Total
150B1A	Managerial Communication	Part-IV	Y	-	-	-	2	2	25	75	100

Course Outcomes		
Course Outcomes	On completion of this course, students will;	Program Outcomes
CO1	Understand communication process and its barriers.	PO1, PO2, PO3, PO4, PO8
CO2	Develop business letters in different scenarios	PO1, PO2, PO3, PO4, PO5, PO6
CO3	Develop oral communication skills & conducting Interviews	PO2, PO3, PO4, PO5, PO6, PO7
CO4	Use managerial writing for business communication	PO1, PO2, PO4, PO5, PO6, PO8
CO5	Identify usage of modern communication tools & its significance for managers	PO3, PO4, PO5, PO6, PO7, PO8

**Mapping with program outcomes**

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	S	S	M	S	M	S	S	S
CO 2	S	S	S	S	S	S	M	M
CO 3	M	S	S	S	S	S	S	M
CO 4	S	S	M	S	S	S	M	S
CO 5	M	M	S	S	S	S	S	S

**S-Strong      M-Medium      L-Low**

**CO-PO Mapping with program specific outcomes (Course Articulation Matrix)**

**Level of Correlation between PSO's and CO's**

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

Subject Code	Subject Name	Category	L	T	P	O	Credits	Inst. Hours	Marks		
									CIA	External	Total
150C2B	Accounting for Managers II	Core	Y	-	-	-	5	5	25	75	100

Course Outcomes		
Course Outcomes	On completion of this course, students will;	Program Outcomes
CO1	Interpret cost sheet & write comments.	PO1, PO2, PO4
CO2	Compare cost, management & financial accounting	PO6
CO3	Analyze the various ratio and compare it with standards to assess deviations	PO2, PO6
CO4	Estimate budget and use budgetary control	PO1, PO2, PO8
CO5	Evaluate marginal costing and its components	PO2, PO6

#### Mapping with program outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	M	M	M	M	M	S	L	M
CO 2	S	M	M	M	M	S	L	S
CO 3	S	M	M	M	M	S	L	S
CO 4	S	M	M	M	M	S	L	M
CO 5	S	M	M	M	M	S	L	M

S-Strong M-Medium L-Low

#### CO-PO Mapping with program specific outcomes (Course Articulation Matrix)

Level of Correlation between PSO's and CO's

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

Subject Code	Subject Name	Category	L	T	P	O	Credits	Inst. Hours	Marks		
									CIA	External	Total
150C2A	MARKETING MANAGEMENT	Core	Y	-	-	-	5	5	25	75	100

Course Outcomes	On Completion of the course the students will	Program Outcomes
CO1	To list and identify the core concepts of Marketing and its mix.	PO1, PO2, PO3
CO2	To sketch the market segmentation, nature of product, PLC	PO1, PO2, PO3, PO6, PO8
CO3	To analyze the appropriate pricing methods	PO1 PO2, PO3, PO4, PO8
CO4	To determine the importance of various media	PO1, PO2, PO6
CO5	To assess the sales force and applications of digital marketing	PO1, PO2, PO7

### MAPPING WITH PROGRAM OUTCOMES

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	S	S	M	M	M	S	M	M
CO 2	S	S	M	S	M	S	M	S
CO 3	S	S	M	M	M	S	M	S
CO 4	S	S	M	M	M	S	M	M
CO 5	S	S	M	M	M	S	M	S

**S-Strong      M-Medium      L-Low**

### CO-PO Mapping with Programme Specific Outcomes (Cours Articulation Matrix): Level of Correlation between PSO's and CO's

CO/PO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3
CO 2	3	3	3	3	3
CO 3	2	3	3	3	3
CO 4	3	3	3	3	3
CO 5	3	3	3	2	3
<b>Weightage</b>	14	15	15	14	15
<b>Weighted Percentage of Course Contribution to Pos</b>	2.8	3.0	3.0	2.8	3.0

Subject Code	Subject Name	Category	L	T	P	O	Credits	Inst. Hours	Marks		
									CIA	External	Total
150E2A	International Business	Generic Elective		-	-	-	3	4	25	75	100

Course Outcomes		
Course Outcomes	On completion of this course, students will;	
CO1	Discuss the modes of entry to International Business	PO1, PO5, PO6
CO2	Explain international trade theories	PO3, PO4, PO5
CO3	Understand Foreign exchange market and FDI	PO1, PO2
CO4	Outline the Global Business Environment	PO4, PO5, PO6
CO5	Identify the relevance of international institutions and trading blocs.	PO7, PO8

### MAPPING WITH PROGRAM OUTCOMES

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	S	M	M	M	S	S	M	M
CO 2	M	M	S	S	S	S	M	S
CO 3	S	S	M	M	M	S	M	M
CO 4	S	S	M	S	S	S	M	S
CO 5	M	M	M	M	M	M	S	S

S-Strong      M-Medium      L-Low

### CO-PO Mapping with Programme Specific Outcomes (Course Articulation Matrix): Level of Correlation between PSO's and CO's

CO/PO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3
CO 2	3	3	3	3	3
CO 3	3	3	3	3	3
CO 4	3	3	3	3	3
CO 5	3	3	3	3	2
Weightage	15	15	15	15	14
Weighted Percentage of Course Contribution to Pos	3.0	3.0	3.0	3.0	2.8

Subject Code	Subject Name	Category	L	T	P	O	Credits	Inst. Hours	Marks		
									CIA	External	Total
150S2A	MANAGERIAL SKILL DEVELOPMENT	SEC	Y	-	-	-	2	2	25	75	100

Course Outcomes		
Course Outcomes	On completion of this course, students will;	Program Outcomes
CO1	Identify the personal qualities that are needed to sustain in the world of work.	PO1, PO2, PO6, PO7
CO2	Explore more advanced Management Skills such as conflict resolution, empowerment, working with teams and creating a positive environment for change.	PO1, PO2, PO5
CO3	Acquire practical management skills that are of immediate use in management or leadership positions.	PO6, PO7
CO4	Employ critical-thinking and analytical skills to investigate complex business problems to propose viable solutions.	PO1, PO2
CO5	Make persuasive presentations that reveal strong written and oral communication skills needed in the workplace.	PO4

### MAPPING WITH PROGRAM OUTCOMES

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	M	M	S	S	S	M	M	S
CO 2	M	M	S	S	S	S	S	M
CO 3	S	S	S	S	S	S	S	
CO 4	S	S	S	S	S	S	M	S
CO 5	M	M	S	S	S	M	S	S

S-Strong      M-Medium      L-Low

### CO-PO Mapping with Programme Specific Outcomes (Course Articulation Matrix): Level of Correlation between PSO's and CO's

CO/PO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3
CO 2	3	3	3	3	3
CO 3	3	3	3	3	3
CO 4	3	3	3	3	3
CO 5	3	3	3	3	3
Weightage	15	15	15	15	15
Weighted Percentage of Course Contribution to Pos	3.0	3.0	3.0	3.0	3.0

Subject Code	Subject Name	Category	L	T	P	O	Credits	Inst. Hours	Marks		
									CIA	External	Total
150S2B	BUSINESS ETIQUETTE AND CORPORATE GROOMING	SEC	Y	-	-	-	2	2	25	75	100

Course Outcomes		
Course Outcomes	On completion of this course, students will;	Program Outcomes
CO1	Describe basic concepts of business setiquette and corporate grooming.	PO5, PO6,
CO2	Outline the etiquette and grooming standards followed in business environment and the significance of communication	PO4, PO2, PO5, PO6
CO3	Create cultural awareness and moral practices in real life workplace scenarios	PO8, PO6
CO4	Analyzeworkplacecourtesyandresolveethicalissueswithrespecttoetiquett eand grooming for success	PO1, PO3, PO8, PO6
CO5	Apply the professionalism in the workplace considering diversity and courtesy	PO3, PO8, PO6

### MAPPING WITH PROGRAM OUTCOMES

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	M	M	S	S	S	M	M	S
CO 2	M	M	S	S	S	M	M	S
CO 3	M	M	S	S	S	M	M	S
CO 4	M	M	S	S	S	S	M	S
CO 5	M	M	M	S	S	S	M	S

### CO-PO Mapping with Programme Specific Outcomes (Course Articulation Matrix): Level of Correlation between PSO's and CO's

CO/PO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3
CO 2	3	3	3	3	3
CO 3	3	3	3	3	3
CO 4	3	3	3	3	3
CO 5	-	3	3	3	3
Weightage	12	15	15	15	15
Weighted Percentage of Course Contribution to Pos	2.4	3.0	3.0	3.0	3.0

## **SECOND AND THIRD YEAR:**

**C011: MARKETING MANAGEMENT:** The main objective is to understand the marketing concept and its various environment factors and analyze the market based on the segmentation, targeting, and positioning and consumer behavior also to evaluate the product life cycle and new product development process.

**C012: COMPUTER APPLICATION IN BUSINESS:** To display and explain computer tools such as MS-Office word, Excel and PowerPoint. It also enhances with description of windows accessories and electronic data interchange compared to Internet & E-mail and induces to prepare and create Reports Database and presentation on computers.

**C013: BUSINESS MATHEMATICS AND STATISTICS:** Explain the Application of mathematics and statistics in business disciplines. To acquaint the Evaluation of fluctuation in Price and quantity of goods and products using various index numbers and Analyze test of hypothesis.

**C014: PERSONALITY ENRICHMENT – I:** The main objective is to develop the concepts of self-disclosure and self-awareness techniques. To enhance with VCR3 and SQ3R study methods to increase the memory quotient in goal setting, time management and to overcome procrastination.

**C015: ADVERTISEMENT AND SALES PROMOTION:** Understand how advertisements used to promote the sales and its long terms effect in a business, concepts and functions of Advertising. To assessing awareness about the various methods and applications of advertising. Discuss practical concepts of advertising. Evaluate concepts of advertising media design and decision

**C016: RESEARCH METHODOLOGY:** To provide with an overview of basics concepts of Research and its Methodologies. To acquaint them with the fundamentals of Research process, Research design and Sampling techniques. To inculcate the Innovative skills in collection of data, selection of appropriate measures, Data analysis, Interpretation of results and Report writing of the Research.

**C017 OPERATIONS MANAGEMENT:** To insight the knowledge in selection of plant locations and layout decision for manufacturing units and analyze the inventory models to be used in production also to induce them with the familiarize factors like inspection, quality control, and charts which are to be used in production area and describe about service operation management.

**C018: MATERIAL MANAGEMENT:** To provide an understanding of the concept and need for management of inventory in an organization. To familiarize the various tools and techniques of inventory control, various methods of purchasing and importance of vendor selection and rating. To demonstrate various accounting practices related to inventory. To acquaint suitable materials handling principles and practices in the operations.

**C019: ENTREPRENUERIAL DEVELOPMENT:** To understand the concept of entrepreneurship and factors influencing entrepreneurship. To learn about the various institutional support available to entrepreneurs in general and women entrepreneurs in particular. To learn about feasibility study, project appraisal and preparation of project report. know

**C020: VALUE EDUCATION:** Students learn the importance of values which acts as guiding factor in their routine life. Students will understood Salient values for life like Truth, commitment, honesty and integrity, forgiveness and love, empathy and ability to sacrifice, care, unity etc. Analyze the role of media in value building and Gain awareness about social evils and how to overcome from that.

**C021: TAMIL –II:** This semester syllabus focuses on anthropology, rain of kings, ancient literature, prose, poetry, mystery and contemporary literature. The students are insisted to develop the mobility and humanity.

**CO22: ENG – II :** The text book prescribed for second semester is Panorama contains five units. Prose contains four prose works which gives information about partition in the country, faith of a woman and various achievements of women's. Poetry deals about the girl's beauty in the field, gifts and a life of the soldiers and also about the west wind. Short stories which gives the information about to the students that money is not an important one and the important thing is their dedication and sincere to complete a work. One Act play encourages the students to take part in all the family events and teaches some family and moral values. Grammar in which the students learned about how seek or give information, expressing ability and Spotting the errors.

**CO23: MANAGEMENT ACCOUNTING:** The objective is to ascertain the importance of accounting concepts in the management, difference VS Financial accounting and Management accounting. It is also to impart the Knowledge in preparation of Comparative statements, Trend analysis, and Usage of Ratio analysis, Fund flow and Cash flow statements of the Business and also to equip them with various budgetary control and Investment Decision of the management.

**CO24: BUSINESS COMMUNICATION:** Students get understand the types of business communication and business letters. They know how the information is shared with respect to business, both within and outside an organization. To get train to write effective business Letters and documents. Students know the business letter writing in the organization, analyzes to prepare a report, minutes and memorandum of a meeting. Learn the types of business letter in various context like interview, enquiry, sales letters different letter forms like bank correspondence, insurance correspondence which are of practical importance.

**C025: INTERNATIONAL TRADE:** To acquaint them with the Knowledge about the importance of international trade and its various theories prescribed by authors. Explain the importance of balance of trade and balance of payment in international trade. To inculcate them with the functions of international monetary fund in trade also to indicate the role of WTO international trade.

**C026: FUNDAMENDALS OF DISASTER MANAGEMENT:** Understanding foundations of hazards, disasters and associated natural/social phenomena. Familiarity with disaster management theory (cycle, phases), Knowledge about existing global frameworks and existing agreements (e.g. Sendai) Humanitarian Assistance before and after disaster knowing the technological innovations in Disaster Risk Reduction: Advantages and problems

**C027: ESSENTIALS OF SPOKEN AND PRESENTATION SKILLS:** It helps a student to keep a presentation interesting. It also helps the presenter communicate with confidence and motivate them to create variety and speak with optimal audibility during presentation. It further helps the students to learn verbal and non-verbal gestures

**C028: FINANCIAL SERVICES:** The students be educated regarding design and delivery of financial instruments and advisory services to individual and business in the area of banking and its related institutions. They understand and evaluate types of NBFCs and merchant banking, regulatory and promotional institutions like RBI & SEBI. Point out concepts and features of leasing and hire purchase, venture capital, credit rating, consumer finance and mutual funds.



**C029: BUSINESS REGULATORY FRAMEWORK:** The objective is to acquaint the student with the basic and elementary knowledge of Indian contracts acts, Indian companies' acts and consumer Protection Act. Also to understand the Trade Marks Copyright, Patents, and Designs related to intellectual Property Rights.

**C030: HUMAN RESOURCE MANAGEMENT:** Demonstrate a knowledge of how global issues, including multicultural and diversity concerns, affect business via specific questions. Understand the concept of human resource planning, recruitment process and selection methods in the organization. Discuss need for motivating employees in an organisation. Understand labour relations, industrial disputes and settlement in the organization and human resource audit

**C031: MANAGEMENT INFORMATION SYSTEM:** To relate the basic concepts and technologies used in the field of management information systems. Apply Management Information Systems in achieving business competitive advantage. Evaluate business information needs to facilitate evaluation of strategic alternatives. Create strategic alternatives to facilitate decision-making.

**C032: OPERATIONS RESEARCH:** To describe the scope and Characteristics of OR models for formulating graphical method and to evaluate the transportation and assignment problem. To gain Brief knowledge on Queuing models, Probability and decision trees.

**C033: ENVIRONMENTAL STUDIES:** Learn About the Basics of Environment and Its Composition. Creates awareness of Environment Laws prescribed by government and To Learn What Biodiversity Is and How to protect and preserve them.

**C034: PERSONALITY ENRICHMENT – II:** The main objective is to induce the students with the wellness of life style by imparting the techniques of Stress management and Resolving Interpersonal conflicts. To inculcate the trustworthy Relationship and enhancement of self-esteem by inducing Johari window model to bridge a gap between the skill requirement of the industry and the competency of the students.

**C035: BUSINESS TAXATION:** To Insight the law and application of Business taxes along with its various types including goods and service tax system. To acquaint them with the regulations of Central Excise duty, Customs duty and Sales tax and its practices.

**CO36: SERVICE MARKETING:** To make the student understand the B2B (BUSINESS TO BUSINESS) and B2C concepts. Describe characteristics of service, explain elements in marketing mix for services. Students will learn the challenges facing the services marketing in diverse environments – traditional, commercial, marketing, e-marketing, non-commercial.

**C037: CUSTOMER RELATIONSHIP MANAGEMENT:** To know the different mode of communication and essential of business letter needs for CRM. Assess application of critical skills necessary for building customer relationship and to understand the relationship of banker and customer. Learn to Review and evaluation of Customer Satisfaction

**CO38: BUSINESS ENVIRONMENT:** To develop an understanding as to the environment in which business operates and the various factors influencing Business Environment. Impact of political, cultural, economic, legal and financial environment on business.

**CO39: PROJECT WORK:** To visit business unit to gain practical knowledge of the working of an organization in general and about any concept in particular. To prepare project report.

DEPARTMENT OF COMPUTER SCIENCE

## **B.Sc. COMPUTER SCIENCE**

### **PROGRAMME OUTCOME (PO):**

Bachelor of Science offers theoretical as well as practical knowledge about different subject areas. This programme course is most beneficial for students who have a strong interest and background in Science and Mathematics. The course is also beneficial for students who wish to pursue multi and inter-disciplinary science careers in future. Following are the various programme outcomes:

**PO1:** Apply the knowledge of mathematics, science, and computing to the solution of complex scientific problems.

**PO2:** It helps to develop scientific temper and thus can prove to be more beneficial for the society as the scientific developments can make a nation or society to grow at a rapid pace.

**PO3:** After the completion of this course students have the option to go for higher studies i.e. M.Sc., MCA, MBA and B.Ed., then do some research for the welfare of mankind.

**PO4:** Science graduates can go to serve in industries or may opt for establishing their own industrial unit.

**PO5:** After the completion of the B.Sc., degree, there are various other options available for the science students. Often, in some reputed universities or colleges in India and abroad the students are recruited directly by big MNC's after their completion of the course.

### **PROGRAMME SPECIFIC OUTCOME (PSO):**

**PSO1:** Understanding of the principles and working of the hardware and software aspects of Computer systems.

**PSO2:** Able to communicate effectively and to improve their competency skills to solve real world problems using programming languages of Python, C++, Java, DS, PHP, MYSQL, DDL Commands, DML Commands, ORACLE & UML Toolkit.

**PSO3:** Student will become a best Software developer, Software tester and Software designer through learning skills, practical skills and able to create apps, which will act as user friendly.

**PSO4:** The ability to employ modern computer languages and applications for their successful career, to create platforms to become an entrepreneur and a relish for higher studies.

**PSO5:** To gain a good understanding of the architecture and functioning of Database Management Systems, Understand the use of Structured Query Language (SQL) and its syntax. Apply Normalization techniques to normalize a database. Understand the need of transaction processing and learn techniques for controlling the consequences of concurrent data access.

**PSO6:** An ability to use innovative tools, techniques and skills necessary for developing multidisciplinary projects.

Year: I

Semester: I

<b>Core-I: Python Programming</b> (Common to B.Sc.-CS with AI, CS with DS, Software Appl.& BCA)	<b>125C1A</b>
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**Course Outcomes:** (for students: To know what they are going to learn)

**CO1:** Develop and execute simple Python programs

**CO2:** Write simple Python programs using conditionals and looping for solving problems

**CO3:** Decompose a Python program into functions

**CO4:** Represent compound data using Python lists, tuples, dictionaries etc.

**CO5:** Read and write data from/to files in Python programs

Year: I

Semester: I

<b>Core-II: Python Programming Practical</b> (Common to B.Sc.-CS with AI, CS with DS, Software Appl.& BCA)	<b>125C11</b>
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**Course Outcomes:** (for students: To know what they are going to learn)

**CO1:** To understand the problem-solving approaches

**CO2:** To learn the basic programming constructs in Python

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

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

**CO5:** To do input/output with files in Python.

Year: I

Semester: I

<b>Title of the Course</b>	<b>MATHEMATICS–I</b> (Common to B.Sc Physics, Physics with CA, Chemistry, ECS, DataScience, Artificial Intelligence, Software Applications & BCA)
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**Course Learning Outcome (for Mapping with Pos and PSOs)**

Students will be able to

**CLO1:** Understand the concepts of Summation of Series.

**CLO2:** Understand the concepts of Cayley Hamilton Theorem and inverse matrices.

**CLO3:** Understand the concepts of finite differences.

**CLO4:** Understand the knowledge about expansions, hyperbolic and inverse hyperbolic functions.

**CLO5:** Understand the concept of Leibnitz theorem and functions of two variables

	POs						PSOs		
	1	2	3	4	5	6	1	2	3
CLO 1	2	3	1	3	1	1	3	1	1
CLO 2	3	2	1	3	1	1	3	1	1
CLO 3	3	2	1	3	1	1	3	1	1
CLO 4	3	3	1	3	1	1	3	1	1
CLO 5	3	2	1	3	1	1	3	1	1

<b>Skill Enhancement Course: Office Automation</b> (Common to B.Sc.-CS with AI, CS with DS, Software Appl.& BCA)	<b>125S1A</b>
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**Course Outcomes:** (for students: To know what they are going to learn)

CO1: Understand the basics of computer systems and its components.

CO2: Understand and apply the basic concepts of a word processing package.

CO3: Understand and apply the basic concepts of electronic spreadsheet software.

CO4: Understand and apply the basic concepts of database management system.

CO5: Understand and create a presentation using PowerPoint tool.

Year: I

Semester: I

<b>Foundation Course: Fundamentals of Computers</b> (Common to B.Sc.-CS with AI, CS with DS, Software Appl. & BCA)	<b>125B1A</b>
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**Course Outcomes:** (for students: To know what they are going to learn)

**CO1:** Fundamental concepts of computer

**CO2:** Fundamental mathematical techniques and how they relate to computer

**CO3:** The architecture of processing and file storage in a computer system

**CO4:** Basic operations of operating systems

**CO5:** A variety of software packages applicable to an academic, software development and business environment

**Year: I**

**Semester: II**

<b>Introduction to Computer Architecture and Microprocessor Practical</b>	<b>125C21</b>
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**Course Outcomes:** (for students: To know what they are going to learn)

**CO1:** Remember the Basic binary codes and their conversions. Binary concepts are used in Microprocessor programming and provide a good understanding of the architecture of 8085.

**CO2:** Understanding the 8085-instruction set and their classifications, enables the students to write the programs easily on their own using different logic.

**CO3:** Applying different types of instructions to convert binary codes and analysing the outcome. The instruction set is applied to develop programs on multibyte arithmetic operations.

**CO4:** Analyse how peripheral devices are connected to 8085 using Interrupts and DMA controller.

**Year: I**

**Semester: II**

<b>Introduction to Computer Architecture and Microprocessor</b>	<b>125C2A</b>
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Course Outcomes: (for students: To know what they are going to learn)

CO1: Remember the Basic binary codes and their conversions. Binary concepts are used in Microprocessor programming and provide a good understanding of the architecture of 8085.

CO2: Understanding the 8085-instruction set and their classifications, enables the students to write the programs easily on their own using different logic.

CO3: Applying different types of instructions to convert binary codes and analysing the outcome. The instruction set is applied to develop programs on multibyte arithmetic operations.

CO4: Analyse how peripheral devices are connected to 8085 using Interrupts and DMA controller.

<b>Title of the Course</b>	<b>MATHEMATICS – II</b> (Common to B.Sc-Physics, Physics with CA, Chemistry, Computer Science, ECS, Data Science, Artificial Intelligence, Software Applications & BCA)
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**Course Learning Outcome (for Mapping with POs and PSOs)**

Students will be able to

**CLO 1:** Understand the various concepts of Bernoulli's and Reduction Formula.

**CLO 2:** Understand the concepts of Fourier Series

**CLO 3:** Understand the concepts of Non-Homogenous and Partial Differential Equations

**CLO 4:** Understand the Laplace Transforms

**CLO 5:** Understand the concepts of Vector Differentiation.

	Pos						PSOs		
	1	2	3	4	5	6	1	2	3
CLO 1	1	3	2	3	1	1	3	1	1
CLO 2	2	3	1	3	1	1	3	1	1
CLO 3	3	2	1	3	1	1	3	1	1
CLO 4	2	3	1	3	1	1	3	1	1
CLO 5	3	3	2	3	1	1	3	1	1

**Year: I**

**Semester: II**

<b>Quantitative Aptitude</b>	<b>125S2A</b>
Common for B.C.A. , B.Sc.-SA , B.Sc.-CSc , B.Sc.-CSc-wAI , B.Sc.-CSc-wDS	

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

CO1: To gain knowledge on LCM and HCF and its related problems

CO2: To get an idea of age, profit and loss related problem solving.

CO3: Able to understand time series simple and compound interests

CO4: Understanding the problem related to probability, and series

CO5: Able to understand graphs, charts

**Year: I**

**Semester: II**

<b>Problem Solving Techniques</b>	<b>125S2B</b>
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**Course Outcomes:** (for students: To know what they are going to learn)

CO1: Understand the systematic approach to problem solving.

CO2: Know the approach and algorithms to solve specific fundamental problems.

CO3: Understand the efficient approach to solve specific factoring-related problems.

CO4: Understand the efficient array-related techniques to solve specific problems.

CO5: Understand the efficient methods to solve specific problems related to text processing.

Understand how recursion works



## SECOND AND THIRD YEAR:

**CO15: TAMIL-III** – The course mainly focuses on the importance of Religion and religious people. It spreads love, affection and self-confidence to all the people. It also focuses on life and lifestyle of the ancient people like Kannagi, Madhavi and many epic stories.

**CO16: ENGLISH III** - After successful completion of this course the students develop their skills in the areas of academic reading, writing, speaking, and listening. The students can demonstrate and understand which helps an ability to produce the structure, conventions and characteristics of a range of short academic essays. Deliver structured academic oral and written presentations.

**CO17: PROGRAMMING WITH C++&DATASTRUCTURES-** To gain knowledge about OOPS concepts such as polymorphism, inheritance, class, object and learn the data structure types and operations on data structures.

**CO18: PROGRAMMINGWITHC++LAB** To gain practical knowledge about OOPS with data structures.

**CO19: STATISTICAL METHODS & THEIR APPLICATIONS I-** Students will formulate complete, concise, and correct mathematical proofs. Students will frame problems using multiple mathematical and statistical representations of relevant structures and relationships and solve using standard techniques. Students will create quantitative models to solve real world problems in appropriate context and will effectively use professional level technology tools to support the study of mathematics and statistics methods.

**CO20: ENVIRONMENTAL STUDIES** – To analyze the importance and influence of environment on the economy including the quality of manpower. To define the nature and classification of resource and energy within the context in India. To gain knowledge on environment awareness program.

**CO21: PERSONALITY ENRICHMENT - LEVEL I** – To learn the importance of improving their personality and learn about the components and need for personality development. Motivation, social and economic scenario imparted to the students. Rational decision making and nurturing creativity are the outcomes expected. Students understand the importance of Positive thinking and traits of Positive thinkers and how to follow a positive lifestyle.

**CO22: TAMIL –IV:** Ancient literature folks of inner and outer activities of the country are focused in this course. It also focuses on noble culture, tradition and discipline spread among the students through the historical plays. Students are also learning climate, seasons, atmosphere, agriculture and generosity. It also focuses on ancient moral and mythical values.

**CO23: ENGLISH IV** – This course develops English language skills in listening, speaking, reading and writing by having learners engage in a range of communicative tasks and activities. Further the course expands the learner's use of grammatically correct and appropriate language in speaking and writing for effective communication in a variety of interpersonal and academic situations.

**CO24: WEB TECHNOLOGY**–To gain knowledge about basic HTML, PHP & XML. Use XAMPP environment to create a website with databases. Able to solve real world problems using script techniques, able to understand the use of files, directories & oops concept. Develop queries using SQLite & PDO Extension.

**CO25: WEB TECHNOLOGY LAB**– To gain practical knowledge about NOTEPAD++, XAMPP to implement PHP, MYSQL and XML.

**CO26: STATISTICAL METHODS & THEIR APPLICATIONS II:** Analysing Statistical data through statistical methods and demonstrates the concepts of time series and its applications in different areas.

**CO27: STATISTICAL METHODS & THEIR APPLICATIONS II (PRACTICAL):** students will gain and able to understand the practice of statistical methods, with specific Preference to problems of standard deviation, measures of central tendency, parametric and non-parametric test, analysis of variance and skewness.

**CO28: ENVIRONMENTAL STUDIES**-To analyze the importance and influence of environment on the economy including the quality of manpower. To define the nature and classification of resource and energy within the context in India. To gain knowledge on environment awareness program. To illustrate about the international environment assessment program.

**CO29: PERSONALITY ENRICHMENT-II** - To learn the importance of improving their personality and learn about the components and need for personality development. Motivation, social and economic scenario imparted to the students. Rational decision making and nurturing creativity are the outcomes expected. Students understand the importance of Positive thinking and traits of positive thinkers and how to follow a positive life style.

**CO30: RDBMS** –Describe basic concepts of database system, design a Data model and Schemas in RDBMS, competent in use of SQL and analyze functional dependencies for designing robust Database.

**CO31: OPERATING SYSTEM** – To learn the fundamentals and mechanisms of operating system to handle processors, thread and memory management to gain knowledge on distributed operating system concepts that includes architecture, mutual exclusion algorithms, deadlock.

**CO32: OPERATING SYSTEM LAB** – To learn Process management and scheduling, to understand the concepts and implementation of memory management policies, to understand the various issues in Inter Process Communication. Understand the process management policies and scheduling process by CPU. Analyze the memory management and its allocation policies. To evaluate the requirement for process synchronization.

**CO33: COMPUTER NETWORK** - To understand the concept of Computer network, to impart knowledge about networking and inter networking devices, analyze different network models describe, analyze and compare a number of data link, network and transport layer, analysing key networking protocols and their hierarchical relationship in the conceptual model like TCP/IP and OSI

## **B.C.A**

### **PROGRAMME OUTCOME (PO):**

Bachelor of Science offers theoretical as well as practical knowledge about different subject areas. This programme course is most beneficial for students who have a strong interest and background in Science and Mathematics. The course is also beneficial for students who wish to pursue multi and inter-disciplinary science careers in future. Following are the various programme outcomes:

**PO1:** Apply the knowledge of mathematics, science, and computing to the solution of complex scientific problems.

**PO2:** It helps to develop scientific temper and thus can prove to be more beneficial for the society as the scientific developments can make a nation or society to grow at a rapid pace.

**PO3:** After the completion of this course students have the option to go for higher studies i.e. M.Sc., MCA, MBA and B.Ed., then do some research for the welfare of mankind.

**PO4:** Science graduates can go to serve in industries or may opt for establishing their own industrial unit.

**PO5:** After the completion of the B.Sc., degree, there are various other options available for the science students. Often, in some reputed universities or colleges in India and abroad the students are recruited directly by big MNC's after their completion of the course.

**PROGRAMME SPECIFIC OUTCOME (PSO):**

**PSO1:** Understanding of the principles and working of the hardware and software aspects of Computer systems.

**PSO2:** Able to communicate effectively and to improve their competency skills to solve real world problems using programming languages of Python, C++, Java, DS, PHP, MYSQL, DDL Commands, DML Commands, ORACLE & UML Toolkit.

**PSO3:** Student will become a best Software developer, Software tester and Software designer through learning skills, practical skills and able to create apps, which will act as user friendly.

**PSO4:** The ability to employ modern computer languages and applications for their successful career, to create platforms to become an entrepreneur and a relish for higher studies.

**PSO5:** To gain a good understanding of the architecture and functioning of Database Management Systems, Understand the use of Structured Query Language (SQL) and its syntax. Apply Normalization techniques to normalize a database. Understand the need of transaction processing and learn techniques for controlling the consequences of concurrent data access.

**PSO6:** An ability to use innovative tools, techniques and skills necessary for developing multidisciplinary projects.

Year: I

Semester: I

<b>Core-I: Python Programming</b> (Common to B.Sc.-CS with AI, CS with DS, Software Appl.& BCA)	<b>125C1A</b>
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**Course Outcomes:** (for students: To know what they are going to learn)

**CO1:** Develop and execute simple Python programs

**CO2:** Write simple Python programs using conditionals and looping for solving problems

**CO3:** Decompose a Python program into functions

**CO4:** Represent compound data using Python lists, tuples, dictionaries etc.

**CO5:** Read and write data from/to files in Python programs

Year: I

Semester: I

<b>Core-II: Python Programming Practical</b> (Common to B.Sc.-CS with AI, CS with DS, Software Appl.& BCA)	<b>125C11</b>
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**Course Outcomes:** (for students: To know what they are going to learn)

**CO1:** To understand the problem-solving approaches

**CO2:** To learn the basic programming constructs in Python

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

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

**CO5:** To do input/output with files in Python.

Year: I

Semester: I

<b>Title of the Course</b>	<b>MATHEMATICS–I</b> (Common to B.Sc Physics, Physics with CA, Chemistry, ECS, DataScience, Artificial Intelligence, Software Applications & BCA)
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**Course Learning Outcome (for Mapping with Pos and PSOs)**

Students will be able to

**CLO1:** Understand the concepts of Summation of Series.

**CLO2:** Understand the concepts of Cayley Hamilton Theorem and inverse matrices.

**CLO3:** Understand the concepts of finite differences.

**CLO4:** Understand the knowledge about expansions, hyperbolic and inverse hyperbolic functions.

**CLO5:** Understand the concept of Leibnitz theorem and functions of two variables

	Pos						PSOs		
	1	2	3	4	5	6	1	2	3
CLO 1	2	3	1	3	1	1	3	1	1
CLO 2	3	2	1	3	1	1	3	1	1
CLO 3	3	2	1	3	1	1	3	1	1
CLO 4	3	3	1	3	1	1	3	1	1
CLO 5	3	2	1	3	1	1	3	1	1

<b>Skill Enhancement Course: Office Automation</b> (Common to B.Sc.-CS with AI, CS with DS, Software Appl.& BCA)	<b>125S1A</b>
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**Course Outcomes:** (for students: To know what they are going to learn)

- CO1: Understand the basics of computer systems and its components.
- CO2: Understand and apply the basic concepts of a word processing package.
- CO3: Understand and apply the basic concepts of electronic spreadsheet software.
- CO4: Understand and apply the basic concepts of database management system.
- CO5: Understand and create a presentation using PowerPoint tool.

**Year: I**

**Semester: I**

<b>Foundation Course: Fundamentals of Computers</b> (Common to B.Sc.-CS with AI, CS with DS, Software Appl. & BCA)	<b>125B1A</b>
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**Course Outcomes:** (for students: To know what they are going to learn)

- CO1: Fundamental concepts of computer
- CO2: Fundamental mathematical techniques and how they relate to computer
- CO3: The architecture of processing and file storage in a computer system
- CO4: Basic operations of operating systems
- CO5: A variety of software packages applicable to an academic, software development and business environment

**Year: I**

**Semester: II**

<b>Introduction to Computer Architecture and Microprocessor Practical</b>	<b>125C21</b>
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**Course Outcomes:** (for students: To know what they are going to learn)

- CO1: Remember the Basic binary codes and their conversions. Binary concepts are used in Microprocessor programming and provide a good understanding of the architecture of 8085.
- CO2: Understanding the 8085-instruction set and their classifications, enables the students to write the programs easily on their own using different logic.
- CO3: Applying different types of instructions to convert binary codes and analysing the outcome. The instruction set is applied to develop programs on multibyte arithmetic operations.
- CO4: Analyse how peripheral devices are connected to 8085 using Interrupts and DMA controller.

**Year: I**

**Semester: II**

<b>Introduction to Computer Architecture and Microprocessor</b>	<b>125C2A</b>
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Course Outcomes: (for students: To know what they are going to learn)

CO1: Remember the Basic binary codes and their conversions. Binary concepts are used in Microprocessor programming and provide a good understanding of the architecture of 8085.

CO2: Understanding the 8085-instruction set and their classifications, enables the students to write the programs easily on their own using different logic.

CO3: Applying different types of instructions to convert binary codes and analysing the outcome. The instruction set is applied to develop programs on multibyte arithmetic operations.

CO4: Analyse how peripheral devices are connected to 8085 using Interrupts and DMA controller.

<b>Title of the Course</b>	<b>MATHEMATICS – II</b> (Common to B.Sc-Physics, Physics with CA, Chemistry, Computer Science, ECS, Data Science, Artificial Intelligence, Software Applications & BCA)
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**Course Learning Outcome (for Mapping with POs and PSOs)**

Students will be able to

**CLO 1:** Understand the various concepts of Bernoulli’s and Reduction Formula.

**CLO 2:** Understand the concepts of Fourier Series

**CLO 3:** Understand the concepts of Non-Homogenous and Partial Differential Equations

**CLO 4:** Understand the Laplace Transforms

**CLO 5:** Understand the concepts of Vector Differentiation.

	Pos						PSOs		
	1	2	3	4	5	6	1	2	3
CLO 1	1	3	2	3	1	1	3	1	1
CLO 2	2	3	1	3	1	1	3	1	1
CLO 3	3	2	1	3	1	1	3	1	1
CLO 4	2	3	1	3	1	1	3	1	1
CLO 5	3	3	2	3	1	1	3	1	1

Year: I

Semester: II

<b>Quantitative Aptitude</b>	<b>125S2A</b>
Common for B.C.A. , B.Sc.-SA , B.Sc.-CSc , B.Sc.-CSc-wAI , B.Sc.-CSc-wDS	

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

CO1: To gain knowledge on LCM and HCF and its related problems

CO2: To get an idea of age, profit and loss related problem solving.

CO3: Able to understand time series simple and compound interests

CO4: Understanding the problem related to probability, and series

CO5: Able to understand graphs, charts

Year: I

Semester: II

<b>Problem Solving Techniques</b>	<b>125S2B</b>
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**Course Outcomes:** (for students: To know what they are going to learn)

CO1: Understand the systematic approach to problem solving.

CO2: Know the approach and algorithms to solve specific fundamental problems.

CO3: Understand the efficient approach to solve specific factoring-related problems.

CO4: Understand the efficient array-related techniques to solve specific problems.

CO5: Understand the efficient methods to solve specific problems related to text processing.

Understand how recursion works

## SECOND AND THIRD YEAR:

CO14: NON-MAJOR ELECTIVE: FUNCTIONAL MATHEMATICS – II –Develop

problem solving skills, critical thinking skills through various problem (area, circumference of different shapes, angles of quadrilaterals and polygon)

CO15: MICROPROCESSOR & ITS APPLICATION: Assess and solve basic binary math operations using the microprocessor and explain the microprocessors and Microcontroller's internal architecture and its operation within the area of manufacturing and performance. Apply knowledge and demonstrate programming proficiency using the various addressing modes and data transfer instructions of the target microprocessor and microcontroller.

**CO16: PROGRAMMING IN C++ AND DATA STRUCTURES-** To gain knowledge about OOPS concepts such as polymorphism, inheritance, class, object and learn the data structure types and operations on data structures.

**CO17: FINANCIAL ACCOUNTING:** To develop future managers for offices and/or software developers, support professionals, who would meet, the dynamic needs of the industry in a competitive and challenging environment.



The program aims at providing expertise to students in different Office support system and software development area.

**CO18: NUMERICAL & STATISTICAL METHODS:** To learn advanced features of the numerical calculations, the measures of central tendency, the measures of dispersions and mathematical properties of variance

**CO19: PROGRAMMING IN C++ LAB:** To gain practical knowledge about OOPS with data structures.

**CO20: SOFTSKILL-III: PERSONALITY ENRICHMENT LEVEL I –** To learn the importance of improving their personality and learn about the components and need for personality development. Motivation, social and economic scenario imparted to the students. Rational decision making and nurturing creativity are the outcomes expected. Students understand the importance of Positive thinking and traits of positive thinkers and how to follow a positive lifestyle.

**CO21: OPERATING SYSTEM:** To learn the fundamentals and mechanisms of operating system to handle processors, thread and memory management to gain knowledge on distributed operating system concepts that includes architecture, mutual exclusion algorithms, deadlock.

**CO22: COMPUTER GRAPHICS:** To learn the basic concepts used in computer graphics, to implement various algorithms to scan, convert the basic geometrical primitives, transformations, Area filling, clipping, to describe the importance of viewing and projections, to define the fundamentals of animation.

**CO23: PROGRAMMING IN JAVA–**To gain knowledge about basic Java and fundamentals of OOPS. Use JDK environment to create a solution for problem and implement exception handling, Packages and multithreading concepts. Able to understand the use of OOPs concepts, solve real world problems using OOP techniques, understand the use of abstraction, understand the use of Packages and Interface in java, develop and understand exception handling, multithreaded applications with synchronization.

**CO24: COST AND MANAGEMENT ACCOUNTING:** On completion of this course, students should be able to identify, use and interpret the results of costing techniques appropriate to different activities and decisions; formulate and use standards and budgets for planning and control purposes; understand the role of responsibility accounting and performance measurement; understand the behavioural implications of performance measurement and transfer pricing systems in defictionalized

businesses; appreciate the need to relate management accounting systems to contemporary thinking about organizational planning and control.

**CO25: PROGRAMMING IN JAVA LAB:** To gain practical knowledge about basic Java and Applets.

CO26: SOFTSKILL-IV: PERSONALITY ENRICHMENT LEVEL II: To learn the importance of improving their personality and learn about the components and need for personality development. Motivation, social and economic scenario imparted to the students. Rational decision making and nurturing creativity are the outcomes expected. Students understand the importance of Positive thinking and traits of positive thinkers and how to follow a positive s lifestyle.

**CO27: ENVIRONMENTAL STUDIES:** To analyse the importance and influence of environment on the economy including the quality of manpower. To define the nature and classification of resource and energy within the context in India To gain knowledge on environment awareness program. To illustrate about the International environment assessment program.

**CO28: RELATIONAL DATABASE MANAGEMENT SYSTEM**

At the end of this subject, the student will have a broad understanding of database concepts and database management system software have a high-level understanding of major DBMS components and their function able to model an application's data requirements using conceptual modelling tools like ER diagrams and design database schemas based on the conceptual model. Gain a good understanding of the architecture and functioning of Database Management Systems Understand the use of Structured Query Language (SQL) and its syntax.

**CO29:PL/SQL LAB**

Design and implement a database schema for given problem. Capable to design and build a GUI application. Apply the normalization techniques for development of application software to realistic problems. Formulate queries using SQL DML/DDl/DCL commands. Learn the various DDL and DML commands. Understand queries in SQL to retrieve information from data base. Understand PL/SQL statements: Exception Handling, Cursors, and Triggers. Develop database applications using front-end and back-end tools.

**CO30: RESOURCE MANAGEMENT TECHNIQUES:** Upon Completion of the course, the students should be able to solve optimization problems using simple method. Apply integer programming and linear programming to solve real-life applications. Use PERT and CPM for problems in project management

**CO31: SOFTWARE ENGINEERING:** The basic objective of software engineering is to develop methods and procedures for software development that can scale up for large systems and that can be used consistently to produce high- quality software at low cost and with as mal lcycle of time.

**CO32: OPERATING SYSTEM –** To learn the fundamentals and mechanisms of operating system to handle processors, thread and memory management to gain knowledge on distributed operating system concepts that includes architecture, mutual exclusion algorithms, deadlock.

**CO33: OPERATING SYSTEM LAB –** To learn Process management and scheduling, to understand the concepts and implementation of memory management policies, to understand the various issues in Inter Process Communication. Understand the process management policies and scheduling process by CPU. Analyze the memory management and its allocation policies. To evaluate the requirement for process synchronization.

**CO33: VALUE EDUCATION:** To learn the importance of values which acts as guiding factor in day today life. Personal values like affection, compassion, gratitude, courage, optimism are taught to the students to improve their mind and personality. Family values and importance of family bonding are understood by the students. Students understand the difference between self- esteem and ego and the harmful effects of Anger.

**CO34: WEB DESIGN AND DEVELOPMENT:** Analyses a web page and identify its elements and attributes, create web page using HTML, built dynamic web page using JavaScript, VB Script and ASP.NET. To understand Web based programming and scripting languages. To learn the basic web concepts and to create rich internet applications that use most recent client-side programming technologies. To learn the basics of HTML, DHTML, XML, CSS, Java Script and AJAX. Ability to Develop and publish Web pages using Hypertext Markup Language (HTML). Ability to optimize page styles and layout with Cascading Style Sheets (CSS). Ability to Understand, analyze and apply the role of languages to create a capstone Website using client-side web programming languages like HTML, DHTML, CSS, XML, JavaScript, and AJAX.

**CO35: MOBILE APPLICATION DEVELOPMENT** To make the student understand the basic concepts of mobile application development, be aware of Characteristics of mobile applications, User-interface design, basics of graphics and multimedia. To gain knowledge about testing and publishing of Android application To explain the basics of mobile application development. Develop Android application with User interface, networking and animation. Use simulator tools to test and publish the application.

**CO36: MOBILE APPLICATION DEVELOPMENT LAB**

To give overall view of Mobile application development. Develop and Publish Android applications using Graphical user interface. Develop and Publish Android application which can use Location and network services. At the end of the course, the student should be able to, Use Emulator tools to design and develop applications.

# DEPARTMENT OF MATHEMATICS

## **B.Sc MATHEMATICS**

### **PROGRAMME OUTCOMES**

**PO1: Disciplinary knowledge:** Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate Programme of study

**PO2: Communication Skills:** Ability to express thoughts and ideas effectively in writing and orally; Communicate with others using appropriate media; confidently share one's views and express herself/himself; demonstrate the ability to listen carefully, read and write analytically, and present complex information in a clear and concise manner to different groups.

**PO3: Critical thinking:** Capability to apply analytic thought to a body of knowledge; analyse and evaluate evidence, arguments, claims, beliefs on the basis of empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach to knowledge development.

**PO4: Problem solving:** Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge; and apply one's learning to real life situations.

**PO5: Analytical reasoning:** Ability to evaluate the reliability and relevance of evidence; identify logical flaws and holes in the arguments of others; analyze and synthesize data from a variety of sources; draw valid conclusions and support them with evidence and examples, and addressing opposing viewpoints.

**PO6: Research-related skills:** A sense of inquiry and capability for asking relevant/appropriate questions, problem arising, synthesising and articulating; Ability to recognise cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyse, interpret and draw conclusions from data, establish hypotheses, predict cause and-effect relationships; ability to plan, execute and report the results of an experiment or investigation.

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

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

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

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

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

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

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

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

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

### **PROGRAMME SPECIFIC OUTCOMES**

**PSO1: Placement:** To prepare the students who will demonstrate respectful engagement with others ideas, behaviours, beliefs and apply diverse frames of reference to decisions and action. Further the students are encouraged with add-on value based and job-oriented courses which ensure them to sustain in the organisation level.

**PSO2 – Contribution to Business World:** Apply theoretical concepts to business practices to produce employable, ethical, and innovative professionals to sustain in the dynamic business world.

**PSO3 – Contribution to the Society:** To contribute to the development of the society by collaborating with stakeholders for mutual benefit. Become acquainted with commercial knowledge and soft skill to react in the most appropriate way when faced with challenges in the society.

## CORE-I: ALGEBRA & TRIGONOMETRY

### Course Learning Outcome (for Mapping with Pos and PSOs)

Students will be able to

**CLO1:** Classify and Solve reciprocal equations

**CLO2:** Find the sum of binomial, exponential and logarithmic series

**CLO 3:** Find Eigen values, eigen vectors, verify Cayley– Hamilton theorem and diagonalize a given matrix

**CLO4:** Expand the powers and multiples of trigonometric functions in terms of sine and cosine

**CLO5:** Determine relationship between circular and hyperbolic functions and the summation of trigonometric series

	Pos						PSOs		
	1	2	3	4	5	6	1	2	3
CLO1	3	1	3	-	-	-	3	2	1
CLO2	2	1	3	1	-	-	3	2	1
CLO3	3	1	3	1	-	-	3	2	1
CLO4	3	1	3	-	-	-	3	2	1
CLO5	3	1	3	-	-	-	3	2	1

## CORE-II: DIFFERENTIAL CALCULUS

### Course Learning Outcome (for Mapping with PLOs and PSOs)

**Students will be able to**

CLO1: Find the nth derivative, form equations involving derivatives and apply Leibnitz formula

CLO2: Find the partial derivative and total derivative coefficient

CLO3: Determine maxima and minima of functions of two variables and to use the Lagrange's method of undetermined multipliers

CLO4: Find the envelope of a given family of curves

CLO5: Find the evolutes and involutes and to find the radius of curvature using polar co-ordinates

	Pos						PSOs		
	1	2	3	4	5	6	1	2	3
CLO1	3	1	3	-	-	-	3	2	1
CLO2	2	1	3	-	-	-	3	2	1
CLO3	3	2	3	2	-	-	3	2	1
CLO4	3	2	3	2	1	-	3	2	1
CLO5	3	2	3	2	1	-	3	2	1

## ANALYTICAL GEOMETRY (Two & Three Dimensions)

### Course Learning Outcome (for Mapping with Pos and PSOs)

Students will be able to

**CLO1:** Find pole, polar for conics, diameters, conjugate diameters for ellipse and hyperbola

**CLO2:** Find the polar equations of straight line and circle, equations of chord, tangent and normal and to find the asymptotes of hyperbola

**CLO3:** Explain in detail the system of Planes

**CLO4:** Explain in detail the system of Straight lines

**CLO5:** Explain in detail the system of Spheres

	POS						PSOS		
	1	2	3	4	5	6	1	2	3
CLO1	2	2	2	1	-	-	3	2	1
CLO2	2	2	2	1	-	-	3	2	1
CLO3	3	2	2	1	-	-	3	2	1
CLO4	3	2	3	1	-	-	3	2	1
CLO5	3	2	3	1	-	-	3	2	1

## INTEGRALCALCULUS

### Course Learning Outcome (for Mapping with Pos and PSOs)

Students will be able to

**CLO1:** Determine the integrals of algebraic, trigonometric and logarithmic functions and to find the reduction formulae

**CLO2:** Evaluate double and triple integrals and problems using change of order of integration

**CLO 3:** Solve multiple integrals and to find the areas of curved surfaces and volumes of solids of revolution

**CLO4:** Explain beta and gamma functions and to use them in solving problems of integration

**CLO5:** Explain Geometric and Physical applications of integral calculus

	Pos						PSOs		
	1	2	3	4	5	6	1	2	3
CLO1	3	1	3	-	-	-	3	2	1
CLO2	3	1	3	-	-	-	3	2	1
CLO3	3	1	3	-	-	-	3	2	1
CLO4	3	1	3	-	-	-	3	2	1
CLO5	3	1	3	-	2	1	3	2	1



## NUMERICAL METHODS WITH APPLICATIONS

### Course Learning Outcome (for Mapping with Pos and PSOs)

Students will able to

**CLO 1:** Solve algebraic and transcendental equations using bisection method, iteration method, regula falsi method, and Newton Raphson method.

**CLO 2:** Solve simultaneous linear equations using Gauss elimination method, Gauss Jordan method, and Gauss Seidel method.

**CLO 3:** Use finite differences to calculate differences of a polynomial, factorial polynomials, differences of zero, and summation series.

**CLO 4:** Perform interpolation using central differences formulae, and Gauss forward and backward formulae.

**CLO5:** Perform Numerical differentiation and integration.

	Pos						PSOs		
	1	2	3	4	5	6	1	2	3
CLO1	3	2	3	2	1	1	3	3	2
CLO2	3	2	3	2	1	1	3	3	2
CLO3	3	2	3	2	1	1	3	3	2
CLO4	3	2	3	2	1	1	3	3	2
CLO5	3	2	3	2	1	1	3	3	2

## CALCULUS OFFINITE DIFFERENCES

### Course Learning Outcome (for Mapping with Pos and PSOs)

Students will able to

**CLO1:** Find numerical differentiation using types of interpolation formulae

**CLO2:** Find numerical integration using Trapezoidal rule-Simpson's 1/3 rule-Simpson's 3/8 rule – Weddle's rule

**CLO3:** Solve linear homogeneous & non-homogeneous difference equation with constant coefficients and calculate particular integrals

**CLO4:** Find numerical solution to ODE using Taylor's series, Picard's & Euler's Method

**CLO5:** Find numerical solution to ODE using Modified Euler's method & 4th order RK method.

	Pos						PSOs		
	1	2	3	4	5	6	1	2	3
CLO1	3	2	3	2	1	1	3	3	2
CLO2	3	2	3	2	1	1	3	3	2
CLO3	3	2	3	2	1	1	3	3	2
CLO4	3	2	3	2	1	1	3	3	2
CLO5	3	2	3	2	1	1	3	3	2

## **CORE-V: ANALYTICAL GEOMETRY**

### **Learning outcomes:**

#### **Students will acquire Knowledge**

- To analyze characteristics and properties of two and three dimensional geometric shapes.
- To develop mathematical arguments about geometric relationships.
- In Geometry and its applications in real world.

## **CORE-VI: DIFFERENTIAL EQUATIONS**

### **Learning outcomes:**

#### **Students will acquire knowledge**

- About the methods of solving Ordinary and Partial Differential Equations.
- To introduce Differential Equation as a powerful tool in solving problems in Science.

## **CORE-VII: TRANSFORM TECHNIQUES**

### **Learning outcomes:**

Students will acquire knowledge

- About Laplace Transforms and its inverse
- To apply Laplace transform in solving Ordinary Differential Equations with constant coefficients, simultaneous Ordinary Differential Equations.  
To solve problems in Fourier series and Fourier transforms.

## **CORE-VIII: STATICS**

### **Learning outcomes:**

#### **Students will acquire knowledge about**

- Particles or body in rest under the given forces.
- Forces, equilibrium of a particle and centre of mass of various bodies.

## **ALLIED: MATHEMATICAL STATISTICS–I**

### **Learning outcomes:**

#### **Students will acquire knowledge of**

- The laws of Probability and Baye's theorem.
- Measures of Location, Dispersion, Correlation and Regression
- The Discrete and Continuous Probability Distributions.

## **ALLIED: MATHEMATICAL STATISTICS-II**

### **Learning outcomes:**

#### **Students will acquire knowledge**

- To provide the foundation of statistical analysis used in varied applications.
- Of Sampling methods, Tests of significance and testing of hypothesis.

## **CORE-IX: ALGEBRAIC STRUCTURES-I**

### **Learning outcomes:**

#### **Students will acquire knowledge about**

- The concepts of Sets, Groups and Rings.

## **CORE-X: REAL ANALYSIS-I**

### **Learning outcomes:**

#### **Students will acquire knowledge to**

- Apply Mathematical concepts and Principles to perform numerical and symbolic computations.
- Understand and perform simple proofs.
- Know how abstract ideas and rigorous methods in Mathematical Analysis can be applied to practical problems.

## **CORE-XI: DYNAMICS**

### **Learning outcomes:**

#### **Students will acquire knowledge of**

- The motion of bodies under the influence of forces.
- Rectilinear motion of particles, Projectiles, Impact and Moment of Inertia of Particles.

## **CORE-XII: DISCRETE MATHEMATICS**

### **Learning outcomes:**

#### **Students will acquire knowledge**

- To apply tools and ideas in Mathematics for solving Applied Problems.
- To Evaluate Boolean functions and to express a logic sentence in terms of predicates, quantifiers, and logical connectives.

### **CORE-XIII: ALGEBRAIC STRUCTURES-II**

**Learning outcomes:**

**Students will acquire knowledge about**

- The Vector Spaces, Dual spaces, Inner product spaces and linear transformations.

### **CORE-XIV: REAL ANALYSIS-II**

**Learning outcomes:**

**Students will acquire knowledge about**

- The Real Numbers and the Analytic Properties of Real-Valued Functions.
- The Analytic concepts of Connectedness, Compactness, Completeness And Calculus.

### **CORE-XV: COMPLEX ANALYSIS**

**Learning outcomes:**

**Students will acquire knowledge about**

- The basic ideas of analysis of Complex Functions in solving Complex Variables.

### **ELECTIVE-I: PROGRAMMINGIN ‘ C ’ WITH PRACTICALS**

**Learning outcomes:**

**Students will acquire knowledge**

- About the basic concepts and structure of ‘C’ program.
- To write simple programs with Mathematical Applications.

### **ELECTIVE-II/III: GRAPH THEORY**

**Learning outcomes:**

**Students will acquire knowledge**

- To describe and apply some basic algorithms for graph.
- To model real world problems using graph theory.

### **ELECTIVE-II/III: OPERATIONS SRESEARCH**

**Learning outcomes:**

**Students will acquire knowledge in**

- Solving Linear Programming Problems.
- Sequencing the jobs to be carried out based on Cost Optimization.
- Solving assignment and transportation problems and Queuing Theory Models.

# **DEPARTMENT OF CHEMISTRY**

## **B.Sc CHEMISTRY**

### **PROGRAMME OUTCOMES**

**PO1: Disciplinary knowledge:** Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate Programme of study

**PO2: Communication Skills:** Ability to express thoughts and ideas effectively in writing and orally; Communicate with others using appropriate media; confidently share one's views and express herself/himself; demonstrate the ability to listen carefully, read and write analytically, and present complex information in a clear and concise manner to different groups.

**PO3: Critical thinking:** Capability to apply analytic thought to a body of knowledge; analyse and evaluate evidence, arguments, claims, beliefs on the basis of empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach to knowledge development.

**PO4: Problem solving:** Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge; and apply one's learning to real life situations.

**PO5: Analytical reasoning:** Ability to evaluate the reliability and relevance of evidence; identify logical flaws and holes in the arguments of others; analyze and synthesize data from a variety of sources; draw valid conclusions and support them with evidence and examples, and addressing opposing viewpoints.

**PO6: Research-related skills:** A sense of inquiry and capability for asking relevant/appropriate questions, problem arising, synthesising and articulating; Ability to recognise cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyse, interpret and draw conclusions from data, establish hypotheses, predict cause and-effect relationships; ability to plan, execute and report the results of an experiment or investigation.

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

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

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

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

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

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

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

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

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

### **PROGRAMME SPECIFIC OUTCOMES**

**PSO1: Placement:** To prepare the students who will demonstrate respectful engagement with others ideas, behaviours, beliefs and apply diverse frames of reference to decisions and action. Further the students are encouraged with add-on value based and job-oriented courses which ensure them to sustain in the organisation level.

**PSO2 – Contribution to Business World:** Apply theoretical concepts to business practices to produce employable, ethical, and innovative professionals to sustain in the dynamic business world.

**PSO3 – Contribution to the Society:** To contribute to the development of the society by collaborating with stakeholders for mutual benefit. Become acquainted with commercial knowledge and soft skill to react in the most appropriate way when faced with challenges in the society.

## COURSE OUTCOMES

Title of the Course	GENERAL CHEMISTRY-I
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**Course Learning Outcomes (for Mapping with POs and PSOs) On completion of the course the students should be able to**

**CO1:** explain the atomic structure, wave particle duality of matter, periodic properties bonding, and properties of compounds.

**CO2:** classify the elements in the periodic table, types of bonds, reaction intermediates electronic effects in organic compounds, types of reagents.

**CO3:** apply the theories of atomic structure, bonding, to calculate energy of a spectral transition,  $\Delta x$ ,  $\Delta p$  electronegativity, percentage ionic character and bond order.

**CO4:** evaluate the relationship existing between electronic configuration, bonding, geometry of molecules and reactions; structure reactivity and electronic effects

**CO5:** construct MO diagrams, predict trends in periodic properties, assess the properties of elements, and explain hybridization in molecules, nature of H – bonding and organic reaction mechanisms.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	S	S	S	S	S	M	S	M
CO2	M	S	S	S	M	S	S	M	M	M
CO3	S	S	S	M	S	S	S	M	S	M
CO4	S	S	S	S	S	S	S	M	M	M
CO5	S	M	S	S	S	S	S	M	M	S

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

**Level of Correlation between PSO's and CO**



Year: I

Semester: I

<b>Title of the Course</b>	<b>MATHEMATICS – I</b> (Common to B.Sc Physics, Physics with CA, Computer Science, ECS, Data Science, Artificial Intelligence, Software Applications & BCA)
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**Course Learning Outcome (for Mapping with POs and PSOs)**

Students will be able to

**CLO 1:** Understand the concepts of Summation of Series.

**CLO 2:** Understand the concepts of Cayley Hamilton Theorem and inverse matrices.

**CLO 3:** Understand the concepts of finite differences.

**CLO 4:** Understand the knowledge about expansions, hyperbolic and inverse hyperbolic functions.

**CLO 5:** Understand the concept of Leibnitz theorem and functions of two variables

	POs						PSOs		
	1	2	3	4	5	6	1	2	3
CLO 1	2	3	1	3	1	1	3	1	1
CLO 2	3	2	1	3	1	1	3	1	1
CLO 3	3	2	1	3	1	1	3	1	1
CLO 4	3	3	1	3	1	1	3	1	1
CLO 5	3	2	1	3	1	1	3	1	1

<b>Title of the Course</b>	<b>GENERAL CHEMISTRY-II</b>
<b>Paper No.</b>	<b>Core III</b>

**Course Learning Outcomes (for Mapping with POs and PSOs) On**

**completion of the course the students should be able to**

**CO1:** explain the concept of acids, bases and ionic equilibria; periodic properties of s and p block elements, preparation and properties of aliphatic and aromatic hydrocarbons

**CO2:** discuss the periodic properties of sand p- block elements, reactions of aliphatic and aromatic hydrocarbons and strength of acids

**CO3:** classify hydrocarbons, types of reactions, acids and bases, examine the properties s and p-block elements, reaction mechanisms of aliphatic and aromatic hydrocarbons

**CO4:** explain theories of acids, bases and indicators, buffer action and important compounds of s-block elements

**CO5:** assess the application of hard and soft acids indicators, buffers, compounds of s and p- block elements and hydrocarbons

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
<b>CO1</b>	S	S	S	S	S	S	S	M	S	M

<b>CO2</b>	M	S	S	S	M	S	S	M	M	M
<b>CO3</b>	S	S	S	M	S	S	S	M	S	M
<b>CO4</b>	S	S	S	S	S	S	S	M	M	M
<b>CO5</b>	S	M	S	S	S	S	S	M	M	S

**CO-PO Mapping (Course Articulation Matrix)**

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
<b>CO1</b>	3	3	3	3	3
<b>CO2</b>	3	3	3	3	3
<b>CO3</b>	3	3	3	3	3
<b>CO4</b>	3	3	3	3	3
<b>CO5</b>	3	3	3	3	3
<b>Weightage</b>	15	15	15	15	15
<b>Weighted percentage of Course Contribution to Pos</b>	3.0	3.0	3.0	3.0	3.0

**Level of Correlation between PSO's and CO's**

<b>Title of the Course</b>	<b>QUALITATIVE ORGANIC ANALYSIS AND PREPARATION OF ORGANIC COMPOUNDS</b>
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**Course Learning Outcomes (for Mapping with POs and PSOs) On completion of the course the students should be able to**

**CO1:** observe the physical state, odour , colour and solubility of the given organic compound.

**CO2:** identify the presence of special elements and functional group in an unknown organic compound performing a systematic analysis.

**CO3:** compare mono and dicarboxylic acids, primary, secondary and tertiary amines, mono and diamides, mono and polyhydric phenols, aldehyde and ketone, reducing and non- reducing sugars and explain the reactions behind it.

**CO4:** exhibit a solid derivative with respect to the identified functional group.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
<b>CO1</b>	S	S	S	S	S	S	S	M	S	M
<b>CO2</b>	M	S	S	S	M	S	S	M	M	M
<b>CO3</b>	S	S	S	M	S	S	S	M	S	M
<b>CO4</b>	S	S	S	S	S	S	S	M	M	M

**CO-PO Mapping (Course Articulation Matrix)**

CO /PO	PSO1	PSO2	PSO3	PSO4	PSO5
<b>CO1</b>	3	3	3	3	3
<b>CO2</b>	3	3	3	3	3
<b>CO3</b>	3	3	3	3	3
<b>CO4</b>	3	3	3	3	3
<b>Weightage</b>	12	12	12	12	12
<b>Weighted percentage of Course Contribution to Pos</b>	3.0	3.0	3.0	3.0	3.0

<b>Title of the Course</b>	<b>MATHEMATICS – II</b> (Common to B.Sc-Physics, Physics with CA, Computer Science, ECS, Data Science, Artificial Intelligence, Software Applications & BCA)
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**Course Learning Outcome (for Mapping with POs and PSOs)**

Students will be able to

**CLO 1:** Understand the various concepts of Bernoulli's and Reduction Formula.

**CLO 2:** Understand the concepts of Fourier Series

**CLO 3:** Understand the concepts of Non-Homogenous and Partial Differential Equations

**CLO 4:** Understand the Laplace Transforms

**CLO 5:** Understand the concepts of Vector Differentiation.

	Pos						PSOs		
	1	2	3	4	5	6	1	2	3
CLO 1	1	3	2	3	1	1	3	1	1
CLO 2	2	3	1	3	1	1	3	1	1
CLO 3	3	2	1	3	1	1	3	1	1
CLO 4	2	3	1	3	1	1	3	1	1
CLO 5	3	3	2	3	1	1	3	1	1

SECOND AND THIRD YEAR:

**CO14: TAMIL-III** – The course mainly focuses on the importance of Religion and religious people. It spreads love, affection and self-confidence to all the people. It also focuses on life and life style of the ancient people like Kannagi, Madhavi and many epic stories.

**CO15: ENGLISH III** - After successful completion of this course the students develop their skills in the areas of academic reading, writing, speaking, and listening. The students can demonstrate and understand which helps an ability to produce the structure, conventions and characteristics of a range of short academic essays. Deliver structured academic oral and written presentations.

**CO16: GENERAL CHEMISTRY-III** - To enable learners to understand the general characteristics of Nitrogen and Oxygen families and to know about the chemistry of Halogens and noble gases. To learn the mechanism of Nucleophilic substitution and Elimination reactions. Students can gain knowledge about the reaction mechanisms of aromatic and heterocyclic compounds and understand the basic concepts of Thermodynamics and Thermochemistry.

**CO17: ALLIED PHYSICS-I** - To enable learners to understand the waves and oscillations, to provide them with a better understanding of properties of matter, to understand the concept of thermal physics, to provide them with a better understanding of Electricity and Magnetism, to know

about the geometrical optics.

**CO18: PERSONALITY ENRICHMENT LEVEL -I - Students will apply ethical theories**

to leadership situations, To Identify, understand and apply contemporary theories of leadership to a wide range of situation and interaction, to learn about the relationship between curricular and co- curricular experiences as a determinant of student success. To know about self- awareness and life skills, leadership and communication skills, Team work learning to connect and work with others to achieve goals, Social justice and responsibility. They learn to balance confidence with humility.

**CO19: TAMIL –IV:** Ancient literature folks of inner and outer activities of the country are focused in this course. It also focuses on noble culture, tradition and discipline spread among the students through the historical plays. Students are also learning climate, seasons, atmosphere, agriculture and generosity. It also focuses on ancient moral and mythical values.

**CO20: ENGLISH IV** – This course develops English language skills in listening, speaking, reading and writing by having learners engage in a range of communicative tasks and activities. Further the course expands the learner’s use of grammatically correct and appropriate language in speaking and writing for effective communication in a variety of interpersonal and academic situations.

**CO21: GENERAL CHEMISTRY-IV-** To enable learners to understand the chemistry of Redox reactions. To understand the General characteristics of d-Block elements. To learn about the preparation and properties of Heterocyclic compounds and dyes. To know about the nomenclature, preparation and properties of alcohols, thiols, ethers and thioethers. To understand the limitation of I law of thermodynamics and the need of II law of thermodynamics.

**CO22: ALLIED PHYSICS-II** - To know the basic principles of physical optics, to enable learners to understand the atomic physics, nuclear physics, elements of Relativity and quantum mechanics and electronics.

**CO23: ENVIRONMENTAL STUDIES:** To enable the learners to learn about the ecosystem, natural resources, biodiversity and conservation, various environmental pollution and how to control it, environmental policies and practices, human communities and the environment.

**CO24: PERSONALITY ENRICHMENT LEVEL -II-** To enable learners to understand the importance of stress management, maintaining trust, Resolving interpersonal Conflicts, Applying Emotional Intelligence, and Enhancing Self Esteem.

**CO25: CORE PRACTICALS-II** - Students will gain an understanding of methods of analysis related to chemical analysis goals such as detection of elements.

**CO26: ALLIED PHYSICS PRACTICALS** - Students will gain an understanding of Young's modulus, Rigidity modulus, Surface and Interfacial tension, Comparison of viscosity of two liquids, specific heat capacity of a liquid, spectrometer, potentiometer, construction of AND, OR, NOT and NAND gates.

**CO27: INORGANIC CHEMISTRY – I** - Learning the unique characteristics of lanthanide and actinide series. To learn the fundamentals of coordination chemistry and its applications in analytical chemistry; to understand the biological importance of complexes. To gain knowledge about the theories of acids and bases.

**CO28: ORGANIC CHEMISTRY- I-** To enable learners to understand the acidic nature of phenol and its properties, the reactions of aldehydes and ketones, the chemistry of carboxylic acids and their derivatives, the chemistry of nitro compounds and amines, aromatic halides and sulphonic acids.

**CO29: PHYSICAL CHEMISTRY – I** – To enable the learners to understand the concepts of thermodynamics such as equilibrium constant and entropy. Learning fundamental concepts about solutions and the basis of separation techniques such as steam distillation and solvent extraction. To know the concepts of phase rule and its application to one component and two component systems. To understand the colligative properties and methods of their determination and the concept of conductance in electrochemistry.

**CO30: ELECTIVE I-INDUSTRIAL CHEMISTRY** -Know the importance of chemical industry, classify various insecticides, Study the nutritive aspects of food constituents, Understand the characteristics of some food starches, Study the manufacture of cement, dyes, Glass, Soap and Detergents by modern methods.

**CO31: ELECTIVE II-POLYMER CHEMISTRY-** To enable the students to learn about the Classification of polymers, Methods of preparation of polymers, Different types of polymerization and techniques of polymerization, Processing of polymers, Chemistry of industrially important polymers.

**CO32: VALUE EDUCATION-** To understand the relationship between education and values. To understand the duties and responsibilities of a good citizen. To develop moral, cultural and spiritual values. To develop the habits of truthfulness, punctuality and honesty. To understand the social evils, corruption, cybercrime and terrorism and its effects. To develop the team work, positive and creative thinking among themselves.

**CO33: INORGANIC CHEMISTRY – II -** To understand the theories of metallic bonding, organometallic compounds. To provide learners with knowledge of fundamental concepts of nuclear chemistry and radioactivity. to learn the chemistry of clathrates, phosphazenes, and silicates.

**CO34: ORGANIC CHEMISTRY- II-** To provide learners with knowledge of the chemistry of biopolymers – carbohydrates and proteins, vitamins. To make the students understand the mechanisms of rearrangement reactions, the chemistry of natural products – alkaloids and terpenoids. To familiarize them with the concepts of stereochemistry.

**CO35: PHYSICAL CHEMISTRY – II-** To understand the basics of chemical kinetics, catalysis and adsorption. To make the students understand the fundamentals of photochemistry, to understand the symmetry aspects in chemical systems and group theory. To understand the fundamentals of electrochemical cells.

**CO36: ELECTIVE III -ANALYTICAL CHEMISTRY-** To know the analytical techniques like Chromatography, AAS, MS, TGA, DTA, Polarimetry and polarography.

**CO37: PHYSICAL CHEMISTRY PRACTICALS-** Students will gain an understanding about the Conductometric, Potentiometric titrations, and learn about the first, second order chemical kinetics, transition temperature, determination of molecular weights of solutes, distribution coefficients.

**CO38: ORGANIC CHEMISTRY PRACTICALS -** To analyze the given organic compounds and also learn the preparation of organic compounds.

**CO39: GRAVIMETRIC ANALYSIS** - To estimate the amount of metal through analytical techniques.