



## Dr. N.G.P. ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

Approved by Government of Tamil Nadu & Accredited by NAAC with A++ Grade (3<sup>rd</sup> Cycle - 3.64 CGPA)

Dr. N.G.P. - Kalapatti Road, Coimbatore – 641 048, Tamil Nadu, India

Web: [www.drngpasc.ac.in](http://www.drngpasc.ac.in) | Email: [info@drngpasc.ac.in](mailto:info@drngpasc.ac.in) | Phone: +91-422-2369100

### REGULATIONS 2024-25 for Under Graduate Programme (Outcome Based Education model with Choice Based Credit system)

#### B.Com (CA) Degree

(For the students admitted during the academic year 2024-25 and onwards)

#### PROGRAMME: B.Com (CA)

Eligibility: A pass in Higher Secondary Examination with any academic stream or vocational stream as one of the subjects and as per the norms set by the Government of Tamil Nadu or an examination accepted as equivalent thereto by the Academic Council, subject to such conditions as may be prescribed thereto are permitted to appear and qualify for the Bachelor of Commerce in Computer Applications degree examinations of this college after a course of study of three academic years.

#### PROGRAMME EDUCATIONAL OBJECTIVES

The Curriculum is designed with the following objectives:

- To provide conceptual knowledge and application skills in the domain of Commerce along with Computer Applications.
- To equip the students with problem solving skills in the real business environment through Industrial training, case studies and projects.
- To enable students to apply computer skills in a globalized environment through effective training with IT tools.
- To empower students to develop the skills and knowledge necessary to thrive in competitive job markets and secure fulfilling careers.
- To cultivate highly skilled manpower for diverse business fields including Banking, Accounting, Marketing, Taxation, and more.



## PROGRAMME OUTCOMES

On the successful completion of the program, students will/will be:

PO Number	PO Statement
PO1	Possess a strong foundational knowledge in commerce-oriented disciplines and enhanced designing, development and application skills on various business operations.
PO2	Develop intellectual, personal and societal skills that are highly esteemed in present day business organizations along with ethical values and environmental concern.
PO3	Emerge as proficient individuals capable of perceiving higher studies and other professional programmes.
PO4	Empowered with essential competencies, an innovative mind and effective decision-making skills.
PO5	Demonstrate analytical and creative approach to business issues and exhibit independent judgment and critical thinking.



**Credit distribution for Part I to Part V for Two Semesters Language:**

Part	Subjects	No. of Papers	Credit	Semester No.
I (12 Credits)	Tamil / Hindi / French/Malayalam	4	4 x 3 = 12	I, II, III & IV
II (12 Credits)	English	4	4 x 3 = 12	I, II, III & IV
III (108 Credits)	Core (Credits 3)	2	2 x 3 = 6	I to VI
	Core (Credits 4)	15	15 x 4 = 60	I to VI
	Core Practical (Credits 2)	2	2 x 2 = 4	I & II
	Inter Departmental Course (IDC)	4	4 x 4 = 16	I to IV
	Discipline Specific Elective (DSE)	3	3 x 4 = 12	V & VI
	Skill Enhancement Course (SEC)	4	4 x 2 = 8	III to VI
	Internship	1	1 x 2 = 2	V
IV (8 Credits)	Environmental Studies (AECC)	1	1 x 2 = 2	I
	Basic Tamil/ Advance Tamil /Human Rights and Women's Rights (AECC)	1	1 x 2 = 2	II
	Generic Elective (GE)	1	1 x 2 = 2	V
	Innovation and IPR/ Innovation, IPR and Entrepreneurship (AECC)	1	1 x 2 = 2	VI
V (2 Credits)	NSS/NCC/YRC/RRC/Yoga/ Sports/Clubs	-	1 x 2 = 2	I to II
<b>Total Credits</b>			<b>142</b>	



Dr. NGPASC

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B.Com. CA (Students admitted during the AY 2024-25)

## CURRICULUM

### B.Com CA

Course Code	Course Category	Course Name	L	T	P	Instruction Hours		Exam (hours)	Max Marks			Credits
						Week	Total		CIA	ESE	Total	
<b>First Semester</b>												
<b>Part-I</b>												
24TLU1TA	Language- I	Tamil-I	4	1	-	5	60	3	25	75	100	3
24TLU1HA		Hindi-I							25	75	100	
24TLU1MA		Malayalam-I							25	75	100	
24TLU1FA		French-I							25	75	100	
<b>Part-II</b>												
24ELU1EA	Language-II	English - I	4	-	1	5	60	3	25	75	100	3
<b>Part-III</b>												
24PAU1CA	Core-I	Financial Accounting	5	1	-	6	72	3	25	75	100	4
24CIU1CA	Core-II	Principles of Management	4	-	-	4	48	3	25	75	100	4
24CMU1CP	Core-III Practical	Business Analytics with Spreadsheets	-	-	4	4	48	3	40	60	100	2
24MTU1IA	IDC-I	Business Mathematics	4	-	-	4	48	3	25	75	100	4
<b>Part-IV</b>												
24MBU1AA	AECC-I	Environmental Studies	2	-	-	2	24	3	50	-	50	2
<b>Part-V</b>												
24CMU1XA	Extension Activity	NSS/NCC/YRC/RRC/ Yoga/Sports/Clubs	-	-	-	-	-	-	50	-	50	1
<b>Total</b>			<b>23</b>	<b>2</b>	<b>5</b>	<b>30</b>	<b>360</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>700</b>	<b>23</b>

  
 BoS Chairman/HoD  
 Department of Commerce (CA)  
 Dr. N. G. P. Arts and Science College  
 Coimbatore - 641 048

			Dr.N.G.P. Arts and Science College		
<b>APPROVED</b>					
BoS- 1777		AC - 1777		GB -	
06.04.24		17-04-24			



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B.Com. CA (Students admitted during the AY 2024-25)

Course Code	Course Category	Course Name	L	T	P	Instruction Hours		Exam (hours)	Max Marks			Credits
						Week	Total		CIA	ESE	Total	
<b>Second Semester</b>												
<b>Part-I</b>												
24TLU2TA	Language- I	Tamil-II	4	1	-	5	60	3	25	75	100	3
24TLU2HA		Hindi-II							25	75	100	
24TLU2MA		Malayalam-II							25	75	100	
24TLU2FA		French-II							25	75	100	
<b>Part-II</b>												
24ELU2EA	Language-II	English - II	4	-	1	5	60	3	25	75	100	3
<b>Part-III</b>												
24CRU2CA	Core-IV	Business Law	4	-	-	4	48	3	25	75	100	4
24BPU2CA	Core-V	Advanced Financial Accounting	5	1	-	6	72	3	25	75	100	4
24CMU2CP	Core-VI Practical	Research Analytics with Spreadsheets	-	-	4	4	48	3	40	60	100	2
24MTU2IA	IDC-II	Business Statistics	4	-	-	4	48	3	25	75	100	4
<b>Part-IV</b>												
24TLU2AA/ 24TLU2AB/ 24CRU2AA	AECC-II	Basic Tamil / Advanced Tamil / Human Rights and Women's Rights	2	-	-	2	24	3	50	-	50	2
<b>Part-V</b>												
24CMU2XA	Extension Activity	NSS/NCC/YRC/RRC/ Yoga/Sports/Clubs	-	-	-	-	-	-	50	-	50	1
<b>Total</b>			<b>23</b>	<b>2</b>	<b>5</b>	<b>30</b>	<b>360</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>700</b>	<b>23</b>



Course Code	Course Category	Course Name	L	T	P	Instruction Hours		Exam (hours)	Max Marks			Credits
						Week	Total		CIA	ESE	Total	
<b>Third Semester</b>												
<b>Part-I</b>												
24TLU3TA	Language-I	Tamil-III	3	1	-	4	48	3	25	75	100	3
24TLU3HA		Hindi-III							25	75	100	
24TLU3MA		Malayalam-III							25	75	100	
24TLU3FA		French-III							25	75	100	
<b>Part-II</b>												
24ELU3EA	Language-II	English - III	4	-	-	4	48	3	25	75	100	3
<b>Part-III</b>												
24CMU3CA	Core-VII	Cost Accounting	5	-	-	5	60	3	25	75	100	4
24CMU3CB	Core-VIII	Problem Solving and Programming with C++	5	-	-	5	60	3	25	75	100	4
24BIU3CB	Core-IX	Company Law	4	-	-	4	48	3	25	75	100	4
24COU3IA	IDC-III	Business Economics	4	-	-	4	48	3	25	75	100	4
24CMU3SP	SEC Practical-I	Programming in C++	-	-	4	4	48	3	40	60	100	2
<b>Total</b>			<b>25</b>	<b>1</b>	<b>4</b>	<b>30</b>	<b>360</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>700</b>	<b>24</b>



Course Code	Course Category	Course Name	L	T	P	Instruction Hours		Exam (hours)	Max Marks			Credits
						Week	Total		CIA	ESE	Total	
<b>Fourth Semester</b>												
<b>Part-I</b>												
24TLU4TA	Language- I	Tamil-IV	3	1	-	4	48	3	25	75	100	3
24TLU4HA		Hindi-IV							25	75	100	
24TLU4MA		Malayalam-IV							25	75	100	
24TLU4FA		French-IV							25	75	100	
<b>Part-II</b>												
24ELU4EA	Language-II	English - IV	4	-	-	4	48	3	25	75	100	3
<b>Part-III</b>												
24PAU4CA	Core-X	Corporate Accounting	5	1	-	6	72	3	25	75	100	4
24CMU4CA	Core-XI	Database Management System	5	-	-	5	60	3	25	75	100	4
24COU4CB	Core-XII	Entrepreneurial Development	3	-	-	3	36	3	25	75	100	3
24CSU4IC	IDC-IV	Smart Banking Technologies	4	-	-	4	48	3	25	75	100	4
24CMU4SP	SEC Practical-II	Database Management System	-	-	4	4	48	3	40	60	100	2
<b>Total</b>			<b>24</b>	<b>2</b>	<b>4</b>	<b>30</b>	<b>360</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>700</b>	<b>23</b>



Course Code	Course Category	Course Name	L	T	P	Instruction Hours		Exam (hours)	Max Marks			Credits
						Week	Total		CIA	ESE	Total	
<b>Fifth Semester</b>												
<b>Part-III</b>												
24CMU5CA	Core-XIII	Auditing and Corporate Governance	5	1	-	6	72	3	25	75	100	4
24ATU5CA	Core-XIV	Income Tax Law and Practice	5	1	-	6	72	3	25	75	100	4
24COU4CB	Core-XV	Research Methodology	4	-	-	4	48	3	25	75	100	4
24CMU5CB	Core-XVI	Programming with Visual Basic.NET	4	-	-	4	48	3	25	75	100	4
24CMU5DA	DSE-I	Financial Management	4	-	-	4	48	3	25	75	100	4
24CIU5DA		E-Business Technology										
24BAU5DA		Service Marketing										
24COU5DA		Human Resource Management										
24CMU5TA	IT	Industrial Training	-	-	-	-	-	3	25	75	100	2
24CMU5SP	SEC Practical-III	Programming in Visual Basic.NET	-	-	4	4	48	3	40	60	100	2
	GE		2	-	-	2	24	-	-	50	50	2
<b>Total</b>			<b>24</b>	<b>2</b>	<b>4</b>	<b>30</b>	<b>360</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>750</b>	<b>26</b>





Course Code	Course Category	Course Name	L	T	P	Instruction Hours		Exam (hours)	Max Marks			Credits
						Week	Total		CIA	ESE	Total	
<b>Sixth Semester</b>												
<b>Part-III</b>												
24BAU6CA	Core-XVII	Management Accounting	5	-	-	5	60	3	25	75	100	4
24CMU6CA	Core-XVIII	PHP and MySQL	3	-	-	3	36	3	25	75	100	3
24CMU6CV	Core-XIX	Project Viva Voce	-	-	8	8	96	3	40	60	100	4
24CMU6DA	DSE-II	Financial Markets and Services	4	-	-	4	48	3	25	75	100	4
24CIU6DA		Enterprise Resource Planning										
24BAU6DA		Retail Marketing										
24COU6DA		Organizational Behaviour										
24FIU5DA	DSE-III	Security Analysis and Portfolio Management	4	-	-	4	48	3	25	75	100	4
24CIU6DB		Information Security										
24BAU6DB		Digital Marketing										
24COU6DB		Industrial Relation and Labour Law										
24CMU6SP	SEC Practical-IV	Programming in PHP and MySQL	-	-	4	4	48	3	40	60	100	2
<b>Part-IV</b>												
24BIU6AA	AECC-III	Innovation and IPR	2	-	-	2	24	3	50	-	50	2
<b>Total</b>			<b>18</b>	<b>12</b>	<b>30</b>	<b>360</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>650</b>	<b>23</b>	
<b>Grand Total</b>											<b>4200</b>	<b>142</b>



### DISCIPLINE SPECIFIC ELECTIVE

Students shall select the desired course of their choice in the listed elective course during Semesters V & VI

#### Semester V (Elective I)

##### List of Elective Courses

S. No.	Course Code	Name of the Course
1	24CMU5DA	Financial Management
2	24CIU5DA	E-Business Technology
3	24BAU5DA	Service Marketing
4	24COU5DA	Human Resource Management

#### Semester VI (Elective II)

##### List of Elective Courses

S. No.	Course Code	Name of the Course
1	24CMU6DA	Financial Markets and Services
2	24CIU6DA	Enterprise Resource Planning
3	24BAU6DA	Retail Marketing
4	24COU6DA	Organizational Behaviour

#### Semester VI (Elective III)

##### List of Elective Courses

S. No.	Course Code	Name of the Course
1	24FIU5DA	Security Analysis and Portfolio Management
2	24CIU6DB	Information Security
3	24BAU6DB	Digital Marketing
4	24COU6DB	Industrial Relation and Labour Law



### GENERIC ELECTIVE COURSES(GE)

The following are the courses offered under Generic Elective Course  
Semester V (GE-I)

S. No.	Course Code	Course Name
1	24CMU5GP	E-Commerce

### EXTRA CREDITCOURSES

The following are the courses offered under self-study to earn extra credits:  
Semester III

S. No.	Course Code	Course Name
1	24CMUSSA	Business Ethics
2	24CMUSSB	Cyber Security and Cyber Law

### CERTIFICATE PROGRAMMES

The following are the programme offered to earn extra credits:

S. No.	Course Code	Course Name
1	24CMSO1A	MS OFFICE
2	24CMSO1P	MS OFFICE - LAB

### MOOC (NPTEL /SWAYAM/SPOKEN TUTORIAL)

The following are the online courses offered: Please refer the following link to select the courses

- [www.swayam.org](http://www.swayam.org)
- [www.nptel.org](http://www.nptel.org)
- [www.spoken-tutorial.org](http://www.spoken-tutorial.org)



Semester – I							
TAMIL - I							
Semester	Course Code	Course Name	Category	L	T	P	Credits
I	24TLU1TA	TAMIL - I	LANGUAGE- I	48	12	-	3

Preamble	மொழிப்பாடங்களின் வாயிலாக தமிழரின் பண்பாடுநாகரீகம், பகுத்தறிவு ஆகியவற்றை அறியச் செய்தல்
	கலை மற்றும் மரபுகளை அறியச் செய்தல்
	மாணவர்களின் படைப்பாக்கத்திறன்களை ஊக்குவித்தல்
Prerequisite	தமிழ் மொழி எழுதி படிக்கும் திறன்

Course Outcomes (Cos)		
CO.No.	Course Outcomes (COs) Statement	Bloom's Tax anomy Knowledge Level
CO1	வாழ்க்கைத்திறன்கள் (Life Skills)-மாணவர்களின் செயலாக்கத்திறனை ஊக்குவித்தல்	K2
CO2	மதிப்புக்கல்வி (Attitude and Value education)	K3
CO3	பாட இணைச்செயல்பாடுகள் (Co-curricular activities)	K3
CO4	சூழலியல் ஆக்கம் (Ecology)	K4
CO5	மொழி அறிவு (Tamil knowledge)	K4

Mapping with Program Outcomes:					
Cos / POs	PO1	PO2	PO3	PO4	PO5
CO1			✓		
CO2			✓		
CO3			✓		
CO4			✓		
CO5			✓		



## Syllabus:

Unit	Content	Hrs	Resources
1	<p><b>மறுமலர்ச்சிக் கவிதைகள்</b></p> <ol style="list-style-type: none"> <li>இலக்கிய வரலாறு -மறுமலர்ச்சிக் கவிஞர்களின்தமிழ்ப்பணிகள்</li> <li>பாரததேசம்- பாரதியார்</li> <li>படி - பாரதிதாசன்</li> <li>தமிழரின் பெருமை- நாமக்கல்கவிஞர்</li> <li>தமிழ்க் கொலை புரியாதீர்- புலவர் குழந்தை</li> <li><b>திரைத்தமிழ்</b></li> </ol> <p>அ) 'விஞ்ஞானத்த வளர்க்கப் போறண்டி' எனத்தொடங்கும் பாடல் - உடுமலை நாராயண கவி</p> <p>ஆ) 'சும்மா கிடந்த நிலத்தை' எனத்தொடங்கும் பாடல் - பட்டுக்கோட்டை கல்யாண சுந்தரனார்</p> <p>இ) 'சமரசம் உலாவும் இடமே' எனத்தொடங்கும் பாடல் -மருதகாசி</p> <p>ஈ) 'உன்னை அறிந்தால்' எனத்தொடங்கும் பாடல்- கண்ணதாசன்</p>	13	<p>தமிழ்மொழிப்பாடல் முதற்பருவம் 2024-2025 <a href="https://www.youtube.com/watch?v=Up55uhkk9zl">https://www.youtube.com/watch?v=Up55uhkk9zl</a></p>
2	<p><b>புதுக்கவிதைகள்</b></p> <ol style="list-style-type: none"> <li>இலக்கிய வரலாறு- புதுக்கவிதையின் தோற்றமும் வளர்ச்சியும்</li> <li>கடமையைச் செய்- மீரா</li> <li>ஓடு ஓடு சங்கிலி - சிற்பி பாலசுப்பிரமணியம்</li> <li>ஓப்பிலாத சமுதாயம் - அப்துல் ரகுமான்</li> <li>மரங்கள் - மு.மேத்தா</li> <li>கரிக்கிறது தாய்ப்பால்- ஆரூர் தமிழ்நாடன்</li> <li>ஐந்தாம் வகுப்பு 'அ' பிரிவு - நா. முத்துக்குமார்</li> <li>ஹைகூ கவிதைகள் - 10 கவிதைகள்</li> </ol>	13	<p>தமிழ்மொழிப்பாடல் முதற்பருவம் 2024-2025 <a href="https://www.youtube.com/watch?v=dX9ZaNJMac0">https://www.youtube.com/watch?v=dX9ZaNJMac0</a></p>
3	<p><b>பெண்ணியம்</b></p> <ol style="list-style-type: none"> <li>தொலைந்து போனேன் - தாமரை</li> <li>நீரில் அலையும் முகம்- அ. வெண்ணிலா</li> <li>தற்காத்தல் - பொன்மணி வைரமுத்து</li> <li>ஏனிந்த வித்தியாசங்கள்? - மல்லிகா</li> <li>புதையுண்ட வாழ்க்கை - சுகந்தி சுப்ரமணியன்</li> </ol>	10	<p>தமிழ்மொழிப்பாடல் முதற்பருவம் 2024-2025 <a href="https://www.youtube.com/watch?v=DLabokqWEdg">https://www.youtube.com/watch?v=DLabokqWEdg</a></p>
4	<ol style="list-style-type: none"> <li>இலக்கிய வரலாறு-சிறுகதையின் தோற்றமும் வளர்ச்சியும்</li> <li>கனகாம்பரம்- கு.ப.ராஜகோபாலன்</li> <li>கடிதம்- புதுமைப்பித்தன்</li> <li>பொம்மை - ஜெயகாந்தன்</li> <li>காய்ச்சமரம் - கி. ராஜநாராயணன்</li> </ol>	14	<p>தமிழ்மொழிப்பாடல் முதற்பருவம் 2024-2025 <a href="https://www.youtube.com/watch?v=DLabokqWEdg">https://www.youtube.com/watch?v=DLabokqWEdg</a></p>



	6. காட்டில் ஒருமான்- அம்பை 7.வேட்கை - சூர்யகாந்தன்		<a href="https://www.youtube.com/watch?v=78u7iTN3OU8">be.com/watch?v=78u7iTN3OU8</a>
5	<b>பயிற்சிப் பகுதி</b> <b>அ. இலக்கணம்</b> 1. வல்லின ஒற்று மிகும், மிகா இடங்கள் - ஒற்றுப்பிழை நீக்கிஎழுதுதல் 2. ர,ற-ல,ழ,ள - ண,ந,னவேறுபாடு - ஒலிப்பு நெறி, சொற்பொருள் வேறுபாடு அறிதல் <b>ஆ. படைப்பாக்கம்</b> 1. கவிதை- எழுதுதல் (15 வரிகள் முதல் 30 வரிகள் வரை) 2. சிறுகதை - எழுதுதல் (குறைந்தது 3 பக்கங்கள்)	10	<b>தமிழ்மொழிப்பாடம்</b> <b>முதற்பருவம்</b> <b>2024-2025</b> <a href="https://www.youtube.com/watch?v=B3wfM0QL6N8">https://www.youtube.com/watch?v=B3wfM0QL6N8</a> <a href="https://www.youtube.com/watch?v=FchTlqAtwBU">https://www.youtube.com/watch?v=FchTlqAtwBU</a> <a href="https://www.youtube.com/watch?v=gCP3gC-JQU4">https://www.youtube.com/watch?v=gCP3gC-JQU4</a> <a href="https://www.youtube.com/watch?v=p9QOHD12Yeo">https://www.youtube.com/watch?v=p9QOHD12Yeo</a>
	Total	60	

<b>Text book</b>	1.	தமிழ் மொழிப்பாடம் - 2024-2025 தொகுப்பு: தமிழ்த்துறை, டாக்டர்என்.ஜி.பி. கலை அறிவியல்கல்லூரி, கோயம்புத்தூர் - 641048.
<b>Reference Books</b>	1.	பேராசிரியர் புலவர் சோம. இளவரசு, தமிழ் இலக்கிய வரலாறு, எட்டாம் பதிப்பு - 2024, மணிவாசகர் பதிப்பகம், சென்னை - 600 108.
	2.	பேராசிரியர் முனைவர் பாக்கியமேரி, முதற் பதிப்பு - 2023, இலக்கணம், இலக்கியவரலாறு, மொழித்திறன் - பூவேந்தன் பதிப்பகம், சென்னை - 600 004.

<b>Journal and Magazines</b>	இலக்கிய இதழ்கள்
<b>E-Resources and Website</b>	<a href="https://www.tamilvu.org">https://www.tamilvu.org</a>

<b>Learning Method</b>	Lecture/ Tutorial / Student Seminar/GD/Assignment
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<b>Focus of the Course</b>	Skill Development / Employability
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Semester – I							
HINDI – I							
Semester	Course Code	Course Name	Category	L	T	P	Credits
I	24TLU1HA	HINDI – I	LANGUAGE-I	48	12	-	3

<b>Preamble</b>	The writing ability and develop reading skill	
	The various concepts and techniques for criticizing literature	
	The techniques for expansion of ideas and translation process	
<b>Prerequisite</b>	To understand the language Hindi for communication	
<b>Course Outcomes (Cos)</b>		
CO. No.	Course Outcomes (COs) Statement	Bloom's Taxonomy Knowledge Level
CO1	Learn the fundamentals of novels and stories	K2
CO2	Understand the principles of translation work	K3
CO3	Expose the knowledge writing critical views on fiction	K3
CO4	Build creative ability	K3
CO5	Apply the power of creative reading	K4

Mapping with Program Outcomes:					
Cos / POs	PO1	PO2	PO3	PO4	PO5
CO1			✓		
CO2			✓		
CO3			✓		
CO4			✓		
CO5			✓		



## Syllabus:

Unit	Content	Hrs	Resources
1	गद्य – नूतनगद्यसंग्रह (जयप्रकाश)पाठ1- रजियापाठ2- मक्रीलपाठ3- बहतापानीनिर्मला पाठ4- राष्ट्रपितामहात्मागाँधी	13	Text Book
2	कहानीकुंज- डॉ.वी.पी. 'अमिताभ'(पाठ 1-4)	13	Text Book
3	व्याकरण : शब्दविचार ( संज्ञा, सर्वनाम,विशेषण)	12	Text Book
4	अनुच्छेदलेखन	12	Text Book
5	अनुवादअभ्यास-III (केवलअंग्रेजीसेहिन्दीमें) (पाठ1 to 10)	10	Text Book
	Total	60	

Text books	1.	प्रकाशक: सुमित्रप्रकाशन 204 लीलाअपार्टमेंट्स, 15 हेस्टिंग्सरोड' अशोकनगरइलाहाबाद-211001
	2.	प्रकाशक: गोविन्दप्रकाशनसदरबाजार, मथुराउत्तरप्रदेश-281001
	3.	पुस्तक: व्याकरण प्रदिप - रामदेवप्रकाशक: हिन्दी भवन 36 टेगोर नगर इलाहाबाद-211024
	4.	पुस्तक: व्याकरण प्रदिप - रामदेवप्रकाशक: हिन्दी भवन 36 इलाहाबाद-211024
	5.	प्रकाशक: दक्षिण भारत प्रचार सभा चेन्नई -17
Reference Books		-

Journal and Magazines	-
E-Resources and Website	-

Learning Method	Lecture/ Tutorial / Student Seminar/GD/Assignment
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Focus of the Course	Skill Development / Employability
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Semester – I							
MALAYALAM- I							
Semester	Course Code	Course Name	Category	L	T	P	Credits
I	24TLU1MA	MALAYALAM- I	LANGUAGE- I	48	12	-	3
<b>Preamble</b>	The writing ability and develop reading skill						
	The various concepts and techniques for criticizing literature, to learn the techniques for expansion of ideas and translation process						
	The competency in translating simple Malayalam sentences into English and vice versa						
<b>Prerequisite</b>	To understand the language Malayalam for communication						

Course Outcomes (Cos)		
CO. No.	Course Outcomes (COs) Statement	Bloom's Tax anomy Knowledge Level
CO1	Learn the fundamentals of novels and stories	K2
CO2	Understand the principles of translation work	K3
CO3	Expose the knowledge writing critical views on fiction	K3
CO4	Apply creative ability	K3
CO5	Build the power of creative reading	K4

Mapping with Program Outcomes:					
Cos / POs	PO1	PO2	PO3	PO4	PO5
CO1			✓		
CO2			✓		
CO3			✓		
CO4			✓		
CO5			✓		



**Syllabus:**

Unit	Content	Hrs	Resources
1	<b>Novel</b> PathummayudeAdu	14	Text book
2	<b>Novel</b> PathummayudeAdu	10	Text book
3	<b>Short Story</b> Nalinakanthi	14	Text book
4	<b>Short Story</b> Nalinakanthi	10	Text book
5	<b>Practical Application</b> Expansion of ideas, General Essay and Translation	12	Text book
<b>Total</b>		<b>60</b>	

<b>Text books</b>	1.	Vaikkam Muhammed Basheer, "PathummayudeAdu" (NOVEL), DC Books & Kottayam
	2.	T.Padmanabhan, "Nalinakanthi" (Short Story), DC Books & Kottayam.
<b>Reference Books</b>	1.	MalayalaNovel Sahithyam.
	2.	MalayalaCherukathaInnale Innu.

<b>Journal and Magazines</b>	-
<b>E-Resources and Website</b>	-

<b>Learning Method</b>	Lecture/ Tutorial / Student Seminar/GD/Assignment
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<b>Focus of the Course</b>	Skill Development / Employability
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Semester – I							
FRENCH - I							
Semester	Course Code	Course Name	Category	L	T	P	Credits
I	24TLU1FA	FRENCH - I	LANGUAGE-I	48	12	-	3
<b>Preamble</b>	The competence in general communication skills with oral, written and comprehension & expression						
	The culture, life style and the civilization aspects of the French people as well as of France						
	The students to acquire competency in translating simple French sentences into English and vice versa						
<b>Prerequisite</b>	To understand the language French for communication						

Course Outcomes (Cos)		
CO. No.	Course Outcomes (COs) Statement	Bloom's Taxonomy Knowledge Level
CO1	Learn the Basic verbs, numbers and accents	K2
CO2	Apply the adjectives and the classroom environment in France	K3
CO3	Select the Plural, Articles and the Hobbies	K3
CO4	Measure the Cultural Activity in France	K3
CO5	Evaluate the sentiments, life style of the French people and the usage of the conditional tense	K4

Mapping with Program Outcomes:					
Cos / POs	PO1	PO2	PO3	PO4	PO5
CO1			✓		
CO2			✓		
CO3			✓		
CO4			✓		
CO5			✓		



## Syllabus:

Unit	Content			Hrs	Resources
1	<b>Objectifs de Communication</b> <ul style="list-style-type: none"> <li>• Saluer</li> <li>• Enter en contact</li> <li>• avec quelqu'un.</li> <li>• Se presenter.</li> <li>• S'excuser</li> </ul>	<b>Tâche</b> En cours de cuisine, premiers contacts avec les membres d'un groupe	<b>Activités de réception et de production orale</b> <ul style="list-style-type: none"> <li>• Comprendre des personnes qui se saluent.</li> <li>• Échanger pour entrer en contact, se présenter, saluer, s'excuser.</li> <li>• Communiquer avec <i>tu</i> ou <i>vous</i>.</li> <li>• Comprendre les consignes de classe</li> <li>• Épeler son nom et son prénom.</li> </ul> Computer jusqu'à 10	14	Text book Salut I Page 10
2	<ul style="list-style-type: none"> <li>• Demander de se presenter.</li> <li>• Présenter quelqu'un</li> </ul>	Dans la classe de français, se presenter et remplir une fiche pour le professeur.	<ul style="list-style-type: none"> <li>• Comprendre les informations essentielles dans un échange en milieu professionnel.</li> </ul> Échanger pour se presenter et présenter quelqu'un	12	Text book Enchanté I Page 20
3	<ul style="list-style-type: none"> <li>• Exprimer ses goûts.</li> </ul>	Dans un café, participer à une soirée de rencontres rapides et remplir de taches d'appréciation	<ul style="list-style-type: none"> <li>• Dans une soirée de rencontres rapides comprendre des personnes qui échangent sur elles et sur leurs goûts</li> <li>• Comprendre une personne qui parler des goûts de quelqu'un d'autre</li> </ul>	14	Text book J'adore I Page 30
4	Demander à quelqu'un de faire quelque chose. Demander poliment. Parler d'actions passes. Tu veux bien?	Organiser un programme d'activités pour accueillir une personne importante	Comprendre une personne demande un service à quelqu'un. Demander à quelqu'un de faire quelque chose. <ul style="list-style-type: none"> <li>• Imaginer et raconter au passé à partir de situations dessinées.</li> </ul>	10	Text book Autoévaluation du module I Page 40 – Préparation au DELF A1 page 42 Tu veux bien page 46
5	<b>Practical Application</b> Make in Own Sentences			10	-
Total				60	



<b>Text book</b>	1.	Regine Merieux, Yves Loiseau. 2012. LATITUDES – 1: Méthode de français (Page No: 9-55) Les Editions Dider, Paris, Imprimee en Roumanie par Canale en Janvier
<b>Reference Book</b>	1.	-

<b>Journal and Magazines</b>	-
<b>E-Resources and Website</b>	-

<b>Learning Method</b>	Lecture/ Tutorial / Student Seminar/GD/Assignment
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<b>Focus of the Course</b>	Skill Development / Employability
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**Semester – I****ENGLISH – I**

Semester	Course Code	Course Name	Category	L	T	P	Credits
I	24ELU1EA	ENGLISH - I	LANGUAGE- II	48	-	12	3

<b>Preamble</b>	This course has been designed for students to learn and understand <ul style="list-style-type: none"> <li>the effect of dialogue, imagery and varied genres</li> <li>any spontaneous spoken discourse and respond to them with proper sentence structure</li> <li>the transactional concept of English language</li> </ul>
<b>Prerequisite</b>	Basic comprehension of Language Skills

**Course Outcomes (COs)**

CO Number	Course Outcomes (COs) Statement	Bloom's Taxonomy Knowledge Level
CO1	Identify the various aspects in poetry	K2
CO2	Infer linguistic and non-linguistic features of the context for understanding and interpreting	K3
CO3	Construct sentences and convey messages effectively in real life situations	K3
CO4	Apply different reading strategies with varying speed	K3
CO5	Prepare modules with their own ideas and present them coherently in a grammatically correct form	K3

**Mapping with Program Outcomes:**

COs / POs	PO1	PO2	PO3	PO4	PO5
CO1			✓		
CO2			✓		
CO3			✓		
CO4			✓		
CO5			✓		



## Syllabus

Unit	Content	Hours	E-Contents / Resources
I	<p>Genre Studies</p> <p>Mathew Arnold: Dover Beach- Author's Biography- title indications- outline- paraphrasing the poem- context of poem- form- poetic devices- enjambment- techniques- Annotations</p> <p>Niyi Osundare: Our Earth Will Not Die- Author's Biography- title indications- outline- paraphrasing the poem- context of poem- form- poetic devices- enjambment- techniques- Annotations</p> <p>Charles Lamb: Christ's Hospital Five and Thirty Years Ago- Author's biography- Narrative structure- Exploration of the text- passage analysis- insight of ideas- cohesion and context- style- language techniques- Annotation</p> <p>James Hanson: A Famed Life - Ten Minute Comedy for Two Women - Author's Biography- Plot Summary- Detailed summary and Analysis- Themes- Important Quotations- Characters- Description - analysis- Terms- Symbols- Critical analysis</p> <p>Sheila Nayampalli Baruna: Alone - Author's Biography-narrative structure- passage analysis- insight of ideas- cohesion and context- style- language techniques</p>	12	Text Book
II	<p>Listening Skills</p> <p>Listening vs. hearing- Types of listening, Tips to enhance Listening Skills, Non-verbal and Verbal signs of active listening- Comprehensive Listening- Listening to pre-recorded audios on speeches, interviews and conversations- Listening Activities- Listening and responding to complaints (formal situation), Listening to problems and offering solutions (informal)</p>	13	Text Book
III	<p>Speaking Skills</p> <p>Formal occasions- Introducing oneself, Introducing others, Enquiries and Seeking permission, neural speaking -Making short presentations- Informal occasions- Requests, Offering help, Congratulating, Farewell party, graduation speech- Giving instructions to do a task and to use a device, Giving and asking directions</p>	11	Text Book
IV	<p>Reading Skills</p> <p>Study Skills: Skimming and Scanning- Reading different kinds of texts- Types of reading-Developing a good reading speed, reading aloud, Referencing skill- Word Power (Denotation and Connotation) - Reading comprehension, Data interpretation -Charts, Graphs, Advertisements - Cognitive Skills- Inference Making - Interpretation</p>	12	Text Book
V	<p>Writing Skills</p> <p>Sentence patterns, Note- making and note taking-Strategies - Paragraph writing: Structure and Principles - Academic Writing - Formal and Informal Letters, Report, Book /Movie Review - Infographics Writing</p>	12	Text Book
	<b>Total</b>	60	



<b>Text Books</b>	1.	<a href="https://www.poetryfoundation.org/poems/43588/dover-beach">https://www.poetryfoundation.org/poems/43588/dover-beach</a> .
	2.	<a href="https://portal.abuad.edu.ng/lecturer/documents/1586771577our_earth_will_not_die.doc">https://portal.abuad.edu.ng/lecturer/documents/1586771577our_earth_will_not_die.doc</a>
	3.	<a href="http://l-adam-mekler.com/chucktwo.pdf">http://l-adam-mekler.com/chucktwo.pdf</a> .
	4.	<a href="https://offthewallplays.com/wp-content/uploads/2017/04/1_pdfsam_A-famed-life-full-with-title-page.pdf">https://offthewallplays.com/wp-content/uploads/2017/04/1_pdfsam_A-famed-life-full-with-title-page.pdf</a> .
	5.	Nation, I. S. P and Jonathan Newton. 2009. Teaching ESL/EFL Listening and Speaking. Routledge, New York, United States of America.
	6.	Prabha, Dr. R. Vithya & S. Nithya Devi. 2019. Sparkle. (1st Edn.) McGraw - Hill Education, Chennai, India.
<b>Reference Books</b>	1.	Rudzka, Brygida -Ostyn, 2003. Word Power: Phrasal Verbs and Compounds: A Cognitive Approach, Mouton de Gruyter, New York, United States of America.
	2.	Swales, John M. & Feak, Christine B. 2012. Academic Writing for Graduate Students: Essential Tasks and Skills, University of Michigan Press, Michigan, United States of America.
	3.	Sen, Leena. 2007. Communication Skills, Second Edition, Prentice Hall India Learning Private Limited, New Delhi, India.
	4.	O. Greene, John. 2021. Essentials of Communication Skill and Skill Enhancement: A Primer for Students and Professionals, Routledge publishers, United Kingdom.

<b>Journal and Magazines</b>	<a href="https://academic.oup.com/journals">https://academic.oup.com/journals</a>
<b>E-Resources and Website</b>	<a href="https://learnenglish.britishcouncil.org/">https://learnenglish.britishcouncil.org/</a> <a href="https://www.cambridgeenglish.org/learning-english/activities-for-learners/">https://www.cambridgeenglish.org/learning-english/activities-for-learners/</a>
<b>Learning Method</b>	Chalk and Talk/ Assignment/Seminar/ Interactive session
<b>Focus of the Course</b>	Skill Development/ Employability





SEMESTER I  
FINANCIAL ACCOUNTING

Semester	Course Code	Course Name	Category	L	T	P	Credits
I	24PAU1CA	FINANCIAL ACCOUNTING	CORE	60	12	-	4

<b>Preamble</b>	<p>This course has been designed for students to learn and understand</p> <ul style="list-style-type: none"> <li>• the basic concepts of accounting, prepare the final accounts and methods of providing depreciation accounting.</li> <li>• the recording transactions relating to bills of Exchange, methods of preparation of account current and find out the average due date.</li> <li>• the knowledge about accounting for Consignment and methods of recording sale or return transactions.</li> </ul>
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<b>Prerequisite</b>	Knowledge on Fundamentals of Accounting
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Course Outcomes (COs)		
CO Number	Course Outcomes (COs) Statement	Bloom's Taxonomy Knowledge Level
CO1	Understand the basic knowledge about accounting and preparation of final accounts.	K1
CO2	Know the methods of providing depreciation accounting.	K2
CO3	Obtain the features of bill of exchange, promissory notes and recording transactions relating to bills.	K2
CO4	Learn the knowledge about methods of preparation of account current and find out the average due date.	K3
CO5	Acquire knowledge about accounting treatments in the books of the consignor and consignee and methods of recording sale or return transactions.	K3

Mapping with Program Outcomes:					
COs / POs	PO1	PO2	PO3	PO4	PO5
CO1	✓	✓	✓	✓	
CO2	✓	✓		✓	✓
CO3	✓		✓		✓
CO4	✓	✓	✓	✓	
CO5	✓	✓	✓	✓	



## Syllabus

Unit	Content	Hours	E-Contents / Resources
I	Introduction to Accounting and Final Accounts Accounting Definition - Objectives - Functions - Advantages - Limitations - Types of Accounts - Basis of Accounting - Accounting Principles: Accounting Concepts and Conventions - Journal - Ledger - Subsidiary books - Trial balance. Final Accounts: Introduction - Trading Account, Profit and Loss Account, Balance sheet with adjustments. Case Study on Accounting Concepts	14	Text Book
II	Bank Reconciliation Statement and Depreciation Bank Reconciliation Statement - Need - Preparation of Bank Reconciliation Statement. Meaning and Definition of Depreciation - Characteristics - Causes - Need - Methods (Straight Line, Written Down, Annuity, Sinking Fund, Insurance Policy and Machine Hour Rate methods). Case Study on Bank Reconciliation Statement	16	Text Book
III	Bills of Exchange Bills of Exchange - Definition - Features - Advantages - Types - Promissory Notes - Definition - Features - Distinction between Bills of Exchange and Promissory Notes - Recording transactions relating to bills - Retiring of bill under rebate - Dishonour of a Bill - Renewal of bills. Case Study on Bills of Exchange	15	Text Book
IV	Account Current and Average Due Date Meaning of Account current - Definition - Methods: Product, Red-ink Interest, Interest table, Periodical balance and Epoque method. Meaning of Average due date - Uses - Accounting treatment - Calculation of Interest.	12	Text Book
V	Accounting for Consignments and Goods Sent on Sale or Return Basis Meaning of Consignment - Distinction between consignment and sale - Accounting treatment in the books of the Consignor and Consignee - Goods sent on consignment at cost and at Invoice price. Meaning of Sale or Return - Purpose - Methods of Recording Sale or Return Transactions.	15	Text Book
	<b>Total</b>	<b>72</b>	



Note: Distribution of Marks: 80% problems and 20% theory.

Case studies related to the above topics to be discussed (Examined Internal only)

<b>Text Book</b>	1.	Reddy, T.S. and Murthy, A. 2023, Financial Accounting [Second Revised Edition] Margham Publications, Chennai
<b>Reference Books</b>	1.	Shukla M.C Grewal T.S Gupta S.C. 2022, Advanced Accounts Volume I [Nineteenth Edition]. S.Chand & Company Pvt Ltd, New Delhi.
	2.	Hanif., and Mukherjee, 2018, Modern Accountancy, (Volume I) [Second Edition]. Tata Mcgraw Hill Publishing Co.Ltd., Chennai.
	3.	S.N.Maheswari, Suneel K Maheswhwari and Sharad K Maheswari, 2022, Advanced Accountancy, (Volume I) [ 11th Edition], S Chand & Company Limited.
	4.	Pillai. R.S.N and Bagavathi, Uma.S. 2012. Fundamentals of Advanced Accounting (Volume I). [Third Revised Edition]. Sultan Chand & Company Ltd, New Delhi.

<b>Journal and Magazines</b>	<a href="https://indianaccounting.org">https://indianaccounting.org</a>
<b>E-Resources and Website</b>	Best Financial Accounting Courses & Certificates Online [2024]   Coursera, Infosys Springboard: Digital Learning and Reskilling Programs

<b>Learning Methods</b>	Chalk and Talk/ Assignment/Seminar/ Group Discussion
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<b>Focus of the Course</b>	Skill Development/ Employability/ Entrepreneurial Development/ Innovations
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Semester - I PRINCIPLES OF MANAGEMENT							
Semester	Corse Code	Course Name	Category	L	T	P	Credits
I	24CIU1CA	PRINCIPLES OF MANAGEMENT	CORE	48	-	-	4

<b>Preamble</b>	This course has been designed for students to learn and understand <ul style="list-style-type: none"> <li>the basic principles and elements of effective management</li> <li>the managerial actions of planning, organizing and motivation</li> <li>the leadership qualities and effective controlling.</li> </ul>
<b>Prerequisite</b>	Knowledge on Management

Course Outcomes (Cos)		
CO Number	Course Outcomes (COs) Statement	Bloom's Taxonomy Knowledge Level
CO1	Integrate the management principles into management practices.	K2
CO2	Understand the planning and decision-making process in the organization.	K2
CO3	Assessthe organisational practices through proper delegation of authority and responsibility	K2
CO4	Describe the recruitment process, motivational theory and leadership styles in the practice of management.	K2
CO5	Understand the techniques of direction and control to summarize the report.	K3

Mapping with Program Outcomes:					
Cos / POs	PO1	PO2	PO3	PO4	PO5
CO1		✓		✓	✓
CO2		✓		✓	✓
CO3		✓		✓	✓
CO4		✓		✓	✓
CO5		✓	✓	✓	✓



## Syllabus

Unit	Content	Hrs	Resources
I	<b>Introduction to Management</b> Definition - Nature and Scope - Importance -Functions of Management - Management as an Art, Science and Profession - Scientific Management - Fayol's Principles of Management - Management By Objectives (MBO) - Management By Exception (MBE)- Organization culture and Environment - Current trends and issues in Management.	10	Text Book
II	<b>Planning</b> Definition - Nature - Objectives - Advantages and Disadvantages - Process - Types - Decision Making - Traditional and Modern Techniques - Steps involved in Decision Making- Rational Decision Making. Case Study on Decision Making	10	Text Book
III	<b>Organizing</b> Definition - Principles - Types - Importance -Elements of Organisation Process - Line & Staff- Overcoming Line-staff conflict, Committees, Organization Structures, Types, Advantages & Disadvantages. Directing - meaning & Definition - Principles - Techniques - Importance -Delegation - Process of Delegations-Barriers to Delegation, Span of Control - Centralization & Decentralization - Departmentation Case Study on organisation conflict	10	Text Book
IV	<b>Staffing</b> Meaning and Definition - Functions - Recruitment - Sources of Recruitment - Training- Performance Appraisal - 360 Degree Appraisal Method - Assessment Center Method- Motivation - Importance of Motivation - Maslow's Theory of Motivation - X, Y and Z Theories (McGregor Theory & William Ouchi Theory)- Goal Setting theory - Leadership - Types - Qualities of a Good Leader- Leadership styles- Group decision making. Case Study on Performance Appraisal	9	Text Book
V	<b>Controlling and Reporting</b> Meaning and Definition - Need and Significance of control - Process of Controlling- Types of control -Managing Productivity - Cost Control - Purchase Control -Maintenance Control - Quality Control - Co-ordination - Need - Techniques - Reporting - meaning & Definition - Principles - Techniques - Importance	9	Text Book
<b>Total</b>		<b>48</b>	
Note: Case studies related to the above topics to be discussed (Examined Internal only)			



<b>Text book</b>	1.	Dinkar Pagare ,2018, "Principles of Management", Sixth Edition,Sultan Chand & Sons, New Delhi.
	2.	Ramaswamy T, 2019,"Principles of management", Eleventh Edition, Himalaya Publishing Home Pvt Ltd, Mumbai
<b>Reference Books</b>	1.	Govindarajan. M., 2019. "Principles of Management", Ninth Edition, PHI Publications, New Delhi.
	2.	Prasad L.M., 2015, "Principles and Practice of Management", Eighth Edition, Sultan Chand & Sons, New Delhi
	3.	Tripathi P C& Reddy P N, 2017, "Principles of Management", Sixteenth Edition, McGraw Hill Education and New Delhi.
	4.	Mitra J.K, 2017, "Principles of Management", First Edition, Oxford University Press.

<b>Journal and Magazines</b>	<a href="http://PrinciplesOfManagement AcademyofManagementJournal(aom.org)"><u>Principles Of Management   Academy of Management Journal (aom.org)</u></a>
<b>E-Resources and Website</b>	<a href="http://InfosysSpringboard:DigitalLearningandReskillingProgramsPrinciplesofManagement Coursera"><u>Infosys Springboard: Digital Learning and Reskilling Programs Principles of Management   Coursera</u></a>

<b>Learning Method</b>	Chalk and Talk/ Assignment/Seminar/ Group Discussion/Case Study
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<b>Focus of the Course</b>	Skill Development/ Employability/ Entrepreneurial Development/ Innovations
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SEMESTER I  
BUSINESS ANALYTICS WITH SPREADSHEETS

Semester	Course Code	Course Name	Category	L	T	P	Credits
I	24CMU1CP	BUSINESS ANALYTICS WITH SPREADSHEETS	CORE	-	-	48	2

**Syllabus**

Sl.No.	Content
1	Introduction to Spreadsheet Programs in cloud format (Excel, Google Sheets, etc.)
2	Basic Spreadsheet Operations: Data Entry, Formatting, Cell Referencing Simple Calculations and Formulas: SUM, AVERAGE, COUNT, etc.
3	Importing Data into Spreadsheets -Data Cleaning and Transformation, Sorting Filtering Data and Data Validation Techniques.
4	Descriptive Analytics-Summarizing Data with Descriptive Statistics (Mean, Median, Mode, Variance, Standard Deviation), PivotTables, Creating Charts and Graphs for Visualization.
5	Prescriptive Analytics-Optimization Techniques in Spreadsheets, Decision Making with Solver Goal Seeking.
6	Financial Analysis and Modeling -Financial Statement Analysis, Financial Modeling Techniques and Valuation Methods.
7	Business Intelligence and Reporting with Excel- Building Reports and Dashboards in Excel Data Warehousing Concepts and its integration with Excel
8	Advanced Excel for Business Intelligence-Functions: Using VLOOKUP and INDEX-MATCH to analyze customer demographics and preferences.
9	Data Management and Manipulation: Importing and cleaning data from financial databases to analyze stock performance.
10	Hedge funds and investment firms using analytics to gain an edge in the secondary market.
11	Designing and implementing a trading strategy using Excel and historical market data.
12	Analysis for Bull Scenario-bullish market, growth opportunities and maximizing returns.



**Semester - I**  
**IDC 1: BUSINESS MATHEMATICS**

Semester	Course Code	Course Name	Category	L	T	P	Credits
I	24MTU1IA	BUSINESS MATHEMATICS	IDC	48	-	-	

<b>Preamble</b>	This course has been designed for students to learn and understand <ul style="list-style-type: none"> <li>• the characteristics of different types of matrices</li> <li>• the basic concept of sequence and series</li> <li>• the concept of interest and annuities</li> </ul>
<b>Prerequisite</b>	Knowledge on Basic Mathematics

**Course Outcomes (COs)**

CO Number	Course Outcomes (COs) Statement	Bloom's Taxonomy Knowledge Level
CO1	solve the linear equations through matrix theory	K3
CO2	identify and define the types and uses of sets	K1
CO3	recognize and apply the theory of ratios and proportions in real life	K3
CO4	understand the basic principles of sequence and series	K2
CO5	apply the concepts of present value and annuity in business	K3

**Mapping with Program Outcomes:**

COs / POs	PO1	PO2	PO3	PO4	PO5
CO1	✓		✓	✓	✓
CO2	✓	✓	✓		
CO3		✓		✓	✓
CO4	✓	✓	✓	✓	
CO5	✓		✓		✓





## Syllabus

Unit	Content	Hours	E-Contents / Resources
I	<p><b>Matrix and its applications to business:</b></p> <p>Matrix and its applications to business- Definitions and notations - operations - conversion of a business problem into a linear system of equations - determinant - matrix equation – methods to solve linear system: Cramer's rule - matrix inversion method.</p>	12	Text Book
II	<p><b>Theory of sets and its business applications:</b></p> <p>Theory of sets and its business applications - Set theory - representation of sets – union, intersection and complement – subset – null set – difference of a set - De Morgan's law- universal set - basic operations-Cartesian products- laws of set algebra- cardinal numbers- Venn diagram- business applications.</p>	08	Reference Book
III	<p><b>Ratio, Permutation and Combination:</b></p> <p>Ratio, Permutation &amp; Combination- Ratio - proportion- types – ratio, proportion and its type of comparison -variations – percentage - annexing zeros and removing decimal signs - average - computation of mean for grouped series - mean of composite group.</p> <p>Fundamental counting principle- factorial- permutation- restricted permutation- circular permutations- combination - restricted combinations - division into groups – mixed problems on permutation and combination</p>	08	Text Book
IV	<p><b>Sequence and Series - Its application to business:</b></p> <p>Sequence and Series - Its application to business - General idea and different types of sequences - kinds of sequence - arithmetic and geometric means - arithmetic progression-geometric progression - harmonic progression</p>	09	Text book
V	<p><b>Compound Interest and Annuities:</b></p> <p>Interest - simple interest - compound interest - continuous compounding - present value and amount of a sum - annuity and its types - present value of an annuity - debenture.</p>	11	Text book
	<b>Total</b>	<b>48</b>	



<b>Text Book</b>	1.	Mariappan P, 2015, "Business Mathematics", First Edition, Pearson India education services Pvt. Ltd, New Delhi.
<b>Reference Books</b>	1.	Asim Kumar Manna, 2018, "Business Mathematics and Statistics", First Edition, McGraw Hill Education Private Limited, New Delhi.
	2.	Sundaresan V, Jayaseelan S D, 2011, "An introduction to Business Mathematics", 4 <sup>th</sup> Edition, Sultan Chand & Company, New Delhi.
	3.	Das N.G & Das J.K, 2012, "Business Mathematics and Statistics", First Edition, McGraw Hill Education Private Limited, New Delhi.
	4.	Sancheti D.C & Kapoor V K, 2012, "Business Mathematics", Eleventh Edition, Sultan Chand & Company, New Delhi.

<b>Journal and Magazines</b>	<a href="https://www.worldscientific.com/worldscinet/bms">https://www.worldscientific.com/worldscinet/bms</a>
<b>E-Resources and Website</b>	<a href="https://www.geeksforgeeks.org/matrices-definition-properties-types-formulas-and-examples/">Matrices: Definition, Properties, Types, Formulas, and Examples (geeksforgeeks.org)</a> <a href="https://nptel.ac.in">https://nptel.ac.in</a>

<b>Learning Method</b>	Chalk and Talk/Assignment/Seminar
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<b>Focus of the Course</b>	Skill Development/Employability
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## Semester – I

## AECC I: ENVIRONMENTAL STUDIES

Semester	Course Code	Course Name	Category	L	T	P	Credits
I	24MBU1AA	ENVIRONMENTAL STUDIES	AECC	24	-	-	2
<b>Preamble</b>	This course has been designed for students to learn and understand <ul style="list-style-type: none"> <li>• Multi-disciplinary aspects of Environmental studies</li> <li>• Importance to conserve the biodiversity</li> <li>• Causes of Pollution and its control</li> </ul>						
<b>Prerequisite</b>	Aware the basics of environmental components						
<b>Course Outcomes (Cos)</b>							
CO Number	Course Outcomes (Cos) Statement						Bloom's Taxonomy Knowledge Level
CO1	To understand the importance of natural resources in order to conserve for the future						K1
CO2	To impart knowledge on Natural resources and its conservation						K2
CO3	To impart knowledge on Biodiversity and its conservation						K3
CO4	To create awareness on effects, causes and control of air, water, soil and noise pollution etc.,						K4
CO5	To build awareness about sustainable development and Environmental protection						K1

Mapping with Programme Outcomes					
Cos/POs	PO1	PO2	PO3	PO4	PO5
CO1					✓
CO2					✓
CO3					✓
CO4					✓
CO5					✓



## Syllabus

Unit	Content	Hours	E-Contents / Resources
I	Introduction to Environmental studies & Ecosystems: components of environment – atmosphere, hydrosphere, lithosphere and biosphere. Scope and importance - Energy flow in an ecosystem: food chain, food web and ecological succession.	5	Text book and Website
II	Natural Resources: Renewable and Non-renewable Resources: Land Resources and land use - Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations. Conflicts over water (international & inter-state). Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs.	5	Text book and Website
III	Biodiversity and Conservation: Global biodiversity hot spots. India as a mega-biodiversity nation; Endangered and endemic species of India. Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.	4	Text book and Website
IV	Environmental Pollution: types, causes, effects and controls; Air, water, soil, chemical and noise pollution. Nuclear hazards and human health risks. Environment Laws: Environment Protection Act; Prevention & Control of Pollution Act – Air & Water. Wildlife Protection Act; Forest Conservation Act;	5	Text book and Website
V	Environmental ethics: Role of Indian and other religions and cultures in environmental conservation. Role of Information Technology in Environment and human health. Role of the Colleges, Teachers and Students in village adoption towards clean, green and make in villages in various aspects.	5	Text book and Website
	<b>Total</b>	<b>24</b>	




Text Book	1.	<i>Carson, R.</i> 2002. <b>Silent Spring.</b> <i>Houghton Mifflin Harcourt</i>
	2.	<i>Gadgil, M., &amp; Guha, R.</i> 1993. <b>This Fissured Land: An Ecological History of India.</b> <i>Univ. of California Press.</i>
Reference Books	1.	<i>Gleeson, B. and Low, N. (eds.)</i> 1999. <b>Global Ethics and Environment, London, Routledge.</b>
	2.	<i>Gleick, P.H.</i> 1993. <b>Water in Crisis.</b> <i>Pacific Institute for Studies in Dev., Environment &amp; Security. Stockholm Env. Institute, Oxford Univ. Press.</i>
	3.	<i>Groom, Martha J. Gary K. Meffe, and Carl Ronald carroll.</i> 2006, <b>Principles of Conservation Biology.</b> <i>Sunderland: Sinauer Associates.</i>
	4.	<i>Grumbine, R. Edward, and Pandit, M.K.</i> 2013. <b>Threats from India's Himalaya dams.</b> <i>Science, 339: 36-37.</i>

Journal and Magazines	<a href="https://www.hzu.edu.in/bed/E%20V%20S.pdf">https://www.hzu.edu.in/bed/E%20V%20S.pdf</a>
E-Resource and Websites	<a href="https://www.ugc.gov.in/oldpdf/modelcurriculum/env.pdf">https://www.ugc.gov.in/oldpdf/modelcurriculum/env.pdf</a>

Learning Methods	Chalk and Talk/ Seminar/ Assignment
Focus of the Course	Skill Development/Employability/Social Awareness and Environment

  
 BoS Chairman/HoD  
 Department of Commerce (CA)  
 Dr. N. G. P. Arts and Science College  
 Coimbatore – 641 048

		
Dr.N.G.P. Arts and Science Co		
APPROVED		
BoS- 17th	AC- 17th	GB -
06.04.24	17.04.24	



The Board of Directors of the University of the South Pacific  
 has approved the proposed budget for the year 2002.  
 The budget is based on the assumption that the University  
 will continue to receive the same level of funding as in  
 the previous year. The budget is subject to the approval  
 of the Board of Directors and the Government of the  
 Solomon Islands.

Approved by the Board of Directors Date: 15/01/2002	Approved by the Government Date: 15/01/2002
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D.N. B.S. Arts and Sciences  
 APPROVED  
 15/01/2002  
 15/01/2002

Bas Chiranjit Jod  
 Department of Commerce (CA)  
 Dr. M. G. P. Arts and Science College  
 Colinton - CAT 015