

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

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)  
Approved by Government of Tamil Nadu and Accredited by NAAC with 'A++' Grade (3<sup>rd</sup> Cycle-3.64 CGPA)  
Dr. N.G.P. – Kalapatti Road, Coimbatore-641048, Tamil Nadu, India  
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### **REGULATIONS 2024-25 for Under Graduate Programme**

**(Outcome Based Education model with Choice Based Credit System)**

#### **Bachelor of Commerce Business Analytics Degree**

**(For the students admitted during the academic year 2025-26)**

**Programme: B. Com. (Business Analytics)**

#### **Eligibility**

A candidate who has passed in Higher Secondary Examination with any Academic Stream or Vocational Stream as one of the subjects under Higher Secondary Board of Examination 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 Business Analytics Degree Examination of this College after a Programme of study of three academic years.

#### **Programme Educational Objectives**

On successful completion of the Programme, the following are the expected

Programme Educational Outcomes

- To acquire a particular skill-set to succeed in a business analytics career. Inquisitiveness, interpretation skills, thorough understanding of tools and methods, ability to do in-depth research and quantitative skills.
- Having a basic understanding in analytics, statistics, economics, accounting concepts.
- To develop students and help them to learn and apply modern decision technology and statistical methods to decision-making.
- To develop professional skills, ethical values, personal values among the students.
- To get hold of destined critical and analytical positions out of progressive and comprehensive knowledge in analytics field.

## PROGRAMME OUTCOMES

On the successful completion of the program, the following are the expected outcomes.

PO Number	PO Statement
PO1	To assimilate and to shine as Business analyst and finance experts
PO2	To get along with erudition in accounting concepts, policies and operations
PO3	To gain a full-scale knowledge in data analytics and lead to data scientist in IT sector
PO4	To procure wisdom in communication and information technology to serve as analytics professionals
PO5	To accumulate practical Knowledge in various statistical software packages

### Credit distribution summary

For students admitted in AY 25-26 and onwards.

Part	Subjects	No. of Papers	Credit	Semester No.
I (12 Credits)	Tamil / Hindi / French/Malayalam	4	4 x 3 = 12	I to IV
II (12 Credits)	English	4	4 x 3 = 12	I to IV
III (108 Credits)	Core (Credits 4,3)	15 x 4 2 x 3	66	I to VI
	Core Practical (Credits 2)	2	2x2=4	I, II
	Inter Departmental Course (IDC)	4	4 x 4 =16	I to IV
	Discipline Specific Elective (DSE)	3	3x 4=12	V & VI
	Skill Enhancement Course (SEC)	4	4 x 2= 8	III to VI
	Industrial Training	1	1 x 2 = 2	V
IV (8 Credits)	Environmental Studies(AECC)	1	2	I
	Basic Tamil/ Advance Tamil/Human Rights, & Women's Rights (AECC)	1	2	II
	Generic Elective (GE)	1	2	V
	Innovation & IPR/ Innovation, IPR & Entrepreneurship (AECC)	1	2	VI
V (2 Credits)	NSS/NCC/YRC/RRC/Yoga/Sports /Clubs/ Health and Wellness	-	2	I - II
TOTAL CREDITS			142	



## B.COM. ( BUSINESS ANALYTICS)

## CURRICULUM- 2025-26

Course Code	Course Category	Course Name	L	T	P	Instruction Hours		Exam (h)	Max Marks			Credits
						Week	Total		CIA	ESE	Total	
First Semester												
Part-I												
25TLU1TA	Language- I	Tamil-I	4	1	-	5	60	3	25	75	100	3
25TLU1HA		Hindi-I										
25TLU1MA		Malayalam-I										
25TLU1FA		French – I										
Part- II												
25ELU1EA	Language-II	English – I	4	-	1	5	60	3	25	75	100	3
Part- III												
25COU1CA	Core - I	Financial Accounting	5	1	-	6	72	3	25	75	100	4
25BAU1CA	Core - II	Fundamentals of Business Analytics	4	-	-	4	48	3	25	75	100	4
25BAU1CP	Core Practical- I	Spreadsheet Modelling and Accounting Package	-	-	4	4	48	3	40	60	100	2
25MTU1IA	IDC - I	Business Mathematics	4	-	-	4	48	3	25	75	100	4
Part-IV												
25MBU1AA	AECC-I	Environmental Studies	2	-	-	2	25	2	50	-	50	2
Part – V												
25BAU1XA	Extension Activity	NSS/NCC/ YRC/RRC/ Yoga/ Sports Clubs	-	-	-	-	-	-	50	-	50	1
Total			23	2	5	30	360	-	-	-	700	23



Course Code	Course Category	Course Name	L	T	P	Instruction Hours		Exam (h)	Max Marks			Credits
						Week	Total		CIA	ESE	Total	
Second Semester												
Part-I												
25TLU2TA	Language - I	Tamil-II	4	1	-	5	60	3	25	75	100	3
25TLU2HA		Hindi-II										
25TLU2MA		Malayalam-II										
25TLU2FA		French - II										
Part-II												
25ELU2EA	Language-II	English -II	4	-	1	5	60	3	25	75	100	3
Part- III												
25BPU2CA	Core - III	Advanced Financial Accounting	5	1	-	6	72	3	25	75	100	4
25BAU2CA	Core -IV	Python for Data Analytics	4	-	-	4	48	3	25	75	100	4
25BAU2CP	Core Practical-II	Python for Data Analytics	-	-	4	4	48	3	40	60	100	2
25MTU2IA	IDC - II	Business Statistics	4	-	-	4	48	3	25	75	100	4
Part-IV												
25TLU2AA	AECC-II	Basic Tamil	2	-	-	2	24	2	50	-	50	2
25TLU2AA		Advanced Tamil										
25CRU2AA		Human Rights and Women's Rights										
Part-V												
25BAU2XA	Extension Activity	NSS/NCC/ YRC/RRC/ Yoga/Sports Clubs/ Health and Wellness	-	-	-	-	-	-	50	-	50	1
Total			23	2	5	30	360				700	23

Course Code	Course Category	Course Name	L	T	P	Instruction Hours		Exam (h)	Max Marks			Credits
						Week	Total		CIA	ESE	Total	
Third Semester												
PART- I												
25TLU3TA	Language-I	Tamil-III	3	1	-	4	48	3	25	75	100	3
25TLU3HA		Hindi-III										
25TLU3MA		Malayalam-III										
25TLU3FA		French -III										
PART- II												
25ELU3EA	Language-II	English – III	3	1	-	4	48	3	25	75	100	3
PART- III												
25CMU3CA	Core – V	Cost Accounting	5	-	-	5	60	3	25	75	100	4
25BI3UCB	Core - VI	Company Law	4	-	-	4	48	3	25	75	100	4
25BAU3CA	Core – VII	Modern Database	5	-	-	5	60	3	25	75	100	4
25COU3IA	IDC - III	Business Economics	4	-	-	4	48	3	25	75	100	4
25BAU3SP	SEC Practical-I	DBMS (SQL, NoSQL, MongoDB)	-	-	4	4	48	3	40	60	100	2
Total			24	2	4	30	360	-	-	-	700	25



Course Code	Course Category	Course Name	L	T	P	Instruction Hours		Exam (h)	Max Marks			Credits
						Week	Total		CIA	ESE	Total	
Fourth Semester												
PART- I												
25TLU4TA	Language - I	Tamil-IV	3	1	-	4	48	3	25	75	100	3
25TLU4HA		Hindi-IV										
25TLU4MA		Malayalam-IV										
25TLU4FA		French -IV										
PART – II												
25ELU4EA	Language-II	English -IV	3	1	-	4	48	3	25	75	100	3
PART – III												
25CRU4CA	Core - VIII	Corporate Accounting	5	1	-	6	72	3	25	75	100	4
25BAU4CA	Core – IX	Data Mining and Business Intelligence	4	-	-	4	48	3	25	75	100	4
25BAU4CB	Core -X	Principles of Management	4	-	-	4	48	3	25	75	100	4
25MTU4IB	IDC – IV	Optimization Techniques	4	-	-	4	48	3	25	75	100	4
25BAU4SP	SEC Practical- II	Data Visualization for Business Intelligence	-	-	4	4	48	3	40	60	100	2
Total			23	3	4	30	360	-	-	-	700	24

Course Code	Course Category	Course Name	L	T	P	Instruction Hours		Exam (h)	Max Marks			Credits
						Week	Total		CIA	ESE	Total	
Fifth Semester												
Part-III												
25BAU5CA	Core – XI	R Programming	5	1	-	6	72	3	25	75	100	4
25ATU5CA	Core - XII	Income Tax Law and Practice	5	1	-	6	72	3	25	75	100	4
25COU5CB	Core – XIII	Research Methodology	4	-	-	4	48	3	25	75	100	4
25BAU5CB	Core – XIV	Auditing and Corporate Governance	4	-	-	4	48	3	25	75	100	3
25BAU5SP	SEC Practical - III	R Programming for Data Analytics	-	-	4	4	48	3	40	60	100	2
25CMU5DA	DSE –I	Financial Management	4	-	-	4	48	3	25	75	100	4
25CIU5DA		E-Business Technology										
25COU5DA		Human Resource Management										
25BAU5DA		Service Marketing										
25BAU5TA	IT	Industrial Training	-	-	-	-	-	3	40	60	100	2
Part- IV												
	GE		2	-	-	2	24	3	50	-	50	2
Total			24	2	4	30	360				750	25



Course Code	Course Category	Course Name	L	T	P	Instruction Hours		Exam (h)	Max Marks			Credits
						Week	Total		CIA	ESE	Total	
Sixth Semester												
Part-III												
25BAU6CA	Core –XV	Management Accounting	5	-	-	5	60	3	25	75	100	4
25BAU6CV	Core – XVI Project	Project and Viva- Voce	-	-	8	8	96	3	40	60	100	4
25BAU6CB	Core -XVII	Big Data Analytics	3	-	-	3	36	3	25	75	100	3
25BAU6SP	SEC Practical -IV	Statistical Package for Data Analysis	-	-	4	4	48	3	40	60	100	2
25CMU6DA	DSE - II	Investment Management	4	-	-	4	48	3	25	75	100	4
25CIU6DA		Enterprise Resource Planning										
25COU6DA		Organizational Behavior										
25BIU6DA		Retail Marketing										
25CMU6DB	DSE - III	Security Analysis and Portfolio Management	4	-	-	4	48	3	25	75	100	4
25CIU6DB		Fundamentals of Information Security										
25COU6DB		Industrial Relations and Labour Law										
25BAU6DB		Social Media Marketing										
Part- IV												
25BIU6AA	AECC-III	Innovation and IPR	2	-	-	2	24	-	50	-	50	2
Total			18	-	12	30	360				650	23
*Grand total											4200	142

### DISCIPLINE SPECIFIC ELECTIVE

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

#### Semester V (Elective I) List of Elective Courses

S.No.	Course Code	Name of the Course
1.	25CMU5DA	Financial Management
2.	25CIU5DA	E-Business Technology
3.	25COU5DA	Human Resource Management
4.	25BAU5DA	Service Marketing

#### Semester VI (Elective II) List of Elective Courses

S.No.	Course Code	Name of the Course
1.	25CMU6DA	Investment Management
2.	25CIU6DA	Enterprise Resource planning
3.	25COU6DA	Organizational Behavior
4.	25BIU6DA	Retail Marketing

#### Semester VI (Elective III) List of Elective Courses

S.No.	Course Code	Name of the Course
1.	25CMU6DB	Security Analysis and Portfolio Management
2.	25CIU6DB	Fundamentals of Information Security
3.	25COU6DB	Industrial Relations and Labour Law
4.	25BAU6DB	Social Media Marketing



**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	25BAU5GP	Analytical thinking for Startup

**EXTRA CREDIT COURSES**

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

**Semester III**

S.No.	Course Code	Course Name
1	25BAUSSA	Brand Management
2	25BAUSSB	Fundamentals of Banking

**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.ac.in](http://www.nptel.ac.in)
- [www.spoken-tutorial.org](http://www.spoken-tutorial.org)

Semester – I							
LANGUAGE – I: TAMIL - I							
Semester	Course Code	Course Name	Category	L	T	P	Credits
I	25TLU1TA	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 Taxonomy Knowledge Level
CO1	வாழ்க்கைத்திறன்கள் (Life Skills)- மாணவர்களின் செயலாக்கத்திறனை ஊக்குவித்தல்	K2
CO2	மதிப்புக்கல்வி (Attitude and Value education)	K3
CO3	பாடஇணைச்செயல்பாடுகள் (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	✓			✓	✓



25TLU1TA	TAMIL - I
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Syllabus

Unit	Content	Hrs	Resources
1	<p>மறுமலர்ச்சிக் கவிதைகள்</p> <ol style="list-style-type: none"> <li>இலக்கிய வரலாறு - மறுமலர்ச்சிக் கவிஞர்களின் தமிழ்ப்பணிகள்</li> <li>பாரததேசம்- பாரதியார்</li> <li>படி - பாரதிதாசன்</li> <li>தமிழரின் பெருமை- நாமக்கல் கவிஞர்</li> <li>தமிழ்க் கொலை புரியாதீர் - புலவர் குழந்தை</li> <li>திரைத்தமிழ்</li> </ol> <p>அ) 'விஞ்ஞானத்த வளர்க்கப் போறண்டி' எனத் தொடங்கும் பாடல் - உடுமை நாராயண கவி</p> <p>ஆ) 'சும்மா கிடந்த நிலத்தை' எனத் தொடங்கும் பாடல் - பட்டுக்கோட்டை கல்யாண சுந்தரனார்</p> <p>இ) 'சமரசம் உலாவும் இடமே' எனத் தொடங்கும் பாடல் - மருதகாசி</p> <p>ஈ) 'உன்னை அறிந்தால்' எனத் தொடங்கும் பாடல் - கண்ணதாசன்</p>	13	<p>தமிழ்மொழிப்பாடம் முதற்பருவம் 2025-2026 <a href="https://www.youtube.com/watch?v=Up55uhkk9zI">https://www.youtube.com/watch?v=Up55uhkk9zI</a></p>
2	<p>புதுக்கவிதைகள்</p> <ol style="list-style-type: none"> <li>இலக்கிய வரலாறு - புதுக்கவிதையின் தோற்றமும் வளர்ச்சியும்</li> <li>கடமையைச் செய் - மீரா</li> <li>ஒடு ஒடு சங்கிலி - சிற்பி பாலசுப்பிரமணியம்</li> <li>ஒப்பிலாத சமுதாயம் - அப்துல் ரகுமான்</li> <li>மரங்கள் - மு.மேத்தா</li> <li>கறிக்கிறது தாய்ப்பால் - ஆரூர் தமிழ்நாடன்</li> <li>ஐந்தாம் வகுப்பு 'அ' பிரிவு - நா. முத்துக்குமார்</li> <li>ஹைகூ கவிதைகள் - 10 கவிதைகள்</li> </ol>	13	<p>தமிழ்மொழிப்பாடம் முதற்பருவம் 2025-2026 <a href="https://www.youtube.com/watch?v=dX9ZaNJMaCO">https://www.youtube.com/watch?v=dX9ZaNJMaCO</a></p>
3	<p>பெண்ணியம்</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>தமிழ்மொழிப்பாடம் முதற்பருவம் 2025-2026 <a href="https://www.youtube.com/watch?v=DLabokqWEdg">https://www.youtube.com/watch?v=DLabokqWEdg</a></p>
4	<p>சிறுகதைகள்</p> <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> <li>காட்டில் ஒருமான் - அம்பை</li> <li>வேட்கை - சூர்யகாந்தன்</li> </ol>	14	<p>தமிழ்மொழிப்பாடம் முதற்பருவம் 2025-2026 <a href="https://www.youtube.com/watch?v=78u7iTN3OU8">https://www.youtube.com/watch?v=78u7iTN3OU8</a></p>

5	<p><b>பயிற்சிப் பகுதி</b></p> <p><b>அ. இலக்கணம்</b></p> <p>1. வல்லின ஒற்று மிகும், மிகா இடங்கள் - ஒற்றுப்பிழை நீக்கிஎழுதுதல்</p> <p>2. ர,ற-ல,ழ,ள - ண,ந,ன வேறுபாடு - ஒலிப்பு நெறி, சொற்பொருள் வேறுபாடு அறிதல்</p> <p><b>ஆ. படைப்பாக்கம்</b></p> <p>1. கவிதை- எழுதுதல் (15 வரிகள் முதல் 30 வரிகள் வரை)</p> <p>2. சிறுகதை - எழுதுதல் (குறைந்தது 3 பக்கங்கள்)</p>	10	<p>தமிழ்மொழிப்பாடம் முதற்பருவம் 2025-2026</p> <p><a href="https://www.youtube.com/watch?v=B3wfM0QL6N8">https://www.youtube.com/watch?v=B3wfM0QL6N8</a></p> <p><a href="https://www.youtube.com/watch?v=FchTlqAtwBU">https://www.youtube.com/watch?v=FchTlqAtwBU</a></p> <p><a href="https://www.youtube.com/watch?v=gCP3gC-JQU4">https://www.youtube.com/watch?v=gCP3gC-JQU4</a></p> <p><a href="https://www.youtube.com/watch?v=p9QOHD12Yeo">https://www.youtube.com/watch?v=p9QOHD12Yeo</a></p>
	Total	60	

<b>Text book</b>	1.	தமிழ் மொழிப்பாடம் - 2025-2026 தொகுப்பு: தமிழ்த்துறை, டாக்டர் என். ஜி. பி. கலை அறிவியல் கல்லூரி, 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							
LANGUAGE –I: HINDI – I							
Semester	Course Code	Course Name	Category	L	T	P	Credits
I	25TLU1HA	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

Course Outcomes (Cos)		
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	✓			✓	✓



25TLU1HA

HINDI – I

## Syllabus

Unit	Content	Hrs	Resources
1	गद्य – नूतन गद्य संग्रह (जयप्रकाश) पाठ1- रजिया पाठ, 2- मक़ील पाठ 3- बहता पानी निर्मला पाठ4- राष्ट्रपिता महात्मा गाँधी	13	Text Book
2	कहानी कुंज- डॉ वी.पी. 'अमिताभ'(पाठ 1-4)	13	Text Book
3	व्याकरण : शब्दविचार ( संज्ञा, सर्वनाम,विशेषण)	12	Text Book
4	अनुच्छेद लेखन	12	Text Book
5	अनुवाद अभ्यास-III (केवल अंग्रेजी से हिन्दी में) (पाठ1 to 10)	10	Text Book
	Total	60	

Text books	1.	प्रकाशक: सुमित्र प्रकाशन 204 लीला अपार्टमेंट्स, 15 हेस्टिंग्स रोड अशोक नगर इलाहाबाद-211001
	2.	प्रकाशक: गोविन्द प्रकाशन सदर बाजार, मथुरा उत्तरप्रदेश-281001
	3.	पुस्तक: व्याकरण प्रदिप - रामदेव प्रकाशक: हिन्दी भवन 36 टैगोर नगर इलाहाबाद-211024
	4.	पुस्तक: व्याकरण प्रदिप - रामदेव प्रकाशक: 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	25TLU1MA	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 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	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	✓			✓	✓

25TLU1MA

MALAYALAM-I

## 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
	Total	60	

<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	25TLU1FA	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	✓			✓	✓

25TLU1FA

FRENCH - I

## Syllabus

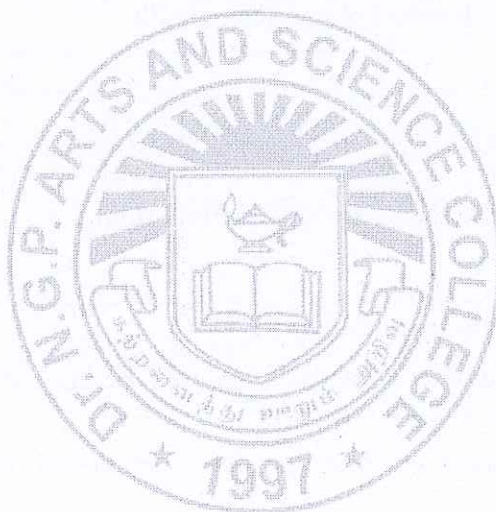
Unit	Content			Hrs	Resources
1	<b>Objectifs de Communication</b> <ul style="list-style-type: none"> <li>• Saluer</li> <li>• Enter en contact</li> <li>• avec quelqu'un.</li> <li>• Se presenter.</li> <li>• S'excuser</li> </ul>	<b>Tâche</b> En cours de cuisine, premiers contacts avec les membres d'un groupe	<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> <li>• .</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 goût</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							
LANGUAGE II: ENGLISH - I							
Semester	Course Code	Course Name	Category	L	T	P	Credits
I	25ELU1EA	ENGLISH - I	LANGUAGE- II	48	-	12	3

Preamble	<p>This course has been designed for students to learn and understand</p> <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>
Prerequisite	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	✓		✓		✓

25ELU1EA	LANGUAGE II: ENGLISH - I
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## Syllabus

Unit	Content	Hrs	Resources
I	<b>Genre Studies</b> <b>Mathew Arnold: Dover Beach-</b> Author's Biography- title indications- outline- paraphrasing the poem- context of poem- form- poetic devices- enjambment- techniques- Annotations <b>Niyi Osundare: Our Earth Will Not Die-</b> Author's Biography- title indications-outline- paraphrasing the poem- context of poem- form- poetic devices-enjambment-techniques- Annotations <b>Charles Lamb: Christ's Hospital Five and Thirty Years Ago-</b> Author's biography- Narrative structure- Exploration of the text- passage analysis- insight of ideas- cohesion and context- style- language techniques- Annotation <b>James Hanson: A Famed Life - Ten Minute Comedy for Two Women -</b> Author's Biography- Plot Summary- Detailed summary and Analysis- Themes- Important Quotations- Characters- Description - analysis- Terms- Symbols- Critical analysis <b>Sheila Nayampalli Baruna: Alone -</b> Author's Biography- narrative structure- passage analysis- insight of ideas- cohesion and context- style- language techniques.	12	Text Book
II	<b>Listening Skills</b> 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)	13	britishcouncil.org cambridgeenglish.org
III	<b>Speaking Skills</b> Formal occasions- Introducing oneself, Introducing others, Enquiries and Seeking permission, neutral 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	11	britishcouncil.org cambridgeenglish.org
IV	<b>Reading Skills</b> 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	12	britishcouncil.org cambridgeenglish.org
V	<b>Writing Skills</b> Sentence patterns, Note- making and note taking-Strategies	12	britishcouncil.org



- Paragraph writing: Structure and Principles - Academic Writing - Formal and Informal Letters, Report, Book /Movie Review - Infographics Writing		cambridgeenglish.org
<b>Total</b>	<b>60</b>	

Note: Case studies related to the above topics to be discussed (Examined Internal only)
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<b>Text book</b>	1.	<a href="https://www.poetryfoundation.org/poems/43588/doverbeach">https://www.poetryfoundation.org/poems/43588/doverbeach</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/wpcontent/uploads/2017/04/1_pdfsam_A-famed-life-full-with-title-page.pdf">https://offthewallplays.com/wpcontent/uploads/2017/04/1_pdfsam_A-famed-life-full-with-title-page.pdf</a>
	5.	Nation, I. S. P and Jonathan Newton. 2009. <i>Teaching ESL/EFL Listening and Speaking</i> . Routledge, New York, United States of America.
	6.	Prabha, Dr. R. Vithya & S. Nithya Devi. 2019. <i>Sparkle</i> . (1 <sup>st</sup> Edn.) McGraw - Hill Education, Chennai, India.
<b>Reference Books</b>	1.	Rudzka, Brygida -Ostyn, 2003. <i>Word Power: Phrasal Verbs and Compounds: A Cognitive Approach</i> , Mouton de Gruyter, New York, United States of America.
	2.	Swales, John M. & Feak, Christine B. 2012. <i>Academic Writing for Graduate Students: Essential Tasks and Skills</i> , University of Michigan Press, Michigan, United States of America.
	3.	Sen, Leena. 2007. <i>Communication Skills</i> , Second Edition, Prentice Hall India Learning Private Limited, New Delhi, India.
	4.	O. Greene, John. 2021. <i>Essentials of Communication Skill and Skill Enhancement: A Primer for Students and Professionals</i> , 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/ Group Discussion/Case Study
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<b>Focus of the Course</b>	Skill Development/ Employability
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Semester – I CORE : FINANCIAL ACCOUNTING							
Semester	Course Code	Course Name	Category	L	T	P	Credits
I	25COU1CA	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>
<b>Prerequisite</b>	Knowledge on Fundamental of Accounting.

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.	K2
CO2	Know the methods of providing depreciation accounting.	K3
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	✓	✓	✓	✓	



<b>25COU1CA</b>	<b>FINANCIAL ACCOUNTING</b>
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**Syllabus**

Unit	Content	Hrs	Resources
I	<b>Introduction to Accounting and Final Accounts</b> 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	<b>Bank Reconciliation Statement and Depreciation</b> 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	<b>Bills of Exchange</b> 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	<b>Account Current and Average Due Date</b> 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	<b>Accounting for Consignments and Goods Sent on Sale or Return Basis</b> 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>	

<p>Note: Distribution of Marks: 80% problems and 20% theory.  Case studies related to the above topics to be discussed (Examined Internal only)</p>
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	Case studies related to the above topics to be discussed (Examined Internal only)
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<b>Text book</b>	1.	Jain, S.P., and Narang, K.L 2021, Advanced Accountancy - Principles of Accounting Including GST Volume I, Twentieth Revised Edition, Kalyani Publishers, New Delhi.
	2.	Shukla M.C Grewal T.S Gupta S.C. 2022, Advanced Accounts Volume I Nineteenth Edition, S. Chand & Company Pvt Ltd, New Delhi.
<b>Reference Books</b>	1.	Reddy,T.S. and Murthy,A. 2023, Financial Accounting, Second Revised Edition, Margham Publications, Chennai.
	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, New Delhi.
	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, <a href="#">Infosys Springboard: Digital Learning and Reskilling Programs</a>

<b>Learning Method</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							
CORE : FUNDAMENTALS OF BUSINESS ANALYTICS							
Semester	Course Code	Course Name	Category	L	T	P	Credits
I	25BAU1CA	FUNDAMENTALS OF BUSINESS ANALYTICS	CORE	48	-	-	4

<b>Preamble</b>	<p>This course has been designed for students to learn and understand</p> <ul style="list-style-type: none"> <li>• understand the Basic Concept of business analytics</li> <li>• know about the Digital Data and Data Modeling</li> <li>• aware about the Enterprise Reporting and Applications of Analytics.</li> </ul>
<b>Prerequisite</b>	Basic knowledge in fundamentals operation of business.

Course Outcomes (Cos)		
CO Number	Course Outcomes (COs) Statement	Bloom's Taxonomy Knowledge Level
CO1	Know the concepts, Role of Business Analyst, Rules of Business & Business Analysis.	K3
CO2	Obtain the base knowledge of Business Excellence Framework and use of IT in Enterprise applications.	K1
CO3	Capture the Information relating to Types of Digital Data	K2
CO4	Aware of Data Modeling techniques and various Schemas.	K3
CO5	Obtain knowledge about Enterprise Reporting and Applications of Analytics.	K3

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

25BAU1CA	FUNDAMENTALS OF BUSINESS ANALYTICS
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## Syllabus

Unit	Content	Hrs	Resources
I	<b>Introduction to the Business Analytics</b> Introduction to the BA Role- Business Analysis -Business Analyst - The evolving role of the Business Analyst -The BA roadmap Different levels of business analysis- The basic rules of Business & Business Analysis - Classical Requirements and Tasks performed by Business Analysts.	10	Text Book
II	<b>Business Excellence Framework</b> Business view of Information Technology Applications - Core business process - Baldrige Business Excellence framework - Key purpose of using IT in business Enterprise Applications - Information users and their Requirements - Data Analysis for Business Decision Making	9	Reference Book
III	<b>Types of Digital Data</b> Data definition - Evolution - Data - Information - Knowledge Types of Data - Structured data - Meaning - Characteristics Unstructured data - Meaning - Managing and storage of unstructured data - Storage challenges - Extracting information - Semi Structured Data - Attributes and Measurement - Data Quality - Data Mart- Database - Data Warehouse - ETL - Data Integration	9	Text Book
IV	<b>Data Modeling</b> Basics of Data Integration - Data Quality - Why and What Data Quality? - Maintain - Key Areas of Study - Definition of Data Modeling- Data Warehouse Architecture - Basics - Types - Techniques - Multidimensional Data model - Fact Table Dimension Table - Star Schema - Snowflake Schema- Fact Constellation Schema- Dimension Modeling Lifecycle	10	Text Book
V	<b>Enterprise Reporting and Applications of Analytics</b> Overview of Enterprise Reporting and Applications of Analytics - Report Standardization and Presentation - Balanced Scorecards Performance Dashboards - Scorecards Vs Dashboards - Applications of Analytics -Healthcare - Retail- Web Analytics - Social Media Analytics -Recommendation Systems - BI Road Ahead- BI and Cloud Computing - Business Intelligence for ERP Systems	10	Text Book
<b>Total</b>		<b>48</b>	

Note: Case studies related to the above topics to be discussed (Examined Internal only)
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<b>Text book</b>	1.	Prasad R.N. and Seema Acharya , 2014 , "Fundamentals of Business Analytics " , Current Edition, Wiley Publisher, New Delhi.
	2.	Pang-Ning Tan Michael Steinbach, Vipin Kumar, 2015, "Introduction to Data Mining", 2015 Edition, Pearson Education, New Delhi.
<b>Reference Books</b>	1.	Pang-Ning Tan Michael Steinbach, Vipin Kumar, 2015, "Introduction to Data Mining", 2015 Edition, Pearson Education, New Delhi.
	2.	Haydn Thomas - Demonoid, 2015, "Business Analysis Fundamentals", 2015 Edition, Pearson Education, New Delh
	3.	Gert H.N. Laursen, Jesper Thorlunnd, 2014, "Business Analytics for Managers", First Edition, Wiley Publisher, New Delhi.
	4.	John F. Tanner JR , 2014 , "Analytics and Dynamic Customer Strategy" , First Edition , Wiley Publisher , New Delhi.

<b>Journal and Magazines</b>	<u>Fundamentals of Business Analytics   Business Analyst Journal</u>
<b>E-Resources and Website</b>	<u>Infosys Springboard: Bngbusiness Analysis Fundamentals</u>

<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/ Development/ Innovations	Employability/	Entrepreneurial
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Semester – I							
CORE PRACTICAL: SPREADSHEET MODELLING AND ACCOUNTIN PACKAGE							
Semester	Course Code	Course Name	Category	L	T	P	Credits
I	25BAU1CP	SPREADSHEET MODELLING AND ACCOUNTING PACKAGE	CORE		-	48	2

Preamble	<p>This course has been designed for students to learn and understand</p> <ul style="list-style-type: none"> <li>• practical skills in spreadsheet modelling and accounting software applications.</li> <li>• financial data, automate calculations, and generate reports using spreadsheet functions searching and sorting techniques.</li> <li>• to implementation using digital tools. and accounting packages, fostering decision-making and data-driven insights in business environments.</li> </ul>
Prerequisite	Basic of MS Excel and Accountancy

Course Outcomes (Cos)		
CO Number	Course Outcomes (COs) Statement	Bloom's Taxonomy Knowledge Level
CO1	Analyze the structure and functionality of spreadsheet tools in financial data management.	K4
CO2	Examine the use of formulas, functions, and pivot tables to interpret financial trends.	K2
CO3	Evaluate accounting transactions and classify them using accounting software.	K3
CO4	Interpret financial statements generated through accounting packages	K3
CO5	Analyze financial statements generated through accounting software.	K4

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

25BAU1CP	SPREADSHEET MODELLING AND ACCOUNTING PACKAGE
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S.No	List of Programs
	<b>SPREADSHEET MODELLING</b>
1	Collecting data using Google forms Perform Importing and Exporting Data to a Text File and Workbook Protection
2	Creation of a payroll data perform Financial Functions & Loan Calculations PMT, IPMT, FV, NPER functions Advanced Sorting, Filtering & Conditional Formatting
3	Creation and Conversion of Pivot table & Pivot chart for Sales data
4	Performing user defined Macros: Recording, Viewing, Running Macros and VLOOKUP, HLOOKUP, Data Validation & Drop-down Lists INDEX & Text Function
5	Performing Data Analysis using the Statistical Tools: a) Descriptive Statistics b) Rank c) Weighted average d) Correlation e) Regression.
6	Dashboard Creation for Financial Summary with multiple data tables and Manage connections by using the workbook connection dialog box in spreadsheet modelling.
	<b>ACCOUNTIN PACKAGE</b>
7	Company Creation & Basic Ledger/Voucher Entries
8	Trial Balance & Basic Financial Report Generation GST Configuration & Recording GST Transactions (Intra-State & Inter-State)
9	GST Configuration & Recording GST Transactions (Intra-State & Inter-State)
10	Input Tax Credit (ITC) Adjustment and GST Reports
11	Filing GSTR-1 & GSTR-3B via E-filing Integration
12	TDS, E-Payment & Final Accounts Preparation.

Text Books	1.	Wayne L. Winston 2023 Microsoft Excel Data Analysis and Business Modeling- Microsoft Press
	2.	Sanjay Satapathy 2024 TallyPrime 6 (Advanced Usage).

Learning Method	Demonstration/ Hands on Experiments
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Focus of the Course	Skill Development/ Employability
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Semester – I IDC: BUSINESS MATHEMATICS							
Semester	Course Code	Course Name	Category	L	T	P	Credits
I	25MTU1IA	BUSINESS MATHEMATICS	IDC	48	-	-	4

Preamble	<p>This course has been designed for students to learn and understand</p> <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>
Prerequisite	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		✓	✓	✓	✓



25MTU11A	BUSINESS MATHEMATICS
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## Syllabus

Unit	Content	Hrs	Resources
I	<b>Matrix and its applications to business</b> 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.	12	Text Book
II	<b>Theory of sets and its business applications</b> 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.	08	Reference Book
III	<b>Ratio, Permutation and Combination</b> Ratio, Permutation & 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. Fundamental counting principle- factorial- permutation- restricted permutation- circular permutations- combination - restricted combinations - division into groups - mixed problems on permutation and combination.	08	Text Book
IV	<b>Sequence and Series - Its application to business</b> 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.	09	Text Book
V	<b>Compound Interest and Annuities</b> Interest - simple interest - compound interest - continuous compounding - present value and amount of a sum - annuity and its types - present value of an annuity - debenture.	11	Text Book
<b>Total</b>		<b>48</b>	

Text book	1.	Mariappan P, 2015, "Business Mathematics", First Edition, Pearson India education services Pvt. Ltd, New Delhi.
Reference Books	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.

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

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

## AECC I: ENVIRONMENTAL STUDIES

Semester	Course Code	Course Name	Category	L	T	P	Credits
I	25MBU1AA	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>		
<b>CO Number</b>	<b>Course Outcomes (Cos) Statement</b>	<b>Bloom's Taxonomy Knowledge Level</b>
<b>CO1</b>	To understand the importance of natural resources in order to conserve for the future	K1
<b>CO2</b>	To impart knowledge on Natural resources and its conservation	K2
<b>CO3</b>	To impart knowledge on Biodiversity and its conservation	K3
<b>CO4</b>	To create awareness on effects, causes and control of air, water, soil and noise pollution etc.,	K4
<b>CO5</b>	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	✓	✓	✓	✓	✓



**25MBU1AA - ENVIRONMENTAL STUDIES**  
**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; Indigenous knowledge used for sustainable forest use.	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.	Carson, R. 2002. <b>Silent Spring</b> . Houghton Mifflin Harcourt
	2.	Gadgil, M., & Guha, R. 1993. <b>This Fissured Land: An Ecological History of India</b> . Univ. of California Press.
Reference Books	1.	Gleeson, B. and Low, N. (eds.) 1999. <b>Global Ethics and Environment</b> , London, Routledge.
	2.	Gleick, P.H. 1993. <b>Water in Crisis</b> . Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press.
	3.	Groom, Martha J. Gary K. Meffe, and Carl Ronald carroll. 2006, <b>Principles of Conservation Biology</b> . Sunderland: Sinauer Associates.
	4.	Grumbine, R. Edward, and Pandit, M.K. 2013. <b>Threats from India's Himalaya dams</b> . Science, 339: 36-37.

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