

# 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. - KalapattiRoad, Coimbatore-641048, Tamil Nadu, India

Web: www.drngpasc.ac.in | Email: info@drngpasc.ac.in | Phone: +91-422-2369100

## REGULATIONS 2023-24 for Under Graduate Programme

(Outcome Based Education model with Choice Based Credit System)

Bachelor of Commerce with Business Analytics Degree

(For the students admitted during the academic year 2023-24 and onwards)

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 with Business Analytics Degree Examination of this Collegeafter 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	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 23-24 and onwards.

Credit distribution for all UG Programmes

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
	Core (Credits 4, 3)	15 x 4 2 x 3	66	I to VI
	Core Practical (Credits 2)	2	2x2=4	I, II
III (108	Inter Departmental Course (IDC))	4	4 x 4 =16	I to IV
Credits)	Discipline Specific Elective (DSE)	3	3x 4=12	V & VI
	Skill Enhancement Course (SEC)	4	4 x2=8	III to VI
	Industrial Training	1	2	V
	Environmental Studies (AECC)	1	2	I
IV (8 Credits)	Basic Tamil/Advanced 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		2	I,II
	TOTAL CREDITS		142	



# CURRICULUM 2023-24 Batch

B.COM. BUSINESS ANALYTICS

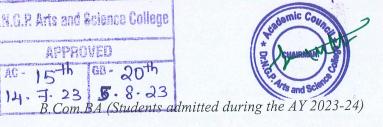
	Course					Exam		Max	Marks	
Course Code	Category	Course Name	L	T	P	(Hours)	CIA	ESE	Total	Credits
First Semester										
Part– I										
231TL1A1TA		Tamil-I								
231TL1A1HA		Hindi-I	4 1	1		3				
231TL1A1MA	Language-I	Malayalam-I			-		25	7.5	100	3
231TL1A1FA		French – I								
Part– II				George Contract		April 1985		attal.	151	
231EL1A1EA	Language-II	English – I	4	-	1	3	25	75	100	3
Part– III										
235PA1A1CA	Core - I	Financial Accounting	5	1	-	3	25	75	100	4
235BA1A1CA	Core - II	Fundamentals of Business Analytics	4	-	-	3	25	75	100	4
235BA1A1CP	Core Practical - I	Spreadsheet Modelling for Decision Analysis	-	-	4	3	40	60	100	2
232MT1A1IA	IDC - I	Business Mathematics	4		-	3	25	75	100	4
Part-IV						a di s				
233MB1A1AA	AECC-I	Environmental Studies	2	-		-	50	-	50	2
Part-V										
235BA1A1XA	Extension Activity	NSS/NCC/ YRC/RRC/ Yoga/Sports/ Clubs		-	-		50	-	50	1
	Total		23		2 5	5			700	23

BoS Chairman/HoD Department of Commerce (BA) Dr. N. G. P. Arts and Science College

Coimbatore - 641 048 Dr.NGPASC

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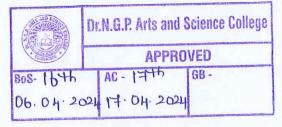


	C					Exam	Max Marks			
Course Code	Course Category	Course Name	L	T	P	(Hours)	CIA	ESE	Total	Credits
Second Semester	Cutegory									
Part-I										
231TL1A2TA		Tamil–II								
231TL1A2HA		Hindi-II								
231TL1A2MA		Malayalam-II	4	1	-	3	25	75	100	3
231TL1A2FA	- Language-I	French –II								
Part– II										
231EL1A2EA	Language-II	English -II	4	-	1	3	25	75	100	3
Part-III										
235BP1A2CA	Core - III	Advanced Financial Accounting	5	1	-	3	25	75	100	4
235BA1A2CA	Core - IV	Python for Data Analytics	4	-		3	25	75	100	4
235BA1A2CP	Core Practical -	Parthon for	-	-	4	3	40	60	100	2
232MT1A2IA	IDC - II	Business Statistics	4			3	25	75	100	4
Part-IV										
231TL1A2AA		Basic Tamil							AGF A	
231TL1A2AB	AECC-II	Advanced Tamil		-	_		50	-	50	2
235CR1A2AA		Human Rights and Women's Rights	2							
Part-V										
235BA1A2XA	Extension Activity	NSS/NCC /YRC/RR C/ Yoga/Sports/ Clubs	-	-	-	-	50	-	50	1
	Total		23	2	5		-	-	700	23

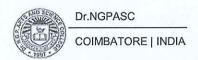
6 6 1	C	Course Name	L	TP	D	Exam	N	Iax M	arks	-Credits	
Course Code	Course Category	Course Name	L	1	r	(hours)	CIA	ESE	Total	-Creuns	
Third Semeste											
Part-I	1	We did to the									
231TL1A3TA		Tamil–III									
231TL1A3HA		Hindi-III	-							-	
231TL1A3MA	Language-I	Malayalam-III	3	1	-	3	25	75	100	3	
231TL1A3FA	Bunguage 1	French -III									
Part– II											
231EL1A3EA	Language-II	English -III	3	1	-	3	25	75	100	3	
Part– III										**	
235CM1A3CA	Core-V	Cost Accounting	5	-	-	3	25	75	100	4	
235BI1A3CB	Core-VI	Company Law	4		-	3	25	75	100	4	
235BA1A3CA	Core - VII	Modern Database	5	_	-	3	25	75	100	4	
235CO1A3IA	IDC – III	Business Economics	4	-	-	3	25	75	100	4	
235BA1A3SP	SEC Practical-I	DBMS (SQL, NoSQL,MongoDB)	-	-	4	3	40	60	100	2	
	Total		24	2	4	-		-	700	24	

M.S. 3-1-11/16

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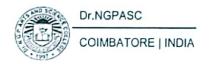
					_					
			_			Exam	IV.	lax M	arks	
Course Code		Course Name	L	T	P	(Hours)	CIA	ESE	Total	Credits
Fourth Semes	Category	,					CIA	ESE	Total	
Part-I										
Part-1		m 11 111								
231TL1A4TA		Tamil–IV								
22177111171	-	Hindi-IV	See							
231TL1A4HA		N/ I								
231TL1A4MA	Language-I	Malayalam-IV	3	1	-	3	25	75	100	3
231TL1A4FA	Language-1	French –IV	1							
2311LIA4FA										
					-					
Part– II										
		English -IV	3	1	_	3	25	75	100	3
Part-III	Language-II			•					100	
rait-III										
235PA1A4CA		Corporate Accounting	5	1	;-	3	25	75	100	4
	Core - VIII	Accounting								_
235BA1A4CA		Data Mining								
	Core – IX	and	4	-	-	3	25	75	no ada	
		Business						"	100	4
		Intelligence Principles of								
235BA1A4CB	Core -X	Management					25	75		
		- Tanagoment	4	_	-	3			100	4
232MT1A4IB	IDC – IV	Optimization	4	_	_	3	25	75	100	4
232WITIA4ID	IDC - IV	Techniques	4	1	-	3	23	/3	100	4
235BA1A4SP	OF OR IN 1	Data								
233271711101	SEC Practical- II	Visualization for Business	_	-	4	3			100	2
		Intelligence			,	,	40	60	100	
		Total	23	3	4				700	
		Total	23	3	4	-	-	-	700	24

BoS Chairman/HoD
Department of Commerce (BA)
Dr. N. G. P. Arts and Science College

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Course Code	Course Category	Course Name	L	Т	P	Exam (Hours)	N	Iax M	arks	Credits
Course Code		Course Ivame	L	1			CIA	ESE	Total	
Fifth Semester										
Part–III										
235BA1A5CA	Core – XI	R Programming	5	1	-	3	25	75	100	4
235AT1A5CA	Core - XII	Income Tax Law and Practice	5	1		3	25	75	100	4
235CO1A5CB	Core – XIII	Research Methodology	4	-	-	3	25	75	100	4
235BA1A5CB	Core – XIV	Auditing	4	_	-	3	25	75	100	3
235BA1A5SP	SEC Practical- III	R Programming for Data Analytics	-	-	4	3	40	60	100	2
235CM1A5DA		Financial Management								
235CI1A5DA		E-Business Technology								4
235CO1A5DA	DSE –I	Human Resource Management	4	-		3	25	75	100	
235BA1A5DA		Service Marketing								
235BA1A5TA	IT	Industrial Training	-	-	-	3	40	60	100	2
Part–IV										
	GE		-	-	2	-	50	T -	50	2
		Total	22	2	6				750	25

						Exam	Max Marks			G 1'4
Course Code	Course Category	Course Name	L	Т	P	(Hours)	CIA	ESE	Total	Credits
Sixth Semester										
Part-III										
235BA1A6CA	Core –XV	Management Accounting	5	-	-	3	25	75	100	4
235BA1A6CV	Core – XVI	Project and Viva-Voce	_	-	8	3	40	60	100	4
235BA1A6CB	Core -XVII	Big Data Analytics	3	-	-	3	25	75	100	3
235BA1A6SP	SEC Practical -IV	Statistical Package for Data Analysis	-	-	4	3	40	60	100	2
235FI1A6DA	DSE –II	Investment Management								
235CI1A6DA		Enterprise Resource planning								
235CO1A6DA	Begggs As in the Mile	Organizational Behaviour	4	-		3	25	75	100	4
235BI1A6DA		Retail Marketing								
235FI1A6DB	DSE –III	Security Analysis and Portfolio Management								
235CI1A6DB		Fundamentals of Informational Security								
235CO1A6DB		Industrial Relations and Labour law	4	-	-	3	25	75	100	4
235BA1A6DB	* P\$(0)	Social Media Marketing		2.7.		460			- K- / L-	
Part – IV		and through the state of	-							
235BI1A6AA	AECC-III	Innovation and IPR	2	_	-		50	-	50	2
		Total	18	0	1	2			650	23
				Crai	_ L L	Total	1		4200	142

# DISCIPLINE SPECIFIC ELECTIVE

Students shall select the desired course of their choice in the listed elective course during Semesters  $\mbox{\em V\&VI}$ 

# Semester V (Elective I)

## List of Elective Courses

S.No.	Course Code	Name of the Course
1	235CM1A5DA	Financial Management
2	235CI1A5DA	E-Business Technology
3	235CO1A5DA	Human Resource Management
4	235BA1A5DA	Service Marketing

# Semester VI (Elective II)

## **List of Elective Courses**

S.No.	Course Code	Name of the Course
1	235CM1A6DA	Investment Management
2	235CI1A6DA	Enterprise Resource planning
3	235CR1A6DA	Organizational Behaviour
4	235BI1A6DA	Retail Marketing

# Semester VI (Elective III)

### List of Elective Courses

S.No.	Course Code	Name of the Course
1	235FI1A6DB	Security Analysis and Portfolio Management
2	235CI1A6DB	Fundamentals of Information Security
3	235CO1A6DB	Industrial Relations and Labour law
4	235BA1A6DB	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	235BA1A5GA	Business Intelligence for Decision Making

### 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	235BA1ASSA	Brand Management
2	235BA1ASSB	Fundamentals of Banking

## CERTIFICATE PROGRAMMES

The following are the programme offered to earn extra credits

S. No.	Programme Code and Name	Course Code	Course Name
1	Certificate course on Financial Statement Analysis	235BA5A1CA	Financial Statement Analysis
2	Certificate course on Capital Market Analysis	235BA5B1CA	Capital Market Analysis

# **UG-REGULATION (R5)**

(2023-24 and onwards)

## (OUTCOME BASED EDUCATION WITH CBCS)

#### 1.NOMENCLATURE

- **1.1 Faculty**: Refers to a group of programmes concerned with a major division of knowledge Eg. Faculty of Computer Science consists of disciplines like Departments of Computer Science, Information Technology, Computer Technology, Computer Applications, Data Analytics, Cognitive Systems, Artificial Intelligence and Machine Learning and Cyber Security
- **1.2 Programme**: Refers to the Bachelor of Science / Commerce / Arts stream that a student has chosen for study.
- **1.3 Batch**: Refers to the starting and completion year of a programme of study. Eg. Batch of 2023–26 refers to students belonging to a 3 year Degree programme admitted in 2023 and completing in 2026.
- **1.4 Course**: Refers to component of a programme. A course may be designed to involve lectures / tutorials / laboratory work / seminar / project work/ practical training / report writing / Viva- voce, etc., or a combination of these, to meet effectively the teaching learning needs.
  - a) Core Course: A course, which should compulsorily be studied by a candidate as a core requirement
  - b) Inter Disciplinary Course (IDC): A course chosen generally from a related discipline/subject with an intention to seek exposure in the discipline relating to the core domain of the student
  - c) Discipline Specific Elective (DSE) Course: Elective courses offered under main discipline/ subject of study.
  - d) Skill Enhancement Courses (SEC): Value-based and/or skill-based courses which are aimed at providing hands-on-training, competencies, skills, etc.
  - e) Ability Enhancement Compulsory Courses (AECC): Mandatory courses that lead to Knowledge enhancement. Environmental Science, Human Rights and Women's Rights, Basic Tamil/ Advanced Tamil, Innovation and IPR, Innovation, IPR and Entrepreneurship.
  - f) Ability Enhancement Elective Course (AEEC)/Generic Elective (GE) An elective course chosen generally from an unrelated discipline/subject, with an intention to seek exposure is Generic Elective.

## 1.5 Project Work:

Course involving application of knowledge in problem solving / analyzing /exploring a real life situation / difficult problem. The Project work will be given in lieu of a Core paper.

## Internship/Industrial Training

Students must undertake industrial / institutional training for a minimum of 15 days during the IV semester summer vacation. The students will submit the report for evaluation during V semester.

#### 1.6 Extra Credits:

Extra credits shall be awarded for achievements in identified curricular/co-curricular/Extracurricular activities executed outside the regular class hours. Extra credits are not mandatory for completing the programme.

#### 2. STRUCTURE OF PROGRAMME

### 2.1 PART- I: LANGUAGE- I

Tamil or any one of the languages namely Malayalam, Hindi and French will be offered under Part – I in the first four semesters.

#### 2.2 PART- II: LANGUAGE- II

English will be offered during the first four semesters.

#### 2.3 PART-III:

- Core Course
- Inter Departmental Course (IDC)
- Discipline Specific Elective (DSE)
- Skill Enhancement Course (SEC)
- Industrial Training (IT)

### 2.4 PART- IV:

# 2.4.1 Ability Enhancement Compulsory Course (AECC):

The Ability Enhancement Compulsory Courses such as i)Environmental Studies, ii) Human Rights and Womens' Rights, iii) Innovation and IPR/ Innovation, IPR and Entrepreneurship are offered during I,II and VI Semester.

### Basic Tamil

a) Those who have not studied Tamil up to XII Std and taken a non-Tamil language under Part-I shall take oneBasic Tamil coursein the second semester.

(OR)

#### Advanced Tamil

b) Those who have studied Tamil up to XII Std and taken a non-Tamil language under Part-I shall take one Advanced Tamil course in the second semester.

**Note:** Students who come under the above a+b categories are exempted from Human Rights and Women's Rights in the second semester.

Ability Enhancement Elective Course (AEEC)/Generic Elective (GE) An elective course chosen generally from an unrelated discipline/subject, with an intention to seek exposure is Generic Elective offered in V semester. (Theory/Practical/Non-Lab Practical)

### 2.5 PART- V: EXTENSION ACTIVITIES

The following extracurricular activities like NSS/YRC/NCC/RRC/Yoga/Sports/Clubs are offered under extension activities during semester I & II. Students will be evaluated based on their active participation in any one of the above activities. 75% Attendance is compulsory for extension activity.

#### 3. CREDIT ALLOTTMENT

The following is the credit allotment:

Lecture Hours (Theory) : 1 credit per lecture hour per week

Laboratory Hours : 1 credit for 2 Practical hours per week

Project Work
 1 credit for 2 hours of project work per week

### 4. DURATION OF THE PROGRAMME

The B.A. /B.Com./B. Sc. Programme must be completed within 3 years (6 semesters) and a maximum of 6 years (12 semesters) from the date of acceptance to the programme. If not, the candidate must enroll in the course determined to be an equivalent by BoS in the most recent curriculum recommended for the Programme.

## 5.REQUIREMENTS FOR COMPLETION OF A SEMESTER

Every student shall ordinarily be allowed to keep terms for the given semester in a program of his/ her enrolment, only if he/ she fulfills at least seventy five percent (75%) of the attendance taken as an average of the total number of lectures, practicals, tutorials, etc. wherein short and/or long excursions/field visits/study tours organised by the college and supervised by the faculty as envisaged in the syllabus shall be credited to his/her attendance. Every student shall have a minimum of 75% as an overall attendance.

### 6. EXAMINATIONS

The end semester examinations shall normally be conducted after completing 90 working days for each semester. The maximum marks for each theory and practical course shall be 100 with the following breakup:

## a) Mark distribution for Theory Courses

Continuous Internal Assessment (CIA) : 25 Marks

End Semester Exams (ESE) : 75 Marks

Total : 100 Marks

## i) Distribution of Internal Marks

S.No.	Particulars	Distribution of Marks
1	CIA I (2.5 Units) (On completion of 45 <sup>th</sup> working day)	5
2	Model (All 5 Units) (On completion of 85 <sup>th</sup> working day)	5
3	Attendance	5
4	Library Usage	5
5	Skill Enhancement *	5

Total 25

#### Breakup for Attendance Marks:

S.No	Attendance Range	Marks Awarded
1	95% and Above	5
2	90% - 94%	4
3	85% - 89%	3
4	80% - 84%	2
5	75% - 79%	1

#### Note:

Special Cases such as NCC, NSS, Sports, Advanced Learner Course, Summer Fellowship and Medical Conditions etc. the attendance exemption may be given by principal and Mark may be awarded.

### Break up for Library Marks:

S.No	Attendance Range	Marks Awarded
1	10h and above	5
2	9h- less than 10h	4
3	8h – less than 9h	3
4	7h - less than 8h	2
5	6h – less than 7h	1

#### Note:

In exception, the utilization of e-resources of library will be considered.

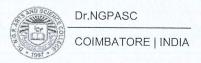
# \*Components for "Skill Enhancement" may include the following:

Class Participation, Case Studies Presentation/term paper, Field Study, Field Survey, Group Discussion, Term Paper, Presentation of Papers in Conferences, Industry Visit, Book Review, Journal Review, e-content Creation, Model Preparation, Seminar and assignment.

## Components for Skill Enhancement

Any one of the following should be selected by the course coordinator

S.No.	Skill Enhancement	Description
1	Class Participation	<ul><li>Engagement in class</li><li>Listening Skills</li><li>Behaviour</li></ul>
2	Case Study Presentation/ Term Paper	<ul> <li>Identification of the problem</li> <li>Case Analysis</li> <li>Effective Solution using creativity/imagination</li> </ul>
3	Field Study	<ul><li>Selection of Topic</li><li>Demonstration of Topic</li><li>Analysis &amp; Conclusion</li></ul>
4	Field Survey	<ul><li>Chosen Problem</li><li>Design and quality of survey</li><li>Analysis of survey</li></ul>
5	Group Discussion	<ul> <li>Communication skills</li> <li>Subject knowledge</li> <li>Attitude and way of presentation</li> <li>Confidence</li> <li>Listening Skill</li> </ul>
6	Presentation of Papers in Conferences	<ul> <li>Sponsored</li> <li>International/National</li> <li>Presentation</li> <li>Report Submission</li> </ul>
7	Industry Visit	<ul><li>Chosen Domain</li><li>Quality of the work</li></ul>



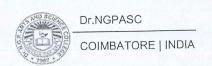
		<ul><li>Analysis of the Report</li><li>Presentation</li></ul>
8	Book Review	<ul> <li>Content</li> <li>Interpretation and Inferences of the text</li> <li>Supporting Details</li> <li>Presentation</li> </ul>
9	Journal Review	<ul> <li>Analytical Thinking</li> <li>Interpretation and Inferences</li> <li>Exploring the perception if chosen genre</li> <li>Presentation</li> </ul>
10	e-content Creation	<ul> <li>Logo/ Tagline</li> <li>Purpose</li> <li>Content (Writing, designing and posting in Social Media)</li> <li>Presentation</li> </ul>
11	Model Preparation	<ul><li>Theme/ Topic</li><li>Depth of background Knowledge</li><li>Creativity</li><li>Presentation</li></ul>
12	Seminar	<ul><li>Knowledge and Content</li><li>Organization</li><li>Understanding</li><li>Presentation</li></ul>
13	Assignment	<ul><li>Content and Style</li><li>Spelling and Grammar</li><li>References</li></ul>

ii) Distribution of External Marks (ESE)

Total : 75 Written Exam : 75

Marks Distribution for Practical course

Total : 100 Internal : 40 External : 60



# i) Distribution of Internals Marks

S.No.	Particulars	Distribution of Marks
1	Experiments/Exercises	15
2	Test 1	10
3	Test 2	10
4	Observation Notebook	05

Total 40

# ii) Distribution of Externals Marks

S.No.	Particulars	External Marks
1	Practical	40
2	Record	10
3	Viva- voce	10

Total 60

Practical examination shall be evaluated jointly by Internal and External Examiners

# Mark Distribution for Project/ Internship/ Industrial Training

Total : 100 Internal : 40

External: 60

### i) Distribution of Internal Marks

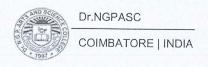
S.No.	Particulars	Internal Marks
1	Review I	15
2	Review II	20
3	Attendance	5

Total 40

## ii) Distribution of External Marks

S.No	Particulars	External Marks
1	Project Work /Internship /Industrial training Presentation	40
2	Viva -voce	20
	Total	60

Evaluation of Project Work/Internship/ Industrial training shall be shall be done jointly by Internal and External Examiners.



## 7. Credit Transfer

**a.** Upon successful completion of 1 NPTEL Course (4 Credit Course) recommended by the department, during Semester I to IV, a student shall be eligible to get exemption of one 4 credit course during the V or VI semester. The proposed NPTEL course should cover content/syllabus of exempted core paper in V orVI semester.

S. No.	Course Code	Course Name	Proposed NPTEL Course	Credit
1			Option – 1 Paper title	4
			Option – 2 Paper title	
			Option – 3 Paper title	

b. Upon successful completion of 2 NPTEL Courses (2 Credit each) recommended by the department, during Semester I to IV, a student shall be eligible to get exemption of one 4 credit course during the V or VI semester. Out of 2 NPTEL proposed courses, atleast 1 course should cover content/syllabus of exempted core paper in V orVI semester.

### Mandatory

The exempted core paper in the V or VI semester should be submitted by the students for approval before the end of  $4^{\rm th}$  semester

Credit transfer will be decided by equivalence committee

S. No.	Course Code	Course Name	Proposed NPTEL Course	Credit
1			Option – 1 Paper title	
			Option – 2 Paper title	2
			Option - 3 Paper title	
2		ONE OF THE PARTY OF THE	Option - 1 Paper title	2
			Option - 2 Paper title	
			Option – 3 Paper title	

S.No.	Student Name	Class	Propo	Proposed Course for Exemption	
			Course I	Option 1- Paper Title Option 2- Paper Title Option 3- Paper Title	Any one Core Paper in
			Course II	Option 1- Paper Title Option 2- Paper Title Option 3- Paper Title	V or VÎ semester

#### 8. Innovations

Upon Successful outcome of Design Thinking / Copy right/Product/ Patent by the end of the V Semester, student shall be eligible to get exemption in AECC: Innovation, IPR & Entrepreneurship / Innovation & IPR offered during VI Semester.

### 9.Internship/Industrial Training

Students must undertake industrial / institutional training for a minimum of 15 days during the IV semester summer vacation. The students shall submit the report for evaluation during V semester.

#### 10. Extra Credits: 10

Earning extra credit is not essential for programme completion. Student is entitled to earn extra credit for achievement in Curricular / Co-Curricular / Extracurricular activities carried out other than the regular class hours.

A student is permitted to earn a maximum of Ten extra Credits during the programme period.

# A maximum of 1 credit under each category is permissible.

Category	Credit
Proficiency in foreign language	1
Proficiency in Hindi	1
Self study Course	
Typewriting/Short hand	1
CA/ICSI/CMA (Foundations)	1
CA/ICSI/CMA(Inter)	1
Sports and Games	1
Publications / Conference Presentations	1
(Oral/Poster)	
Lab on Project	1
Innovation / Incubation / Patent / Sponsored Projects / Consultancy	1
Representation in State / National level celebrations	1
Awards/Recognitions/Fellowships	night 1

Credit shall be awarded for achievements of the student during the period of study only.

#### **GUIDELINES**

## Proficiency in foreign language

A pass in any foreign language in the examination conducted by an authorized agency.

#### Proficiency in Hindi

A pass in the Hindi examination conducted by Dakshin Bharat Hindi Prachar Sabha.

Examination passed during the programme period only will be considered for extra credit.

### Self study Course

A pass in the self study courses offered by the department.

The candidate should register the self study course offered by the department only in the III semester.

### Typewriting/Short hand

A Pass in short hand /typewriting examination conducted by Tamil Nadu Department of Technical Education (TNDTE) and the credit will be awarded.

#### CA/ICSI/CMA(Foundations)

Qualifying foundation in CA/ICSI/CMA / etc.

### CA/ICSI/CMA(Inter)

Qualifying Inter in CA/ICSI/CMA / etc.

#### Sports and Games

Students can earn extra credit based on their achievements in sports in University/State / National/ International levels.

# Publications / Conference Presentations (Oral/Poster)

Research Publications in Journals oral/poster presentation in Conference

#### Lab on Project (LoP)

To promote the undergraduate research among all the students, the LoP is introduced beyond their regular class hours. LoP is introduced as group project consisting of not more than five members. It consist of four stages namely Literature collection, Identification of Research area, Execution of research and Reporting / Publication of research reports/ product developments. These four stages spread over from III to IV semester.

#### (Evaluation will be done internally)

## Innovation / Incubation / Patent / Sponsored Projects / Consultancy

Development of model/ Products / Prototype / Process/App/Registration of Patents/ Copyrights/Trademarks/Sponsored Projects / Consultancy

## Representation in State/ National level celebrations

State / National level celebrations such as Independence day, Republic day Parade, National Integration camp.

## Awards/Recognitions/Fellowships

Regional/ State / National level awards/ Recognitions/Fellowships

#### **GUIDELINES**

#### 100 % CIA Courses:

- AECC
- AEEC

	Type of Course
S.No	
1	Environmental Studies (AECC)
2	Human Rights and Women's Rights, Basic Tamil / Advanced Tamil (AECC)
3	Innovation &IPR/ Innovation, IPR and Entrepreneurship(AECC)
4	Generic Elective (AEEC)

# Modalities for Implementing Internal Assessment Marks:

- Student pertaining to 2023 Batch (2023-26) UG programme for the above mentioned courses shall secure a minimum of 40% out of the maximum marks in the continuous internal assessment (CIA) i.e., 20 marks out of 50 marks.
- Students who have not acquired the minimum marks shall be allowed to reappear to improve their marks in the exam components only within the time duration of the programme, in the forthcoming semesters.

## Distribution of Internal Marks for AECC & AEEC

S.No.	Particulars	Distribution of Marks
1	CIA I (2.5 Units) (On completion of 45th working day)	15
2	Model (All 5 Units) (On completion of 85th working day)	15
3	Assignment	05
4	Attendance	.05
5	Library Usage	05
6	Skill Enhancement *	05
	Total	50

# Distribution of Internal Marks for Generic Elective (AEEC) (Practical)

S.No.	Particulars	Distribution of Marks
1	CIA -I (1-5 Exercise)	5
2	CIA-II (6-10 Exercise)	5
3	Class Participation	10
4	Practical Record	10
5	Test-III & Viva -Voce(10+10)	20
	Total	50

# Question paper pattern AECC & AEEC

Test	MARKS	DESCRIPTION	TOTAL	Remarks
CIA Test I 1 Hour First 2.5 Units	50 x 1 = 50 Marks	MCQ	50 Marks	Marks secured will be Converted to 15 marks
CIA test II/ Model test 1 Hour All five Units	50 x 1 = 50 Marks	MCQ	50 Marks	Marks secured will be Converted to 15 marks

Question paper pattern	Total Marks - 50	
Basic Tamil	Advanced Tamil	
Section -A	Section -A	
Choose the correct answer $10x2=20$	Choose the correct answer 10x1=10	
Section -B	Section -B	
True or false 10x2=20	Fill in the blanks 10x2=20	
Section -C	Section -C	
Answer in one page 1x10=10	Write an essay in two pages 2x10=20	

# Question paper pattern for all other courses falling under Part I to Part III

# CIA I : [1 1/2 Hours-2.5 Units] - 25 Marks

SECTION	MARKS	DESCRIPTION	TOTAL	Remarks
Section - A	$8 \times 0.5 = 04 \text{ Mark}$	MCQ		Marks secured
Section - B	$3 \times 3 = 09 \text{ Mark}$	Answer ALL Questions	25 Mark	will be
Section - C	2 x 6 = 12 Mark	Either or Type ALL  Questions Carry Equal		converted To 5
		Marks		mark

# CIA II/Model: [3 Hours-5 Units] - 75 Mark

SECTION	MARKS	DESCRIPTION	TOTAL	Remarks
Section – A	$10 \times 1 = 10 \text{ Mark}$	MCQ		Marks secured will be
Section - B	5 x 5 = 25 Mark	Answer ALL Questions (Either or Type Questions) 75 Mar	75 Mark	
Section - C	5 x 8 = 40 Mark	Each Questions Carry Equal  Mark		converted To 5 mark

# End Semester Examination: [3 Hours-5 Units] - 75 Mark

SECTION	MARKS	DESCRIPTION	TOTAL
Section - A	10 x 1 = 10 Mark	MCQ	
Section - B	$5 \times 5 = 25 \text{ Mark}$	Answer ALL Questions (Either or Type Questions)	75 Mark
Section - C	$5 \times 8 = 40 \text{ Mark}$	Each Questions Carry Equal Mark	

Course Code	Course Name	Category	L	T	P	Credit
231TL1A1TA	TAMIL - I	LANGUAGE- I	4	1	-	03

#### PREAMBLE

This course has been designed for students to learn and understand

- மொழிப்பாடங்களின் வாயிலாக தமிழரின் பண்பாடு நாகரீகம், பகுத்தறிவு ஆகியவற்றை அறியச் செய்தல்
- கலை மற்றும் மரபுகளை அறியச் செய்தல்
- மாணவர்களின் படைப்பாக்கத்திறன்களை ஊக்குவித்தல்

#### **COURSE OUTCOMES**

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	வாழ்க்கைத் திறன்கள் (Life Skills)- மாணவர்களின் செயலாக்கத் திறனை ஊக்குவித்தல்	К3
CO2	மதிப்புக்கல்வி (Attitude and Value education)	K4
CO3	பாட இணைச்செயல்பாடுகள் (Co-curricular activities)	K4
CO4	குழலியல் ஆக்கம் (Ecology)	K4
CO5	மொழி அறிவு (Tamil knowledge)	K5

#### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1	<b>√</b>	Carrier Many Carrier			
CO2	<b>✓</b>			<b>√</b>	<b>/</b>
CO3		<b>√</b>	<b>√</b>	<b>√</b>	
CO4	an Carrier and Section	<b>√</b>		<b>/</b>	<b>/</b>
CO5			1		

### COURSE FOCUSES ON

✓ Skill Development	✓ Entrepreneurial Development
Employability	Innovations
✓ Intellectual Property Rights	✓ Gender Sensitization
Social Awareness/ Environment	Constitutional Rights/ Human Values/ Ethics

		到你一直到 对外联环的
231TL1A1TA	TAMIL - I	SEMESTER I

Total Credits: 3

Total Instruction Hours: 60 h

Syllabus

Unit I **மறுமலர்ச்சிக் கவிதைகள்** 13 h 1. இலக்கிய வரலாறு - மறுமலர்ச்சிக் கவிஞர்களின் தமிழ்ப்பணிகள்

2. பாரததேசம் - பாரதியார் 3. படி - பாரதிதாசன்

4. தமிழரின் பெருமை - நாமக்கல் கவிஞர் 5. தமிழ்க் கொலை புரியாதீர் - புலவர் குழந்தை

6. திரைத்தமிழ் அ) 'விஞ்ஞானத்த வளர்க்கப் போறண்டி' எனத் தொடங்கும் பாடல் -உடுமலை

நாராயண கவி ஆ) 'சும்மா கிடந்த நிலத்தை' எனத் தொடங்கும் பாடல்

பட்டுக்கோட்டை கல்யாண சுந்தரனார்

இ) 'சமரசம் உலாவும் இடமே' எனத் தொடங்கும் பாடல் - மருதகாசி

ா) 'உன்னை அறிந்தால்' எனத் தொடங்கும் பாடல் கண்ணதாசன்

# Unit II புதுக்கவிதைகள்

Construction was a state of the state of

1. இலக்கிய வரலாறு - புதுக்கவிதையின் தோற்றமும் வளர்ச்சியும் 2. கடமையைச் செய் - மீரா

3. மலையாளக் காற்று - சிற்பி 4. ஒப்பிலாத சமுதாயம் - அப்துல் ரகுமான்

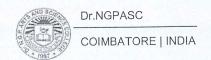
4. ஒப்பிலாத சமுதாயம் - அப்துல் ரடுமான 5. கன்னிமாடம் - மு.மேத்தா

6. கரிக்கிறது தாய்ப்பால் - ஆரூர் தமிழ்நாடன் 7. ஐந்தாம் வகுப்பு 'அ' பிரிவு - நா. முத்துக்குமார் 8. ஹைகூ கவிதைகள் - 10 கவிதைகள்

Unit III பெண்ணியம்

09 h

13 h



1. தொலைந்து போனேன்

- தாமரை - அ. வெண்ணிலா

2. நீரில் அலையும் முகம்

- பொன்மணி வைரமுத்து

3. தற்காத்தல் - ெ 4. ஏனிந்த வித்தியாசங்கள் ?

- மல்லிகா

5. புதையுண்ட வாழ்க்கை

- சுகந்தி சுப்ரமணியன்

# Unit IV சிறுகதைகள்

15 h

1. இலக்கிய வரலாறு

- சிறுகதையின் தோற்றமும் வளர்ச்சியும்

2. கனகாம்பரம்

- கு.ப.ராஜகோபாலன்

3. ஆற்றங்கரைப் பிள்ளையார் - புதுமைப்பித்தன்

4. பொம்மை

- ஜெயகாந்தன்

5. காய்ச்சமரம்

- கி. ராஜநாராயணன்

6. காட்டில் ஒருமான்

- அம்பை

7. வேட்கை

- தூர்யகாந்தன்

# Unit V பயிற்சிப் பகுதி

10 h

# அ. இலக்கணம்

1. வல்லின ஒற்று மிகும், மிகா இடங்கள் - ஒற்றுப்பிழை நீக்கி எழுதுதல்

2. ர,ற-ல,ழ,ள் - ண,ந,ன வேறுபாடு - ஒலிப்பு நெறி, சொற்பொருள் வேறுபாடு அறிதல்)

# ஆ. படைப்பாக்கம்

1. கவிதை - எழுதுதல்

(15 வரிகள் முதல் 30 வரிகள் வரை)

2.சிறுகதை - எழுதுதல்

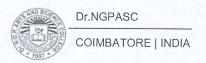
(குறைந்தது 3 பக்கங்கள்)

#### **Text Book**

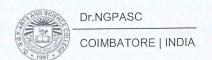
தமிழ் மொழிப்பாடம் - 2022-2023, தொகுப்பு: தமிழ்த்துறை, டாக்டர் என்.ஜி.பி. கலை அறிவியல் கல்லூரி, கோயம்புத்தூர் – 641048, வெளியீடு: நியூ செஞ்சுரி புக் ஹவுஸ், சென்னை – 600 098.

## References

- பராசிரியர் புலவர் சோம. இளவரசு, எட்டாம் பதிப்பு 2014, தமிழ் இலக்கிய வரலாறு – மணிவாசகர் பதிப்பகம், சென்னை – 600 108.
- பேராசிரியர் முனைவர் பாக்கியமேரி, முதற் பதிப்பு 2013, <sup>2</sup> இலக்கணம் - இலக்கிய வரலாறு - மொழித்திறன் - பூவேந்தன் பதிப்பகம், சென்னை-600 004.



3 இணையதள முகவரி: https://www.tamilvu.org



Course Code	Course Name	Category	L	Т	P	Credit
231TL1A1HA	HINDI-I	LANGUAGE-1	4	1	-	3

#### **PREAMBLE**

This course has been designed for students to learn and understand

- The writing ability and develop reading skill
- The various concepts and techniques for criticizing literature
- The techniques for expansion of ideas and translation process

### **COURSE OUTCOMES**

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Learn the fundamentals of novels and stories	K1
CO2	Understand the principles of translation work	K2
CO3	Expose the knowledge writing critical views on fiction	K2
CO4	Build creative ability	КЗ
CO5	Apply the power of creative reading	K3

#### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1		<b>√</b>		<b>✓</b>	
CO2	<b>✓</b>		<b>√</b>		✓
CO3		✓		✓	
CO4	<b>✓</b>		1	<b>√</b>	
CO5	<b>√</b>	<b>✓</b>			<b>√</b>

#### **COURSE FOCUSES ON**

✓ Skill Development	✓ Entrepreneurial Development
Employability	Innovations
✓ Intellectual Property Rights	✓ Gender Sensitization
Social Awareness/ Environment	Constitutional Rights/ Human Values/

231TL1A1HA HINDI-I SEMESTER I

Total Credits: 3

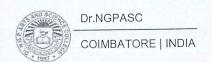
Total Instruction Hours: 60 h

# Syllabus

13 h Unit I गद्य - नूतनगद्यसंग्रह(जयप्रकाश)पाठ 1- रजियापाठ 2- मक्रीलपाठ 3- बहतापानीनिर्मला पाठ ४- राष्ट्रपितामहात्मागाँधी 13 h Unit II कहानीकुंज- डाँवी.पी. 'अमिताभ' (पाठ 1-4) 12 h Unit III ट्याकरण: शब्दविचार (संज्ञा, सर्वनाम,विशेषण) 12 h Unit IV अन्च्छेद लेखन 10 h Unit V अनुवाद अभ्यास-III (केवल अंग्रेजी से हिन्दी में) (पाठ 1 to 10)

### **Text Books**

- प्रकाशकः सुमित्रप्रकाशन 204 लीलाअपार्ट्मेंट्स, 15 हेस्टिंग्सरोड'अशोकनगरइलाहाबाद-211001
- 2 प्रकाशकः गोविन्दप्रकाशनसदरबाजार, मथुराउत्तरप्रदेश-281001
- 3 प्स्तकः व्याकरण प्रदिप रामदेवप्रकाशकः हिन्दी भवन 36 टेगोर नगर इलाहाबाद-211024
- 4 प्रतकः व्याकरण प्रदिप रामदेवप्रकाशकः हिन्दी भवन ३६ इलाहाबाद-२११०२४
- 5 प्रकाशक: दक्षिण भारत प्रचार सभा चेनैई -17



Course Code	Course Name	Category	L	T	P	Credit
231TL1A1MA	MALAYALAM- I	LANGUAGE - I	4	1	-	3

#### **PREAMBLE**

This course has been designed for students to learn and understand

- 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

### **COURSE OUTCOMES**

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Learn the fundamentals of novels and stories	K1
CO2	Understand the principles of translation work	K2
CO3	Expose the knowledge writing critical views on fiction	K2
CO4	Apply creative ability	K3
CO5	Build the power of creative reading	K3

#### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1			<b>√</b>	<b>✓</b>	✓
CO2	<b>√</b>	<b>√</b>			Catalog a Service
CO3			<b>√</b>	<b>√</b>	
CO4					<b>√</b>
CO5	<b>√</b>	1	/		

#### COURSE FOCUSES ON

<b>/</b>	Skill Development	<b>/</b>	Entrepreneurial Development
<b>V</b>	Employability	<b>/</b>	Innovations
<b>✓</b>	Intellectual Property Rights	<b>✓</b>	Gender Sensitization
<b>√</b>	Social Awareness/ Environment	✓	Constitutional Rights/ Human Values/ Ethics

		Sec Chillian			
231TL1A1M	A	MALAYALAM - I		SEMES	TER I
			Total	Credits:	3
			Total Instruction	n Hours:	60 ḥ
		Syllabus			
Unit I	Novel				14 h
Pathummayı	ude Adu				
Unit II	Novel				10 h
Pathummay	ude Adu				
Unit III	Short Story				14 h
Nalinakanth	i				
Unit IV	Short Story				10 h
Nalinakanth	i				
Unit V	Practical Application	on			12 h

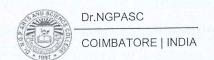
### **Text Books**

- Vaikkam Muhammed Basheer, "Pathummayude Adu" (NOVEL), DC Books & Kottayam
- 2 T.Padmanabhan, "Nalinakanthi" (Short Story), DC Books & Kottayam.

## References

- 1 Malayala Novel Sahithyam.
- 2 Malayala Cherukatha Innale Innu.

Expansion of ideas, General Essay and Translation



Course Code	Course Name	Category	L	Т	P	Credit
231TL1A1FA	FRENCH - I	LANGUAGE - I	4	1	-	3

#### PREAMBLE

This course has been designed for students to learn and understand

- 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

#### **COURSE OUTCOMES**

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Learn the Basic verbs, numbers and accents	K1
CO2	Apply the adjectives and the classroom environment in France	K2
CO3	Select the Plural, Articles and the Hobbies	K2
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	K3

#### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1	✓	✓			1
CO2			✓		
CO3	<b>√</b>	<b>✓</b>		<b>√</b>	
CO4	✓	<b>√</b>	1		✓
CO5				<b>√</b>	1

#### **COURSE FOCUSES ON**

✓	Skill Development	✓	Entrepreneurial Development
✓	Employability	✓	Innovations
	Intellectual Property Rights	✓	Gender Sensitization
✓	Social Awareness/ Environment	✓	Constitutional Rights/Human Values/ Ethics

231TL1A1FA FRENCH - I SEMESTER I

Total Credits: 3

Total Instruction Hours: 60 h

# Syllabus

# Unit I Salut I Page 10

12 h

Objectifs de Communication	Tâche	Activités de réception et de production orale
<ul> <li>Saluer</li> <li>Enter en contact</li> <li>avec quelqu'un.</li> <li>Se presenter.</li> <li>S'excuser</li> </ul>	En cours de cuisine, premiers contacts avec les members d'un groupe	<ul> <li>Comprendre des personnes qui se saluent.</li> <li>Ēchanger pour entrer en contact, se présenter, saluer, s'excuser.</li> <li>Communiquer avec tu ou vous.</li> <li>Comprendre les consignes de classe</li> <li>Ēpeler son nom et son prénom.</li> <li>Computer jusqu'à 10.</li> </ul>

# Unit II Enchanté I Page 20

12 h

Objectifs de Communication	Tâche	Activités de réception et de production orale
<ul> <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> <li>Comprendre les informations essentielles dans un échange en milieu professionnel.</li> <li>Ēchanger pour se presenter et présenter quelqu'un.</li> </ul>

# Unit III J'adore I Page 30

12 h

Objectifs de Communication	Tâche	Activités de réception et de production orale
• Exprimer ses gouts.	Dans un café, participer à une soirée de rencontres rapides et remplir de taches d'appréciation	<ul> <li>Dans une soirée de recontres rapid 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>

Objectifs de Communication	Tâche	Activités de réception et de production orale
Présenter quelqu'un	Dans un café, participer à une soirée de rencontres rapides et remplir de taches d'appréciation	<ul> <li>Exprimer ses goûts</li> <li>Comprendre une demande laissée sur un répondeur téléphonique.</li> <li>Parler de ses projets de week-end</li> </ul>
Autoévaluation du module I Pa	age 40 – Préparation au DELF.	A1 page 42
Demander à quelqu'un de faire quelque chose.  Demander poliment.	Organiser un programme d'activités pour accueillir une personne importante	Comprendre une personne demande un service à quelqu'un.
Parler d'actions passes. Tu veux bien?		Demander à quelqu'un de faire quelque chose. Imaginer et raconter au passé à partir de situations dessinées.

# Unit V Practical Application

10 h

Make in Own Sentences

## **Text Book**

Regine Merieux, Yves Loiseau. 2012. LATITUDES – 1: Méthode de français (Page No: 9-55) Les Editions Dider, Paris, Imprime en Roumanie par Canale en Janvier

Course Code	Course Name	Category	L	Т	P	Credit
231EL1A1EA	ENGLISH - I	LANGUAGE- II	4	-	1	3

This course has been designed for students to learn and understand

- the effect of dialogue, imagery and varied genres
- any spontaneous spoken discourse and respond to them with proper sentence structure
- the transactional concept of English language

### **COURSE OUTCOMES**

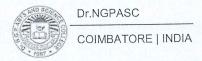
On the successful completion of the course, students will be able to

CO Number	CO Statement	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	КЗ
CO5	Prepare modules with their own ideas and present them coherently in a grammatically correct form	K3

# MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1				<b>✓</b>	<b>✓</b>
CO2	<b>✓</b>	The state of the s			✓
CO3	<b>√</b>		<b>✓</b>	<b>√</b>	
CO4		<b>✓</b>	<b>✓</b>		
CO5	<b>✓</b>	<b>✓</b>			<b>/</b>

# COURSE FOCUSES ON ✓ Skill Development ✓ Entrepreneurial Development ✓ Innovations ✓ Intellectual Property Rights ✓ Gender Sensitization ✓ Social Awareness/ Environment ✓ Constitutional Rights/ Human Values/ Ethics



231EL1A1EA

**ENGLISH-I** 

SEMESTER I

Total Credits: 3

Total Instruction Hours: 60 h

# Syllabus

# Unit I Genre Studies

12 h

Nissim Ezekiel: The Worm- Author's Biography- title indications- outline-paraphrasing the poem- context of poem- form- poetic devices- enjambment-techniques- Annotations

Niyi Osundare: Our Earth Will Not Die- Author's Biography- title indicationsoutline- paraphrasing the poem- context of poem- form- poetic devicesenjambment- techniques- Annotations

A. G. Gardiner: On Superstitions- Author's biography- Narrative structure-Exploration of the text- passage analysis- insight of ideas- cohesion and contextstyle- language techniques- Annotation

Nancy Bella: Clever Thief- Author's Biography- Plot Summary- Detailed summary and Analysis- Themes- Important Quotations- Characters- Description - analysis- Terms- Symbols- Critical analysis

H. G. Wells: The Truth about Pyecraft- Author's Biography-narrative structure-passage analysis- insight of ideas- cohesion and context- style- language techniques

# Unit II Listening Skills

12 h

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)

# Unit III Speaking Skills

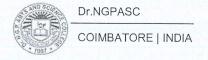
14 h

Formal occasions- Introducing oneself, Introducing others, Enquiries and Seeking permission, 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

# Unit IV Reading Skills

10 h

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

# Unit V Writing Skills

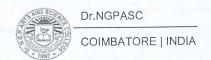
12 h

Sentence patterns, Note- making and note taking-Strategies - Paragraph writing: Structure and Principles - Academic Writing - Formal and Informal Letters, Report, Book / Movie Review

# **Text Books**

- Gardiner, A. G. 1926. Alpha of the Plough: Second series, J.M. Dent & Sons Ltd., London, United Kingdom. pg.no-151-156. (Unit I)
- Ezekiel, Nissim. "The Worm," Crazy Romantic Love, www. mianmawaisarain.live/2020/05/poem-worm-nissim-ezekiel.html. Accessed
- mianmawaisarain.live/2020/05/poem-worm-nissim-ezekiel.html. Accessed 3 Aug. 2022. (Unit I)
- 3 < http://livros01.livrosgratis.com.br/ln000835.pdf /> (Unit I)
- Mithra, S. M. 1919. Hindu Tales from the Sanskrit, Macmillan & Co Ltd., London, United Kingdom. pg.no-127-142. (Unit I)
- Nation, I. S. P and Jonathan Newton. 2009. Teaching ESL/EFL Listening and Speaking. Routledge, New York, United States. (Unit II)
- Prabha, Dr. R. Vithya & S. Nithya Devi. 2019. Sparkle. (1st Edn.) McGraw Hill Education, Chennai, India. (Unit III– V)

- Our Earth Will Not Die By Niyi Osundare." Studocu.Com, studocu.com 1 /in/document/bangalore-university/bachelor-of-computer-applications /1586771577-our-earth-will-not-die/27675462. Accessed 3 Aug. 2022.
- OnSuperstitions."THEHISTORIAN,thehistorian1947.wordpress.com/2019/0 3/08/on-superstitions-by-a-g-gardiner. Accessed 3 Aug. 2022.
- Swales, John M. & Feak, Christine B. 2012. Academic Writing for Graduate Students: Essential Tasks and Skills, University of Michigan Press, Michigan, United States.
- Rudzka, Brygida -Ostyn, 2003. Word Power: Phrasal Verbs and Compounds: A Cognitive Approach, Mouton de Gruyter, New York, United States.



Course Code	Course Name	Category	L	Т	P	Credit
235PA1A1CA	FINANCIAL ACCOUNTING	CORE	5	1	-	4

This course has been designed for students to learn and understand

- the basic concepts of accounting, prepare the final accounts and methods of providing depreciation accounting.
- the recording transactions relating to bills, methods of preparation of account current and find out the average due date.
- the knowledge about accounting treatment in the books of the Consignor and Consignee and methods of recording sale or return transactions.

### **COURSE OUTCOMES**

On the successful completion of the course, students will be able to

CO Number	CO Statement	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 PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1	/	✓	✓ ·	1	
CO2	1	✓		1	<b>✓</b>
CO3	1		✓ ×		<b>√</b>
CO4	<b>/</b>	<b>✓</b>		✓ white white	
CO5	1	<b>√</b>	<b>√</b>	<b>√</b>	The second second

<b>/</b>	Skill Development	<b>✓</b>	Entrepreneurial Development
<b>✓</b>	Employability	<b>/</b>	Innovations
	Intellectual Property Rights		Gender Sensitization
7	Social Awareness/ Environment		Constitutional Rights/ Human Values/ Ethics

235PA1A1CA

# FINANCIAL ACCOUNTING

SEMESTER I

Total Credits: 4

Total Instruction Hours: 72 h

# Syllabus

# Unit I Introduction to Accounting and Final Accounts

14 h

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

# Unit II Bank Reconciliation Statement and Depreciation

16 h

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

# Unit III Bills of Exchange

15 h

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

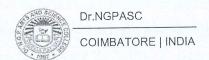
# Unit IV Account Current and Average Due Date

12 h

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.

Unit V Accounting for Consignments and Goods Sent on Sale or Return Basis 15 h

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

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

Case study (CIA Assessment)

### **Text Books**

- Reddy, T.S. and Murthy, A. 2016. Advanced Accountancy [Second Revised Edition]. Margham Publications, Chennai.
- Jain, S.P., and Narang, K.L 2019, Advanced Accountancy Principles of Accounting Including GST Volume I [Twentieth Revised Edition]. Kalyani Publishers, New Delhi.

- Shukla M.C Grewal T.S Gupta S.C. 2016. Advanced Accounts Volume I [Nineteenth Edition]. S.Chand & Company Pvt Ltd, New Delhi.
- 2 Hanif., and Mukherjee, 2015. Modern Accountancy, (Volume I) [Second Edition]. Tata Mcgraw Hill Publishing Co.Ltd., Chennai.
- Arulandam. M.A and Ramaan.K.S, 2014. Advanced Accountancy. [Revised Edition]. Himalaya Publishing House, Mumbai.
- Pillai. R.S.N and Bagavathi, Uma.S. 2012. Fundamentals of Advanced Accounting (Volume I). [Third Revised Edition]. Sultan Chand & Company Ltd, New Delhi.

Course Code	Course Name	Category	L	Т	P	Credit
235BA1A1CA	FUNDAMENTALS OF BUSINESS ANALYTICS	CORE	4	-	-	4

This course has been designed for students to learn and understand

- understand the Basic Concept of business analytics
- know about the Digital Data and Data Modeling
- aware about the Enterprise Reporting and Applications of Analytics

### **COURSE OUTCOMES**

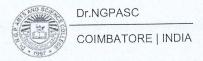
On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Know the concepts, Role of Business Analyst, Rules of Business & Business Analysis	К3
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 PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1			<b>✓</b>		<b>✓</b>
CO2	✓	Fine zilve)		1	
CO3	:400 STUNY 849	<b>✓</b>			
CO4			<b>✓</b>	<b>√</b>	<b>√</b>
CO5	<b>√</b>				jenski nimiter e s

ocuses on		
Skill Development	<b>✓</b>	Entrepreneurial Development
Employability	<b>✓</b>	Innovations
Intellectual Property Rights	liser.	Gender Sensitization
Social Awareness/ Environment		Constitutional Rights/ Human Values/   Ethics
	Skill Development  Employability  Intellectual Property Rights	Skill Development  Employability  Intellectual Property Rights



235BA1A1CA

# **FUNDAMENTALS OF BUSINESS ANALYTICS**

SEMESTER I

Total Credits: 4

Total Instruction Hours: 48 h

# Syllabus

# Unit I Introduction to the Business Analytics

10 h

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

# Unit II Business Excellence Framework

9 h

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

# Unit III Types of Digital Data

9 h

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

# Unit IV Data Modeling

10 h

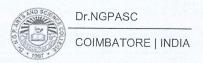
Basics of Data Integration - Data Quality - Why and What Data Quality? - Maintain - Key Areas of Study - Definition of Data Modeling- Data Warehouse Architecture - Basics - Types - Techniques - Multidimensional Data model - Fact Table- Dimension Table - Star Schema - Snowflake Schema- Fact Constellation Schema- Dimension Modeling Lifecycle

# Unit V Enterprise Reporting and Applications of Analytics

10 h

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

Case Study on Healthcare systems, Case Study on Social Media Analytics, Case Study on Retail Management

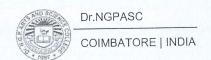


Note: Case studies (To be examined internally)

### **Text Books**

- Prasad R.N. and Seema Acharya , 2014 , "Fundamentals of Business Analytics", Current Edition, Wiley Publisher, New Delhi
- Pang-Ning Tan Michael Steinbach, Vipin Kumar, 2015, "Introduction to Data Mining", 2015 Edition, Pearson Education, New Delhi

- Haydn Thomas Demonoid, 2015, "Business Analysis Fundamentals", 2015 Edition, Pearson Education, New Delhi
- Gert H.N. Laursen, Jesper Thorlunnd, 2014, "Business Analytics for Managers", First Edition, Wiley Publisher, New Delhi
- John F. Tanner JR , 2014 , "Analytics and Dynamic Customer Strategy" , First Edition , Wiley Publisher , New Delhi
- Albright, Winston, 2015, "Business Analytics Data Analysis and Decision Making", First Edition, Cengage Learning Publication, New Delhi



235BA1A1CP

# SPREADSHEET MODELLING FOR DECISION ANALYSIS

SEMESTER I

**Total Credits:** 

2

**Total Instructions Hours:** 

48 h

S.No	Contents
1	Collecting data using Google forms and Google Sheets
2	Perform Importing and Exporting Data to a Text File and Workbook Protection
3	Creation of a payroll data table and perform sort, filter, Conditional Formatting. Sort: by colour, reverse list, Randomized list. Filter: Text Filter, Auto filter and Remove duplicate
4	Conversion / Creation of Pivot table and Pivot chart for Sales data
5	Performing user defined Macros: Recording, Viewing, Running Macros and execute Conditional formatting
6	Performing What-If Analysis in excel using the options H Lookup , V Lookup ,Goal Seek and Data Table.
7	Performing Data Analysis using the Statistical Tools: a) Descriptive Statistics b) Rank c) Weighted average d) Correlation e) Regression.
8	Create a Dashboard for multiple data tables.
9	Perform Text Function in Excel.
10	Performing arithmetic and logical functions, format functions for student datasets and Financial Functions(Date, NPV,IRR)
11	Execute Ensuring Data Validation
12	Create a Pie chart, Bar Chart, Column Chart, Area Chart, Line Chart for a Data Set.

Note: Out of 12 Exercise 10 is mandatory

Course Code	Course Name	Category	L	Т	P	Credit	
232MT1A1IA	BUSINESS MATHEMATICS	IDC	4	-	-	4	

This course has been designed for students to learn and understand

- the characteristics of different types of matrices
- the basic concept of sequence and series
- the rule for finding the limit

### **COURSE OUTCOMES**

On the successful completion of the course, students will be able to

CO Number	CO Statement	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	interpret and apply the knowledge of differential calculus in business	КЗ

# MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1	<b>√</b>		<b>✓</b>		✓
CO2		<b>√</b>		<b>√</b>	<b>√</b>
CO3	<b>√</b>			<b>√</b>	
CO4	✓	✓	<b>√</b>		<b>√</b>
CO5		<b>✓</b>	<b>✓</b>	<b>√</b>	✓

✓	Skill Development	Entrepreneurial Development
<b>✓</b>	Employability	Innovations
	Intellectual Property Rights	Gender Sensitization
	Social Awareness/ Environment	Constitutional Rights/ Human Values/ Ethics

232MT1A1IA

### **BUSINESS MATHEMATICS**

SEMESTER I

**Total Credits:** 

Total Instruction Hours: 48 h

# Syllabus

# Unit I Matrix and its applications to business

12 h

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.

# Unit II Theory of sets and its business applications

8 h

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.

# Unit III Ratio, Permutation & Combination

8 h

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.

# Unit IV Sequence and Series - Its application to business

9 h

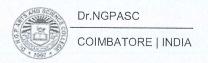
General idea and different types of sequences - kinds of sequence - arithmetic and geometric means - arithmetic progression- geometric progression - harmonic progression

# Unit V Differential Calculus and its business applications

11 h

Limit of a function - rules for evaluating the limit - continuous function - slope and rate of change - method for evaluating the differential coefficient using the first principle and standard results - differentiation of an implicit function - parametric differentiation - logarithmic differentiation - applications of differential calculus.

Note: Theory 20% and Problems 80%



### **Text Books**

Mariappan P, 2015, "Business Mathematics", First Edition, Pearson India education services Pvt. Ltd, New Delhi.

- 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", 4th Edition, Sultan Chand & Company, New Delhi.
- Das N.G & Das J.K, 2012, "Business Mathematics and Statistics", First Edition, McGraw Hill Education Private Limited, New Delhi.
- Sancheti D.C & Kapoor V K, 2012, "Business Mathematics", Eleventh Edition, Sultan Chand & Company, New Delhi.

Course Code	Course Name	Category	L	Т	P	Credit
233MB1A1AA	ENVIRONMENTAL STUDIES	AECC	2	_	-	2

This course has been designed for students to learn and understand

- Multi disciplinary aspects of Environmental studies
- Importance to conserve the Biodiversity
- Causes of Pollution and its control

### **COURSE OUTCOMES**

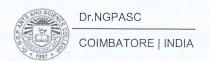
On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Understand the importance of natural resources in order to conserve for the future.	K2
CO2	Infer on Natural resources and its conservation	K2
CO3	Apply the knowledge on Biodiversity and its conservation	К3
CO4	Relate effects, causes and control of air, water, soil and noise pollution etc.,	K2
CO5	Build awareness about sustainable development and Environmental protection	K2

### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1					<b>√</b>
CO2				<b>√</b>	
CO3				<b>√</b>	<b>✓</b>
CO4				<b>✓</b>	<b>✓</b>
CO5		<b>✓</b>		<b>✓</b>	

<b>/</b>	Skill Development	Entrepreneurial Development
✓	Employability	Innovations
	Intellectual Property Rights	Gender Sensitization
	Social Awareness/ Environment	Constitutional Rights/ Human Values/ Ethics



233MB1A1AA

# **ENVIRONMENTAL STUDIES**

SEMESTER I

Total Credits: 2

Total Instruction Hours: 24 h

# Syllabus

# Unit I Introduction to Environmental studies & Ecosystems

5 h

Introduction to Environmental studies& Ecosystems: Multidisciplinary nature of environmental studies; components of environment – atmosphere, hydrosphere, lithosphere and biosphere. Scope and importance; Concept of sustainability and sustainable development. Ecosystem- Structure and function of ecosystem; Energy flow in an ecosystem: food chain, food web and ecological succession.

# Unit II Natural Resources: Renewable and Non-renewable Resources 5 h

Natural Resources: Renewable and Non-renewable Resources: Land Resources and land use change; Land degradation, soil erosion and desertification. Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations. Water: Use and overexploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state). Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs.

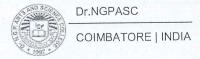
# Unit III Biodiversity and Conservation

5 h

Biodiversity and Conservation: Levels of biological diversity: genetic, species and ecosystem diversity; Biogeography zones of India; Biodiversity patterns and global biodiversity hot spots. India as a mega-biodiversity nation; Endangered and endemic species of India. Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.

# Unit IV Environmental Pollution, Environmental Policies & Practices 5 h

Environmental Pollution, Environmental Policies & Practices: Environmental pollution: types, causes, effects and controls; Air, water, soil, chemical and noise pollution. Nuclear hazards and human health risks. Solid waste management: Control measures of urban and industrial waste. Pollution case studies. Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture. Environment Laws: Environment Protection Act; Prevention & Control of Pollution Act – Air & Water. Wildlife Protection Act; Forest Conservation Act;



# Unit V Human Communities and the Environment & Field Work

4 h

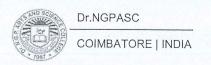
Human Communities and the Environment& Field Work: Human population and growth: Impacts on environment, human health and welfares. Environmental ethics: Role of Indian and other religions and cultures in environmental conservation. Environmental communication and public awareness. Visit to an area to document environmental assets; river/forest/flora/fauna, etc. Population explosion – Family Welfare Programmes. 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.

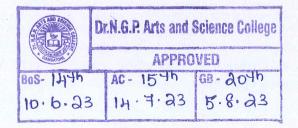
### **Text Books**

- 1 Carson, R. 2002. Silent Spring. Houghton Mifflin Harcourt.
- 2 Gadgil, M., &Guha, R.1993. This Fissured Land: An Ecological History of India. Univ. of California Press.

- Gleeson, B. and Low, N. (eds.) 1999. Global Ethics and Environment, London, Routledge
- Gleick, P.H. 1993. Water in Crisis. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press
- Groom, Martha J. Gary K. Meffe, and Carl Ronald carroll. Principles of Conservation Biology. Sunderland: Sinauer Associates, 2006
- Grumbine, R. Edward, and Pandit, M.K. 2013. Threats from India's Himalaya dams. Science, 339: 36-37.
- McCully, P.1996. Rivers no more: the environmental effects of dams(pp. 29-64). Zed Books
- 6 McNeil, John R. 2000. Something New Under the Sun: An Environmental History of the Twentieth Century
- Odum, E.P., Odum, h.T. & Andrews, J.1971. Fundamentals of Ecology. Philadelphia: Saunders.









Course Code	Course Name	Category	L	Т	P	Credit
231TL1A2TA	TAMIL- II	LANGUAGE- I	4	1	-	3

This course has been designed for students to learn and understand

- மொழிப்பாடங்களின் வாயிலாக தமிழரின் பண்பாடுநாகரீகம்,பகுத்தறிவு
   ஆகியவற்றை அறியச் செய்தல்
- ் கலை மற்றும் மரபுகளை அறியச் செய்தல்
- மாணவர்களின் படைப்பாக்கத்திறன்களை ஊக்குவித்தல்

# COURSE OUTCOMES

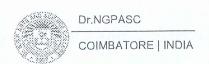
On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	வாழ்க்கைத்திறன்கள் (Life Skills) மாணவர்களின் செயலாக்கத்திறனை ஊக்குவித்தல்	K1 ·
CO2	மதிப்புக்கல்வி (Attitude and Value education)	K2
CO3	பாடஇணைச்செயல்பாடுகள் (Co-curricular activities)	K2
CO4	சூழலியல் ஆக்கம் (Ecology)	КЗ
CO5	மொழி அறிவு (Tamil knowledge)	

# MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1	1			✓	
CO2		✓		<b>√</b>	
CO3			<b>√</b>	<b>√</b>	
CO4				1	1
CO5			✓	<b>√</b>	✓

✓ Skill Development	✓ Entrepreneurial Development
✓ Employability	✓ Innovations
✓ Intellectual Property Rights	✓ Gender Sensitization
Social Awareness/ Environment	Constitutional Rights/ Human Values, Ethics



231TL1A2TA

TAMIL-II

SEMESTER II

Total Credits: 3

Total Instruction Hours: 60 h

# Syllabus

# Unit I அற இலக்கியம்

13 h

- 1. இலக்கிய வரலாறு- பதினெண்கீழ்க்கணக்குநூல்கள்
- 2.திருக்குறள்
- அ. அறன்வலியுறுத்தல்- அ. எண் 04
- ஆ. நட்பாராய்தல் அ. எண் 80
- இ. நாடு- அ. எண் 74
- ஈ. குறிப்பறிதல்- அ. எண் 110

# Unit II அற இலக்கியம்

13 h

- 1. நாலடியார்
- அறிவுடைமை
- 2. மூதுரை ஒளவையார் 10 பாடல்கள் 6, 7, 9, 10, 14, 16, 17, 23, 26, 30
- 3. இனியவைநாற்பது- பூதஞ்சேந்தனார் முதல் 10 பாடல்கள்

# Unit III அறநெறிக் கட்டுரைகள்

09 h

- 1. இலக்கியவரலாறு தமிழ் உரைநடையின் தோற்றமும் வளர்ச்சியும்
- 2. கலைகள்-உ.வே.சா
- 3. சங்க நெறிகள்- வ.சுப.மாணிக்கம்

# Unit IV அறநெறிக் கட்டுரைகள்

15 h

- 1. வீர வணக்கம் க.கைலாசபதி
- 2. தமிழர் பண்பாடு டாக்டர் சோ.நா.கந்தசாமி
- 3. இணையத் தமிழ் வளர்ச்சி முனைவர் ப.அர.நக்கீரன்

# Unit V பயிற்சிப் பகுதி

10 h

- 1.இலக்கணம்-வழு, வழுவமைதி,வழாநிலை
- 2.அலுவலகம் சார்ந்த கடிதம் -விண்ணப்பங்கள், வேண்டுகோள்,முறையீடு
- 3.படைப்பாக்கம்-பொதுத்தலைப்பில் கட்டுரைகள் எழுதுதல்.



## Text Book

தமிழ் மொழிப்பாடம்-2023-2024,தொகுப்பு: தமிழ்த்துறை, டாக்டர் 1 என்.ஜி.பி. கலை அறிவியல் கல்லூரி,கோயம்புத்தூர். வெளியீடு: நியூ செஞ்சுரி புக் ஹவுஸ்,சென்னை. (Unit I to V)

- 1 பேராசிரியர் புலவர் சோம. இளவரசு,எட்டாம் பதிப்பு. 2014. தமிழ் இலக்கிய வரலாறு- மணிவாசகர் பதிப்பகம்,சென்னை.
- 2 பேராசிரியர் முனைவர் பாக்கியமேரி,முதற் பதிப்பு. 2013. இலக்கணம்-இலக்கிய வரலாறு- மொழித்திறன்- பூவேந்தன் பதிப்பகம்,சென்னை. .
- 3 தமிழ் இணையக் கல்விக்கழகம் TAMIL VIRTUAL ACADEMY. வலைதள் முகவரி: <a href="https://www.tamilvu.org">https://www.tamilvu.org</a>

Course Code	Course Name	Category	L	Т	P	Credit
231TL1A2HA	HINDI - II	LANGUAGE- I	4	1	-	3

This course has been designed for students to learn and understand

- \* the writing ability and develop reading skill
- $^{\bullet}$   $\,\,$  the various concepts and techniques for criticizing literature
- the techniques for expansion of ideas and translation process

### **COURSE OUTCOMES**

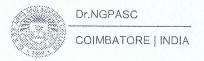
On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Learn the fundamentals of novels and stories	K1
CO2	Understand the principles of translation work	K2
CO3	Expose the knowledge writing critical views on fiction	K2
CO4	Build creative ability	К3
CO5	Apply the power of creative reading	К3

# MAPPING WITH PROGRAMME OUTCOMES

			-		
COs/POs	PO1	PO2	PO3	PO4	PO5
CO1	<b>√</b>			1	
CO2		✓		1	
CO3		✓		1	
CO4				1	✓
CO5			<b>✓</b>	1	

✓ Skill Development	1	Entrepreneurial Development
Employability	✓	Innovations
Intellectual Property	Rights 🗸	Gender Sensitization
Social Awareness/ E	≟nvironment ✓	Constitutional Rights/ Human Values/ Ethics



231TL1A2HA HINDI – II SEMESTER II

Total Credits: 3

Total Instruction Hours: 60 h

Syllabus

Unit I

आधुनिकपद्य – शबरी(श्रीनरेशमेहता)

Unit II

उपन्यास: सेवासदन-प्रेमचन्द

Unit III

कहानी-किरीट- डा उषा पाठक / डा अचला पाण्डेय

पाठ 1.कफ़न, 3. चीफ़ की दावत

Unit IV

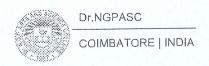
पत्र लेखन: (औपचारिक या अनौपचारिक)

Unit V

अन्वाद अभ्यास-III (केवल हिन्दी से अंग्रेजी में) (पाठ 1 to 10)

### **Text Books**

- प्रकाशकः लोकभारती प्रकाशन पहली मंजिल, दरबारी बिल्डिंग,महात्मा गाँधी मार्ग, 1 इलाहाबाद. (Unit I)
- प्रकाशकः सुमित्र प्रकाशन 204 लीला अपार्ट्मेंट्स, 15 हेस्टिंग्स रोड'अशोक नगर इलाहाबाद. (Unit II)
- 3 प्रकाशक: राधाकृष्ण प्रकाशन दिल्ली. (Unit III)
- 4 पुस्तकः व्याकरण प्रदिप रामदेवप्रकाशकः हिन्दी भवन 36 इलाहाबाद. (Unit IV)
- 5 प्रकाशक: दक्षिण भारत प्रचार सभा चेनैई. (Unit V)



Course Code	Course Name	Category	L	Т	P	Credit
231TL1A2MA	MALAYALAM- II	LANGUAGE - I	4	1	-	3

This course has been designed for students to learn and understand

- \* 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

### **COURSE OUTCOMES**

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Learn the fundamentals of novels and stories	K1
CO2	Understand the principles of translation work	K2
CO3	Expose the knowledge writing critical views on fiction	K2
CO4	Build creative ability	K3
CO5	Apply the power of creative reading	K3

### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1				√	
CO2				✓	
CO3				<b>√</b>	
CO4				<b>√</b>	
CO5				<b>√</b>	

<b>_</b>	Skill Development	✓	Entrepreneurial Development
<b>V</b>	Employability	<b>√</b>	Innovations
<b>/</b>	Intellectual Property Rights	<b>√</b>	Gender Sensitization
<b>√</b>	Social Awareness/ Environment	<b>✓</b>	Constitutional Rights/ Human Values/ Ethics

231TL1A2MA	MALAYALAM-II SEMES	TER II
	Total Credits:	3
	Total Instruction Hours:	60 h

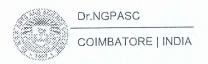
# Syllabus

Unit I Novel	12 h
Enmakaje: Chapter1- Chapter5	
Unit II Novel	10 h
Enmakaje: Chapter 6- Chapter 10	
Unit III Novel	12 h
Enmakaje: Chapter 11- Chapter 15	No. of Contract
Unit IV Autobiography	14 h
NeermathalamPoothaKalam: Chapter 1- Chapter 10	
Unit V Autobiography	12 h
NeermathalamPootha Kalam: Chapter 11- Chapter 20	

# **Text Books**

- Ambika SuthanMangad, Enmakaje (Novel), DC Books Kottayam, Kerala, India. (Unit I to III)
- 2 Madhavikkutty, NeermathalamPootha Kalam (Autobiography), DC Books Kottayam, Kerala, India. (Unit IV & V)

- 1 MalayalaNovelSahithyam, DC Books Kottayam, Kerala, India.
- 2 MalayalaSahithyaCharithram, National Books Kottayam, Kerala, India.



Course Code	Course Name	Category	L	Т	P	Credit
231TL1A2FA	FRENCH- II	LANGUAGE - I	4	1	-	3

This course has been designed for students to learn and understand

- the Competence in General Communication Skills Oral + Written- 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

### **COURSE OUTCOMES**

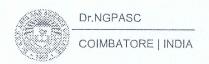
On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Learn the Basic verbs, numbers and accents	K1
CO2	Apply the adjectives and the classroom environment in France	K2
CO3	Select the Plural, Articles and the Hobbies	K2
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	КЗ

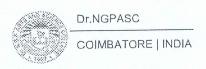
### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1	<b>√</b>			√	
CO2		<b>√</b>		<b>√</b>	
CO3				<b>√</b>	
CO4		· 🗸		<b>√</b>	<b>√</b>
CO5			✓	<b>√</b>	

4	Skill Development	✓	Entrepreneurial Development
✓	Employability	<b>✓</b>	Innovations
1	Intellectual Property Rights	. 4	Gender Sensitization
✓ ·	Social Awareness/ Environment	<b>/</b>	Constitutional Rights/ Human Values/ Ethics



SEMESTER II FRENCH-II 231TL1A2FA Total Credits: 3 Total Instruction Hours: 60 h Syllabus 12 h Unit I Comprendreunemessage Proposer, accepter, refuserune Organiser une soirée au d'invitationsurunrépondeurtél cinéma avec des amis, par invitation. éphonique. téléphone et par courriel. Indiquer la date. Inviter quelqu'un accepter ourefuserl'invitation. 12 h Unit II Comprendre des personnes Organiser une soirée Prendreet fixer un rendezqui fixentunrendez-vous par cinéma avec des amis, par VOUS téléphonique. téléphone et par courriel. Demander etindiquerl'heure. Prendreun rendez-vous par telephone 12 h Unit III Exprimer son point de vuesur En groupes, choisir un cadeau Exprimer son point de vue des idées de cadeau. positif et négatif. pour un ami. des achatsdans Faire S'informersur le prix. magasin S'informersur la quantitité. Exprimer la quantitité. 14 h Unit IV Comprendre des indications Suivre itinéraire un etindiquerune Demander de direction. l'aided'indications par direction. telephone et d'un plan. Comprendre des indications Localiser (près de, en face de courrierélectronique, de lieu. ....). donner des informations et Comprendreune chanson. Exprimerl'obligationl' des conseils à un ami qui veut Interdit.Conseiller. courts de Comprendre voyager. qui experiment messages l'obligationoul'interdiction. Donner des conseils à des personnesdans des situations données. 10 h



Make in Own Sentences

Unit V

# Text Book

Regine Merieux, Yves Loiseau, "LATITUDES - 1" (Page No: 56-101) (Methode de Français), Goyal Publisher & Distributors Pvt.Ltd., 86 UB Jawahar Nagar (Kamala Nagar), New Delhi-7 Les Editions Dider, Paris, 2008- Imprime en Roumanie par Canale en Janvier 2012. (Unit I to IV)

Course Co	ode	Course Name	Category	L	Т	P	Credit
231EL1A2	EEA	ENGLISH- II	LANGUAGE- II	4	-	1	3

This course has been designed for students to learn and understand

- the language for specific purposes through various literary manuscripts
- the process of communicative competencies in academics through authentic contexts
- the different formats of business correspondence with lucidity and accuracy via various media

### **COURSE OUTCOMES**

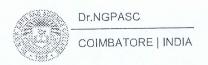
On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Identify and appreciate the eminent writers' works of various genres	K1
CO2	Infer and comprehend complex situational talks	K2
CO3	Relate formal and informal communicative contexts to speak fluently	K2
CO4	Construct the denotative and connotative meanings while reading specialized texts	К3
CO5	Develop the skill of writing through descriptions, narrations and essays	K3

# MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1		✓		✓	
CO2			<b>√</b>	✓	
CO3	<b>√</b>			✓	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CO4				✓	1
CO5		✓		1	

✓	Skill Development	✓	Entrepreneurial Development
✓	Employability	<b>✓</b>	Innovations
V	Intellectual Property Rights	1	Gender Sensitization
1	Social Awareness/ Environment	1	Constitutional Rights/ Human Values/ Ethics



231EL1A2EA ENGLISH-II SEMESTER II

Total Credits: 3

Total Instruction Hours: 60 h

# Syllabus

# Unit I Genre Studies

15 h

John Keats: To a Friend Who Sent Me Some Roses - Author's Note - title indicationsoutline-paraphrasing the poem- context of poem- form- poetic devices- techniques-Style

A. G. Gardiner: On Habits - Author's Note- Title indications- Outline -Passage Analysis - context of the Prose - Narrative techniques- Style

Sudha Murthy: The Enchanted Scorpions- Author's Note - title indications-Plot summary- Outline of the story -devices- Narrative techniques- Style

David Pinski: A Dollar- Author's Note- Title indications -Plot Summary- Critical Analysis-Themes- Character analysis - Terms- Symbols

# Unit II Listening Skills

10 h

Listening to Talks/Lectures by Specialists on selected subject-specific topics-Listening to Public Announcements- Listening to Instructions and Directions-Listening to Speeches- Listening to process/event descriptions to identify causes & effects

# Unit III Speaking Skills

11 h

Small Talk- Mini Presentations and Making Recommendations- Group Discussions, Debates, and Expressing opinions through Role play- Picture Description-Giving Instruction to Use a Product- Presenting a Product- Summarizing a Lecture-Narrating Personal Experiences/ Events- Interviewing a Celebrity- Scientific Lectures-Educational Videos- Debates- Different Viewpoints on an Issue

# Unit IV Reading Skills

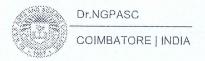
12 h

Reading Biographies, Newspaper Reports, Technical Blogs-Reading Advertisements - Gadget Reviews- Newspaper Articles - Journal Reports - Reading Editorials & Blogs-Case Studies- Excerpts from Literary Texts

# Unit V Writing Skills

12 h

Inferring & Interpreting- Predicting Reorganizing Material- Summary Writing Based on the Reading Passages- Writing - Emails & Essay Writing (Descriptive or Narrative)-Grammar - Tenses- Question Types: Wh/ Yes or No/ and Tags



### **Text Books**

- Keats, John. To a Friend Who Sent Me Some Roses. <a href="https://www.Poets.org">https://www.Poets.org</a>, 1820, poets.org/poem/ friend-who-sent-me-some-roses.html/> (Unit I)
- 2 Gardiner, Alfred George. On Habits (n.d.). < <a href="https://www.Gutenberg.Org/Files/47429-H/47429-H.Html/">https://www.Gutenberg.Org/Files/47429-H/47429-H.Html/</a> (Unit I)
  - Murthy, Sudha. The Enchanted Scorpions. (n.d.). <a href="https://www.
- 3 <u>ssgopalganj.in/online/EBooks/CLASS%20VI/Grandma's%20Bag%20of%20</u> Stories%20by%20Sudha%20Murthy.pdf/> pp-34-39. (Unit I)
- Pinski, David. A Dollar a One-act Play.<a href="mailto:www.one-acf-plays.com/comedies/dollar.html/">www.one-acf-plays.com/comedies/dollar.html/</a> (Unit I)
- Hart, Steve, Aravind R. Nair, Veena Bhambhani. 2016. Embark: English for Undergraduates. Cambridge University Press, New Delhi, India. (Unit II)
- 6 Lakshminarayan. 2012. A Course Book On Technical English. Scitech Publications Pvt. Ltd., New Delhi, India. (Unit III)
- Raman, Meenakshi & Sangeeta Sharma. 2016. Technical Communication-Principles And Practice, Oxford University Press, New Delhi, India. (Unit IV)
- Viswamohan, Aysha. 2017. English For Technical Communication (With CD), McGraw Hill (India) Private Limited, New Delhi, India. (Unit V)

- Bajwa and Kaushik. 2010. Springboard to Success- Workbook for Developing English and Employability Skills. Orient Black Swan, Chennai, India.
- Chellammal, V. 2003. Learning to Communicate. Allied Publishing House, New Delhi, India
- Krishnaswamy. N, LalithaKrishnaswamy& B.S. Valke. 2015. Eco English,
- 3 Learning English through Environment Issues. An Integrated, Interactive Anthology. Bloomsbury Publications, New Delhi, India.
- Syamala. V. 2002. Effective English Communication for You. Emerald Publishers, Chennai, Tamil Nadu, India.

Course Code	Course Name	Category	L	Т	P	Credit
235BP1A2CA	ADVANCED FINANCIAL ACCOUNTING	CORE	5	1	,,,,,	4

This course has been designed for students to learn and understand

- The accounting practices in Branch and Departmental Accounting.
- The recording of transactions in Hire purchase and Instalment system.
- Accounting procedures formatted for Partnership accounts.

### **COURSE OUTCOMES**

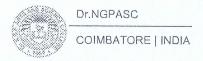
On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Apply the accounting practices in branch and departmental accounting.	КЗ
CO2	Interpret the hire purchase and instalment system of accounting.	K2
CO3	Understand the procedures related to calculation of ratios and accounting treatment of admission of a partner.	K2
CO4	Know the accounting transactions at the time of retirement and death of a partner.	К3
CO5	Analyze the valuation of assets and liabilities during dissolution and insolvency of firms.	K4

### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1	✓	✓	<b>✓</b>	✓	✓
CO2	✓	<b>✓</b>	<b>✓</b>	✓	
CO3	<b>✓</b>	<b>✓</b>			✓
CO4	<b>✓</b>	<b>✓</b>			<b>/</b>
CO5	✓	<b>✓</b>	1	✓	

<b>√</b>	Skill Development	<b>/</b>	Entrepreneurial Development
✓	Employability	<b>√</b>	Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Rights/ Human Values/ Ethics



235BP1A2CA

ADVANCED FINANCIAL ACCOUNTING

SEMESTER II

Total Credits: 4

Total Instruction Hours: 72 h

# Syllabus

# Unit I Branch and Departmental Accounting

15 h

Branch Accounting: Objects - Types of Branch Accounting - Dependent Branches - Features - Accounting in respect of Dependent Branches - Debtors System only - Cost Price and Invoice Price - Independent Branches (Theory only).

Departmental Accounting: Need - Advantages - Distinction between Departments and Branches - Methods and Techniques of Departmental Accounting.

Case Study on Branch Accounts.

# Unit II Hire Purchase and Instalment Purchase Systems

14 h

Hire Purchase System – Features - Distinction between Hire Purchase System and Instalment System – Accounting treatment for Hire Purchase System – Model Journal Entries - Calculation of Interest – Hire Purchase Trading Account – Debtors Methods – Stock and Debtors System (Excluding Default and Repossession). Instalment Purchase System - Accounting treatments.

# Unit III Partnership Accounting: Admission of a Partner

15 h

Partnership Deed – Division of Profits – Capital Accounts – Fixed and Fluctuating Capital –Interest on Capital and Drawings - Admission of a Partner - Calculation of New Profit sharing Ratios. Goodwill: Need for Valuation of Goodwill - Treatment of Goodwill - Revaluation of Assets and Liabilities.

Case Study on Admission of a Partner.

# Unit IV Retirement and Death of a Partner

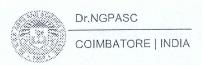
14 h

Retirement (Excluding Retirement cum Admission) and Death of a Partner: Calculation of New Profit sharingratio – Treatment of Goodwill on Retirement/Death of a Partner – Adjustment of Capital after Retirement - Death of a Partner: Mode of payment – Special Treatments.

# Unit V Dissolution of a Firm

14 h

Meaning - Modes of Dissolution - Settlement of Accounts- Accounting Treatment - Normal Dissolution - Insolvency of a Partner (Excluding Insolvency of all Partners) - Garner vs. Murray - Capital Ratio Under Fixed Capital Method and Fluctuating Capital Method.



Case Study on Garner vs. Murray.

**Note:** Distribution of marks 80% Problem and 20% Theory. Case Study (Examined Internal only).

### Text Books

- Reddy T.S. and Murthy A., 2020,"Advanced Accountancy", Second Revised Edition, Margham Publications, Chennai.
- Jain S.Pand NarangK.L., 2019, "Advanced Accountancy"-Principles of Accounting Including GST Volume I, Twentieth Revised Edition, Kalyani Publishers, New Delhi.

# References

Pillai R.S.N, Bagavathi.V and Uma.S., 2012, "Fundamentals of Advanced

- Accounting" Volume I, Third Revised Edition, Sultan Chand & Company Ltd, New Delhi.
- 2 R.L. Gupta & Radhasamy., 2018, "Advanced Accountancy" Volume I, Thirteenth Edition, Sultan Chand & Sons, New Delhi.
- 3 Shukla M.C Grewal, T.S Gupta S.C., 2016, "Advanced Accounts" Volume I, Nineteenth Edition, S.Chand & Company Pvt. Ltd, New Delhi.
- 4 Hanif and Mukherjee, 2015, "Modern Accountancy"- Volume I, Second Edition, Tata Mcgraw Hill Publishing Co. Ltd., Chennai.

Course Code	Course Name	Category	L	Т	P	Credit
235BA1A2CA	PYTHON FOR DATA ANALYTICS	CORE	4	-	-	4

This course has been designed for students to learn and understand

- language fundamentals of Python programming
- the methods for data cleaning and preparation
- the core libraries of python for data and array processing

# COURSE OUTCOMES

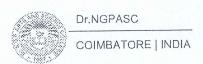
On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Understand the fundamentals of python programming	K2
CO2	Apply the Pandas library for high-performance data manipulation in python.	K3
CO3	Illustrate the various methods of data cleaning and preparation	K3
CO4	Apply the Numpy library for array manipulation in python	К3
CO5	Visualize and Analyze the data using Matplotlib and Scikitlearn libraries	K4

# MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1	✓		✓ .	✓	
CO2	1		<b>✓</b>		✓
CO3		1	<b>✓</b>	✓	1
CO4		✓	1	✓	
CO5	✓	✓	✓	✓	✓

Course	Focuses on	
<b>/</b>	Skill Development	✓ Entrepreneurial Development
<b>1</b>	Employability	✓ Innovations
	Intellectual Property Rights	Gender Sensitization
	Social Awareness/ Environment	Constitutional Rights/ Human Values/ Ethics



235BA1A2CA

# PYTHON FOR DATA ANALYTICS

SEMESTER II

Total Credits: 4

Total Instruction Hours: 48 h

# Syllabus

# Unit I Basics of python

10 h

History of Python – Installing python in Ubuntu- Features -Internal Working of Python – Character Set - Keywords– Identifiers - Literals – Operators – Python Core Data Types - Logical Operations - Identity – Comparison – Membership – Logical Operators- Control Flow Statements and Functions - If - for...in, While - loop Statements –Built-in and User Defined Functions - Built-in Data Structures - List – Tuples –Dictionary Creating – Adding and replacing values-Retrieving values formatting dictionary - Creating set – Set in and not in operator

# Unit II Pandas Library

10 h

The Pandas Library - Introduction to Pandas Data Structures - Series - Indexing selection-subsetting- Time series with Duplicate indices- Data Frame - Data Loading, Storage, and File Formats - Reading and Writing Data in Text Format-Working with Delimited Formats- JSON Data- Interacting with Databases.

# Unit III Data Cleaning and Preparation

9 h

Data Cleaning and Preparation - Handling Missing Data - Filtering Out Missing Data - Filling in Missing Data - Data Transformation - Removing Duplicates - Transforming Data using a function or mapping - Data Wrangling - Merge, Group, correlation functions- Reshape and Concatenate - Database - Style Data Frame Joins - Merging on Index Python - Date and Time - Pivot Tables and Cross-Tabulation. Case study - K-Nearest Neighbor algorithm

# Unit IV The NumPy Library

9 h

The NumPy Library - NumPy Basics - The NumPy array - Array manipulation - Joining arrays - splitting arrays - A Multidimensional Array Object - Arithmetic with NumPy Arrays - Basic Indexing and Slicing - Boolean Indexing- Fancy Indexing - Hierarchical Indexing - Transposing Arrays and Swapping Axes. Case study - Boolean Indexing

# Unit V Data Visualization with Matplotlib, Scikit

10 h

Data Visualization with Matplotlib - The Matplotlib Library - Matplotlib Architecture - Backend Layer- Artist Layer- Scripting Layer- Chart Typology - Line Chart- Histogram- Bar Chart- Pie Charts - Machine Learning with Scikit-learn -



Library -Supervised Learning - The Iris Flower Dataset. Case study - Iris Flower Dataset

Note: Case studies (Examined internal only)

### **Text Books**

- Ashok Namdev Kamthane, Amit Ashok Kamthane, 2018, "Programming & Problem Solving in Python", McGraw Hill Education (India) Private Limited.
- Wes Kinney, 2017, "Python for Data Analysis", O' Reilly Media.

- 1 Fabio Nelli, 2015, "Python Data Analytics", 2nd edition, Apress Publisher.
- Summerfield, 2010, "Programming in Python (Logical Operations & Control Flow Statement) Mark", 2nd edition, Pearson Education.
- Paul Barry, 2017, "Head First Python (Built-in Data Structures)", 2nd Edition, O'Reilly Media .
- Alberto Boschetti and Luca Massaron, 2018, "Python Data Science Essentials", 3rd Edition, Packet Publisher

235BA1A2CP

# CORE PRACTICAL: PYTHON FOR DATA ANALYTICS

SEMESTER II

**Total Credits:** 

2

**Total Instructions Hours:** 

48 h

# S.No Contents 7 Construct a python program to illustrate tuple methods and operations Construct a python program for list and perform the following methods 2 Add items, len(), check for item in tuple, Access items 3 Write a python program to linear search and binary search Interpret the use of procedural statements like assignments, conditional 4 statements 5 Write a program using looping statements like for in and while statements. 6 Reading and Writing text and log files into python Create a code to read a csv file using pandas module and print the first 7 and last five lines of a file Perform data wrangling operations in python by using merge, Correlation 8 functions, Concatenate and Reshape functions 9 Create Pivot table and Cross Tabulation in python 10 Demonstrate different types of charts in python Create a Support Vector Machine learning algorithm using Iris Dataset 11 12 Develop K -Nearest Neighbor classifier algorithm for Diabetes Dataset

Note: Out of 12 Exercise 10 is mandatory



Course Code	Course Name	Category	L	Т	P	Credit
232MT1A2IA	BUSINESS STATISTICS	IDC	4	-	-	4

This course has been designed for students to learn and understand

- the requirement of a good average and differentiate between average and dispersion
- the importance and the limitations of correlation and regression analysis
- the concept of probability and time series

### COURSE OUTCOMES

On the successful completion of the course, students will be able to

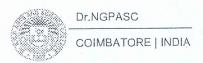
CO Number	CO Statement	Knowledge Level
CO1	identify the measures of average	K1
CO2	identify the measures of dispersion	K1
CO3	explain the concepts of probability	K2
CO4	determine the correlation and regression values	K2
CO5	analyze the components of time series	КЗ

### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1	1		✓	<b>✓</b>	✓
CO2	✓	<b>√</b>			✓
CO3	✓			<b>√</b>	✓
CO4	✓		✓	1	✓
CO5	<b>√</b>	✓	<b>✓</b>	<b>✓</b>	<b>✓</b>

## COURSE FOCUSES ON

$\checkmark$	Skill Development	Entrepreneurial Development
$\checkmark$	Employability	Innovations
	Intellectual Property Rights	Gender Sensitization
	Social Awareness/ Environment	Constitutional Rights/ Human Values/   Ethics



232MT1A2IA

#### **BUSINESS STATISTICS**

SEMESTER II

Total Credits: 4

Total Instruction Hours: 48 h

# Syllabus

# Unit I Measures of Central Tendency

10 h

Introduction- arithmetic mean- median - mode - comparison of the mean, median and mode- geometric mean- harmonic mean.

# Unit II Measures of Dispersion

9h

Introduction- importance - range - interquartile range - interfractile range - mean deviation- standard deviation- relative dispersion- co-efficient of variation.

# Unit III Probability

8h

Introduction - Probability theory - basic terminologies - three types - axioms - conditions of statistical independence and dependence - Baye's theorem.

# Unit IV Correlation and Regression Analysis

12 h

Concept and importance - correlation and causation-types - graphic and algebraic methods -coefficient of determination-rank correlation-some limitations -regression model-estimation using the regression line- method of least squares-alternative approach-regression co-efficient.

# Unit V Time Series Analysis and Forecasting

9 h

Introduction- components of a time series- trend- seasonal variation- cyclical variation- irregular variation - forecasting.

Note: Distribution of marks 80% Problem and 20% Theory

#### **Text Books**

Beri G C,2010, "Business Statistics", Third Edition, McGraw-Hill Education Private Limited, New Delhi.

- Das, N.G & Das J.K,2012, "Business Mathematics and Statistics", First Edition, McGraw Hill Education Private Limited, New Delhi.
- Asim Kumar Manna,2018, "Business Mathematics and Statistics", First Edition, McGraw Hill Education Private Limited , New Delhi.
- Pillai,R.S.N. and Bagavathi. V,2002, "Statistics" ,Fourteenth Edition, Sultan Chand,New Delhi.
- 4 NavnithamP.A,2022, "Business Mathematics and Statistics", Fourth Edition, Jai Publishers , Trichy.

231TL1A2AA

PART- IV: BASIC TAMIL

SEMESTER II

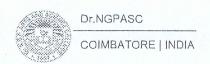
Total Credits: 2

Total Instruction Hours: 24 h

இளங்கலை 2023–24ஆம் கல்வியாண்டு முதல் சேர்வோர்க்குரியது (10 மற்றும் 12 – ஆம் வகுப்பு வரை தமிழ் மொழிப்பாடம் பயிலாதவர்களுக்கு)

> (பருவத் தேர்வு இல்லை) Syllabus

# Unit I தமிழ் மொழியின் அடிப்படைக் கூறுகள் 05 h எழுத்துகள் அறிமுகம் 1. உயிர் எழுத்துக்கள் - குறில் , நெடில் எழுத்துகள் 2. மெய் எழுத்துக்கள் - வல்லினம், மெல்லினம், இடையினம் 3. உயிர்மெய் எழுத்துக்கள் 4. பயிற்கி Unit II சொற்களின் அறிமுகம் 05 h 1.பெயர்ச்சொல் 2.வினைச்சொல் – விளக்கம் (எ.கா.) 3.பயிற்சி Unit III குறிப்பு எழுதுதல் 05 h 1. பெயர், முகவரி, பாடப்பிரிவு, கல்லூரியின் முகவரி 2. தமிழ் மாதங்கள்(12), வாரநாட்கள்(7) 3. எண்கள் (ஒன்று முதல் பத்து வரை), வடிவங்கள், வண்ணங்கள் Unit IV குறிப்பு எழுதுதல் 05 h 1. ஊர்வன, பறப்பன, விலங்குகள் 2.மனிதர்களின் உறவுப்பெயர்கள் 3. ஊர்களின்பெயர்கள் (எண்ணிக்கை 10) Unit V பயிற்சிப் பகுதி 04 h பயிற்சிப் பகுதி (உரையாடும் இடங்கள்) வகுப்பறை, பேருந்து நிலையம், சந்தை– பேசுதல்,எழுதுதல்.



### Notes:

அகமதிப்பீட்டுத்தேர்வு – வினாத்தாள் அமைப்புமுறை- மொத்த மதிப்பெண்கள் - 5**0** 

பகுதி -அ

சரியான விடையைத் தேர்வு செய்தல்

10x2=20

படுதி -ஆ

சரியா? தவறா?

10x2=20

பகுதி - இ

ஒரு பக்க அளவில் விடையளிக்க

 $1 \times 10 = 10$ 

# குறிப்பு:

• அனைத்து அலகுகளில் இருந்தும் வினாக்கள் அமைதல் வேண்டும்

் பகுதி இ–க்கான வினாக்கள் இதுஅல்லது அதுஎன்ற அடிப்படையில் அமைதல் வேண்டும்

### Text Book

அடிப்படைத் தமிழ் - 2023-2024,தொகுப்பு: தமிழ்த்துறை, டாக்டர் என்.ஜி.பி. 1 கலை அறிவியல் கல்லூரி,கோயம்புத்தூர்.வெளியீடு: நியூ செஞ்சுரி புக் ஹவுஸ்,சென்னை. (Unit I to IV)

- 1 ஒன்றாம் வகுப்பு பாடநூல் தமிழ்நாடு அரசு பாடநூல் கழகம், சென்னை.
- 2 தமிழ் இணையக் கல்விக்கழகம் TAMIL VIRTUAL ACADEMY வலைதள முகவரி: <a href="https://www.tamilyu.org/">https://www.tamilyu.org/</a>

231TL1A2AB

**PART-IV: ADVANCED TAMIL** 

SEMESTER II

**Total Credits: 2** 

**Total Instruction Hours: 24 h** 

இளங்கலை 2023– 2024 ஆம் கல்வியாண்டு முதல் சேர்வோர்க்குரியது
(10 மற்றும் 12 – ஆம் வகுப்புகளில் தமிழ் மொழிப்பாடம் பயின்றவர்களுக்கு உரியது)
(பருவத் தேர்வு இல்லை )
Syllabus

Unit I கவிதைகள்

06 h

1. தமிழ்நாடு

- பாரதியார்

2.மனதில் உறுதி வேண்டும் - பாரதியார்

3. இன்பத்தமிழ்

- பாரதிதாசன்

4.வேலைகளல்லவேள்விகள் - தாராபாரதி

5.தமிழா! நீ பேசுவது தமிழா! - காசியானந்தன்

6. நட்புக் காலம்(10 கவிதைகள்)- அறிவுமதி கவிதைகள்

Unit II கட்டுரை

05 h

கட்டுரைத் தொகுப்பு -நல்வாழ்வு - டாக்டர் மு.வரதராசன்

1. நம்பிக்கை

2. புலனடக்கம்

3. பண்பாடு

Unit III இலக்கணம்

04 h

1.வல்லினம் மிகும் மற்றும் மிகா இடங்கள்

2. ர,ற,ல,ழ,ள,ந,ண,ன – வேறுபாடு அறிதல்

Unit IV கடிதங்கள்

05 h

1. பாராட்டுக் கடிதம்

2. நன்றிக் கடிதம்

3. அழைப்புக் கடிதம்

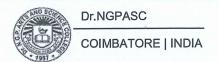
4. அலுவலக விண்ணப்பங்கள்

Unit V பயிற்சிப் பகுதி

04 h

படைப்பாக்கப் பகுதி

பொதுத் தலைப்புகளில் கவிதை,கட்டுரை எழுதச்செய்தல்



### **Notes**

அக மதிப்பீட்டுத் தேர்வு - வினாத்தாள் அமைப்பு முறை- மொத்த மதிப்பெண்கள் - 50

பகுதி –அ

சரியான விடையைத் தேர்வு செய்தல்

10x1=10

பகுதி –ஆ

கோடிட்ட இடங்களை நிரப்புக.

10x2=20

பகுதி –இ

இரண்டு பக்க அளவில் விடையளிக்க

2x10=20

# குறிப்பு:

- அனைத்து அலகுகளில் இருந்தும் வினாக்கள் அமைதல் வேண்டும்
- பகுதி இ–க்கான வினாக்கள் இதுஅல்லது அதுஎன்ற அடிப்படையில் அமைதல் வேண்டும்

### **Text Book**

சிறப்புத் தமிழ் - 2023-2024, தொகுப்பு: தமிழ்த்துறை, டாக்டர் என்.ஜி.பி. கலை அறிவியல் கல்லூரி, கோயம்புத்தூர். வெளியீடு: நியூ செஞ்சுரி புக் ஹவுஸ், சென்னை. (Unit- I to IV)

- 1 பேராசிரியர் புலவர் சோம. இளவரசு,எட்டாம் பதிப்பு. 2014. தமிழ் இலக்கிய வரலாறு மணிவாசகர் பதிப்பகம்,சென்னை.
- 2 டாக்டர் மு.வரதராசன். 2010. நல்வாழ்வு, பாரி நிலையம், சென்னை.
- 3 பேராசிரியர் முனைவர் பாக்கியமேரி,முதற் பதிப்பு.2013. இலக்கணம் இலக்கிய வரலாறு மொழித்திறன்- பூவேந்தன் பதிப்பகம், சென்னை..
- 4 தமிழ் இணையக் கல்விக்கழகம் TAMIL VIRTUAL ACADEMY. வலைதள முகவரி : <a href="https://www.tamilvu.org/">https://www.tamilvu.org/</a>

Course Code	Course Name	Category	L	Т	P	Credit
235CR1A2AA	HUMAN RIGHTS AND WOMEN'S RIGHTS	AECC	2	-	-	2

This course has been designed for students to learn and understand

- Concepts of Human Rights.
- Human Right Violations and Redressal Mechanism.
- Rights to Women and Child.

## **COURSE OUTCOMES**

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level	
CO1	Understand the basic concepts of Human Rights.	K1	
CO2	Describe the Fundamental Rights.	K2	
CO3	Relate Human Right Violations and Redressal Mechanism.	К3	
CO4	State the Rights to Women and Child.	K2	
CO5	Apply Civil and Political Rights of Women. K3		

### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1		<b>√</b>		<b>✓</b>	✓
CO2		<b>√</b>	<b>√</b>	✓	<b>√</b>
CO3				✓	<b>√</b>
CO4		<b>√</b>		✓	<b>✓</b>
CO5	✓	<b>√</b>	✓	✓	✓

Skill Development	Entrepreneurial Development
Employability	Innovations
Intellectual Property Rights	Gender Sensitization
Social Awareness/ Environment	Constitutional Rights/ Human Values/ Ethics

235CR1A2AA

## **HUMAN RIGHTS AND WOMEN'S RIGHTS**

SEMESTER II

**Total Credits: 2** 

**Total Instruction Hours: 24 h** 

# **Syllabus**

# Unit I Introduction to Human Rights

04 h

Meaning - Definition - Nature - Content - Legitimacy of Human Rights - Origin and Development of Human Rights - Theories - Principles of Magna Carta - Modern Movements of Human Rights - The Future of Human Rights. Case studies related to human rights.

# Unit II Human Rights in India

05 h

The Constitution of India: Fundamental Rights - Right to Life and Liberty - Directive Principles of State Policy - Fundamental Duties - Individual and Group Rights - Other facets of Human Rights - Measures for Protection of Human Rights in India.

# Unit III Human Right Violations and Redressal Mechanism

05 h

Human Rights: Infringement of Human Right by State Machinery and by Individual - Remedies for State action and inaction - Constitutional Remedies - Public Interest Litigation (PIL) - Protection of Human Rights Act, 1993 - National Human Rights Commission - State Human Rights Commissions - Constitution of Human Right Courts.

# Unit IV Rights to Women and Child

05 h

Matrimonial protection - Protection against dowry - Protection to pregnancy - Sexual offences - Law relating to work Place - Directive principles of Constitution (Article 39 a, d, e & Article 42, 43 & 46) - Trafficking of women - Constitutional Rights - Personal Laws - Protection of children against Sexual Offences Act, 2012 (POCSO). Case studies related to Sexual offences.

# Unit V Civil and Political Rights of Women

05 h

Right of Inheritance - Right to live with decency and dignity - The Married women's Property Act, 1874 - Women's right to property - Women Reservation Bill - National Commission for Women - Political participation - Pre-independent political participation of women - Participation of Women in post independent period. Kavalan App. Case studies related to women rights.

### **Text Books**

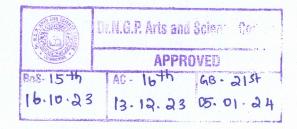
- Lalit Parmar, 1998, "Human Rights", Anmol Publications Pvt. Limited, New Delhi.
- 2 Krishna Pal Malik, 2009, "Women & Law ", Allahabad Law University, New Delhi.

#### References

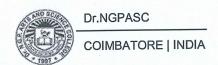
- Mandagadde Rama Jois, 2015, "Human Rights", Bharatiya Values, Bharatiya Vidya Bhavan Publications, Mumbai.
- Paras Diwan and Piyush Diwan, 1994, "Women and Legal Protection", South Asia Books, Andhra Pradesh.
- Venkataram and Sandhiya. N, 2001, "Research in Value Education", APH Publishing Corporation, New Delhi.
- Anand A S, 2008, "Justice for Women: Concerns and Expressions", Universal Law Publishing Co., New Delhi.

M.S. Darint

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







Course Code	Course Name	Category	L	Т	P	Credit
231TL1A3TA	TAMIL- III	LANGUAGE- I	3	1	-	3

This course has been designed for students to learn and understand

- மொழிப்பாடங்களின் வாயிலாக தமிழரின் பண்பாடுநாகரீகம்,பகுத்தறிவு ஆகியவற்றை அறியச் செய்தல்
- கலை மற்றும் மரபுகளை அறியச் செய்தல்
- மாணவர்களின் படைப்பாக்கத்திறன்களை ஊக்குவித்தல்

## **COURSE OUTCOMES**

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	வாழ்க்கைத்திறன்கள் (Life Skills)- மாணவர்களின் செயலாக்கத்திறனை ஊக்குவித்தல்	K1
CO2	மதிப்புக்கல்வி (Attitude and Value education)	K2
CO3	பாடஇணைச்செயல்பாடுகள் (Co-curricular activities)	K2
CO4	சூழலியல் ஆக்கம் (Ecology)	K3
CO5	மொழி அறிவு(Tamil knowledge)	K3

#### MAPPING WITH PROGRAMME OUTCOMES

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

### **COURSE FOCUSES ON**

✓ Skill Development	✓ Entrepreneurial Development
✓ Employability	✓ Innovations
Intellectual Property Rights	✓ Gender Sensitization
Social Awareness/ Environment	✓ Constitutional Rights/ Human Values/ Ethics

231TL1A3TA TAMIL-III SEMESTER III

**Total Credits: 3** 

Total Instruction Hours: 48 h

# **Syllabus**

## Unit I காப்பியங்கள்

10 h

- 1.சிலப்பதிகாரம் –வழக்குரை காதை
- 2. மணிமேகலை–ஆதிரை பிச்சையிட்ட காதை

## Unit II காப்பியங்கள்

10 h

- 1. கம்பராமாயணம் -கும்பகர்ணன் வதைப்படலம்: பா. எண் : 60 முதல் 100 வரை
- 2. பெரிய புராணம் அதிபத்த நாயனார்புராணம்

# Unit III சிற்றிலக்கியங்கள்

10 h

- 1.திருக்குற்றாலக்குறவஞ்சி வசந்தவல்லி பந்தாடிய சிறப்பு (6: 4கண்ணிகள்)
- 2.கலிங்கத்துப்பரணி-களம்பாடியது: போர்க்களக் காட்சி- பா.எண்: 472 முதல்- 502 வரை

# Unit IV இலக்கிய வரலாறு

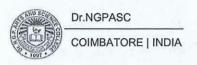
10 h

- 1.காப்பியம் வரையறை,ஐம்பெருங் காப்பியங்கள்,ஐஞ்சிறு காப்பியங்கள்
- 2.கம்பராமாயணம், பெரிய புராணம் குறிப்பு
- 3. சிற்றிலக்கியங்களின் தோற்றமும் வளர்ச்சியும்

# Unit V இலக்கணம் &பயிற்சிப் பகுதி

08 h

- அ. இலக்கணம்
- 1.'பா' வகைகள் : வெண்பா, ஆசிரியப்பா, கலிப்பா, வஞ்சிப்பா பொது இலக்கணம் மட்டும்.
- 2. அணி: உவமையணி, உருவக அணி, இல்பொருள் உவமையணி விளக்கம், உதாரணம்.
- ஆ. பயிற்சிப் பகுதி
- 1.வாசகர் கடிதம்: நாளிதழ், வானொலி, செய்தி ஊடகங்களுக்கு விமர்சனம் எழுதுதல்
- 2.திரைக்கதை விமர்சனம்: மத்திய மற்றும் மாநில அரசு விருது பெற்ற தமிழ்த் திரைப்படங்கள் மட்டும்



### **Text Book**

தமிழ் மொழிப்பாடம்-2023 -2024 ,தொகுப்பு: தமிழ்த்துறை, டாக்டர் என்.ஜி.பி. கலை அறிவியல் கல்லூரி,கோயம்புத்தூர். வெளியீடு: நியூ செஞ்சுரி புக் ஹவுஸ்,சென்னை. (Unit I to V)

- 1 பேராசிரியர் புலவர் சோம. இளவரசு,எட்டாம் பதிப்பு-2014,தமிழ் இலக்கிய வரலாறு-மணிவாசகர் பதிப்பகம்,சென்னை.
- 2 பேராசிரியர் முனைவர் பாக்கியமேரி,முதற் பதிப்பு- 2013,இலக்கணம்-இலக்கிய வரலாறு- மொழித்திறன்- பூவேந்தன் பதிப்பகம்,சென்னை. .
- 3 தமிழ் இணையக் கல்விக்கழகம் TAMIL VIRTUAL ACADEMY. வலைதள முகவரி: <a href="https://www.tamilvu.org">https://www.tamilvu.org</a>

Course Code	Course Name	Category	L	T	P	Credit
231TL1A3HA	HINDI- III	LANGUAGE- I	3	1	-	3

This course has been designed for students to learn and understand

- the writing ability and develop reading skill
- the various concepts and techniques for criticizing literature
- the techniques for expansion of ideas and translation process

### **COURSE OUTCOMES**

On the successful completion of the course, students will be able to

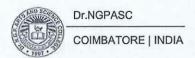
CO Number	CO Statement	Knowledge Level
CO1	Learn the fundamentals of novels and stories	K1
CO2	Understand the principles of translation work	K2
CO3	Expose the knowledge writing critical views on fiction	K2
CO4	Build creative ability	K3
CO5	Apply the power of creative reading	К3

### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1		<b>✓</b>		1	
CO2	✓		✓		<b>√</b>
CO3	W .	✓	37	✓	
CO4	✓		✓	✓	
CO5	✓	<b>√</b>			✓

### **COURSE FOCUSES ON**

<b>V</b>	Skill Development	<b>✓</b>	Entrepreneurial Development
✓	Employability	<b>/</b>	Innovations
<b>✓</b>	Intellectual Property Rights	✓	Gender Sensitization
<b>✓</b>	Social Awareness/ Environment	<b>✓</b>	Constitutional Rights/ Human Values/ Ethics



231TL1A3HA HINDI- III SEMESTER III

**Total Credits: 3** 

**Total Instruction Hours:** 48 h

**Syllabus** 

Unit I

10 h

पद्य – काव्य पराशर (भोलानाथ)

(प्राचीन- कबीर, तुलसी, सुर, मीरा, आधुनिक- मैथिलीशरण गुप्त, अरूण कमल)

Unit II

10 h

हिन्दी साहित्य का इतिहास: (साधारण ज्ञान)

Unit III

10 h

अलंकार:अनुप्रास,यमक, श्लेष, वक्रोक्ति, उपमा,रूपक

Unit IV

10 h

संवादलेखन

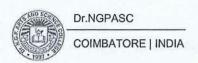
Unit V

08 h

अनुवादअभ्यास-III (केवलहिन्दीसेअंग्रेजीमें) (पाठ10 to 20)

### **Text Books**

- प्रकाशक: जवाहर पुस्तकालय सदर बाजार, मथुराउत्तर प्रदेश-281001(Unit I)
- अाचार्य रामचन्द्र शुक्ललोकभारती प्रकाशन इलाहाबाद. (Unit II)
- 3 प्रकाशक: विनोद पुस्तक मंदिरआगरा-282002 (Unit III)
- 4 पुस्तक: व्याकरणप्रदिप-रामदेवप्रकाशक: हिन्दीभवन36 इलाहाबाद-211024(Unit IV)
- 5 प्रकाशक: दक्षिण भारत प्रचार सभा चेनैई -17(Unit V)



Course Code	Course Name	Category	L	Т	P	Credit
231TL1A3MA	MALAYALAM- III	LANGUAGE-I	3	1	-	3

This course has been designed for students to learn and understand

- 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

### **COURSE OUTCOMES**

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Learn the fundamentals of novels and stories	K1
CO2	Understand the principles of translation work	K2
CO3	Expose the knowledge writing critical views on fiction	K2
CO4	Build creative ability	КЗ
CO5	Apply the power of creative reading	КЗ

#### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1	and the second		✓	✓	1
CO2	✓	<b>✓</b>			
CO3			<b>✓</b>	1	
CO4					✓
CO5	1	1	1		

#### COURSE FOCUS ON

<b>✓</b>	Skill Development	1	Entrepreneurial Development
1	Employability	1	Innovations
<b>√</b>	Intellectual Property Rights	<b>✓</b>	Gender Sensitization
<b>√</b>	Social Awareness/ Environment	<b>✓</b>	Constitutional Rights/ Human Values/ Ethics

231TL1A3MA	MALAYALAM- III	SEMESTER III

**Total Credits: 3** 

Total Instruction Hours: 48 h

# **Syllabus**

Unit I	Poetry	10 h
Kumarana	isan	
Unit II	Poetry	10 h
Kumarana	isan	
Unit III	Poetry	10 h
Kumarana	san	
Unit IV	Poetry	10 h
VayalarRa	mavarma	
Unit V	Poetry	08 h

### **Text Books**

VayalarRamavarma

- 1 Kumaranasan. 1998. Chinthavishtayaya Sitha. DC Books Kottayam, Kerala, India.(Unit I to III)
- 2 Ayisha (Poem), National Book Stall Kottayam, Kerala, India. (Unit IV & V)

### Reference

1 Dr.M.Leelavathy.Kavitha Sahithya Charithram. Sahithya Academy Thrissur, Kerala, India.

Course Code	Course Name	Category	L	Т	P	Credit
231TL1A3FA	FRENCH- III	LANGUAGE- I	3	1	-	3

This course has been designed for students to learn and understand

- the Competence in General Communication Skills Oral + Written- 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

#### **COURSE OUTCOMES**

On the successful completion of the course, students will be able to

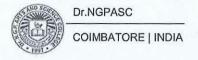
CO Number	CO Statement	Knowledge Level
CO1	Learn the Basic verbs, numbers and accents	K1
CO2	Apply the adjectives and the classroom environment in France	K2
CO3	Select the Plural, Articles and the Hobbies	K2
CO4	Measure the Cultural Activity in France	К3
CO5	Evaluate the sentiments, life style of the French people and the usage of the conditional tense	К3

#### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1	✓	1			1
CO2			<b>✓</b>	Military was the state of	
CO3	✓	✓		1	
CO4	✓	✓	1		1
CO5				1	<b>√</b>

#### COURSE FOCUSES ON

<b>/</b>	Skill Development	1	Entrepreneurial Development
1	Employability	<b>/</b>	Innovations
<b>/</b>	Intellectual Property Rights	<b>/</b>	Gender Sensitization
· •	Social Awareness/ Environment	✓	Constitutional Rights/ Human Values/ Ethics



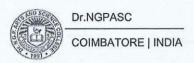
231TL1A3FA	min and the E	RENCH- III	SEMESTER III
	dengan kan s	Total In Syllabus	Total Credits: 3 struction Hours: 48 h
Unit I			10 h
<ul><li>Décrireun lieu.</li><li>Situer</li></ul>	A partird'unerecherche de documents, composer une presentation touristique pour un magazine ou un site internet.	Comprehendre la description d'un lieu. Décrireunevilleouunerégionq u'onaime. Interrogersur la situation of d'un lieu. Comprendre des indications sur la fréquenced'actions.	Comprendreune presentation de catalogue touristique. Comprendre des pictogrammes. Comprendre la description d'un lieu et d'une situation precise dans un message électronique.
Unit II			10 h
Se situerdans le temps.	A partird'unerecherc he de documents, composer une presentation touristique pour un magazine ou un site internet.	Comprehendre la description d'un lieu. Décrireunevilleouunerégio nqu'onaime. Interrogersur la situation of d'un lieu. Comprendre des indications sur la fréquenced'actions.	Comprendreune presentation de catalogue touristique. Comprendre des pictogrammes. Comprendre la description d'un lieu et d'une situation precise dans un message électronique.
Unit III			10 h
Raconter.  ° Décrire les étapesd'une action.	Raconterune scene insolite à l'oreal et à l'écrit.	Comprehendre le récit d ún voyage. Raconterses actions quotidiennes.	Ecrire une biographie a partir d'eléments écrits.
Unit IV			10 h
Exprimer l'intensité et la quantité. ° Interroger.	Raconterune scene insoliteà l'oreal et à l'écrit.	Comprehendre le récit d ún voyage. Raconterses actions quotidiennes.	Ecrire une biographie a partir d'eléments écrits.

### **Text Book**

Make in Own Sentences based on the above Lessons

Unit V

1 LATITUDES 1 (Méthode de français) Pages from 102-127, Author : RegineMérieux, Yves Loiseau( Unit I to IV)



08 h

Course Code	Course Name	Category	L	Т	P	Credit
231EL1A3EA	ENGLISH - III	LANGUAGE- II	3	1	-	3

This course has been designed for students to learn and understand

- the basics of English grammar and specific usage
- the importance of the vocabulary and its use in different contexts
- the necessity of communication and composition writing skills

### **COURSE OUTCOMES**

On the successful completion of the course, students will be able to

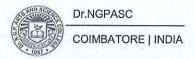
CO Number	CO Statement	Knowledge Level	
CO1	Infer the specific usage of while-listening process	K2	
CO2	CO2 Organize the various abilities and sub-skills involved in reading		
CO3	Utilize the importance of speaking skills and developing it through various practices		
CO4	Master diverse business communication formats and skills	K4	
CO5	Acquire all-round mature outlook to function effectively in different context	K4	

#### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1		and week light him	ge=llynesless	1	1
CO2	✓	1			<b>✓</b>
CO3	<b>✓</b>	interplanta of further	1	1	
CO4	[]	[4]	[4]		
CO5	[<]	[<]	[]	[]	[4]

#### COURSE FOCUSES ON

<b>✓</b>	Skill Development	1	Entrepreneurial Development
1	Employability	1	Innovations
1	Intellectual Property Rights	<b>✓</b>	Gender Sensitization
<b>√</b>	Social Awareness/ Environment	✓	Constitutional Rights/ Human Values/   Ethics



231EL1A3EA

**ENGLISH - III** 

SEMESTER III

Total Credits: 3

Total Instruction Hours: 48 h

# **Syllabus**

# Unit I Listening and Reading

09 h

Listening in casual conversation, Small group and Conference setting - Listening for Factual Information- Barriers of Listening- Developing Listening skills- Poor listening vs Effective Listening - Basics of Reading- Efficient and Inefficient Readers- Advantages of Reading- Four Basic steps of Effective Reading- Stumbling blocks in becoming an effective Reader- Strategies for Comprehending and Retaining content- Effective Note Taking while Reading

# Unit II Speaking

09 h

Purpose of General Conversations- Advantages, Features of a good conversation- Tips for improving Conversation- Public Speaking- Importance of Public Speaking- Benefits, Tips, Overcoming fear of Public Speaking- Preparatory steps - Structuring the contents-Audience Awareness- Mode of Delivery

# Unit III Writing Skills

10 h

Preparing an Effective CV or a Resume with Job Applications- Employers expectation - Organize the material- Useful suggestions- Cover Letter- Content to be included- Tone of the letter- Report Writing- importance- features- Types - main parts- Feasibility report- Accident report- Scientific report- Memos - Introduction- Structure- Proposal Writing

### Unit IV English for Communication & Skill for Employment

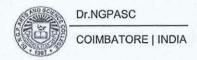
12 h

Notices, Agendas and Minutes- Business correspondence- Speeches- Meetings, Vocabulary Development-Editing Skills, and Reference Skills- Reading and Replying to E-Mails- Making Presentations- Interview Techniques- Group Discussion, and Oral Presentation Skills- Interacting with Superiors, and Listening to Reports and Customer Complaints- Preparing the minutes of a meeting- Presenting Data in Verbal and Non-verbal modes- The Correct Attitude of Employment

#### Unit V Soft Skills

08 h

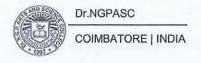
Importance of soft skills- Attributes- Social Skills- Thinking- Negotiating- Exhibiting-Identifying - Soft Skills training - Train Yourself- Practicing soft skills- Measuring attitude – Self-Discovery: Importance of knowing yourself- Process - SWOT analysis - Benefits - Usage - SWOT Analysis grid- Art of Negotiation



### **Text Books**

- Camp and Satterwhite. 1998. College English and Communication. 7th Edition Glencoe Mchrawttill Publishers, New York, Unites States of America. (Unit I, II, III)
- 2 Kumar, Sanjay and Lata Pushp. 2018. Language and Communication Skills for Engineers. First Edition, Oxford University Press, India. (Unit I, II, III)
- Mohan, Krishna and Banerji, Meera. 2009. Developing Communication skills. 2<sup>nd</sup> Edition, Macmillcan, India. (Unit I, II, III, IV)
- 4 Alex. Soft Skills. 2009. S. Chand Publishing, New Delhi, India. (Unit V)

- Ghosh, B.N. Editor. 2017. Managing Soft Skills for Personality Development. McGraw- Hill Education, Chennai, India.
- Miles Craven. 2008. Cambridge English Skills Real Listening and Speaking. First Edition, Cambridge University Press, United Kingdom.
- 3 Mishra, Gauri and Ranjana Kaul. 2016. Language Through Literature. Primus Books, India.
- 4 Pillai G, Radhakrishna. 2000. English for Success. Emerald Publishers, Chennai, India.



Course Code	Course Name	Category	L	T	P	Credit
235CM1A3CA	COST ACCOUNTING	CORE	5	-	-	4

This course has been designed for students to learn and understand

- To learn the concepts of Cost ascertainment
- · preparation of accounts under process costing
- · techniques of operating costing

#### **COURSE OUTCOMES**

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	define the Cost accounting concepts and understand the elements of cost	K1
CO2	understand the various methods of material issue and material control	K2
CO3	apply different methods calculation of labor turnover, wage payment system and classification of overhead among departments	КЗ
CO4	Interpret about process costing, process losses, wastage scrap, Normal and abnormal losses and compute the cost of each process for finished product	К3
CO5	infer the concept of operating cost and Reconciliation statements	K3

### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1	✓	1	✓		
CO2	✓	✓	✓	✓	✓
CO3		✓	<b>✓</b>	✓	✓
CO4	✓			✓	
CO5	/		<b>✓</b>		1

# COURSE FOCUSES ON:

<b>✓</b>	Skill Development	✓ Entrepreneurial Development
<b>✓</b>	Employability	Innovations
	Intellectual Property Rights	Gender Sensitization
	Social Awareness/ Environment	Constitutional Rights/ Human Values/ Ethics

235CM1A3CA

**COST ACCOUNTING** 

SEMESTER III

**Total Credits:** 

4

Total Instruction Hours: 60 h

# **Syllabus**

# Unit I Cost concept and Cost sheet

10 h

Cost Accounting: Meaning, Definition- Nature and Scope - Concept and Classifications - Costing an aid to Management - Differences between Cost and Financial Accounting - Types and Methods of Cost - Elements of Cost - Preparation of Cost Sheet.

Case Study on Preparation of Cost Sheet of various Companies.

## Unit II Material control and Issue

12 h

Material Control: Objectives- Essentials of material Control -Purchase Control-centralised and decentralised purchasing- Procedure and documentation involved in purchasing- Advantages and disadvantages. Stores Control- Requisition for stores -Stock level- EOQ- ABC analysis- JIT. Inventory Control - Techniques of inventory control - Perpetual inventory system-- Methods of valuing material issue - LIFO - FIFO - Simple Average - Weighted Average. Case Study on ABC analysis.

# Unit III Labour costing and Overheads

13 h

Labour: System of wage payment – Idle time – Control over idle time – Labour turnover – Methods of Remuneration and Incentive systems- Time rates system-Piece rate system- Halsey Plan – Rowan Plan.

Overhead: Classification of overheads – Allocation of overhead and Absorption of overhead –Primary distribution -Secondary distribution - Overhead Rates-Computation of Machine Hour Rate.

Case Study on Methods of Remuneration.

# Unit IV Process costing

13 h

Process Costing: Meaning – Features-Advantages and disadvantages of process costing –Distinction between process costing and job costing. Process losses, Wastage, Scrap, Normal process loss – Abnormal loss, Abnormal gain. (Excluding inter process profits and equivalent production)

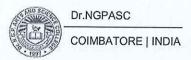
# Unit V Operating costing and Reconciliation statements

12 h

Operating Costing: Meaning- Features- Cost unit in Operating Costing- Transport Costing only- Reconciliation of Cost and Financial Statements- Need- Reasons for disagreement in Profit- Procedure of Reconciliation.

Note: Distribution of Marks: Theory 30% and Problem 70%.

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



#### **Text Books**

- T. S Reddy and Y. Hari Prasad Reddy, (2020), "Cost Accounting", Margham Publications, Chennai.
- Pillai.R.S.N. and Bagavathi (2020), "Cost Accounting", Sultan Chand and CompanyLtd., New Delhi.

- Jain S.P and Narang K.L, (2020), "Cost Accounting", Kalyani Publishers, New Delhi.
- Iyengar. S. P, (2019), "Cost Accounting: Principles and Practice", Sultan Chand & Sons, New Delhi.
- 3 Khan M. Y, (2017), "Cost Accounting", McGraw Hill Education, New Delhi.
- Saxena V, Vashist. C, (2015), "Advanced Cost Accounting", Sultan Chand and CompanyLtd., New Delhi.

Course Code	Course Name	Category	L	Т	P	Credit
235BI1A3CB	COMPANY LAW	Core	4	-	-	4

This course has been designed for students to learn and understand

- · The formation, promotion and winding up procedure of a Company
- Company Management and its regulatory affairs
- The significant provisions of the Companies Act 2013

#### **COURSE OUTCOMES**

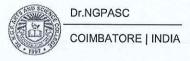
On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Understand the Corporate rules and regulations for establishing the Company form of Organization	K2
CO2	Examine the contents of the Memorandum of Association & Articles of Association	К3
CO3	Describe the Concepts of Director Appointment, Removal and Remuneration	K2
CO4	Apply the requisites of meeting and resolution	K3
CO5	Analyse the modes of winding up	K3

### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1	<b>✓</b>		✓	✓	
CO2		<b>√</b>	1		1
CO3	✓	✓	II ELLA	TO THE OWNER OF	1
CO4	✓	1	na primar M	✓	
CO5		OF THE PROPERTY OF	1	✓	

<b>✓</b>	Skill Development	Entrepreneurial Development
<b>✓</b>	Employability	Innovations
	Intellectual Property Rights	Gender Sensitization
	Social Awareness/ Environment	Constitutional Rights/ Human Values/



235BI1A3CB COMPANY LAW SEMESTER III

**Total Credits:** 

Total Instruction Hours: 48 h

Syllabus

## Unit I Introduction

9 h

Companies Act 2013 – Definition of a Company, Characteristics of Company – Lifting or Piercing the Corporate Veil – Formation and Promotion of a Company – Company Distinguished from Partnership and Limited Liabilities Partnerships – Classification of Companies – Based on Incorporation, Liability, Number of Members, Control.

# Unit II Registration of Companies

10 h

Introduction - Contents of Memorandum - Form of Memorandum-Alteration - Doctrine of Ultra vires - Definition of Articles of Association - Provision for Retrenchment - Contents - Difference between Memorandum and Articles of Association - Meaning of Prospectus - Contents of a Prospectus - Types of Prospectus- Doctrine of Indoor Management - Exception to the indoor Management rule - Shares and Debentures.

Case Law relating to Memorandum and Articles of Association

# Unit III Company Management

10 h

Meaning- Structure of Company Management - Shareholders - Board of Directors - Legal Position of Directors - Composition of the Board of Directors - Number of Director - Appointment - Removal - Remuneration - Independent Director - Qualification and Disqualification - Powers - Duties and Liabilities - Distinctions between Managers and Managing Directors - Corporate Governance.

Case Law relating to Exercising Powers of Director

# Unit IV Company Meetings

10 h

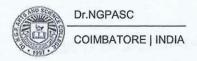
Statutory meeting - Annual General meeting - Extra ordinary General meeting - Board of Directors Meeting - Duties of a Company Secretary to all the company meetings - Drafting of Correspondence relating to the meetings - Notices - Agenda - Chairman's speech - Writing of Minutes-Resolution

# Unit V Winding up of Company

9 h

Meaning, Modes of Winding up – Compulsory Winding up by the court – voluntary Winding up – Types of Voluntary Winding up – Members voluntary Winding up – Creditors voluntary Winding up – Winding up subject to supervision of the court – Consequences of Winding up (General).

Case Law in Winding up of Company



Note: Case studies related to the above topics to be discussed (Examined internal only)

### **Text Books**

- Kapoor N. D, 2019, "Elements of Company Law", Thirty First Edition, Sultan Chand and Sons, New Delhi.
- Reena Chadha and Sumant Chadha, 2019, "Company Law", First Edition Cengage Learning Pvt.Ltd, New Delhi.

- Shanthi.J, 2017, "Company Law and Secretarial Practice", First Edition,
- Margham Publications, Chennai.
- Gulshan .S and Kapoor .G.K , 2019, "Business Law" ,Twenty First Edition,
- 2 New Age Publishers, New Delhi.
  - Sreenivasan M.R, 2017, "Company Law", Third Edition, Margham
- 3 Publications, Chennai.
- Gogna P .P .S ,2016, "Company Law" ,Eleventh Edition, Sultan Chand and Sons, New Delhi.

Course Code	Course Name	Category	L	Т	P	Credit
235BA1A3CA	MODERN DATABASE	CORE	5	-	-	4

This course has been designed for students to learn and understand

- Provide the students to develop skills in data base designing
- Enable the practical knowledge in database information systems and Structure Query Language
- Describe the concept of MongoDB and NoSQL database.

### **COURSE OUTCOMES**

On the successful completion of the course, students will be able to

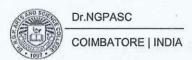
CO Number	CO Statement	Knowledge Level
CO1	Perceive the knowledge about Databases and its model, DBA's task and concepts of ER Modeling.	K1]
CO2	Gain depth knowledge about the DB Architecture and classification of Data Structures of DB	K2]
CO3	Acquainted of Relational Algebra and the deep process about the normalization	K2]
CO4	Acquire the knowledge about the Compare and contrast RDBMS with different NoSQL databases	K3 ]
CO5	Obtain the concept of data extraction using MongoDB	K1]

#### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1	<b>✓</b>		<b>√</b>	1	1
CO2	✓	<b>✓</b>		✓	1
CO3	✓	✓	✓	1	1
CO4	1		<b>✓</b>		
CO5		✓	1	1	1

# COURSE FOCUSES ON

1	Skill Development	✓ Entrepreneurial Development
1	Employability	✓ Innovations
	Intellectual Property Rights	Gender Sensitization
	Social Awareness/ Environment	Constitutional Rights/ Human Values/ Ethics



235BA1A3CA

MODERN DATABASE

SEMESTER III

Total Credits: 4

Total Instruction Hours: 60 h

## Syllabus

# Unit I Database System Applications

12 h

Introduction – What and why Database system? - Data Independence - Database System Applications -Database Systems Vs File Systems – View of Data - Data Models - Database Languages – Database system architecture- Database Users and Administrators- E-R Models - Basic concepts - Constraints - Keys – E-R diagram-.

### Unit II Relational Data Structure

12 h

Relational Approach: Relational Data Structure: Relation, Domain, Attributes, Key and Relational Algebra: Introduction, Traditional Set Operation – Attribute names for derived relations – Special Relational Operations. Normalization process - Introduction- Functional dependency-1 NF-2 NF-3 NF-Boyce-code NF.

## Unit III Introduction to SQL

12 h

Brief Introduction to SQL: Data Definition Language - Data Manipulation Language - Select, Insert, Update and Delete - Data Control Language - Arithmetic, Comparison and Logical Operators - Restricting Data with WHERE clause - Sorting and Grouping the data - Working with Dates - The Relation Model - Keys-Primary Key - Foreign Key - Joins - Types of Joins.

## Unit IV MongoDB

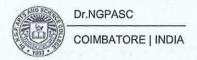
12 h

Big Databases-SQL-NoSQL Tradeoffs - CAP Theorem - Eventual Consistency NoSQL - Database Types - MongoDB- Introduction - MongoDB - Need - MongoDB Vs RDBMS - MongoDB Driver Installation - Configuration - Import and Export MongoDB Server Configuration

#### Unit V Data Extraction Fundamentals

12 h

Data Extraction Fundamentals - Intro to Tabular Formats - Parsing CSV -Parsing XLS with XLRD Parsing XML - Intro to JSON Getting Data into MongoDB - MongoDB - CURD - Database Creation -Update - Read -Delete Using mongo import -Operators like \$gt, \$lt, \$exists, \$regex -Querying Arrays and using \$in and \$all Operators -Changing entries: \$update, \$set, \$unset



### **Text Books**

- Dates C.J, 1998 and 2004, "An Introduction to Database System", Third Edition and Eighth Edition, Naroso Publication House, New Delhi. (Unit-I)
- Persistence Pramod J. and Sadalage Martin Fowler, 2013, "NoSQL Distilled
- 2 A Brief Guide to the Emerging World of Polyglot", Pearson Education, New Delhi.

- Atul Kahate, 2009, "Introduction to Database Management Systems", Third Edition, Pearson Education Publication, New Delhi.
- Abraham Silberschatz, and Henry F. Korth, 2017, "Database Systems concepts", Seventh Edition, Tata Mc Graw Hill Publishing Company Ltd, New Delhi.
- Bipin C. Desai, 2010 "An Introduction to Database System", Eighth Edition, Galgotia Publication, New Delhi.
- Alexis leon, Mathews Leon, 2010, "Fundamentals of Introduction to

  Database Management Systems", Second Edition, Mc Graw Hill Education India Pvt Ltd, Uttar Pradesh.
- Atul Kahate , 2012, "Introduction to Database Management Systems", 10th Impression, Pearson Publication , London

Course Code	Course Name	Category	L	Т	P	Credit
235CO1A3IA	<b>BUSINESS ECONOMICS</b>	IDC	4	-	-	4

This course has been designed for students to learn and understand

- the concept of demand and supply.
- ost and determine price.
- the integrate macroeconomic factors in business decision making.

### **COURSE OUTCOMES**

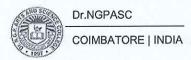
On the successful completion of the course, students will be able to

CO Number	(1) Statement			
co1 identify the concept of demand and consider them in business decision making.		K2		
CO2	associate cost and supply.			
CO3	co3 respond to dynamic macroeconomic factors in business.			
co4 infer the impact of monetary and fiscal policy on the firm.		K2		
CO5	examine a firm's contribution to national income.	КЗ		

### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1		· •	✓		✓
CO2	✓	Med - Alberta	✓		1
CO3	le in the population	✓		1	
CO4	✓	✓		1	✓
CO5	✓	✓		1	

1	Skill Development	✓ Entrepreneurial Development
<b>✓</b>	Employability	✓ Innovations
	Intellectual Property Rights	Gender Sensitization
	Social Awareness/ Environment	Constitutional Rights/ Human Values/ Ethics



235CO1A3IA

#### **BUSINESS ECONOMICS**

SEMESTER III

**Total Credits: 4** 

**Total Instruction Hours: 48 h** 

# **Syllabus**

# Unit I Demand Analysis

8 h

Business Economics: Meaning, Definition, Scope and Significance - Micro and Macroeconomics - Demand: Demand Determinants, Demand Schedules and Demand Curves - Law of Demand - Change in demand and Shift in demand - Types of Demand - Elasticity of Demand: Determinants, Types and Methods of Measuring Price Elasticity of Demand.

Case study on Law of Demand and Supply.

# Unit II Cost, Supply and Business Cycle

9 h

Cost Concepts and its Types - Cost of Production. Supply: Determinants of Supply and Law of Supply - Elasticity of Supply and Types of Elasticity of Supply - Business Cycle: Characteristics and Phases - Controlling Business Cycle.

# Unit III Price Analysis

10 h

Price and Output Decisions in Perfect and Imperfect Market Competition - Legal Constraints in Pricing - Competition Act 2002 - History and Features - Producer Price Index (PPI). Inflation and Deflation: Meaning, Definition, Causes and Consequences - Consumer Price Index (CPI) - Inflation Rate.

# Unit IV Monetary and Fiscal Policy

9 h

Monetary Policy: Meaning and Objectives - Limitations of Monetary Policy - Instruments of Monetary Policy - Monetary Policy Committee (MPC) - Demonetization: Merits and Demerits, History of Demonetization in India - Fiscal Policy: Meaning, Objectives, Instruments and Limitations.

Case study analysis on changes in Monetary policy instruments of RBI.

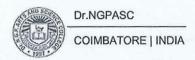
### Unit V National Income

12 h

National Income - Definition and Concepts: GDP, NDP, GNP, NNP, Personal Income (PI), Disposable Personal Income (DPI), Per Capita Income (PCI) and Transfer Payments. National Income Accounting - Methods of Computation - Difficulties in Computation of National Income.

Case study on Gross Domestic Product (GDP).

Note: Case studies related to the above topics to be discussed (Examined internal only)



### **Text Books**

- Sundharam .K.P.M. & Sundharan. E. N., 2020, "Business Economics", Sultan Chand and Sons, New Delhi.
- Varshney. R. L and Maheswari. K .L, 2019, "Managerial Economics", Sultan Chand and Sons, New Delhi.

- 1 Radha, 2021, "Business Economics", Prasanna Publishers and Distributers.
- 2 Sankaran. S., 2015, "Business Economics", Margham Publications, Chennai.
- 3 Ahuja. H. L., 2014, "Business Economics", S. Chand and Company Pvt. Ltd., New Delhi.
- 4 Manab Adhikary, 2010, "Business Economics", Excel Books, New Delhi.

235BA1A3SP

DBMS (SQL, NoSQL, MongoDB)

SEMESTER III

**Total Credits:** 

2

**Total Instructions Hours:** 

48 h

#### S.No

#### Contents

Create a Student table with the following fields and perform Data Definition Language operations.

Field name	Field type and Size
RollNo	Number (5)
Studname Varchar 2(15)	
Gender	Char (6)
Deptname	Char (15)
Address	Char (25)
Percentage	Number (4, 2)

1

#### Queries:

To create a Database, table and List it.

To describe the structure of the student table

To rename a table

To alter a table

To truncate a table

To drop a table

Create a Student table with the following fields and perform Data Manipulation

Language operations.

Field name	Field Type and Size
Rollno	Number (5) Primary key
Studname	Varchar2 (15)
Gender	Varchar2(6)
Deptname	Varchar2(15)
Address	Varchar2 (50)
Percentage	Number (4, 2)

2

#### Queries:

To insert values

To retrieve records

To update records

To delete records

Create an Employee table with following fields and Perform arithmetic and Logical Operations like Min, max, Sum, Average ,Count , AND, OR, IN, Not IN Operations.

Field name	Field Type and Size
Eno	Number (5) primary key
Ename	Varchar2(20) not null
Deptno	Number (2) not null
Designation	Varchar2(10) not null
Salary	Number (9, 2) not null

# 3 Queries:

Insert values

Display Maximum, Minimum amount of basic pay.

Display Sum and Average amount of basic pay

Get Ename named Thomas and Hardy

Get Designation named Marketing Or HR

List all Designation from the Sales, Marketing, HR

List all Salary that are not exactly \$1000, \$2000, \$3000, \$4000 or \$5000

List all Ename that start with 'S' or "SA" and have one more character

List the different designation available in the Employee table without duplication

Dr.NGPASC

(distinct)

COIMBATORE | INDIA

B.Com.BA (Students admitted during the AY 2023-24)

Creation of table Company with the following fields and perform order by and Group

by operations

Field name	Field type and Size
Company name	Varchar2(15)
Proprietor	Varchar2(20)
Address	Varchar2(30)
Supplier name	Varchar2(20)
No of employees	Number(4)
GP percent	Number(6,2)
Country	Varchar2(30)

4

**Oueries** 

Displaying all the records of the company which are in the ascending order of GP percent

List the Company name in each country (Usage of GROUP BY)

List the Company in each country sorted high to low (usage of Order by)

Displaying the details of the company whose GP percent is greater than 20 and order by GP percent

Displaying the detail of the company having the employee ranging from 300 to 1000 Perform the commit and rollback of the table.

Creation of table Payroll with the following fields and inserts the values:

Field Names	Field type
Employee no	Number (8)
Employee name	Varchar(8)
Department	Varchar(10)
Basic pay	Number(8,2)
HRA	Number(6,2)
DA	Number(6,2)
PF	Number(6,2)
Net pay	Number(8,2)

5

Queries:

Updating the records to calculate the net pay.

Arranging the records of employees in ascending order of their net pay.

Displaying the details of the employees whose department is "sales".

Selecting the details of employees whose HRA>=1000 and DA<=900.

Selecting the records in descending order.

List all employee name that have no PF number (NULL)

Creation of the table named Manufacturer and Product with the following fields and inserts the values:

Field Names (Manufacturer)	Field Type	
Manufacturer ID	Number(6) Primary Key	
Manufacturer Name	Varchar2(30)	
Manufacturer Website	Varchar2(30)	
Manufacturer Email	Varchar2(30)	

6

Field Names (Product)	Field Type
Manufacturer ID	Number(6) (Foreign key)
Model	Varchar2(30)
Price	Number(6)

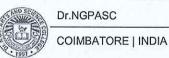
Queries:

Insert values in both table

Retrieve the record whose manufacturer id > 2

Selecting the records whose model like "Inspiring E1705"

Calculating the entire price amount by using sum operation.



Calculating the number of records whose model is greater than \$300 with count operation.

Create a Table Publisher and Book with the following fields and insert values:

Field Names (Publisher)	Field Type
Pubcode	Varchar 2(5) Primary key
Pubname Varchar 2(10)	
Pubcity Varchar 2(12)	
PubState Varchar 2(10)	
Field Names (Book) Field Type	
Pubcode	Varchar2(5) (Foreign key)
Bookcode	Varchar2(5)
Booktitle	Varchar2(15)
Bookprice	Varchar2(5)
	And the second s

7

#### Queries:

Insert the records into the table publisher and book.

Describe the structure of the tables.

Show the details of the book with the title "DBMS" or price>300.

Select the book code, book title; publisher city is "Delhi".

Select the book code, book title and sort by book price.

Count the number of books of publisher starts with "Sultan chand".

Field Names (Order)	Field type
Id	Number(2) unique
Order Date	Varchar2(15)
Order number	Varchar2(15)
Customer Id	Number(5)
Total	Number(5)
Field Names (Customer)	Field type
Id	Number(2) unique
First Name	Varchar2(15)
Last Name	Varchar2(15)
City	Number(5)
Country	Number(5)
Pin Code	Number(10)

8

#### Queries:

Insert values.

List all orders with customer information

List all orders with product names, quantities, and price

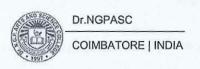
List all customers, whether they placed any order or not (Left Join)

List customers that have not placed orders 10 (Right Join)

Match all customers and suppliers by country (Full Join)

- Design an E-Commerce product catalog system using MongoDB as a storage engine and insert values.
- Perform basic CURD (Create, Update, Read and Delete) functions for the product catalog.
- 11 Implement Map reduces operation with suitable example using MongoDB.
- 12 Perform Sorting, indexing and filter for a dataset (use some real time data set)

Note: Out of 12 Exercise 10 is mandatory



235BA1ASSA

#### **SELF STUDY - BRAND MANAGEMENT**

SEMESTER III

Total Credit: 1

### **Syllabus**

#### Unit I Brand

Definition - Concept of a brand - Brands and products- Brand perspectives: The six possibilities - Branding challenges and opportunities - Anatomy of a brand - Brand evolution - Brand levels - Value hierarchy

# Unit II Brand positioning

Meaning - Concept - Evolution of brand positioning - Position and Product position - 3 C's of positioning - Competitive positioning: POP's and POD's - Positioning strategy - On line positioning- On brand equity - Definition - Measuring brand equity - Building brand equity

#### Unit III Brand and consumers

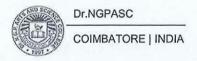
The Buying decision - Consumer perspectives - Consumer decision making - Post purchase behaviour - Brand selection - Building superior brands - Key drives of buying.

#### Unit IV Brand and firm

Brand and firm - Product building - Line branding- Range branding - Umbrella branding - Source/ double - Endorsement branding- Brand relationship spectrum- Choosing a branding strategy - Global Branding Strategies - Brand Valuation - Methods.

# Unit V Managing brand image

Managing brand image - Concept management - Functional brands - Symbolic brands - Experiential brands - Forces affecting brands - Brand revitalization - Brand elimination - Brand extension - Types - Brand extendibility.



- Harsh .V Verma, 2016, "Brand Management", 3rd Edition, Excel Books, New Delhi .
- Bhall. A.K , 2011, "Brand Management", 2nd Edition, Macmillan Publication ,New Delhi .

- Mahim, Sagar, 2009, "Brand Management", 2nd Edition, Ane Books, New Delhi.
- 2 Subroto Sengupta, 2010, "Brand Positioning strategies for competitive Advantage", 2nd Edition, Tata McGraw Hill, New Delhi.
- 3 Lan Batey Asian Branding, 2002, "A great way to fly", 4th Edition, Prentice Hall of India, Singapore
- 4 Kevin Lane Keller, 2003, "Strategic brand Management", 5th Edition, Person Education, New Delhi,.

235BA1ASSB

#### SELF STUDY -FUNDAMENTALS OF BANKING

SEMESTER III

Total Credit: 1

### **Syllabus**

### Unit I Banking

Banking – Definition - Role and Functions of Banks - Structure of commercial Banks in India - Public, Private and Foreign Banks - Relationship between a Banker and a Customer - Recent Developments in Banking Industry.

#### Unit II Customer's Accounts with the Banker

Types of Deposits Account- Fixed deposit accounts - Savings deposit accounts - Recurring Deposit - Current account- Operating the Bank Account- Legal Aspects of Entries in the pass book- Inoperative Accounts - Closing of a bank Account.

# Unit III Negotiable Instrument

Negotiable instruments - Definition- Essential Features of Negotiable instruments - Types- Definition of Cheque, Promissory note and Bill of Exchange - Difference between Cheque and Bill of Exchange - Salient features of a cheque.

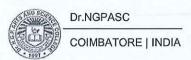
### Unit IV Cheques

Payment of Cheques: Precautions to be taken by the paying banker-Proper form of a cheque-Date and amount of the cheque - Material alterations - Statutory protection to the paying banker.

# Unit V E-Banking

E-Banking – Introduction - Concepts and Meaning - Electronic delivery channels – E-banking transactions- Truncated cheque and electronic cheque- Mobile banking - Modes of mobile banking – Advantages – Constrains in E-banking - Security measures.

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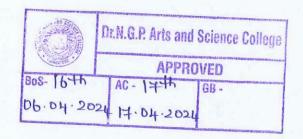
- Sundharam & Varshney, 2014, "Banking Theory Law and Practice", 20th Revised edition, Sultan Chand & Sons, New Delhi.
- Gordon E, 2017, "Banking Theory: Law and Practice", 26th Revised Edition, Himalaya Publication house, Mumbai,.

#### References

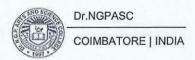
- 1 Kandasami. K.P, Natarajan S and Parameswaran R, 2014, "Banking law and Practice", 7th Revised Edition, S.Chand & Company, Chennai.
- 2 S.Arunajatesan & S.Radhakrishnan, 2013, "Bank Management", Reprinted, Margham Publications, Chennai.
- Warshney P.N., 2014, "Banking Law & Practice", 25th Thoroughly Rev. & Enlarged Edn., Sultan Chand & Sons.
- 4 Santhanam B, 2017, "Banking and Financial System", 5th Edition, Marghan Publications, Chennai.

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Coimbatore – 641 048







	Course Code	Course Name	Category	L	Т	Р	Credit
231	TL1A4TA	TAMIL - IV	LANGUAGE- I	3	1	-	3

This course has been designed for students to learn and understand

- மொழிப்பாடங்களின் வாயிலாக தமிழரின் பண்பாடு நாகரீகம், பகுத்தறிவு ஆகியவற்றை அறியச் செய்தல்
- கலை மற்றும் மரபுகளை அறியச் செய்தல்
- ் மாணவர்களின் படைப்பாக்கத்திறன்களை ஊக்குவித்தல்

#### **COURSE OUTCOMES**

On the successful completion of the course, students will be able to

CO Number	CO Statement	
CO1	வாழ்க்கைத் திறன்கள் (Life Skills)- மாணவர்களின் செயலாக்கத் திறனை ஊக்குவித்தல்	К3
CO2	மதிப்புக்கல்வி (Attitude and Value education)	K4
CO3	பாட இணைச்செயல்பாடுகள் (Co-curricular activities)	K4
CO4	சூழலியல் ஆக்கம் (Ecology)	K4
CO5	மொழி அறிவு (Tamil knowledge)	K5

#### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1	1			1	
CO2		1		/	
CO3		1 2	1	1	
CO4				1	1
CO5			1	/	1

#### **COURSE FOCUSES ON**

✓ Skill Development	Entrepreneurial Development
Employability	Innovations –
Intellectual Property Rights	Gender Sensitization
Social Awareness/ Environment	Constitutional Rights/ Human Values/



231TL1A4TA TAMIL-IV SEMESTER IV

**Total Credits:** 3

Total Instruction Hours: 48 h

# **Syllabus**

# Unit I எட்டுத்தொகை

10 h

1. நற்றிணை – குறிஞ்சித் திணை

l.பா.எண் : 01 – கபிலர்

II.பா.எண் : 88 – நல்லந்துவனார்

III.பா.எண் : 102 – செம்பியனார்

2. குறுந்தொகை – முல்லைத்திணை

l.பா.எண் : 65 *–* கோவூர்கிழார்

II. பா.எண் : 167 – கூடலூர்கிழார்

மருதத்திணை

l.பா.எண் : 08 *–* ஆலங்குடி வங்கனார்

II.பா.எண் : 61 *–* தும்பிசேர்கீரனார்

III.பா.எண் :196 – மிளைக் கந்தன்

நெய்தல் திணை

l.பா.எண் : 57 – சிறைக்குடி ஆந்தையார்

# Unit II எட்டுத்தொகை

08 h

1. கலித்தொகை – பாலைக்கலி

l.பா.எண் : 09 *–* பெருங்கடுங்கோ

2. அகநானுறு - மருதத்திணை

l.பா.எண் : 86 – நல்லாவூர்கிழார்

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l.பா.எண் : 188 – பாண்டியன் அறிவுடை நம்பி

II.பா.எண் : 192 – கணியன் பூங்குன்றனார்

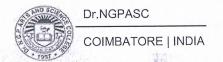
III.பா.எண் : 279 – ஒக்கூர் மாசாத்தியார்

IV.பா.எண் : 312 – பொன்முடியார்

# Unit III பத்துப்பாட்டு

10 h

1. பட்டினப் பாலை – கடியலூர் உருத்திரங் கண்ணனார் -1முதல் 218 வரிகள் வரை மட்டும்.



# Unit IV இலக்கிய வரலாறு

10 h

- 1. எட்டுத் தொகை நூல்கள்
- 2. பத்துப்பாட்டு நூல்கள்

# Unit V இலக்கணம் மற்றும் திறனாய்வுப் பகுதி

10 h

# l. இலக்கணம்

- 1. அகத்திணை அன்பின் ஐந்திணை விளக்கம்
- 2. புறத்திணை 12 திணைகள் விளக்கம்

II. பயிற்சிப் பகுதி

சங்கப் பாடல்கள் குறித்து திறனாய்வு செய்தல்.

Note: பயிற்சிப் பகுதியில் வினாக்கள் அமைத்தல் கூடாது.

#### **Text Book**

செய்யுள் திரட்டு - மொழிப் பாடம் - 2023- 24

1 தொகுப்பு: தமிழ்த்துறை, டாக்டர் என்.ஜி.பி. கலை அறிவியல் கல்லூரி,(Unit I - V)

- பேராசிரியர் புலவர் சோம. இளவரசு, எட்டாம் பதிப்பு -2014, தமிழ் இலக்கிய வரலாறு - மணிவாசகர் பதிப்பகம், சென்னை. போசிரியர் முனைவர் பாக்கியமேரி, முதற் பதிப்பு- 2013,
- 2 இலக்கணம் -இலக்கிய வரலாறு மொழித்திறன் -பூவேந்தன் பதிப்பகம், சென்னை.
- 3 தமிழ் இணையக் கல்விக்கழகம்.<http://www.tamilvu.org/>

Course Code	Course Name	Category	L	Т	P	Credit
231TL1A4HA	HINDI - IV	LANGUAGE- I	3	1	-	3

This course has been designed for students to learn and understand

- the writing ability and develop reading skill
- the various concepts and techniques for criticizing literature
- the techniques for expansion of ideas and translation process

#### **COURSE OUTCOMES**

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Learn the fundamentals of novels and stories	K1
CO2	Understand the principles of translation work	K2
CO3	Expose the knowledge writing critical views on fiction	K2
CO4	Build creative ability	К3
CO5	Apply the power of creative reading	К3

#### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1		1		1	
CO2	1		1		<b>✓</b>
CO3		1		1	
CO4	1		1	1	
CO5	1	1			/

#### **COURSE FOCUSES ON**

<b>✓</b>	Skill Development	-	Entrepreneurial Development
✓	Employability	_	Innovations
_	Intellectual Property Rights	-	Gender Sensitization
-	Social Awareness/ Environment	-	Constitutional Rights/ Human Values/ Ethics

231TL1A4HA	HINDI- IV	SEMESTER IV

**Total Credits:** 3

Total Instruction Hours: 48 h

**Syllabus** 

 Unit I
 10 h

 चाटक
 10 h

 Unit II
 10 h

 एकांकी
 10 h

 Unit III
 10 h

 काव्य मंजरी
 10 h

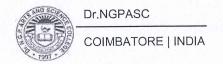
 प्रा । ए
 10 h

 सूचना लेखन
 08 h

### **Text Books**

अनुवाद अभ्यास-॥।

- 1 लडाई सर्वेश्वरदयाल सक्सेना प्रकाशक: वाणी प्रकाशन 21-A, दरियागंज नई दिल्ली-110002. (Unit I)
- एकांकी पंचामृत डाँ राम कुमार (भोर और तारा छोड्कर) प्रकाशक: जवाहर पुस्तकालय सदर बाजार, मथुरा उत्तर प्रदेश-281001. (Unit II)
- काव्य मंजरी- (डा मुन्ना तिवारी) मैथिलीशरण गुप्त- मनुष्यता, जयशंकर प्रसाद- बीती विभावरी जागरी सूर्यकान्त त्रिपाठी निराला- तोडती पत्थर और भिक्षुक. (Unit III)
- 4 सूचना लेखन पुस्तक: व्याकरण प्रदिप रामदेव प्रकाशक: हिन्दी भवन 36 इलाहाबाद -211024. (Unit IV)
- उनुवाद अभ्यास (केवल अंग्रेजी से हिन्दी में) (पाठ 10 to 20) प्रकाशक: दक्षिण भारत प्रचार सभा चेनैई -17 (पाठ10 to 20). (Unit V)



Course Code	Course Name	Category	L	Т	P	Credit
231TL1A4MA	MALAYALAM- IV	LANGUAGE - I	3	1	-	3

This course has been designed for students to learn and understand

- 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

#### **COURSE OUTCOMES**

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Learn the fundamentals of novels and stories	K1
CO2	Understand the principles of translation work	K2
CO3	Expose the knowledge writing critical views on fiction	K2
CO4	Build creative ability	K3
CO5	Apply the power of creative reading	K3

### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1			1	1	1
CO2	1	1			
CO3			1	1	
CO4					
CO5	1	1	1		✓

### **COURSE FOCUS ON**

<b>✓</b>	Skill Development	-	Entrepreneurial Development
<b>✓</b>	Employability	_	Innovations
-	Intellectual Property Rights	-	Gender Sensitization
-	Social Awareness/ Environment	-	Constitutional Rights/ Human Values/ Ethics

231TL1A4MA MALAYALAM-IV SEMESTER IV

Total Credits: 3

Total Instruction Hours: 48 h

# Syllabus

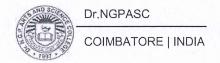
Unit I Drama 10 h Saketham-Sreekandan Nair Unit II Drama 10 h Saketham-Sreekandan Nair Unit III 10 h Drama Saketham-Sreekandan Nair Unit IV Screen Play 10 h Perumthachan-Vasudevan Nair Unit V Screen Play 08 h Perumthachan-Vasudevan Nair

### **Text Books**

- Nair, Sreekandan C.N. 2023. Saketham, Drama. DC Books Kottayam, Kerala, India. (Unit I to III)
- Nair, Vasudevan M.T. 1994. Perumthachan- Screenplay. DC Books Kottayam, Kerala, India. (Unit IV & V)

### Reference

Sankarapillai. 2005. Malayala Nataka Sahithya Charithram, Kerala Sahithya Akademi Publishers, Kerala, India.



Course Code	Course Name	Category	L	Т	P	Credit	
231TL1A4FA	FRENCH - IV	LANGUAGE- I	3	1	-	3	

This course has been designed for students to learn and understand

- the Competence in General Communication Skills Oral + Written- 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

#### **COURSE OUTCOMES**

On the successful completion of the course, students will be able to

CO Number	(O) Statement	
CO1	K1	
CO2	K2	
CO3	Select the Plural, Articles and the Hobbies	K2
CO4	Measure the Cultural Activity in France	КЗ
CO5	Evaluate the sentiments, life style of the French people and the usage of the conditional tense	К3

#### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1	1	1			1
CO2			1		
CO3	1	1		1	
CO4	/	1	1		1
CO5				/	/

#### **COURSE FOCUSES ON**

✓ <b>.</b>	Skill Development	 Entrepreneurial Development
<b>✓</b>	Employability	 Innovations
	Intellectual Property Rights	Gender Sensitization
	Social Awareness/ Environment	 Constitutional Rights/ Human Values/ Ethics

231TL1A4FA FRENCH - IV SEMESTER IV

**Total Credits:** 3

Total Instruction Hours: 48 h

Syllabus

Unit I

10 h

°Décrirequelqu'un.	En milieu	S'exprimersur les styles	Comprendre la
° Comparer	professional,	de vêtemantReconnaitre	description de
	recruiter	des personnes à partit	personnesdans un
	quelquún et	de descriptions.	extrait de roman.
	justifier sonchoix.		

Unit II

10 h

ExprimerPaccord	En milieu	Décrire des personnes.	Comprendre des
ou le désaccord.	professional,	Comprendre des	différences de points
° Se situerdans le	recruiter	personnes qui	de
temps.	quelquún et	experiment leur accord	vueexprimétesdans
	justifier sonchoix.	ouleurdésaccord.	de message
			électronique.
			Raconter
			unsourvenir.

Unit III

10 h

_						
0	Parler	de	Discuter	de	Comprendreune	Comprendre le
	Pavenir.		l'organisation	d'un	chanson.	message d'une
			voyage	de		
			groupepuisprép fiche projet	parerune	de vacancy	d'anniversaire
			templit.			

Unit IV

10 h

(	Exprimer des		de	Discuter	du	Comprendre le
	souhaits. °	l'organisation	d'un	programme	de la	message d'une
	Décrirequelq	voyage	de	soire à		
	u'u n	groupepuisprépare		/ luul Loot.	des	d'anniversaire
		fiche projet et	la	souhaits	à	
		templit.		quelqu'un.		

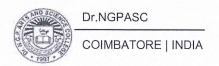
Unit V

08 h

Make in Own Sentences based on the above Lessons

#### **Text Book**

1 LATITUDES 1 (Méthode de français) Pages from 128-151, Author : Regine Mérieux, Yves Loiseau (Unit I to IV)



Course Code	Course Name	Category	L	Т	P	Credit
231EL1A4EA	ENGLISH - IV	LANGUAGE II	3	1	-	3

This course has been designed for students to learn and understand

- how language shapes society, enhancing critical reading, writing, and thinking skills through various literary forms
- the fundamentals of writing, including essay composition, persuasive communication, and creative expression
- the process of critical thinking through the analysis of literature

# **COURSE OUTCOMES**

On the successful completion of the course, students will be able to

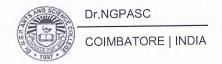
CO Number	CO Statement	Knowledge Level
CO1	summarize main points and supporting details from listening to public addresses and demonstrate poem comprehension.	K2
CO2	demonstrate clear and expressive speech while engaging in role-play and dramatization activities.	К3
CO3	interpret textual elements such as themes, tone, and authorial intent in various reading materials.	К3
CO4	produce clear summaries and paraphrases, maintaining the essence of the original text.	К3
CO5	prepare for job interviews by employing appropriate interview techniques, confidence, and professionalism.	K3

# MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1	✓		✓	<b>√</b>	
CO2	<b>√</b>			<b>✓</b>	
CO3	<b>√</b>	✓	<b>✓</b>	<b>✓</b>	<b>✓</b>
CO4	<b>√</b>		✓	<b>✓</b>	
CO5	✓	<b>✓</b>	<b>√</b>	✓	<b>✓</b>

#### **COURSE FOCUSES ON**

<b>✓</b>	Skill Development	<b>✓</b>	Entrepreneurial Development
<b>✓</b>	Employability		Innovations
	Intellectual Property Rights		Gender Sensitization
<b>✓</b>	Social Awareness/ Environment		Constitutional Rights/ Human Values/ Ethics



231EL1A4EA

**ENGLISH-IV** 

SEMESTER IV

Total Credits: 3

Total Instruction Hours: 48 h

### **Syllabus**

# Unit I Listening

10 h

Nissim Ezekeil - Goodbye Party for Miss Pushpa T.S.

D.H. Lawrence - Last Lessons of the Afternoon

Dr. APJ Abdul Kalam's speech at European Union

Listening for subtext – Tone and Emotion – Vivid Language and Pacing – Listening for Vision and Hope – Use of Storytelling

Punctuations: Periods, Commas, Semicolons, Colons, Apostrophes, Ellipses, Exclamation Points

# Unit II Speaking

10 h

Oscar Wilde - The Importance of Being Earnest

Direct Speech and Indirect Speech - Commands and Requests, Exclamations and Wishes, Conversion of Indirect to Direct

Rules for changing direct speech into indirect speech

# Unit III Reading

09 h

Gita Hariharan - The Remains of the Feast -

Langston Hughes - Thank You M'am

Making Inferences and Predictions - Identifying Author's Purpose and Tone- Contextual Vocabulary Building

Tenses: The Uses of Present, Past and Future Tenses

# Unit IV Writing Skills

10 h

George Orwell - Why I Write

Summarizing vs. Paraphrasing - Expressing Purpose and Intent in Writing- Constructing Strong Arguments and Opinions

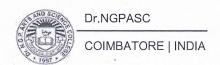
Grammar - Paraphrasing - Use of Paraphrasing, Characteristics of a good paraphrase, The Paraphrase of Poetry, Special Hints, Method of Procedure

#### Unit V Soft Skills

09 h

**Steve Jobs - 2005 Stanford Commencement Address -** Effective Communication - Presentation Skills

Business Corporate Soft Skills - Six common corporate conversation faux pas, Decision making Techniques, Negotiation Styles Job Interviews - Preparatory Steps for Job Interviews - Interview Skill Tips



- Straus, Jane, Lester Kaufman, and Tom Stern, editors. The Blue Book of Grammar and Punctuation: An Easy-to-Use Guide with Clear Rules, Real-World Examples, and Reproducible Quizzes. 12th ed., Jossey-Bass, 2021. (Unit I)
- Wilde, Oscar. The Importance of Being Earnest. Edited by Norman Page, 2nd ed., Penguin Classics, 2000. (Unit II)
- Hariharan, Gita. The Remains of the Feast. 1st ed., Penguin Books India, 1992. (Unit III)
- Orwell, George. "Why I Write." George Orwell: An Anthology of His Prose, edited by John Carey, Harcourt, 2000. pp. 232-237. (Unit IV)
- Meyer, John. The Soft Skills Handbook for Corporate Success: Essential Strategies for Business Professionals. 2nd ed., Business Insights, 2020. (Unit V)

- Lawrence, D.H. The Complete Poems of D.H. Lawrence. Edited by V.J. Harding, 1st ed., Heinemann, 1992.
- Buczynski, Mark. Soft Skills for the Workplace: How to Build Successful Relationships and Advance Your Career. 2nd ed., Wiley, 2018.
- Hughes, Langston. "Thank You, M'am." The Penguin Anthology of American Poetry, edited by Rita Dove, Penguin Books, 2006, pp. 530-533.
- Nelson, Brian. The Soft Skills Handbook: Essential Skills for the Workplace. 3rd ed., Business Publishing, 2019.

Course Code	Course Name	Category	L	Т	P	Credit
235PA1A4CA	CORPORATE ACCOUNTING	CORE	5	1	-	4

This course has been designed for students to learn and understand the basic knowledge about procedure for Issue, Redemption of Shares and

- Debentures and Profit Prior to Incorporation.
- practical applications of Final Accounts of Companies.
- the methods of valuation of Goodwill and Shares and modes of Liquidation of companies.

#### **COURSE OUTCOMES**

On the successful completion of the course, students will be able to

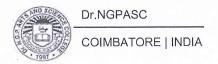
CO Number	CO Statement	Knowledge Level
CO1	know the Issue of Shares, Forfeiture, Re – issue, Surrender, Right Issue and Underwriting.	K1
CO2	obtain the knowledge of Redemption of Preference Shares, Redemption of Debentures and Profit Prior to Incorporation.	K2
CO3	learn the Knowledge of Final Accounts Companies under Companies Act, 2013 which include Calculation of Managerial Remuneration.	K2
CO4	classify the methods of Valuation of Goodwill and Shares.	K3
CO5	acquire knowledge about Liquidation of Companies and modes of Winding-up.	КЗ

#### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5
CO1	<b>✓</b>	<b>✓</b>	✓		<b>✓</b>
CO2	<b>√</b>		<b>√</b>	✓	<b>√</b>
CO3	<b>√</b>	<b>√</b>	<b>√</b>	✓	✓
CO4	✓	✓		✓	
CO5		✓	✓		<b>√</b>

#### **COURSE FOCUSES**

<b>✓</b>	Skill Development	<b>√</b>	Entrepreneurial Development
<b>1</b>	Employability	<b>✓</b>	Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Rights/ Human Values/ Ethics



235PA1A4CA

### **CORPORATE ACCOUNTING**

SEMESTER IV

Total Credits: 4

Total Instruction Hours: 72 h

Syllabus

# Unit I Issue of Shares

14 h

Issue of shares: Par, Premium and Discount - Forfeiture - Reissue - Surrender of Shares - Issue of Bonus shares - Right Issue - Underwriting.

Case study on Underwriting

# Unit II Redemption of Preference Shares and Debenture

16 h

Redemption of Preference Shares: Provisions of the companies Act - Debentures - Issue - Treatment of different items relating to debenture in final accounts - Redemption - Methods of redemption of Debenture - Sinking Fund Method - Insurance Policy method- Profit Prior to Incorporation.

# Unit III Final Accounts of Companies

15 h

Final Accounts of Companies: Managerial Remuneration - Remuneration payable to different categories of managerial personnel - Calculation of Managerial remuneration. Trading Account - Profit and Loss Account - Profit and Loss Appropriation Accounts - Balance sheet.

Case study on Managerial Remuneration

# Unit IV Valuation of Goodwill and Shares

15h

Valuation of Goodwill and Shares: Need - Methods of valuation of Goodwill - Average Profit method - Super Profit Method - Capitalization Method - Methods of valuation of Shares - Net Asset Method - Yield Method - Fair value Method.

# Unit V Liquidation of Companies

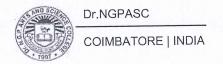
12 h

Liquidation of Companies: Modes of Winding up - Statement of Affairs - Deficiency Account or Surplus Account - Liquidator's Final Statement of Account.

Case study on Liquidation of Companies.

Note: 80% Problem and 20% Theory

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



- Reddy T.S. & Murthy A., 2022, (Reprint-2024), "Corporate Accounting", (6th Edition.), Margham Publications, Chennai.
- Jain S.P. & Narang K.L.,2017, "Advanced Accounting", (21st Edition.), Kalyani Publishers, New Delhi.

- Hanif M. & Mukherjee A., 2013, "Advanced Accounting", The McGraw Hill Publishing Company Limited, NewDelhi.
- Joseph T., 2017, "Corporate Accounting",(Vol-1), The McGraw-Hill Publishing Company Limited, NewDelhi.
- Dr. M.A. Arulanandam, & Dr. K.S. Raman, 2014, "Advanced Accountancy", (19th Edition.), Himalaya Publishing House, New Delhi
- Gupta R.L. & Radhaswamy M., 2021, "Corporate Accounting", Sultan Chand & Sons., New Delhi.

Course Code	Course Name	Category	L	Т	P	Credit
235BA1A4CA	DATA MINING AND BUSINESS INTELLIGENCE	CORE	4	-	-	4

This course has been designed for students to learn and understand

- the basic concepts and techniques of Data Mining
- about BI Management and Implementation
- the development and implementation of machine learning concepts and its tools

#### **COURSE OUTCOMES**

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	know about basics of Data Mining	K1
CO2	analyze the data preprocessing and visualization techniques	K2
CO3	procure the knowledge about transaction and analytics process and its tools	К3
CO4	demonstrate dashboards and data mining tools and SDLC	K2
CO5	analyze the knowledge in BI with databases, privacy, ethics in BI	K4

### MAPPING WITH PROGRAMME OUTCOMES

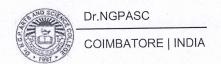
COs/POs	PO1	PO2	PO3	PO4	PO5
CO1	✓	✓	✓	✓	
CO2	<b>✓</b>				✓
CO3		<b>√</b>	<b>√</b>	<b>✓</b>	<b>√</b>
CO4		<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
CO5	<b>✓</b>	✓	✓	<b>√</b>	<b>✓</b>

Course Focuses on
✓ Entrepreneurial Development

✓ Employability
✓ Innovations

Intellectual Property Rights
Gender Sensitization

Social Awareness/ Environment
Constitutional Rights/ Human Values/ Ethics



235BA1A4CA

# DATA MINING AND BUSINESS INTELLIGENCE

SEMESTER IV

**Total Credits: 4** 

Total Instruction Hours: 48 h

# **Syllabus**

# Unit I Basics of Data Mining Concepts

10 h

Introduction to Data mining - Related technologies - Machine Learning-DBMS-OLAP- Statistics -Data Mining Goals - Stages of the Data Mining Process - Data Mining Techniques - Knowledge Representation Methods - Applications- Data Warehouse and OLAP - Data Warehouse and DBMS - Multidimensional data model - OLAP operations

# Unit II Data Preprocessing

9 h

Data preprocessing- Data cleaning - Data transformation - Data reduction - Discretization and generating concept hierarchies - Installing Weka 3 Data Mining System- Data mining knowledge representation - Task relevant data - Background knowledge of different datasets

Case study in social media data Preprocessing

# Unit III Attribute-Oriented analysis

9 h

Interestingness measures - Representing input data and output knowledge - Visualization techniques- Attribute-oriented analysis - Casual Analysis - Attribute generalization - Attribute relevance - Class comparison - Statistical measures

# Unit IV Business Performance Management

10 h

Business Performance Management - Strategize - Plan - Monitor - Performance Measurement - BPM Methodologies - Performance Dashboards and Scorecards-Data Mining for Business Intelligence - Concepts and Definition - Applications - Process - Methods - Artificial Neural Networks - Data Mining Software Tools-SDLC Life cycle

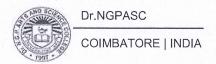
Case study in Supervised / Unsupervised Learning through google

# Unit V Business Intelligence Implementation

10 h

Business Intelligence Implementation-Integration and Emerging Trends – Implement BI – BI and Integration – Connecting BI systems to Databases and other enterprise systems – On Demand BI – Issues of Legality, Privacy and Ethics Emerging Topics in BI

Case study in Advertising channel for health care



**Note:** Case studies related to the above topics to be discussed (Examined internal only)

#### **Text Books**

- Ian H. Witten and Eibe Frank, 2005, "Data Mining: Practical Machine Learning Tools and Techniques", Second Edition,, Morgan Kaufmann publications.
- Efraim Turban, Ramesh Sharda, Dursun Delen, David King, 2012, "Business Intelligence a Managerial Approach", Second Edition,, Pearson Education.

- Jiawei Han and Micheline Kamber, 2006, "Data Mining: Concepts and Techniques", 2nd Ed, Morgan Kaufman.
- 2 M. H. Dunham, 2001, "Data Mining: Introductory and Advanced Topics", 2nd Ed., Pearson Education
- Galit Shmueli ,Nitin R. Patel , Peter C. Bruce, 2011, "Data Mining for Business Intelligence", Reprint 2008, Wiley India Pvt ltd.
- Prasad R.N. and Seema Acharya, 2014, "Fundamentals of Business Analytics", Current Edition, Wiley Publisher, New Delhi

Course Code	Course Name	Category	L	Т	P	Credit
235BA1A4CB	PRINCIPLES OF MANAGEMENT	CORE	4	-	200	4

This course has been designed for students to learn and understand

- the basic principles and elements of effective management
- the managerial actions of planning, organizing and motivation
- the leadership qualities and effective controlling.

#### **COURSE OUTCOMES**

On the successful completion of the course, students will be able to

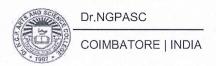
CO Number	CO Statement	Knowledge Level
CO1	integrate the management principles into management practices	K2
CO2	understand the planning and decision-making process in the organization	K2
CO3	analyse the organisational practices through proper delegation of authority and responsibility	K3
CO4	describe 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	K2

#### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3 PO4		PO5
CO1	✓	<b>√</b>	<b>√</b> ✓		
CO2	✓			√ ′	<b>√</b>
CO3	✓	✓	✓	<b>√</b>	✓
CO4				✓	
CO5	✓	<b>✓</b>	<b>√</b>		<b>√</b>

Course Focuses on

✓	Skill Development	✓	Entrepreneurial Development
<b>√</b>	Employability	<b>1</b>	Innovations
<b>✓</b>	Intellectual Property Rights		Gender Sensitization
<b>✓</b>	Social Awareness/ Environment	<b>√</b>	Constitutional Rights/ Human Values/ Ethics



235BA1A4CB

# PRINCIPLES OF MANAGEMENT

SEMESTER IV

**Total Credits: 4** 

Total Instruction Hours: 48 h

# Syllabus

# Unit I Basics of Management Principles

9 h

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)- Organisation Culture and Environment -21st Century Management Skills.

Case study in Management by objectives

# Unit II Planning and Decision Making

10 h

Planning - Definition - Nature - Objectives - Advantages and Disadvantages - Process - Types - Decision Making - Types - Traditional and Modern Techniques - Steps involved in Decision Making- Rational Decision Making.

Case study in Planning

# Unit III Organization Structure and Delegation of Authority

10 h

Organization - 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 in Organizational Structure and Directing

# Unit IV Staffing Motivation and Leadership

10 h

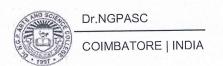
Meaning and Definition – Functions – Recruitment - Sources of Recruitment – Training- Performance Appraisal – 360 Degree Appraisal Method – Assessment Center Method- Motivation – Importance of Motivation – Maslow's Theory of Motivation – X, Y and Z Theories (Mcgregor theory & william Ouchi Theory) - Leadership – Types – Qualities of a Good Leader- Leadership styles

# Unit V Control and its Techniques

9 h

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.

**Note:** Case studies related to the above topics to be discussed (Examined internal only)



- Dinkar Pagare, 2018, "Principles of Management", Sixth Edition, Sultan Chand & Sons and New Delhi.
- Ramaswamy.T., 2012, "Principles of Management", Eighth Edition, Himalaya Publishing Home Pvt Ltd and Mumbai

- Govindarajan. M., 2008. "Principles of Management", First Edition, PHI and New Delhi.
- Prasad L.M., 2015, "Principles and Practice of Management", Eigth Edition, Sultan Chand & Sons and New Delhi.
- Tripathi P C, Reddy P N, 2017, "Principles of Management", Sixteenth Edition, MaGraw Hill Education and New Delhi.
- 4 Mitra, J.K 2017, "Principles of Management", First Edition, Oxford University Press

Course Code	Course Name	Category	L	Т	P	Credit
232MT1A4IB	OPTIMIZATION TECHNIQUES	IDC	4	-	-	4

This course has been designed for students to learn and understand

- the concept of solving LPP
- the effectiveness of optimal solution
- the concept of critical path analysis of a method to examine its project management

### **COURSE OUTCOMES**

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	explain the real-world problem as a mathematical programming model	K1
CO2	apply the concept of a Transportation Model to develop the optimal solution	КЗ
CO3	apply the concept of Assignment problems in various job allocations	K3
CO4	solve strategic decision-making using game theory	K2
CO5	analyze the critical path method to solve real life project scheduling	K2

#### MAPPING WITH PROGRAMME OUTCOMES

COs/POs	PO1	PO2	PO3	PO4	PO5	
CO1	<b>√</b>	✓	✓		<b>✓</b>	
CO2	<b>√</b>	✓		<b>✓</b>	<b>✓</b>	
CO3	✓	✓		✓	<b>√</b>	
CO4	✓	✓		<b>✓</b>	1	
CO5	<b>✓</b>	<b>√</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	

### COURSE FOCUSES ON

<b>√</b>	Skill Development	Entrepreneurial Development
<b>✓</b>	Employability	Innovations
	Intellectual Property Rights	Gender Sensitization
	Social Awareness/ Environment	Constitutional Rights/ Human Values/ Ethics

232MT1A4IB OPTIMIZATION TECHNIQUES SEMESTER IV

**Total Credits: 4** 

**Total Instruction Hours:** 48 h

# **Syllabus**

# Unit I Introduction to Operations Research

9 h

Origin and development - nature and features - modelling - general solution methods - scientific method - methodology - applications - Linear programming problem - mathematical formulation - graphical solution method - some exceptional cases.

# Unit II Transportation Problem

9 h

General Transportation problem - transportation table - duality in transportation - loops in transportation tables - LP formulation - solution - finding an initial basic feasible solution - test for optimality.

# Unit III Assignment Problem

10 h

Mathematical Formulation - The Assignment Method - Special cases in Assignment problems - Travelling salesman problem.

# Unit IV Games and Strategies

10 h

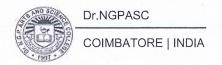
Games theory – two-person zero sum games - some basic terms - the maximin-minimax principle - games without saddle points-mixed strategies - graphic solution of 2xn and mx2 games - dominance property.

### Unit V PERT and CPM

10 h

Network and basic components - logical sequencing - rules of network construction - critical path analysis - probability considerations in PERT - Distinction between PERT and CPM.

Note: Distribution of marks 80% Problem and 20% Theory



Kanti Swarup, P.K Gupta, Man Mohan, 2003, "Operations Research", 5th Edition, Sultan Chand & Sons Educational Publishers, New Delhi

- Manmohan, Gupta, P.K and Kanthi Swarup, 1998, "Operations Research", 9th Edition, S. Chand & Sons, New Delhi
- Vittal, P.R., 2013, "Operations Research", 1st Edition, Margham Publishers, Chennai
- Gupta P.K and Hira. D.S, 2003, "Problems in Operations Research", 2<sup>nd</sup> Edition, S. Chand & Sons, New Delhi
- Hamdy A. Taha, 2014, "Operations Research an Introduction", 9th Edition, Pearson Education Publishers Private Ltd, New Delhi

235BA1A4SP

# SEC PRACTICAL - DATA VISUALIZATION FOR BUSINESS INTELLIGENCE

SEMESTER IV

**Total Credits:** 

2

**Total Instructions Hours:** 

48 h

#### Contents S.No. POWER BI Create and manage datasets and workspaces in power BI 1 Perform extract, profile, clean transform and load data from different sources like excel and other databases using power BI. Perform build and optimize data models and DAX measures using power 3 BIAnalyzing and visualizing data with power BI 4 Publish a report and dashboard using power BI 5 6 Reporting and Interpretation 7 TABLEAU Create worksheets using tableau Extracting data from different data sources - custom data view, extracting 8 fields operations Perform Tableau Calculations (Operations, Functions, Numeric, String, 9 Data table) Perform Sorting and Filtering operations, Conditions, using Tableau 10 Creating different forms of charts using Tableau 11 Create dashboard and Report Generation 12

BoS Chairman/HoD
Department of Commerce (BA)
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