SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE
(An Autonomous Institution)
(Approved by AICTE, New Delhi & Affiliated to Pondicherry University)
(Accredited by NBA-AICTE, New Delhi, ISO 9001:2000 Certified Institution &
Accredited by NAAC with "A" Grade)
Madagadipet, Puducherry – 605 107

School of Arts & Science

Minutes of First Meeting of Board of Studies for B. Com (Computer Application)

The First Meeting of Board of Studies for Bachelor of Commerce - Computer Application (B.Com. - CA) Programme was held on 11th August 2022, Thursday at 10.30 A.M. via Zoom Meeting (Great Learning Platform) with the Head of the Department in the Chair.

The following members were present for the BoS meeting.

S. No.	Name of the Member	Designation
1	**Dr. Bala Sendhil Kumar G.** Professor and Head, B.Com - CA, School of Arts and Science Sri Manakula Vinayagar Engineering College Puducherry	Chairman
2	**Prof. Punam Bedi** Professor, Department of Computer Science University of Delhi, Delhi	Pondicherry University Nominee
3	**Dr. R. Rajendran** Associate professor, Department of Business Administration, Annamalai University, Chidambaram	Subject Expert (Academic Council Nominee)
4	**Dr. A. Martin** Assistant Professor, Department of Computer Science Central University of Tamil Nadu, Thiruvarur	Subject Expert (Academic Council Nominee)
5	**Mr. J. Prassana Vengatesh** Solution Architecture, HCL Technologies, Chennai	Member (Industry representative)
6	**Dr. K. Premkumar** Professor and Head Department of Computer Science & Engineering Sri Manakula Vinayagar Engineering College Puducherry	Internal Member
7	**Dr. Sivasacty** Assistant Professor, Department of Commerce and Management, School of Arts and Science Sri Manakula Vinayagar Engineering College Puducherry	Internal Member
8	**Ms. S. Visalakshi** Assistant Professor, Department of Management Studies, Sri Manakula Vinayagar Engineering College, Puducherry	Internal Member
9	**Mr. K. Kandasamy** Assistant Professor, Department of Commerce and Management, School of Arts and Science, Sri Manakula Vinayagar Engineering College, Puducherry	Internal Member

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10	**Ms. B. Gothai Natchi** Assistant Professor, Department of Commerce and Management, School of Arts and Science, Sri Manakula Vinayagar Engineering College, Puducherry	Internal Member
11	**Ms. S. Jeeja** Assistant Professor, Department of Commerce and Management, School of Arts and Science, Sri Manakula Vinayagar Engineering College, Puducherry	Internal Member
12	**Ms. M. Abirami @ Manoranjitham** Assistant Professor, Department of Commerce and Management, School of Arts and Science, Sri Manakula Vinayagar Engineering College, Puducherry	Internal Member
13	**Dr. M. Vanitha** Assistant Professor, Department of Tamil, School of Arts and Science, Sri Manakula Vinayagar Engineering College, Puducherry	Internal Member
14	**Mr. R. Srinivasan** Assistant, Department of English School of Arts and Science, Sri Manakula Vinayagar Engineering College, Puducherry	Internal Member

Agenda of the Meeting

Item No. : BoS / B.Com-CA 1.1

❖ Welcome Address.
❖ Introduction of Members of Board of Studies.

Item No. : BoS / B.Com-CA 1.2

❖ Discussion and Approval of Curriculum Framework of the UG Programme - Bachelor of Commerce - Computer Application (B.Com. - CA).

Item No. : BoS / B.Com-CA 1.3

❖ Discussion and Approval of Syllabus of First Semester and Second Semester of the Programme in Bachelor of Commerce - Computer Application (B.Com. - CA).

Item No. : BoS / B.Com-CA 1.4

Discussion of the Evaluation Systems as the existing Regulation 2020 of School of Arts and Science, SMVEC.
❖ Marks distribution for Continuous Assessment and End semester Examinations
❖ Question paper pattern
❖ Pass Requirements
❖ Letter Grade System
❖ Classification of Degree

Item No. : BoS / B.Com-CA 1.5

❖ Any other item with the permission of chair

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Minutes of the Meeting

The meeting deliberated on the agenda items that had been approved by the Chairman.

Item No. : BoS / B.Com-CA 1.1

Dr. G. Bala Sendhil Kumar, Chairman, BoS opened the meeting by greeting and introducing the external members to the internal members and meeting thereafter deliberated on the approved agenda items.

Item No. : BoS / B.Com-CA 1.2

The Curriculum Framework of the UG Programme - Bachelor of Commerce - Computer Application (B.Com. - CA) was discussed in detail. The Board of Studies members approved and recommended the Curriculum (refer Annexure 1) with the following suggestions:

- ❖ The courses like Data Science, Information Security, Ethical Hacking are added in Discipline Specific Elective Courses.
- ❖ Discipline Specific Course entitled "Business Statistics with R Programming" is included in sixth semester.

Item No. : BoS / B.Com-CA 1.3

The proposed Syllabi of the First Semester and Second Semester Courses of Bachelor of Commerce - Computer Application (B.Com. - CA) Programme was presented by the Chairman of the BoS. The same was discussed in detail by the BoS Members and was unanimously approved by the members with the following suggestions.

- ❖ Text Books & Reference Books can be of latest edition.
- ❖ UGC study resources can be quoted in web references.

The Syllabi of the First Semester and Semester Courses of Bachelor of Commerce - Computer Application (B.Com. - CA) are presented in Annexure 2.

Item No. : BoS / B.Com-CA 1.4

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The Evaluation Systems as in the existing SMVEC, School of Arts & Science Regulations 2020, pertaining to the following were discussed and accepted by the BoS Members.

- ❖ Marks distribution for Continuous Assessment and End Semester Examinations
- ❖ Question paper pattern
- ❖ Pass Requirements
- ❖ Letter Grade System

Classification of Degree

BoS / 2022/ B.Com-CA / 1.5

No other item was considered for further discussion in the First Meeting of BoS of Bachelor of Commerce - Computer Application (B.Com. - CA).

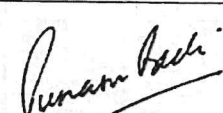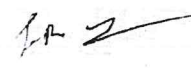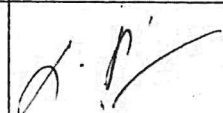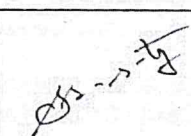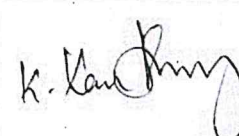The meeting was concluded at 12.20 P.M.

2.E.15.4
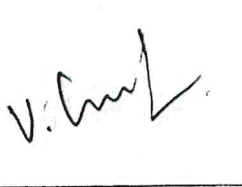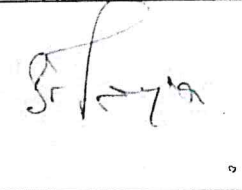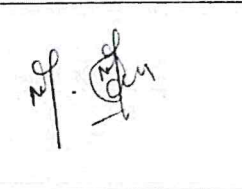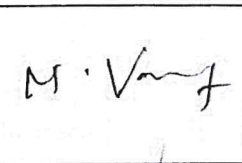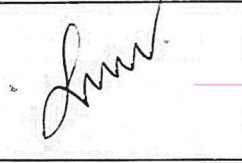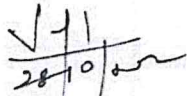
The Minutes of the First Meeting of Board of Studies for B.Com (Computer Application) Programme held on held on 12th August 2022 is signed by the members who attended the meeting:

Sl. No	Name of the Member with Designation and official Address	MEMBERS AS PER UGC NORMS	Signature
1	**Dr. Bala Sendhil Kumar G.** Professor and Head, .Com - CA, School of Arts and Science Sri Manakula Vinayagar Engineering College, Puducherry	Chairman	
2	**Prof. Punam Bedi** Professor, Department of Computer Science, University of Delhi, Delhi	Pondicherry University Nominee	
3	**Dr. R. Rajendran** Associate professor, Department of Business Administration, Annamalai University, Chidambaram	Subject Expert (Academic Council Nominee)	
4	**Dr. A. Martin** Assistant Professor, Department of Computer Science Central University of Tamil Nadu, Thiruvarur	Subject Expert (Academic Council Nominee)	
5	**Mr. J. Prassana Vengatesh** Head Architecture, HCL Technologies, Chennai	Member (Industry representative)	
6	**Dr. K. Premkumar** Professor and Head Department of Computer Science & Engineering, Sri Manakula Vinayagar Engineering College, Puducherry	Internal Member	
7	**Dr. Sivasacty** Assistant Professor, Department of Commerce and Management, School of Arts and Science Sri Manakula Vinayagar Engineering College, Puducherry	Internal Member	
8	**Ms. S. Visalakshi** Assistant Professor, Department of Management Studies, Sri Manakula Vinayagar Engineering College, Puducherry	Internal Member	
9	**Mr. K. Kandasamy** Assistant Professor, Department of Commerce and Management, School of Arts and Science, Sri Manakula Vinayagar Engineering College, Puducherry	Internal Member	

10	Ms. B. Gothai Natchi Assistant Professor, Department of Commerce and Management, School of Arts and Science, Sri Manakula Vinayagar Engineering College, Puducherry	Internal Member	
11	Ms. S. Jeeja Assistant Professor, Department of Commerce and Management, School of Arts and Science, Sri Manakula Vinayagar Engineering College, Puducherry	Internal Member	
12	Ms. M. Abirami @ Manoranjitham Assistant Professor, Department of Commerce and Management, School of Arts and Science, Sri Manakula Vinayagar Engineering College, Puducherry	Internal Member	
13	Dr. M. Vanitha Assistant Professor, Department of Tamil, School of Arts and Science, Sri Manakula Vinayagar Engineering College, Puducherry	Internal Member	
14	Mr. R. Srinivasan Assistant Professor, Department of English, School of Arts and Science, Sri Manakula Vinayagar Engineering College, Puducherry	Internal Member	

Dr. G. Bala Sendhil Kumar
Professor and Head - B. Com (CA)
Chairman - BoS / B. Com (CA)

Dr. S. Muthulakshmi
Dean - School of Arts & Science

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CURRICULUM

BACHELOR OF COMMERCE
(COMPUTER APPLICATION)
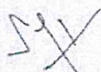
STRUCTURE FOR UNDERGRADUATE PROGRAMME

Sl. No	Course Category	Breakdown of Credits
1	Modern Indian Language (MIL)	6
2	English (ENG)	6
3	Discipline Specific Core Courses (DSC)	84
4	Discipline Specific Elective Courses (DSE)	12
5	Inter-Disciplinary courses (IDC)	18
6	Skill Enhancement Courses (SEC)	8
7	Employability Enhancement Courses (EEC*)	0
8	Ability Enhancement Compulsory Courses (AECC)	6
9	Open Electives (OE)	4
10	Online Courses (OC)	2
11	Extension Activity (EA)	1
	Total	**147**

SCHEME OF CREDIT DISTRIBUTION – SUMMARY

Sl. No	Course Category	Credits per Semester						Total Credits
		I	II	III	IV	V	VI	
1	Language (MIL)	3	3	-	-	-	-	6
2	English (ENG)	3	3	-	-	-	-	6
3	Discipline Specific Core Courses (DSC)	8	14	16	14	16	16	84
4	Discipline Specific Elective Courses (DSE)	-	-	3	3	3	3	12
5	Inter-Disciplinary Courses (IDC)	3	3	3	3	3	3	18
6	Skill Enhancement Courses (SEC)	2	-	2	2	-	2	8
7	Employability Enhancement Courses (EEC*)	0	0	0	0	-	-	0
8	Ability Enhancement Compulsory Courses (AECC)	2	2	-	2	-	-	6
9	Open Electives (OE)	-	-	2	2	-	-	4
10	Online Courses (OC)	-	-	-	-	2	-	2
11	Extension Activity (EA)	-	1	-	-	-	-	1
	Total	**21**	**26**	**26**	**26**	**24**	**24**	**147**

* EEC will not be included for the computation of "Total of Credits" as well as "CGPA".

Curriculum

B.Com (Computer Application)

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SEMESTER – I

Sl. No.	Course Code	Course Title	Category	L	T	P	Credits	CAM	ESM	Total
Theory										
1	A20FRT101	French - I	MIL	3	0	0	3	25	75	100
	A20TAT101	Tamil - I								
2	A20BET101	Business English - I	ENG	3	0	0	3	25	75	100
3	A20BAT101	Principles of Accounting	DSC	3	1	0	4	25	75	100
4	A20CCT101	Fundamentals of Information Technology	DSC	4	0	0	4	25	75	100
5	A20CCD101	Mathematics for Computer Application	IDC	3	0	0	3	25	75	100
Skill Enhancement Course										
6	A20CCS101	Communication Skills	SEC	0	0	4	2	100	0	100
Employability Enhancement Course										
7	A20CCC101	Certification Course - I*	EEC	0	0	4	0	100	0	100
Ability Enhancement Compulsory Course										
8	A20AET101	Environmental Studies	AECC	2	0	0	2	100	0	100
							21	425	375	800

SEMESTER – II

Sl. No.	Course Code	Course Title	Category	L	T	P	Credits	CAM	ESM	Total
Theory										
1	A20FRT202	French - II	MIL	3	0	0	3	25	75	100
	A20TAT202	Tamil - II								
2	A20BET202	Business English - II	ENG	3	0	0	3	25	75	100
3	A20CCT202	Financial Accounting for Business	DSC	3	1	0	4	25	75	100
4	A20CCT203	Programming with C	DSC	4	0	0	4	25	75	100
6	A20BFT203	Legal Aspects of Business	DSC	4	0	0	4	25	75	100
7	A20CCD202	Economics for Business Decisions	IDC	3	0	0	3	25	75	100
Practicals										
7	A20CCL201	Programming with C Lab	DSC	0	0	4	2	50	50	100
Employability Enhancement Course										
8	A20CCC202	Certification Course - II*	EEC	0	0	4	0	100	0	100
Ability Enhancement Compulsory Course										
9	A20AET202	Public Administration	AECC	2	0	0	2	100	0	100
Extension Activity										
10	A20EAL201	National Service Scheme	EA	0	0	2	1	100	0	100
							26	500	500	1000

Employability Enhancement Course are to be selected from the list in Annexure III

Curriculum   B.Com (Computer Application)

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SEMESTER – III

SI. No.	Course Code	Course Title	Category	Periods L	T	P	Credits	Max. Marks CAM	ESM	Total
Theory										
1	A20CST305	Company Accounts I	DSC	3	1	0	4	25	75	100
2	A20CCT304	Programming with C++	DSC	4	0	0	4	25	75	100
3	A20CCD303	Statistics for Computer Application	IDC	3	0	0	3	25	75	100
4	A20CCT305	Fundamentals of Database Management System	DSC	4	0	0	4	25	75	100
5	A20CCE3XX	DSE-I**	DSE	3	0	0	3	25	75	100
6	A20XXO3XX	Open Elective – I***	OE	2	0	0	2	25	75	100
Practicals										
7	A20CCL302	Programming with C++ Lab	DSC	0	0	4	2	50	50	100
8	A20CCL303	Database Management System Lab	DSC	0	0	4	2	50	50	100
Skill Enhancement Course										
9	A20CCS302	Quantitative Aptitude and Logical Reasoning	SEC	0	0	4	2	100	0	100
Employability Enhancement Course										
10	A20CCC303	Certification Course - III*	EEC	0	0	4	0	100	0	100
							26	450	550	1000

SEMESTER – IV

SI. No.	Course Code	Course Title	Category	Periods L	T	P	Credits	Max. Marks CAM	ESM	Total
Theory										
1	A20CST408	Company Accounts II	DSC	3	1	0	4	25	75	100
2	A20CCT406	Programming with Java	DSC	4	0	0	4	25	75	100
3	A20CCT407	E Commerce	DSC	4	0	0	4	25	75	100
4	A20CCD404	Elements of Banking Practices	IDC	3	0	0	3	25	75	100
5	A20CCE4XX	DSE-II**	DSE	3	0	0	3	25	75	100
6	A20XXO4XX	Open Elective – II***	OE	2	0	0	2	25	75	100
Practical										
7	A20CCL404	Programming with Java Lab	DSC	0	0	4	2	50	50	100
Skill Enhancement Course										
8	A20CCS403	Entrepreneurial Skills	SEC	0	0	4	2	100	0	100
Ability Enhancement Compulsory Course										
9	A20AET403	Value Education	AECC	2	0	0	2	100	0	100
Employability Enhancement Course										
10	A20CCC404	Certification Course - IV*	EEC	0	0	4	0	100	0	100
							26	500	500	1000

* Employability Enhancement Course are to be selected from the list in Annexure III

** Discipline Specific Electives are to be selected from the list given in Annexure I

*** Open electives offered by the Departments are listed in Annexure II

Curriculum

B.Com (Computer Application)

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SEMESTER – V

Sl. No.	Course Code	Course Title	Category	Periods			Credits	Max. Marks		
				L	T	P		CAM	ESM	Total
Theory										
1	A20CST512	Income Tax Law and Practice	DSC	4	0	0	4	25	75	100
2	A20CCT508	Basics of Cost Accounting	DSC	3	1	0	4	25	75	100
3	A20CCT509	Fundments of Machine Learning	DSC	4	0	0	4	25	75	100
4	A20CCD505	Research Methodology	IDC	3	0	0	3	25	75	100
5	A20CCE5XX	DSE-III**	DSE	3	0	0	3	25	75	100
Online Course										
6	A20CCM601	Online Course	OC	0	0	4	2	Successful Completion		
Project										
7	A20CCP501	Mini Project	DSC	0	0	4	2	40	60	100
Practicals										
8	A20CCL505	Machine Learning Lab	DSC	0	0	4	2	50	50	100
							24	215	485	700

SEMESTER – VI

Sl. No.	Course Code	Course Title	Category	Periods			Credits	Max. Marks		
				L	T	P		CAM	ESM	Total
Theory										
1	A20CCT610	Management Accounting for Business	DSC	4	0	0	4	25	75	100
2	A20CCT611	Business Statistics with R Programming	DSC	4	0	0	4	25	75	100
3	A20CCT612	Web Technology	DSC	4	0	0	4	25	75	100
4	A20CCD606	Practical Auditing	IDC	3	0	0	3	25	75	100
5	A20CCE6XX	DSE-IV**	DSE	4	0	0	3	25	75	100
Skill Enhancement Course										
6	A20CCS604	Goods and Service Tax	SEC	0	0	4	2	100	0	100
Project										
7	A20CCP602	Major Project	DSC	0	0	8	4	40	60	100
							24	265	435	700

** Discipline Specific Electives are to be selected from the list given in Annexure I

Curriculum

B.Com (Computer Application)

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Discipline Specific Electives (DSE)

Discipline Specific Electives (DSE-I) - Offered in Third Semester		
SI. No.	Course Code	Course Title
1	A20CCE301	Business Process
2	A20CCE302	Basics of Insurance
3	A20CCE303	Management Information System
Discipline Specific Electives (DSE-II) - Offered in Fourth Semester		
SI. No.	Course Code	Course Title
4	A20CCE404	Basics of Data Science
5	A20CCE405	Organisational Psychology
6	A20CCE406	Information Security
Discipline Specific Electives (DSE-III) - Offered in Fifth Semester		
SI. No.	Course Code	Course Title
7	A20CCE507	Business Strategy
8	A20CCE508	Introduction to Data Mining
9	A20CCE509	System Software Concepts
Discipline Specific Electives (DSE-IV) - Offered in Sixth Semester		
SI. No.	Course Code	Course Title
10	A20CCE610	Investment Management
11	A20CCE611	Ethical Hacking
12	A20CCE612	Cyber Security and Digital Forensics

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OPEN ELECTIVE COURSES

Open Elective - I (Offered in Semester III)			
Sl. No	Course Code	Course Title	Offering Department
1	A20BTO301	Biotechnology for human welfare	Bioscience
2	A20BTO302	Food Processing	Bioscience
3	A20BTO303	Food Technology	Bioscience
4	A20CHO304	Food Analysis (Practical)	Chemistry
5	A20CHO305	Molecules of Life (Practical)	Chemistry
6	A20CHO306	Water Analysis (Practical)	Chemistry
7	A20CMO307	Fundamentals of Accounting and Finance	Commerce and Management
8	A20CMO308	Fundamentals of Management	Commerce and Management
9	A20CMO309	Fundamentals of Marketing	Commerce and Management
10	A20CPO310	Data Structures	Computational Studies
11	A20CPO311	Programming in C	Computational Studies
12	A20CPO312	Programming in Python	Computational Studies
13	A20ENO313	Conversational Skills	English
14	A20ENO314	Fine-tune your English	English
15	A20ENO315	Interpersonal Skills	English
16	A20MAO316	Mathematical Modelling	Mathematics
17	A20MAO317	Quantitative Aptitude - I	Mathematics
18	A20MAO318	Statistical Methods	Mathematics
19	A20VCO319	Event Management	Media Studies
20	A20VCO320	Graphic Design	Media Studies
21	A20VCO321	Role of social media	Media Studies
22	A20NDO322	Basic Food Groups	Food Science
23	A20NDO323	Life Style Management	Food Science
24	A20NDO324	Nutritive Value of Foods	Food Science
25	A20PHO325	Astrophysics	Physics
26	A20PHO326	Basic of Modern Communication System	Physics
27	A20PHO327	Bio-Physics	Physics
28	A20TMO328	அடிப்படை தமிழ்	Tamil
29	A20TMO329	வாழ்வியல் இலக்கணம்	Tamil
30	A20TMO330	புதுக்கவிதைப் பட்டறை	Tamil

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\multicolumn{4}{c}{**Open Elective – II (Offered in Semester IV)**}
Sl. No.	**Course Code**	**Course Title**	**Offering Department**
1	A20BTO401	Herbal Technology	Bioscience
2	A20BTO402	Vermiculture	Bioscience
3	A20BTO403	Biotechnology for Society	Bioscience
4	A20CHO404	C++ Programming and its Application to Chemistry	Chemistry
5	A20CHO405	Computational Chemistry Practical	Chemistry
6	A20CHO406	Instrumental Methods of Analysis	Chemistry
7	A20CMO407	Essential Legal Awareness	Commerce and Management
8	A20CMO408	Essentials of Insurance	Commerce and Management
9	A20CMO409	Practical Banking	Commerce and Management
10	A20CPO410	Database Management Systems	Computational Studies
11	A20CPO411	Introduction to Data Science using Python	Computational Studies
12	A20CPO412	Web Development	Computational Studies
13	A20ENO413	Functional English	English
14	A20ENO414	English Next-India	English
15	A20ENO415	English for Competitive Exam	English
16	A20MAO416	Discrete mathematics	Mathematics
17	A20MAO417	Operations Research	Mathematics
18	A20MAO418	Quantitative Aptitude - II	Mathematics
19	A20VCO419	Basics of News Reporting	Media Studies
20	A20VCO420	Scripting for media	Media Studies
21	A20VCO421	Video Editing	Media Studies
22	A20NDO422	Food Labelling	Food Science
23	A20NDO423	Hygiene and Sanitation	Food Science
24	A20NDO424	Nutrition for Adolescent	Food Science
25	A20PHO425	Digital Electronics	Physics
26	A20PHO426	Geo-Physics	Physics
27	A20PHO427	Space Science	Physics
28	A20TMO428	சிறுகதைப் பயிற்சி	Tamil
29	A20TMO429	செய்தி வாசிப்பு பயிற்சி	Tamil
30	A20TMO430	நிகழ்த்துக்கலை	Tamil

Curriculum

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Annexure III

EMPLOYABILITY ENHANCEMENT COURSES - CERTIFICATION COURSES
(Not included in CGPA and Credits computation)

Certification Course - I, II, III & IV
(To be chosen from the below list but not limited)

Sl. No.	Course Title
1	MS Office
2	Tally
3	Python Programming
4	Mobile Application Development
5	Advanced Excel
6	Digital Marketing
7	Block Chain
8	PMI Project Management Ready
9	Google Analytics
10	Artificial Intelligence

Curriculum

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ANNEXURE - 2
Syllabi - Semester 1 & Semester 2

A20TAT101	TAMIL – I (Common to all UG programs)	L	T	P	C	Hrs
		3	0	0	3	45

பாடத்திட்டத்தின் நோக்கம்

- இரண்டாயிரம் ஆண்டுகால தமிழின் தொன்மையையும் வரலாற்றையும் அதன் விழுமியங்களையும் பண்பாட்டையும் எடுத்துரைப்பதாக இப்பாடத்திட்டம் அமைக்கப்பட்டுள்ளது.
- தமிழ் இலக்கியம் உள்ளடக்கத்திலும், வடிவத்திலும் பெற்ற மாற்றங்கள், அதன் சிந்தனைகள், அடையாளங்கள் ஆகியவற்றை காலந்தோறும் எழுதப்பட்ட இலக்கியங்களின் வழியாகக் கூறுவதற்கு இப்பாடத்திட்டம் அமைக்கப்பட்டுள்ளது.
- மொழியின் கட்டமைப்பைப் புரிந்து கொள்வதாகவும் பாடத்திட்டம் வடிவமைக்கப்பட்டுள்ளது.
- வாழ்வியல் சிந்தனைகள், ஒழுக்கவியல் கோட்பாடுகள், சமத்துவம், சூழலியல் எனப் பல கூறுகளை மாணவர்களுக்கு எடுத்துரைக்கும் விதத்தில் இப்பாடத்திட்டம் உருவாக்கப்பட்டுள்ளது.
- சிந்தனை ஆற்றலைப் பெருக்குவதற்குத் தாய்மொழியின் பங்களிப்பினை உணர்த்த இப்பாடத்திட்டம் அமைக்கப்பட்டுள்ளது.

பாடத்திட்டத்தின் வெளிப்பாடுகள்

CO1 – இலக்கியங்கள் காட்டும் வாழ்வியல் நெறிமுறைகளைப் பேணிநடத்தல்.
CO2 – நமது எண்ணத்தை வெளிப்படுத்தும் கருவியாகத் தாய்மொழியைப் பயன்படுத்துதல்.
CO3 – தகவல் தொடர்புக்குத் தாய்மொழியின் முக்கியத்துவத்தை உணர்தல்.
CO4 – தாய்மொழியின் சிறப்பை அறிதல்.
CO5 – இலக்கிய இன்பங்களை நுகரும் திறன்களை வளர்த்தல்.

அலகு-1 (9 Hrs)
இக்காலக் கவிதைகள்-1

1. பாரதியார்	–	கண்ணன் என் சேவகன்
2. பாரதிதாசன்	–	தமிழ்ப்பேறு
3. அப்துல் ரகுமான்	–	அவதாரம்
4. மீரா	–	கனவுகள் + கற்பனைகள் = காகிதங்கள்
5. து.நரசிம்மன்	–	மன்னித்துவிடு மகனே

அலகு-2 (9 Hrs)
இக்காலக் கவிதைகள்-2

1. ராஜா சந்திரசேகர்	–	கைவிடப்பட்ட குழந்தை
2. அனார்	–	மேலும் சில இரத்தக் குறிப்புகள்
3. சுகிர்தராணி	–	அம்மா
4. நா.முத்துக்குமார்	–	தூர்

அலகு-3 (9 Hrs)
சிற்றிலக்கியங்கள்

1. கலிங்கத்துப் பரணி	–	பொருதடக்கை வாள் எங்கே... (பாடல்–485)
2. அழகர்கிள்ளைவிடு தூது	–	இதமாய் மனிதருடனே...(பாடல்–45)

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3. நந்திக் கலம்பகம்   –   அம்பொன்று வில்லொடிதெல்...(பாடல்-77)

4. முக்கூடற் பள்ளு   –   பாயும் மருதஞ் செழிக்கவே...(பாடல்-47)

5. குற்றாலக் குறவஞ்சி   –   ஓடக் காண்பதுமே...(பாடல்-9)

காப்பியங்கள்

மணிமேகலை–உலகறவி புக்க காதை– 'மாசுஇல் வால்ஒளி! – இந்நாள் போலும் இளங்கொடி கெடுத்தனை'.
(28-அடிகள்)

அலகு-4   (9 Hrs)

தமிழ் இலக்கிய வரலாறு

1. சிற்றிலக்கியம்– தோற்றமும் வளர்ச்சியும்

2. புதுக்கவிதை– தோற்றமும் வளர்ச்சியும்

3. சிறுகதை –தோற்றமும் வளர்ச்சியும்

4. புதினம் –தோற்றமும் வளர்ச்சியும்

5. உரைநடை – தோற்றமும் வளர்ச்சியும்

உரைநடைப் பகுதி

1. உ.வே.சாமிநாதையர் – சிவதருமோத்திரச் சுவடி பெற்ற வரலாறு.

2. தஞ்சாவூர் – சுஜாவின் கோபம்.

3. இரா. பச்சியப்பன் – மாடல்ல மற்றையவை.

அலகு 5   (9 Hrs)

மொழிப்பயிற்சி

1. கலைச்சொல்லாக்கம்

2. அகரவரிசைப்படுத்துதல்

3. மரபுத்தொடர்/பழமொழி

4. கலை விமர்சனம்

5. நேர்காணல்

உரைநடை நூல்கள்

1. சக்திவேல், சு., தமிழ் மொழி வரலாறு, மாணிக்கவாசகர் பதிப்பகம், சிதம்பரம், 1988.

2. சிற்பி பாலசுப்ரமணியம் மற்றும் நீலபத்மநாபன், புதிய தமிழ் இலக்கிய வரலாறு, தொகுதி–1, 2, 3, சாகித்திய அகாடமி, புதுடெல்லி, 2013.

3. பாரதியார், பாரதியார் கவிதைகள், குமரன் பதிப்பகம், சென்னை, 2011.

பார்வை நூல்கள்

1. கைலாசபதி.க.தமிழ் நாவல் இலக்கியம், குமரன் பதிப்பகம், வடபழனி, 1968.

2. சுந்தரராஜன், பே.கோ. சிவபாதசுந்தரம். சோ., தமிழில் சிறுகதை வரலாறும் வளர்ச்சியும், கிரியா, சென்னை, 1989.

3. பரந்தாமனார்.அ.கி., நல்ல தமிழ் எழுத வேண்டுமா, பாரி நிலையம், சென்னை, 1998.

4. பாக்கியமேரி, வகைமை நோக்கில் தமிழ் இலக்கிய வரலாறு, என்.சி.எஃச். பதிப்பகம், சென்னை, 2011.

5. வல்லிக்கண்ணன். புதுக்கவிதையின் தோற்றமும் வளர்ச்சியும், அன்னம், சிவகங்கை, 1992.

இணையத்தளங்கள் :

1. http://www.tamilkodal.com
2. http://www.languagelab.com
3. http://www.tamilweb.com

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A20FRT101	FRENCH – I (Common to all UG programs from 2021-22)	L	T	P	C	Hrs
		3	0	0	3	45

Course Objectives

- To enable the students read, understand, and write simple sentences.
- To grasp relevant grammar for communication
- To learn about the land, people and culture of France.

UNITÉ - 1

Je m'appelle Elise. Et Vous ?

Vous Dansez ? D'accord

Monica, Yukiko et compagnie

UNITÉ - 2

Les Voisins de Sophie

Tu vas au Luxembourg ?

UNITÉ – 3

Nous Venons pour l'inscription

A Vélo, en tain, en avoin

Pardon, monsieru,le BHV s'il vous plait ?

UNITÉ - 4

Au march'e

On déjeune ici ?

UNITÉ - 5.

On va chez ma copine ?

Chez Susana

Text Book
Prescribed Text book : *FESTIVAL 1* - Méthode de Français
Authors : Sylvie POISSON-QUINTON
Michèle MAHEO-LE COADIC
Anne VERGNE-SIRIEYS
Edition : CLE International, Nouvelle Édition révisée : 2009

Reference Book : Festival 1

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	L	T	P	C	Hrs
A20BET101 **BUSINESS ENGLISH - I**	3	0	0	3	45

Course Objectives

- To understand the concept, process, and importance of communication.
- To gain knowledge about the business.
- To inculcate skills of effective communication - both written and oral.
- To acquire knowledge on application of communication skills in the business world
- To enhance the presentation and negotiations skills of the students

Course Outcomes

After completion of the course, the students will be able to

CO1 – Understands the basics and importance of communication

CO2 – Can inculcate all the methods of writing

CO3 – Draft effective business writing with brevity and lucidity

CO4 – Acquire career skills to work efficiently and collaboratively

CO5 – Present an effective oral presentation

UNIT I INTRODUCTION TO COMMUNICATION (9 Hrs)

Meaning and Definition - Process - Functions - Objectives - Importance - Essentials of good communication - Communication barriers - Overcoming communication barriers. Written - Oral - Face-to-face - Silence - Merits and limitations of each type.

UNIT II BUSINESS LETTERS (9 Hrs)

Need and functions of business letters - Planning & layout of business letter - Kinds of business letters - Essentials of effective correspondence.

UNIT III DRAFTING OF BUSINESS LETTERS (9 Hrs)

Enquiries and replies - Placing and fulfilling orders - Complaints and follow-up - Sales letters -Circular letters - Application for employment and resume - writing Report - Notices, Agenda and minutes of the Meetings – Memos.

UNIT IV ORAL COMMUNICATION (9 Hrs)

Meaning, nature and scope - Principles of effective oral communication - Techniques of effective speech - Media of oral communication (Face-to-face conversation - Teleconferences – Press Conference – Demonstration - Radio Recording - Dictaphone – Meetings - Rumor -Demonstration and Dramatization - Public address system - Grapevine -The art of listening - Principles of good listening.

UNIT V COMMUNICATION SKILLS (9 Hrs)

Group Decision-Making - Interviews - Speeches -Customer Care/Customers Relations - Public Relations (Concept, Principles, Do's and Don'ts etc. to be studied for each type).

Text Books

1. K. K. Sinha, "Business Communication", Galgotia Publishing, 4th Edition, 2011.
2. C. S. Rayudu, "Media and Communication Management", Himalaya Publishing House, 1st Edition, 2013.
3. HorySankarMukerjee, "Business Communication: Connecting at Work", Oxford University Press, 1st Edition, 2016.

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Reference books

1. Rajendra Pal & J. S. Korlahalli, "Essentials of Business Communication", Sultan Chand & Sons, 3rd Edition, 2011.
2. Nirmal Singh, "Business Communication: Principles, Methods and Techniques", Deep & Deep Publications Pvt. Ltd, 1st Edition, 2008.
3. Krishna Mohan, R.C. Mohan &Virendra Singh Nirban, "Business Correspondence and Report Writing", Tata McGraw-Hill Publishing, 6th Edition, 2020.

Web References

1. https://writingcenter.unc.edu/tips-and-tools/business-letters/
2. https://onlinecourses.swayam2.ac.in/cec22_cm02/preview
3. https://thebusinesscommunication.com/what-is-face-to-face-conversation/
4. https://www.emerald.com/insight/publication/issn/1356-3289
5. https://nptel.ac.in/courses/109104031

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	L	T	P	C	Hrs
A20BAT101 **PRINCIPLES OF ACCOUNTING**	3	1	0	4	60

Course Objectives
- To develop a deeper understanding of the Fundamentals of Accounting
- To appreciate the role and significance of subsidiary books in accounting system
- To learn the preparation of basic financial statements of small business entities.
- To gain knowledge about the accounting for non-profit entities.
- To develop the knowledge of accounting from incomplete records.

Course Outcomes
After completion of the course, the students will be able to
CO1 – Explain the concepts of accounting and solve simple problems on fundamentals of accounting
CO2 – Prepare various subsidiary books including different types of cash books.
CO3 – Prepare the basic financial statements of various business entities
CO4 – Handle the accounting pertaining to Non-Profit Making Entities
CO5 – Prepare basic financial statements from incomplete accounting records.

UNIT I ACCOUNTING FUNDAMENTALS   (15 Hrs)
Meaning and Scope of Accounting, Basic Accounting Concepts, and Conventions – Accounting Standards – International Financial Reporting Standards and their applicability in India – Nature and Objectives of Accounting – Distinction between Book-Keeping and Accountancy – Accounting Transactions – Double Entry Book Keeping – Maintenance of Journal, Ledger, and Trial Balance. Simple Problems on Journal and Trial Balance Preparation.

UNIT II ACCOUNTING FROM INCOMPLETE RECORDS   (10 Hrs)
Introduction – Meaning of incomplete records – Features of incomplete records - Limitations of incomplete records - Differences between double entry system and incomplete records - Accounts from incomplete records - Ascertaining profit or loss from incomplete records through statement of affairs - Preparation of final accounts from incomplete records.

UNIT III SUBSIDIARY BOOKS   (10 Hrs)
Subsidiary Books – Meaning and Importance – Types of Subsidiary Books – Purchase Book – Sales Book – Purchase Returns Book – Sales Returns Book – Bills Receivables Book – Bills Payables Book – Journal Proper – Cash Book. Types of Cash Book – Simple, Double-column, Triple-Column, Petty Cash Book. Simple Problems in Sales Book, Purchases Book, and Cash Book.

UNIT IV FINAL ACCOUNTS   (15 Hrs)
Preparation of Manufacturing, Trading & Profit and Loss Account or Income Statement – Meaning, Contents, and Preparation – Balance Sheet or Position Statement – Meaning, Contents and Preparation – Adjustments in Final Accounts (Closing Stock, Expenses and Income Outstanding, Expenses paid and Income received in advance, Depreciation, Provision for Bad and Doubtful Debts, Interest on Capital and Interest on Drawings. Preparation of Basic Financial Statements with special adjustments - Practical Problems.

UNIT V ACCOUNTING FOR NON-PROFIT ENTITIES   (10 Hrs)
Introduction – Features of non-profit organizations – Receipts and Payments Account -Items peculiar to not–for–profit organizations (Capital expenditure, Revenue expenditure, Deferred revenue expenditure, Capital receipt, Revenue receipt) - Income and Expenditure Account - Balance Sheet.

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Text Books

1. S.P. Jain & K.L. Narang, "Financial Accounting", Kalyani Publishers, 12th Edition, 2014.
2. S.N. Maheswari, Suneel K. Maheswari&Sharad K. Maheswari, "An Introduction to Accountancy", Vikas Publishing House, 12th Edition, 2019.
3. Maheswari & Maheswari, "Financial Accounting", Vikas Publishing House, 6th Edition, 2018.

Reference Books

1. K.L. Nagarajan, N. Vinayagam & P.L. Mani, "Principles of Accountancy", S. Chand & Sons, 4th Edition, 2016.
2. T.S. Grewal, "Double Entry Book-keeping", Sultan Chand & Sons, 12th Edition, 2020.
3. Hanif & Mukherjee, "Financial Accounting", Tata McGraw Hill, 2nd Edition, 2019.
4. P.C. Tulsian& Bharat Tulsian, "Financial Accounting", S.Chand, 2nd Edition, 2016.

Web References

1. https://nptel.ac.in/courses/110101003
2. https://archive.nptel.ac.in/courses/110/101/110101131/
3. https://courses.lumenlearning.com/sac-finaccounting/chapter/ledgers-journals-andaccounts/
4. http://www.accountingnotes.net/management-accounting/management-accountingmeaning-limitations-and-scope/5859
5. https://efinancemanagement.com/financial-accounting/financial-statement-notes

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A20CCT101	FUNDAMENTALS OF INFORMATION	L	T	P	C	Hrs
	TECHNOLOGY	4	0	0	4	60

Course Objectives

- To provide an in-depth understanding of Information Technology Concepts.
- To explain purpose and types of Data Resource Management.
- To be familiar with Telecommunications and Computer Networks.
- To understand the Electronic Commerce Systems.
- To understand the E-governance.

Course Outcomes

After completion of the course, the students will be able to

CO1 – Demonstrate their conceptual understanding and component of Modern Computer Systems.

CO2 – Appreciate the purpose and types of Data Resource Management.

CO3 – Develop skills and ability to work with Telecommunications and Computer Networks

CO4 – Demonstrate their ability in concepts related to Electronic Commerce Systems.

CO5 – Understand the importance of E-governance

UNIT I   MODERN COMPUTER SYSTEMS   (13 Hrs)

Computer Peripherals, Input, Output and Storage technologies: Voice Recognition and Response Optical Scanning - Video Output - Word Processing - Desktop Publishing - System Software - Operating Systems - Programming Language.

UNIT II   DATA RESOURCE MANAGEMENT   (12 Hrs)

Introduction to DBMS, Types of DBMS, Application of DBMS, Concept of Data Warehouses and Data Marts, Introduction to Data Centers. Storage Technologies.

UNIT III   TELECOMMUNICATIONS AND COMPUTER NETWORKS   (15 Hrs)

Types of networks, Advantages of Network Environment, Business Uses of Internet, Intranet and Extranet, Web 2.0/3.0/4.0/5.0, Distributed/Cloud/Grid Computing, GSM & CDMA, GPRS, 3G, 4G &5G technologies, VOIP and IPTV.

UNIT IV   ELECTRONIC COMMERCE SYSTEMS   (10 Hrs)

Introduction to e-Commerce and M-Commerce, Advantages and Disadvantages. Concept of B2B, B2C, C2C. Concept of Internet Banking and Online Shopping, Electronic Payment Systems.

UNIT V   E-GOVERNANCE   (10 Hrs)

Concept of e-governance, Technologies for e-governance, e- governance as an effective tool to manage the country's citizens and resources, Advantages and Disadvantage of E-governance, E-governance perspective in India.

Text Books

1. Norton P (2010), Introduction to Computers, Tata McGraw-Hill
2. Potter T (2010), Introduction to Computers, John Wiley & Sons (Asia) Pvt Ltd
3. Morley D & Parker CS (2009), Understanding Computers – Today and Tomorrow, Thompson Press

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Reference books

1. Jawadekar, WS (2009); Management Information System; Tata McGraw Hill
2. Mclead R & Schell G (2009), Management Information Systems; Pearson Prentice Hall
3. O'Brein, JA (2009); Introduction to Information Systems; Tata McGraw Hill

Web References

1. https://crk.umn.edu/academics/math-science-and-technology-department/information-technology-management/online
2. https://www.igi-global.com/journal/information-technology-management/1074
3. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5787626/

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A20CCD101   **MATHEMATICS FOR COMPUTER APPLICATION**   L T P C Hrs
                                                             3 0 0 3 45

Course Objectives
- To provide an understanding on matrices and determinants
- To know about the applications of matrices and determinants in business
- To be conversant with the ratios and proportions
- To be familiar with Permutations, Combinations, and Sequences
- To be aware of the applications of differential calculus

Course Outcomes
After completion of the course, the students will be able to
CO1 - Demonstrate an understanding of applications of Matrices and Determinants.
CO2 - Analyse the applications of matrices and determinants in business and economics.
CO3 - Demonstrate mastery of mathematical concepts relating to ratios, proportions, indices, logarithms and equations.
CO4 - Apply the principles of permutations, combinations, sequences and series in various business applications.
CO5 - Know how to compute derivative of a function and higher order differentiation.

UNIT I MATRICES AND DETERMINANTS   (09 Hrs)
Matrices – Definition and Types. Equality of matrices, Algebra of matrices, Positive Integral Power of a Square Matrix, Matrix Polynomial, Transpose of a Matrix, Symmetry and Skewed Symmetric Matrices. Determinants of a Square Matrix. Properties of Determinants, Adjoint of a Square Matrix, Singular and Non-Singular Matrices, Inverse of a Square Matrix.

UNIT II APPLICATIONS OF MATRICES IN BUSINESS AND ECONOMICS   (09 Hrs)
Matrix Representation of Data – Matrix Addition and Subtraction, Application, Scalar Multiplication. Methods of Solving non-homogenous system of linear equations – Matrix Inverse method, Determinants method, Gauss Jordon Elimination method – Applications of Matrices in Business and Economics Decisions.

UNIT III RATIO-PROPORTION, INDICES, LOGARITHMS AND EQUATIONS   (09 Hrs)
Ratios – Proportions – Properties of Proportion. Exponent (Index) of the Power – Laws of Indices. Logarithm – Laws of Logarithms, Systems of Logarithms, Characteristic and Mantissa.
Equations – Basic Definitions – Quadratic Equation – Solving a Quadratic Equation – Nature of the Discriminant.

UNIT IV PERMUTATION, COMBINATION, SEQUENCES & SERIES   (09 Hrs)
The Factorial – Fundamental Principle of Multiplication – Rule of Addition.
Permutation and Combination – Difference between Permutation and Combination – Important Formulae of Permutation and Combination – Various Kinds of Permutations – Kind of Combinations. Progression - Sequences and Series – Arithmetic Progression – Geometric Progression.

UNIT V DIFFERENTIAL CALCULUS   (09 Hrs)
Mathematical functions and their types- linear, quadratic, polynomial, exponential, Logarithmic function Concepts of limit, and continuity of a function. Concept and rules of differentiation, Maxima and Minima involving second or higher order derivatives.

2. E. 15. 24

Text Books

1. Bharat Tulsian & P.C. Tulsian, "Business Mathematics, Logical Reasoning & Statistics", McGraw Hill Education, 1st Edition, 2019.
2. Soma Garg & Arun Julka, "Business Mathematics and Statistics", Taxmann Publications, 1st Edition, 2010.
3. R.S. Soni, "Business Mathematics and Business Statistics", Ane Books, 1st Edition, 2009.

Reference Books

1. R.S. Soni & A.K. Soni, "Business Mathematics", Ane Books, 1st Edition, 2013.
2. Mizrahi and Sullivan, "Mathematics for Business and Social Sciences". Wiley and Sons, 1st Edition, 1979.
3. Ayres, Frank Jr., "Schaum's Outline Series: Theory and Problems of Mathematics of Finance", McGraw Hill Education, 1st Edition, 1963.
4. Vishal Saxena, "Business Mathematics, Logical Reasoning & Statistics", Bharat Law House, 1st Edition, 2019.

Web References

1. https://onlinecourses.swayam2.ac.in/nou22_cm08/preview
2. https://resource.cdn.icai.org/46668bosfnd-p3-cp1.pdf
3. https://resource.cdn.icai.org/46670bosfnd-p3-cp2-u2.pdf
4. https://resource.cdn.icai.org/46673bosfnd-p3-cp5.pdf
5. https://resource.cdn.icai.org/46674bosfnd-p3-cp6.pdf

A20CCS101	COMMUNICATION SKILLS	L	T	P	C	Hrs
		0	0	4	2	60

Course Objectives

- To improve the skill of rapid reading and comprehending efficiently
- To decode the correspondence between sound and spelling in English
- To train students to organize, revise and edit ideas to write clearly and commendably
- To enhance the sense of social responsibility and accountability of the students
- To expound the significance of time and stress management

Course Outcomes

After the completion of the course, the students will be able to

CO1 - Understand the pattern to communicate effectively
CO2 - Impart Speaking skills with self-confidence
CO3 - Use writing strategies to improve their drafting skills and comprehending of articles
CO4 - Demonstrate leadership qualities to Participate in Group Discussion and Interview efficiently
CO5 - Expertise in Managerial skills

UNIT I COMMUNICATION SKILLS - SPEAKING   (12 Hrs)

1. Aspects of speaking
2. Process and techniques of effective speech
3. Presentations
4. Topic to be given to students for short speech
5. Self-Introduction

UNIT II SELF-MANAGEMENT SKILLS   (12 Hrs)

1. Time Management
2. Stress management
3. Perseverance
4. Resilience
5. Mind mapping
6. Self- confidence

UNIT III COMMUNICATION SKILLS – READING   (12 Hrs)

1. Phonics
2. Vocabulary
3. Comprehension
4. Skimming and Scanning

UNIT IV SOCIAL SKILLS   (12 Hrs)

1. Negotiation and Persuasion
2. Leadership
3. Teamwork
4. Problem solving
5. Empathy
6. Decision making

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2. E. 15. 26

UNIT V COMMUNICATION SKILLS - WRITING   (12 Hrs)

1. Descriptive
2. Narrative
3. Persuasive
4. Expository
5. Picture composition

Text Books

1. Syamala. V, "Effective English Communication for you", Emerald Publishers, 1st Edition, 2002.
2. Balasubramanian, "A Textbook of English Phonetics for Indian Students", Trinity Press, 1st Edition, 1981.
3. Sardana, C.K., "The Challenge of Public Relations", Har- Anand Publications, 1st Edition, 1995.

Reference Books

1. Murphy, John J, "Pulling Together: 10 Rules for High-Performance Teamwork", Simple Truths, 1st Edition, 2016.
2. Sanjay Kumar, PusphLata. "Communication Skills".Oxford University Press.1st Edition, 2015.
3. Barun K. Mitra, "Personality Development and Soft skills", Oxford University Press, 1st Edition, 2016.

Web References

1. https://blog.dce.harvard.edu/professional-development/10-tips-improving-your-public-speaking-skills
2. https://onlinecourses.swayam2.ac.in/cec22_cm02/preview
3. https://journals.sagepub.com/home/jbt
4. https://nptel.ac.in/courses/109104031
5. http://www.businesscommunicationblog.com

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	L	T	P	C	Hrs
A20AET101 **ENVIRONMENTAL STUDIES**	2	0	0	2	30

Course Objectives

- To gain knowledge on the importance of natural resources and energy.
- To know the structure and function of an ecosystem
- To imbibe an aesthetic value with respect to biodiversity, understand the threats and its conservation and appreciate the concept of interdependence
- To know the causes of types of pollution and disaster management
- To observe and discover the surrounding environment through field work.

Course Outcomes

After completion of the course, the students will be able to

CO1 – Understand about the various resources
CO2– Learn about the biodiversity
CO3– Learn the different types of pollution and to prevent the pollution
CO4– Know about the pollution Act
CO5– Observe various environmental issues in surroundings

UNIT I ENVIRONMENTAL SCIENCES: NATURAL RESOURCES (6 Hrs)

Environmental Sciences - Relevance - Significance - Public awareness - Forest resources - Water resources - Mineral resources - Food resources - conflicts over resource sharing - Exploitation - Land use pattern - Environmental impact - fertilizer - Pesticide Problems - case studies.

UNIT II ECOSYSTEM, BIODIVERSITY AND ITS CONSERVATION (6 Hrs)

Ecosystem - concept - structure and function - producers, consumers and decomposers - Food chain - Food web - Ecological pyramids - Energy flow - Forest, Grassland, desert and aquatic ecosystem. Biodiversity - Definition - genetic, species and ecosystem diversity - Values and uses of biodiversity - biodiversity at global, national (India) and local levels - Hotspots, threats to biodiversity - conservation of biodiversity –Insitu&Exsitu.

UNIT III ENVIRONMENTAL POLLUTION AND MANAGEMENT (6 Hrs)

Environmental Pollution - Causes - Effects and control measures of Air, Water, Marine, soil, solid waste, Thermal, Nuclear pollution and Disaster Management - Floods, Earth quake, Cyclone and Landslides. Role of individuals in prevention of pollution - pollution case studies.

UNIT IV SOCIAL ISSUES - HUMAN POPULATION (6Hrs)

Urban issues - Energy - water conservation - Environmental Ethics - Global warming - Resettlement and Rehabilitation issues - Environmental legislations - Environmental production Act. 1986 - Air, Water, Wildlife and forest conservation Act - Population growth and Explosion - Human rights and Value Education - Environmental Health - HIV/AIDS - Role of IT in Environment and Human Health - Women and child welfare - Public awareness - Case studies.

UNIT V FIELD WORK (6 Hrs)

Visit to a local area / local polluted site / local simple ecosystem - Report submission.

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2. E. 15. 28

Text Books

1. BharuchaErach, "Textbook of Environmental Studies for Undergraduate Courses", Orient Black Swan, 2nd Edition, 2013.
2. BasuMahua, Savarimuthu Xavier, "Fundamentals of Environmental Studies", Cambridge, 2nd Edition, 2017.
3. Agarwal, K.C. "Environmental Biology", Nidi Publications, 1st Edition, 2004.

Reference Books

1. Kumarasam, Alagappa Moses &Vasanthy, "Environmental Studies", Bharathidasan University Publications, 1st Edition, 2004.
2. Rajamannar, "Environmental Studies", EVR College Publications, 1st Edition, 2004.
3. Kalavathy, S, "Environmental Studies", Bishop Heber College Publications, 1st Edition, 2004.

Web References

1. https://aits-tpt.edu.in/wp-content/uploads/2018/08/Environmental-Studies-Lecture-notes.doc-I_Betech_-ECE-CSE-EEE-CEME_III-Sem_BR.pdf
2. http://eagri.org/eagri50/ENVS302/pdf/lec05.pdf
3. https://www.youtube.com/watch?v=78prsPYm98g
4. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2792934/
5. https://www.frontiersin.org/articles/505570

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பாடத்திட்டத்தின் நோக்கம்

- இரண்டாயிரம் ஆண்டுகால தமிழின் தொன்மையையும் வரலாற்றையும் அதன் விழுமியங்களையும் பண்பாட்டையும் எடுத்துரைப்பதாக இப்பாடத்திட்டம் அமைக்கப்பட்டுள்ளது.

- தமிழ் இலக்கியம் உள்ளடக்கத்திலும், வடிவத்திலும் பெற்ற மாற்றங்கள், அதன் சிந்தனைகள், அடையாளங்கள் ஆகியவற்றை காலந்தோறும் எழுதப்பட்ட இலக்கியங்களின் வழியாகக் கூறுவதற்கு இப்பாடத்திட்டம் அமைக்கப்பட்டுள்ளது.

- மொழியின் கட்டமைப்பைப் புரிந்து கொள்வதாகவும் பாடத்திட்டம் வடிவமைக்கப்பட்டுள்ளது.

- வாழ்வியல் சிந்தனைகள், ஒழுக்கவியல் கோட்பாடுகள், சமத்துவம், சூழலியல் எனப் பல கூறுகளை மாணவர்களுக்கு எடுத்துரைக்கும் விதத்தில் இப்பாடத்திட்டம் உருவாக்கப்பட்டுள்ளது.

- சிந்தனை ஆற்றலைப் பெருக்குவதற்குத் தாய்மொழியின் பங்களிப்பினை உணர்த்த இப்பாடத்திட்டம் அமைக்கப்பட்டுள்ளது.

பாடத்திட்டத்தின் வெளிப்பாடுகள்

CO1 – இலக்கியங்கள் காட்டும் வாழ்வியல் நெறிமுறைகளைப் பேணிநடத்தல்.

CO2 – நமது எண்ணத்தை வெளிப்படுத்தும் கருவியாகத் தாய்மொழியைப் பயன்படுத்துதல்.

CO3 – தகவல் தொடர்புக்குத் தாய்மொழியின் முக்கியத்துவத்தை உணர்தல்.

CO4 – தாய்மொழியின் சிறப்பை அறிதல்.

CO5 – இலக்கிய இன்பங்களை நுகரும் திறன்களை வளர்த்தல்.

அலகு-1   (9 Hrs)

1. எட்டுத்தொகை: 1.குறுந்தொகை (படல்-130) 2. நற்றிணை (பாடல்-27) 3. அகநானூறு (பாடல்-86).

2. பத்துப்பாட்டு: சிறுபாணாற்றுப்படை (அடிகள்-126-143).

3. பதினெண் கீழ்க்கணக்கு: திருக்குறள்– வெகுளாமை (அதிகாரம்-31), காதல் சிறப்புரைத்தல் (அதிகாரம்-113).

அலகு-2   (9 Hrs)

1. எட்டுத்தொகை:

     1. ஐங்குறுநூறு (பாடல்-203),

     2. கலித்தொகை– பாலைத்திணை (பாடல்-9),

     3. புறநானூறு (பாடல்-235).

2. பத்துப்பாட்டு– முல்லைப்பாட்டு (6-21).

3. பதினெண் கீழ்க்கணக்கு :

     1. நாலடியார் – நல்லார் எனத்தான் (221) .

     2. திரிகடுகம்– கோலஞ்சி வாழும் குடியும் (33).

     3. இனியவை நாற்பது– குழவி தளர்நடை (14).

     4. கார் நாற்பது– நலமிகு கார்த்திகை (26).

     5. களவழி நாற்பது–கவளங்கொள் யானை (14).

அலகு-3   (9 Hrs)

சைவம்– பன்னிரு திருமுறைகள்

1. திருஞானசம்பந்தர்	–	வேயுறு தோளிபங்கன் (இரண்டாம் திருமுறை).
2. திருநாவுக்கரசர்	–	மனமெனும் தோணி (நான்காம் திருமுறை).
3. சுந்தரர்	–	ஏழிசையாய் இசைப்பயனாய் (ஏழாம் திருமுறை).
4. மாணிக்கவாசகர்	–	ஆதியும் அந்தமும் இல்லா (திருவெம்பாவை).
5. திருமூலர்	–	அன்பு சிவம் இரண்டு (திருமந்திரம்).

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வைணவம் – நாலாயிரத் திவ்வியப் பிரபந்தம்

1. பேயாழ்வார்	–	திருக்கண்டேன் பொன்மேனி....
2. பெரியாழ்வார்	–	கருங்கண் தோகை மயிற் பீலி....
3. தொண்டரடிப்பொடிஆழ்வார்	–	பச்சைமாமலை போல்....
4. ஆண்டாள்	–	கருப்பூரம் நாறுமோ? கமலப்பூ....
5. திருமங்கையாழ்வார்	–	வாடினேன் வாடி வருந்தினேன்....

இஸ்லாமியம்

சீறாப்புராணம்– பாடல் நின்ற பிணை மானுக்குப்...5 பாடல்கள் (பாடல் எண்கள் 61–65).

கிருத்துவம்

இரட்சண்ய யாத்ரீகம்– கடைதிறப்புப் படலம் –5 பாடல்கள் (பாடல் எண்கள்: 3,9,10,15,16).

அலகு – 4 (9 Hrs)

தமிழ் இலக்கிய வரலாறு

1. சங்க இலக்கியங்கள் 2. நீதி இலக்கியங்கள் 3. பக்தி இலக்கியங்கள் 4. காப்பியங்கள்.

அலகு–5 (9 Hrs)

சிறுகதைகள்

1. புதுமைபித்தன்	–	அகலிகை
2. நா. பிச்சமூர்த்தி	–	வேப்பமரம்
3. அகிலன்	–	ஒரு வேளைச்சோறு
4. ஜி.நாகராஜன்	–	பச்சக் குதிரை
5. கி.ராஜநாராயணன்	–	கதவு
6. சா.கந்தசாமி	–	தக்கையின் மீது நான்கு கண்கள்
7. ஆண்டாள் பிரியதர்ஷினி	–	மாத்திரை
8. வண்ணதாசன்	–	ஒரு உல்லாசப் பயணம்
9. சு. தமிழ்ச்செல்வன்	–	வெயிலோடு போய்
10. பாரததேவி	–	மாப்பிள்ளை விருந்து

பார்வை நூல்கள் :

1. அரசு, வீ., இருபதாம் நூற்றாண்டு சிறுகதைகள் நூறு, அடையாளம் பதிப்பகம், திருச்சி, 2013.

2. அருணாச்சலம், பா., பக்தி இலக்கியங்கள், பாரி நிலையம், சென்னை, 2010.

3. தமிழண்ணல், புதிய நோக்கில் தமிழ் இலக்கிய வரலாறு, மீனாட்சி புத்தக நிலையம், மதுரை, 2000.

4. பாக்கியமேரி, வகைமை நோக்கில் தமிழ் இலக்கிய வரலாறு, என்.சி.பி.எச். பதிப்பகம், சென்னை, 2011.

5. பசுபதி, மா. வே., செம்மொழித் தமிழ் இலக்கண இலக்கியங்கள், தமிழ்ப் பல்கலைக்கழகம், 2010.

இணையத்தளங்கள் :

1. http://www.tamilkodal.com
2. http://www.languagelab.com
3. http://www.tamilweb.com

A20FRT202	FRENCH-II (Common to all UG Programs)	L	T	P	C	Hrs
		3	0	0	3	45

Course Objectives:

- To enable the students read, understand, and write simple sentences.
- To grasp relevant grammar for communication
- To learn about the land, people and culture of France.

UNITÉ - 1

Qu'est -ce qu'on leur offre ?

On solde !

Découvrir Paris en bus avec l'open Tour

UNITÉ - 2

Si vous gagne vous ferez quoi

Parasol ou parapluie ?

UNITÉ - 3

Quand il est midi á Paris

Vous allez Vivre á Paris

L'avenir du Français

UNITÉ - 4

Souvenirs d'enfance

j'ai fait mes études á Lyon 2

UNITÉ – 5

Retour des Antilles

Au voleur ! Au voleur !

TextBook

PrescribedTextbook : *FESTIVAL 1* - Méthode de Français
Authors : Sylvie POISSON-QUINTON
Michèle MAHEO-LE COADIC
Anne VERGNE-SIRIEYS
Edition : CLE International, Nouvelle Édition révisée : 2009.

Reference Book   Festival 1

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2. E. 15. 32

	L	T	P	C	Hrs
A20BET202 **BUSINESS ENGLISH – II**	3	0	0	3	45

Course Objectives

- To develop the vocabulary and use it in their day today life
- To gain knowledge about the business writing
- To learn and develop soft skills
- To acquire knowledge on application of communication skills in the business world
- To enhance the presentation skills of the students with the use of modern era tools

Course Outcomes

After completion of the course, the students will be able to

CO1 – Understands the basics and importance of communication.

CO2 – Demonstrates all methods of writing.

CO3 – Utilize soft skills for better communication.

CO4 – Acquire career skills to work efficiently and collaboratively.

CO5 – Appraise the use of technology for Communicating effectively.

UNIT I VOCABULARY DEVELOPMENT (9 Hrs)

Business vocabulary -Business Idioms - Business Phrases -One-word substitute -Incorrectly spelt words-confusable- Synonyms -Antonyms

UNIT II BUSINESS WRITING (9 Hrs)

Article writing - Application -Poster -Advertisement design- HR Letters – Letters of Offer, Performance Appraisal and Termination

UNIT III SOFT SKILLS (9 Hrs)

Introduction- Self-confidence, - Leadership Skills- Time Management -Stress Management – Team Management - Positive Attitude- Goal Setting- Career Planning-Creative Thinking – Public Speaking-Emotional Quotient.

UNIT IV APPLICATION OF COMMUNICATION SKILLS (9 Hrs)

Presentation skills: Setting the objectives –planning – preparation – practice and rehearsal –getting ready – making the presentation – paralinguistic elements in Presentation-Types of visual aids to support presentation. Negotiation skills: Nature and Need-Factors affecting Negotiation-Process of negotiation Types of Negotiators- Tips for successful negotiation.

UNIT V TECHNOLOGY IN COMMUNICATION (9 Hrs)

E-mail -Email etiquette- Telephone Advantages and Disadvantages – Guidelines for effective telephonic conversation – Fax- Tele conferencing -Video conferencing.

Text Books

1. Rajendra Pal & J. S. Korlahalli, "Essentials of Business Communication", Sultan Chand & Sons, 3rd Edition, 2011.
2. C.B. Gupta, "Basic Business Communication", Sultan Chand & Sons, 4th Edition, 2017.
3. HorySankarMukerjee, "Business Communication: Connecting at Work", Oxford University Press, 1st Edition, 2016.

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Reference Books

1. NiraKonar, "Communication Skills for Professionals", Prentice Hall of India, 2nd Edition, 2011.
2. Nirmal Singh, "Business Communication: Principles, Methods and Techniques", Deep & Deep Publications Pvt. Ltd, 1st Edition, 2008.
3. Krishna Mohan, R.C. Mohan &Virendra Singh Nirban, "Business Correspondence and Report Writing", Tata McGraw-Hill Publishing, 6th Edition, 2020.
4. Kevin Gallagher, "Skills Development for Business and Management Students", Oxford University Press., 1st Edition, 2010.

Web References

1. https://www.readnaturally.com/research/5-components-of-reading/vocabulary
2. https://businesswriting.com
3. https://www.teachingenglish.org.uk/article/paralinguistics
4. https://www.entrepreneur.com/article/236724
5. https://www.inc.com/guides/2010/06/email-etiquette.html

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A20CCT202	FINANCIAL ACCOUNTING FOR BUSINESS	L	T	P	C	Hrs
		3	1	0	4	60

Course Objectives
- ➢ To develop the knowledge of accounting from incomplete records
- ➢ To gain knowledge about the accounting for non-profit entities
- ➢ To learn the computation of royalties and self-balancing system.
- ➢ To help students to acquaint with application of branch and departmental accounting.
- ➢ To make the hire purchase and installment payment accounting.

Course Outcomes
After completion of the course, the students will be able to

CO1 – Prepare Accounting from Incomplete Records.

CO2 – Prepare financial statements of Non-Profit Organizations.

CO3 – Compute royalties accurately and maintain of self-balancing ledgers

CO4 – Comprehend the preparation of branch and departmental accounting.

CO5 – Make necessary books of record under hire purchase and instalment methods.

UNIT I PARTNERSHIP ACCOUNTING: ADMISSION OF PARTNERS   (13 Hrs)

Introduction - Meaning, definition and features of partnership - Partnership deed - Methods of maintaining capital accounts of partners - Interest on capital and interest on drawings of partners - Salary and commission to partners - Interest on loan from partners - Division of profits among partners. Admission of a new partner - Introduction - Adjustments required at the time of admission of a partner - Distribution of accumulated profits, reserves and losses - Revaluation of assets and liabilities - New profit-sharing ratio and Sacrificing ratio - Adjustment for goodwill - Adjustment of capital on the basis of new profit-sharing ratio.

UNIT II RETIREMENT AND DEATH OF PARTNERS   (12 Hrs)

Retirement of a partner – Introduction - Adjustments required on retirement of a partner - Distribution of accumulated profits, reserves and losses - Revaluation of assets and liabilities - Determination of new profit-sharing ratio and gaining ratio - Adjustment for goodwill - Adjustment for current year's profit or loss up to the date of retirement - Settlement of the amount due to the retiring partner - Death of a partner - Adjustments required on the death of a partner.

UNIT III ROYALTIES AND SELF BALANCING LEDGERS   (11 Hrs)

Royalty meaning in Accounting, Parties in Royalties Accounting, Types of Royalties in Accounts, Important Terms in Royalties Accounting, Royalties Accounting Treatment, Accounting Treatment in Books of Lessee and Accounting Treatment in Books of Lessor. Self-Balancing System: Introduction, working system and various ledgers to be maintained.

UNIT IV BRANCH AND DEPARTMENTAL ACCOUNTING   (11 Hrs)

Branch Accounts-Dependent Branches (Debtors system, Stock & Debtors system) and Independent Branches (Foreign Branches excluded) – Departmental Accounts: Departmental Trading Account; Profit & Loss Account – Calculation of net profit of various departments and allocation of expenses – Preparation of General Profit & Loss Account and Balance Sheet.

UNIT V HIRE PURCHASE AND INSTALMENTS SYSTEMS   (11 Hrs)

Introduction - Nature of Hire Purchase Agreement, Special Features, Terms Used and Ascertainment of Total Cash Price, Ascertainment of Interest, Accounting Arrangements of Hire Purchase Transaction, Repossession, Instalment payment system, Differences between Hire Purchase Agreement and Instalment Payment Agreement.

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Text Books
1. Hanif & Mukherjee, "Financial Accounting", Tata McGraw Hill, 2nd Edition, 2019.
2. S.P. Jain & K.L. Narang, "Financial Accounting", Kalyani Publishers, 12th Edition, 2014.
3. P.C. Tulsian & Bharat Tulsian, "Financial Accounting", S.Chand, 2nd Edition, 2016.

Reference Books
1. M.C. Shukla, T.S. Grewal & S.C. Gupta, "Advanced Accounts – Vol.1", S.Chand & Sons, 19th Edition, 2017.
2. R.L. Gupta & Radhaswamy, "Advanced Accountancy – Vol.1", Sultan Chand & Sons, 1st Edition, 2013.
3. Arulanandam & Raman, "Advanced Accountancy Vol.1", Himalaya Publishing House, 7th Edition, 2018.
4. Maheswari & Maheswari, "Financial Accounting", Vikas Publishing House, 6th Edition, 2018.

Web References
1. https://onlinecourses.nptel.ac.in/noc19_mg37/preview
2. https://archive.nptel.ac.in/courses/110/106/110106147/
3. https://icmai.in/upload/Students/Syllabus2016/Inter/Paper-5-January-2021.pdf
4. https://ocw.mit.edu/courses/sloan-school-of-management/15-515-financial-accounting-fall-2003/
5. https://www.icai.org/post.html?post_id=12430

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	L	T	P	C	Hrs
A20CCT203   **PROGRAMMING WITH C** | 4 | 0 | 0 | 4 | 60 |

Course Objectives
➢ To understand the Fundamentals of Computers and introduction to C language.
➢ To study the basic terminologies of C language and arrays
➢ To understand the Functions, Structures and Unions.
➢ To understand the concepts of Pointers.
➢ To study about File Management Operations in C.

Course Outcomes
After completion of the course, the students will be able to
CO1 – Describing the basic introduction about C programming.
CO2 - Incorporating the use of sequential, selection and repetition control structures into a program.
CO3 - Develop the concepts of looping and arrays.
CO4 - Design and develop programs using Functions and Pointers.
CO5- Understand the File management Operations and Pre-processor Directives.

UNIT I INTRODUCTION TO C (12 Hrs)
Fundamentals of Computer: Computer Definition – Block Diagram of Computer – Types of Computer – Characteristics of Computer – C programming: History of C – Features of C – Compilation Process – Variables – Data Types – Keywords – Identifiers – Operators – Constants – Literals - Tokens

UNIT II CONTROL STATEMENT (12 Hrs)
Conditional Statements: Simple If – If.. else – else.. if – Nested If – Looping: for – while – Do..While – Nested for – Switch Statement – Unconditional Statements: Break – Continue – Goto.

UNIT III ARRAYS (12 Hrs)
Arrays: Definition – Declaring Arrays – Initializing Arrays – Accessing Array Elements – Types of Arrays - One Dimensional Arrays -Two DimensionalArrays - Multi-Dimensional Array- Dynamic Arrays - Character Arrays – Sorting an Array.

UNIT IV FUNCTIONS AND POINTERS (12 Hrs)
Functions: Definition – Declaration – Categories of Functions - Recursive Functions - Passing Arrays to Functions – String Functions – Math Functions – Pointers: Definition - Declaration - Initialization - Accessing - Pointers and Arrays – Pointers and Functions - Call by Reference – Call by Value - Array of Pointers.

UNIT V STRUCTURES, UNIONS AND FILES (12 Hrs)
Structure: Definition - Declaration - Arrays of Structures – Accessing Members of the Structure - Nested structures – Passing Structures to Functions – Union – Definition – Size of the Union - Accessing Union Members - File Handling in C: Functions of File Handling - Error Handling – Pre Processor.

Text Books
1. Balagurusamy. E, "Programming in ANSI C", Tata McGraw Hill, 8th Edition, 2019.
2. Byron S Gottfried and Jitendar Kumar Chhabra, "Programming with C", Tata McGraw Hill Publishing Company, 4th Edition, New Delhi, 2015.
3. Herbert Schildt," C: The Complete Reference", McGraw Hill, 4th Edition, 2014.

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Reference Books

1. Ashok N Kamthane, "Computer Programming", Pearson education, 2rd Impression, 2012.
2. VikasVerma, "A Workbook on C ", Cengage Learning, 2rd Edition, 2012.
3. Dr. P. Rizwan Ahmed, "Office Automation", Margham Publications, 2016.
4. P.Visu, R.Srinivasan and S.Koteeswaran, "Fundamentals of Computing and Programming", 4th Edition, SriKrishna Publications, 2012.
5. PradipDev, ManasGhoush, "Programming in C", 2rd Edition, Oxford University Press, 2011.

Web References

1. https://archive.nptel.ac.in/courses/106/104/106104128/
2. https://archive.nptel.ac.in/courses/106/105/106105171/
3. https://onlinecourses.nptel.ac.in/noc20_cs94/preview
4. https://www.cprogramming.com/codej.html

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A20CCD202	ECONOMICS FOR BUSINESS DECISIONS	L	T	P	C	Hrs
		3	0	0	3	45

Course Objectives

- To understand the concept of basic principles in economics.
- To be familiar with utility analysis
- To create knowledge on cost and revenue analysis.
- To demonstrate pricing strategies and methods in business.
- To understand the distribution theories and profit calculation of business firms.

Course Outcomes

After completion of the course, the students will be able to

CO1 – Enhance the knowledge on economic principles utilized for business decision making.
CO2 – Analyze the satisfaction level of consumers.
CO3 – Familiarize with the cost and revenue of the business firms.
CO4 – Understand the concepts of pricing and methods of pricing.
CO5 – Know the distribution and calculation of profit in business.

UNIT I INTRODUCTION TO BASIC ECONOMIC PRINCIPLES (09 Hrs)

Introduction to Economics – Nature and Scope of Economics – Branches of Economics – Economic Analysis – Inductive and Deductive methods – Positive Vs. Normative – Partial Vs. General Equilibrium – Static and Dynamic – Twin Principles – Incremental and Marginal Principle – Opportunity cost – Central Economic Problems – Role and Responsibilities of Economists in Business Decisions.

UNIT II UTILITY ANALYSIS AND REVEALED PREFERENCE THEORY (09 Hrs)

Utility Analysis – Types of Utility – Measurement of Utility – Cardinal Utility Theory – Ordinal Utility Theory – Indifference Curve – Derivation of Demand and Supply Curves from Utility Analysis – Revealed Preference Theory – Consumer Surplus – Consumer Equilibrium- Demand Theory.

UNIT III COST AND REVENUE ANALYSIS (09 Hrs)

Cost – Types of Costs – Different Types of Costs – Short Run and Long Run Cost Curves – Revenue – Types of Revenue – Derivation of Average Revenue and Marginal Revenue from Total Revenue – Break Even Analysis - Break Even Point.

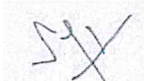## UNIT IV PRICING METHODS AND STRATEGIES (09 Hrs)

Meaning – Definition – Objectives of Pricing – Importance of Pricing – General Considerations of Pricing – Factors affecting Pricing – Cost Based Pricing – Mark Up Pricing – Absorption Pricing – Full Cost Pricing – Marginal Cost Pricing – Target Pricing - Market Oriented Pricing – Going Rate Pricing - Dual Pricing– Life Cycle of a Product.

UNIT V THEORIES OF DISTRIBUTION AND PROFIT (09 Hrs)

Distribution -Distinction between Personal and Functional Distribution – Theories of Distribution – Distribution Shares – Wage Theories – Real and Money Wages – Profit – Gross Profit – Net Profit – Accountant Profit – Economist Profit – Theories of Profit.

Text Books

1. P.N.Chopra, "Business Economics", Kalyani Publishers , 7th Edition, 2015
2. Dr.S.Sankaran, "Business Economics" , Margham Publications, 5th Edition, 2011.

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2. E. 15. 39

3. BharatMeghe,Dhirendra, Kumar andVidya Nakhate,"Economic Analysis for Business Decisions"Himalaya Publishing House,1st Edition,2014.

Reference Books

1. Dr.Padmalochana Bisovi,Dr.RijwanAhmed MushtakShaikh,"Economic Analysis for Business Decisions",Thakur Publication Pvt.Ltd.Pune,1st Edition,2016.
2. S.K.Agarwal "Business Economics", S.Chand, 1st Edition, 2018
3. H.L.Ahujja "Business Economics", Vikas Publications, 13th Edition,2016.
4. K.Rajagoplachar, "Business Economics", Atlantic Publisher, 1st Edition, 2022.
5. C.M.Chaudhary, "Business Economics", RBSA Publishers, 1st Edition, 2000.

Web References

1. https://onlinelibrary.wiley.com/journal/10991468
2. https://nptel.ac.in/courses/110105075
3. https://mu.ac.in
4. http://www.icsi.edu
5. https://www.mim.ac.mw

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	L	T	P	C	Hrs
A20BFT203 **LEGAL ASPECTS OF BUSINESS**	4	0	0	4	60

Course Objectives:
- To provide a comprehensive understanding on the general principles of contracts.
- To familiarise with the law relating to sale of goods.
- To understand the provisions of Partnership and LLP Acts.
- To orient students about the basics of The Companies Act 2013.
- To help students to acquaint with an understanding on Competition and IPR Laws.

Course Outcomes
After completion of the course, the students will be able to
CO1 - Demonstrate a clear understanding on the general principles of contracts

CO2 - Be conversant with the legal provisions pertaining to sale of goods in India

CO3 - Appreciate and distinguish between Partnership and LLP with reference to Indian Law

CO4 - Explain the basic provisions with respect to The Companies Act 2013.

CO5 - Categorize and understand the various nuances of Intellectual Property Rights and Competition in India

UNIT I CONTRACTS LAW: GENERAL PRINCIPLES   (12 Hrs)
Contract – meaning, characteristics and kinds - Essentials of a valid contract - Offer and acceptance, consideration, contractual capacity, free consent, legality of objects. Void agreements, Performance of a contract –breach and remedies against breach of contract. Contingent contracts, Quasi – contracts.

UNIT II LAW OF SALE OF GOODS   (12 Hrs)
Contract of sale, meaning and difference between sale and agreement to sell. Conditions and warranties - Transfer of ownership in goods including sale by a non-owner. Performance of contract of sale. Unpaid seller – meaning, rights of an unpaid seller against the goods and the buyer.

UNIT III LAWS OF PARTNERSHIP AND LLP   (12 Hrs)
(A) Indian Partnership Act, 1932 - Nature and Characteristics of Partnership, Registration of Partnership Firms, Types of Partners, Rights and Duties of Partners, Implied Authority of a Partner, Registration and dissolution of Firm.

(B) The Limited Liability Partnership Act, 2008 - Salient Features of LLP - Incorporation by Registration– Differences between LLP and Partnership, LLP and Company – LLP Agreement – Types of Partners in LLP and their relations – Conversion of Firm and Private Company into LLP.

UNIT IV THE COMPANIES ACT 2013   (12 Hrs)
Essential Features of a Company, Corporate Veil Theory, Classes of Companies , Types of Share Capital, Incorporation of a Company , Memorandum of Association , Articles of Association, Doctrine of Indoor Management

UNIT V COMPETITION LAW, 2002 AND INTELLECTUAL PROPERTY ACT   (12 Hrs)
Concept of Competition - Need & Importance of Competition Law - Features - Anti Competitive Agreements – Abuse of dominant position – Combinations – CCI (Competition Commission of India) Intellectual Property – Meaning, Types, Overview of Law governing IPR for Copyrights, Trademarks, Patents and Geographical Indications

Textbooks
1. Parul Gupta, "Legal Aspects of Business: Concepts and Applications", Vikas Publishing House, 2nd Edition, 2019.
2. M.C. Kuchhal, and Vivek Kuchhal, "Business Law", Vikas Publishing House, 6th Edition, 2019.
3. P.C. Tulsian and Bharat Tulsian, "Business Law", McGraw Hill Education, 3rd Edition, 2017.

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Reference Books

1. N.D. Kapoor, "Elements of Mercantile Law", Sultan Chand & Sons, 38th Edition, 2020.
2. Sushma Arora, "Business Laws", Taxmann Publications, 2nd Edition, 2019.
3. Avtar Singh, "Business Law", Eastern Book Company, 4th Edition, 2018.
4. R.S.N. Pillai & Bagavathi, "Business Law", S. Chand Publishing, 3rd Edition, 2010.
5. M.C. Shukla, "A Manual of Mercantile Law", S. Chand Publishing, 9th Edition, 2010.
6. Ravinder Kumar, "Legal Aspects of Business", Cengage Learning, 4th Edition, 2016.

Web References

1. http://14.139.60.114:8080/jspui/bitstream/123456789/738/19/Commercial%20Law.pdf
2. https://www.studocu.com/en-au/document/the-university-of-adelaide/commercial-law-i/lecture-notes/lecture-notes-lecture-all-lectures-commercial-law-exam-notes/654814/view
3. https://www.icai.org/post.html?post_id=17791
4. https://icmai.in/upload/Students/Syllabus2016/Foundation/Paper-3New-29012021.pdf
5. https://www.icsi.edu/media/webmodules/BUSINESS%20ENVIRONMENT%20AND%20LAW.pdf

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Course Objectives

- To practice the fundamental programming methodologies in the C programming language.
- To apply logical skills for problem solving using control structures and arrays.
- To design, implement, test and debug programs that use different data types, variables, strings, arrays,pointers and structures.
- To design modular programming and provide recursive solution to problems.
- To understand the miscellaneous aspects of C and comprehension of file operations.

Course Outcomes

After completion of the course, the students will be able to

CO1 - Apply and practice logical formulations to solve simple problems leading to specific applications.

CO2 - Develop C programs for simple applications making use of basic constructs, arrays and strings.

CO3 - Develop C programs involving functions, recursion, pointers, and structures.

CO4 - Design applications using sequential and random access file processing.

CO5 - Build solutions for online coding challenges.

List of Exercises

1. Simple programming exercises to familiarize the basic C language constructs.
2. Develop programs using identifiers and operators.
3. Develop programs using decision-making and looping constructs.
4. Develop programs using functions as mathematical functions.
5. Develop programs with user defined functions – includes parameter passing.
6. Develop program for one dimensional and two dimensional arrays.
7. Develop program to illustrate pointers.
8. Develop program with arrays and pointers.
9. Develop program for dynamic memory allocation.
10. Develop programs for file operations.

Reference Books

1. Zed A Shaw," Learn C the Hard Way: Practical Exercises on the Computational Subjects You KeepAvoiding (Like C)", Addison Wesley, 2016.
2. Anita Goel and Ajay Mittal, "Computer Fundamentals and programming in C", 1st Edition, PearsonEducation , 2011.
3. Yashwanth Kanethkar, "Let us C", 13th Edition, BPB Publications, 2008.
4. Maureen Sprankle, Jim Hubbard," Problem Solving and Programming Concepts," 9th Edition, Pearson, 2011.

Web References

1. https://alison.com/course/introduction-to-c-programming
2. https://www.geeksforgeeks.org/c-programming-language/
3. http://cad-lab.github.io/cadlab_data/files/1993_prog_in_c.pdf
4. https://www.tenouk.com/clabworksheet/clabworksheet.html
5. https://fresh2refresh.com/c-programming/
6. http://www.skiet.org/downloads/cprogrammingquestion.pdf

A20AET202	PUBLIC ADMINISTRATION	L	T	P	C	Hrs
		2	0	0	2	30

Course Objectives
- To introduce the elements of public administration
- To help the students obtain a suitable conceptual perspective of public administration
- To introduce them the growth of institution devices to meet the need of changing times
- To instill and emphasize the need of ethical seriousness in contemporary Indian Public Administration

Course Outcomes
After completion of the course, the students will be able to
CO1– Understand the concepts and evolution of Public Administration.
CO2– Be aware of what is happening in the Public Administration in the country.
CO3– Explain the Territory Administration in the State and the Centre.
CO4– Appreciate emerging issues in Indian Public Administration.

UNIT I INTRODUCTION TO PUBLIC ADMINISTRATION   (7 Hrs)
Meaning, nature and Scope of Public Administration and its relationship with other disciplines- Evolution of Public Administration as a discipline - Woodrow Wilson, Henry Fayol , Max Weber and others - Evolution of Public Administration in India - Arthashastra - Colonial Administration upto 1947

UNIT II PUBLIC ADMINISTRATION IN INDIA   (8 Hrs)
Enactment of Indian Constitution - Union Government - The Cabinet - Central Secretariat - All India Services - Training of Civil Servants - UPSC - Niti Ayog - Statutory Bodies: The Central Vigilance Commission - CBI - National Human Rights Commission - National Women's Commission - CAG.

UNIT III STATE AND UNION TERRITORY ADMINISTRATION   (8 Hrs)
Differential Administrative systems in Union Territories compared to States Organization of Secretariat: - Position of Chief Secretary, Functions and Structure of Departments, Directorates - Ministry of Home Affairs supervision of Union Territory Administration - Position of Lt.Governor in UT - Government of Union Territories Act 1963 - Changing trend in UT Administration in Puducherry and Andaman and Nicobar Island

UNIT IV EMERGING ISSUES IN INDIAN PUBLIC ADMINISTRATION   (7 Hrs)
Changing Role of District Collector - Civil Servants - Politicians relationship - Citizens Charter – Public Grievance Redressal mechanisms - The RTI Act 2005 - Social Auditing and Decentralization – Public Private partnership.

Text Books
1. Avasthi and Maheswari, "Public Administration in India" Lakshmi NarainAgarwal, Agra, 2013
2. Ramesh K.Arora, "Public Administration: Fresh Perspective", Alekh publishers, Jaipur.2012

Reference Books
1. R.B.Jain, "Public Administration in India: 21st Century Challenges for Good Governance",Deep and Deep,2002.
2. Ramesh K.Arora, "Indian Public Administration",WishwaPrakashan, 2010.
3. RumkiBasu, "Public Administration: Concept and Theories", Sterling,2013

Web References
1. http://cic.gov.in/
2. http://www.mha.nic.in/
3. http://rti.gov.in/
4. http://www.cvc.nic.in/

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