



V.V.VANNIAPERUMAL COLLEGE FOR WOMEN

(Belonging to Virudhunagar Hindu Nadars)

An Autonomous Institution Affiliated to Madurai Kamaraj University, Madurai

Re-accredited with 'A' Grade (3rd Cycle) by NAAC

VIRUDHUNAGAR - 626 001

List of Non Major Elective Courses (NME) (2023-2024 onwards)

UG PROGRAMMES

Name of the Course	Course Code	Semester	Department
Introduction to Tourism	23UHIN11	I	History(EM)
Indian Constitution	23UHIN21	II	History(EM)
சுற்றுலா ஓர் அறிமுகம்	23UHIN11	I	History (TM)
இந்திய அரசியலமைப்பு	23UHIN21	II	History(TM)
Popular Literature and Culture	23UENN11	I	English
English for Professions	23UENN21	II	
பேச்சுக்கலைத்திறன்	23UTAN11	I	Tamil
பயன்முறைத் தமிழ்	23UTAN21	II	
Practical Banking	23UCON11	I	Commerce (Aided)
Basic Accounting Principles	23UCON22	II	
Financial Literacy-I	23UCON12	I	Commerce (SF)
Financial Literacy -II	23UCON21	II	
Self-Employment and Startup Business	23UCCN11	I	Commerce CA (SF)
Fundamentals of Marketing	23UCCN21	II	
Women Protection Laws	23UCPN11	I	Commerce (Professional Accounting)
Basic Labour Laws	23UCPN21	II	
Basics of Event Management	23UBAN11	I	Business Administration
Business Management	23UBAN21	II	
Quantitative Aptitude I	23UMTN11	I	Mathematics
Quantitative Aptitude II	23UMTN21	II	
Physics for Everyday life -I	23UPHN11	I	Physics
Physics for Everyday life -II	23UPHN21	II	
Food Chemistry	23UCHN11	I	Chemistry
Drugs and Natural Products	23UCHN21	II	
Ornamental fish farming and Management	23UZYN11	I	Zoology
Biocomposting for Entrepreneurship	23UZYN21	II	
Foundations of Baking and Confectionery	23UHSN11	I	Home Science – Nutrition and Dietetics
Basic Nutrition and Dietetics	23UHSN21	II	
Nutrition and Health	23UBCN11	I	Biochemistry
Life Style Diseases	23UBCN21	II	
Social and Preventive Medicine	23UMBN11	I	Microbiology

Nutrition & Health Hygiene	23UMBN21	II	
Herbal Medicine	23UBON11	I	Biotechnology
Organic farming and Health Management	23UBON21	II	
Basics of Fashion	23UCFN11	I	Costume Design And Fashion
Interior Designing	23UCFN21	II	
Office Automation	23UCSN11	I	Computer Science
Introduction to Internet and HTML 5	23UCSN21	II	
Office Automation	23UITN11	I	Information Technology
Introduction to HTML	23UITN21	II	
Introduction to HTML	23UCAN11	I	Computer Applications
Fundamentals of Computers	23UCAN21	II	
Introduction to HTML	23UGDN11	I	Computer Applications - Graphic Design
Fundamentals of Computers	23UGDN21	II	
Organic Farming	23UBYN11	I	Botany
Nursery and Landscaping	23UBYN12		
Mushroom Cultivation	23UBYN21	II	
Medicinal Botany	23UBYN22		
Cadet Corps for Career Development I	23UNCN11	I	National Cadet Corps
Cadet Corps for Career Development II	23UNCN21	II	



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B.A. History

(2023-2024 onwards)

Semester I	Introduction to Tourism	Hours/Week: 2	
NME -1		Credits: 2	
Course Code 23UHIN11		Internal 25	External 75

Course Outcomes:

On the completion of course the students will be able to

CO 1: recall the basic features in tourism and its significance.[K1]

CO 2: define the elements, components and functions of Tourism industry.[K1]

CO 3: discuss the principles and practices for the development of tourism.[K2]

CO 4: outline the role of tourism in promoting economy and culture.[K2]

CO 5: identify the knowledge on the growth of tourism industry.[K3]

UNIT I

Concepts of Tourism: Definition of Tourism – Traveller – Tourist – Excursionist – Travel Motivations: Push and Pull Motivations of Travel – Basic Components of Tourism: Transport, Attraction, Accommodation – Elements of Tourism: Weather, Amenities, Accessibility, Historical and Cultural Factors. (6 Hours)

UNIT II

Types and Forms of Tourism: Domestic and International Tourism – Long Haul and Short Haul Tourism – Leisure Tourism – Pilgrimage Tourism – Special Interest Tourism – Adventure Tourism – Eco Tourism – Cultural Tourism – Desert Tourism – Agro Tourism – Culinary Tourism – Medical Tourism – Sustainable Tourism, (6 Hours)

UNIT III

Travel Agency: Meaning of Travel Agent – Types of Travel Agency – Roles of Large Travel Agent – Characteristics of a Professional Travel Agent. (6 Hours)

UNIT IV

Tour Operator: Meaning of Tour Operator – Types of Tour Operator: Inbound, Outbound, Domestic, Ground and Specialized – Role of Tour Operators – Itinerary Planning: Principles, Resources and Guidelines. (6 Hours)

UNIT V

Travel Documents: Passport – VISA – Health Certificates – Tax – Customs – Currency – Travel Insurance – Role of Information Technology in Tourism related Services – Computerized Reservation System (CRS) and Global Distribution System (GDS). (6 Hours)

TEXT BOOKS

Bhatia, A.K. (2016). Tourism Management, New Delhi: Sterling Publications.

GeethaKannammal .S. (2007). An Introduction to Tourism in Tamil Nadu. Chennai: University of Madras.

REFERENCE BOOKS

Bhatia, A.K. (1997). Tourism Development: Principles and Practices, New Delhi: Sterling Publishers, Pvt.Ltd.

Bhatia, A.K. (2014). The Business of Travel Agency and Tour Operations Management, New Delhi: Sterling Publications.

Marc Mancini, (2000). Conducting Tours: A Practical Guide, New Zealand: Cengage Learning Publications.

Negi, J. (2004). Travel Agency and Tour Operation: Concepts and Principles, New Delhi: Kanishka Publisher.

Pran Nath Seth, (2008). Successful Tourism Management: Fundamentals of Tourism, New Delhi : Sterling Publications.

Web Resources

https://www.academia.edu/14264572/Basic_Concept_on_Tourism

<http://bieap.gov.in/Pdf/TTPaperIIYR2.pdf>

Course Code 23UHIN11	PO1		P	PO 3		P	PO 5	PO 6	PO 7	
	PSO 1. a	PSO 1. b	PSO 2	PSO 3. a	PSO 3.b	PSO 4	PSO 5	PSO 6	PSO 7.a	PSO 7.b
CO1	3	1	3	3	-	2	3	3	1	1
CO2	3	3	1	1	3	3	1	3	2	-
CO3	3	2	2	2	-	1	3	-	-	-
CO4	3	2	1	2	3	2	2	3	1	3
CO5	3	2	1	3	1	3	2	2	-	-

Strong (3) Medium (2) Low (1)

Dr.M.Babyrani
Head of the Department

Dr.M.Babyrani
Dr.M.Bathima Begum
Course Designers



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B.A. History

(2023-2024 onwards)

Semester II	Indian Constitution	Hours/Week: 2	
NME -2		Credits: 2	
Course Code 23UHIN21		Internal 25	External 75

Course Outcomes:

On the completion of course the students will be able to

CO 1: describe the importance of Indian Constitution. [K1]

CO 2: recall the concepts and features of Indian Constitution.[K1]

CO 3: discuss the forms and functions of Government and its political institutions.[K2]

CO 4: explain the functions of legislative, executive and judiciary in the Constitution.[K2]

CO 5: identify the working of Indian Constitution.[K3]

Unit I

Sources – Preamble – Salient Features – Citizenship – Amendments. (6 Hours)

Unit II

Fundamental Rights – Directive Principles – Fundamental Duties. (6 Hours)

Unit III

Union Government: President – Prime Minister and Council of Ministers – Parliament – Supreme Court of India. (6 Hours)

Unit IV

State Government: Chief Minister – Governor – State Legislature – High Courts. (6 Hours)

Unit V

Local Government: Urban – Rural. (6 Hours)

TEXT BOOKS

Agarwal, R.C. and Mahesh Bhatnagar,(2006). *Constitutional Development and National Movement of India*, New Delhi: S. Chand & Co.

REFERENCE BOOKS

Balan, G. and Dakshinamurthy, D. *Constitutional Development and Freedom Movement*, Chennai:VanathiPathipagam,

Durga Das Basu, (2019). *Introduction to the Constitution of India*, Gurgaon: Lexis Nexis.

Granville Austin, (1999). *The Indian Constitution: Cornerstone of a Nation*, New Delhi: Oxford University Press.

Hari Hara Das, (2001). *Indian Government and Politics*, New Delhi: Himalaya Publishing House.

JagadishSwarup,(1984). *Constitution of India*, Allahabad: Dandewal House.

Mahendra Pal Singh, V.N. (2019).*Shukla's Constitution of India*, (Thirteenth Edn.), Lucknow: Eastern Book Company.

Pylee, M.V. (2012). *Constitutional Publishing Government in India*, New Delhi: S. Chand & Co. Ltd.

Pylee, M.V. (2016). *India's Constitution*, NewDelhi: S. Chand & Co.

Rao, B.N. (1960). *India's Constitution in the Making*, Madras: Orient Longmans.

Subhash, C. Kashyap, (2021). *Our Constitution: An Introduction to India's Constitution and Constitutional Law*, New Delhi: National Book Trust.

Sujit Choudhry, et. al., ed.), (2016). *The Oxford Handbook of the Indian Constitution*, London: Oxford University Press.

Web Resources

<https://www.tn.gov.in/index.php>

<https://www.assembly.tn.gov.in/>

<https://legislative.gov.in/constitution-of-india>

<https://www.india.gov.in/>

<https://www.indianculture.gov.in/ebooks/indias-constitution-making>

Course Code 23UHIN21	PO1		P	PO 3		P	PO 5	PO 6	PO 7	
	PSO 1. a	PSO 1. b	PSO 2	PSO 3. a	PSO 3.b	PSO 4	PSO 5	PSO 6	PSO 7.a	PSO 7.b
CO1	3	3	-	-	-	-	1	3	2	2
CO2	3	3	2	1	1	1	1	2	2	-
CO3	2	2	2	1	2	1	2	2	1	-
CO4	3	2	1	-	-	2	1	2	1	1
CO5	3	2	2	1	-	-	-	-	1	2

Strong (3) Medium (2) Low (1)

Dr.M.Babyrani
Head of the Department

Dr.S.Lalitha
Dr.V.Natchathira Selvakumari
Course Designers



வே.வ.வன்னியப்பெருமாள் பெண்கள் கல்லூரி

(விருதுநகர் இந்து நாடார்களுக்குப் பாத்தியப்பட்டது)
 மதுரை காமராசர் பல்கலைக்கழகத்தின் கீழ் தன்னாட்சி உரிமம் பெற்றது
 (தேசிய தரமதிப்பீட்டுக் குழுவின் மறுமதிப்பீட்டில் (முன்றாம் சுற்று) 'A' அந்தஸ்து பெற்றது)
 விருதுநகர் - 626001

இளங்கலை வரலாறு (2023 -24 ஆம் ஆண்டு முதல்)

முதலாம்	சுற்றுலா ஓர் அறிமுகம்	நேரம் / வாரம்:	2
NME- 1		தர மதிப்பு :	2
பாடக்குறியீடு 23UHN11		அகமதிப்பெண் 25	புறமதிப்பெண் 75

கற்றல் வெளிப்பாடு

பாடத் திட்டம் நிறைவுற்ற நிலையில் மாணவர்கள்

CO 1: சுற்றுலாவின் அடிப்படை அம்சங்கள் மற்றும் அதன் முக்கியத்துவத்தை நினைவ கூறும் திறன் பெற்றிருப்பர். [K1]

CO 2: சுற்றுலாத் துறையின் கூறுகள், ஆக்கக் கூறுகள் மற்றும் செயல்பாடுகளை வரையறுக்கும் புலன் பெற்றிருப்பர். [K1]

CO 3: சுற்றுலா வளர்ச்சிக்கான கொள்கைகள் மற்றும் நடைமுறைகளைப் பற்றி விவாதம் செய்யும் அறிவினை பெற்றிருப்பர்[K2]

CO 4: பொருளாதாரம் மற்றும் கலாச்சாரத்தை மேம்படுத்துவதில் சுற்றுலாவின் பங்கை கோட்டுக் காட்டும் ஆற்றல் பெற்றிருப்பர். [K2]

CO 5: சுற்றுலாத்துறையின் வளர்ச்சி பற்றிய அறிவை அடையாளம் காணும் புலமை பெற்றிருப்பர். [K3]

அலகு I

சுற்றுலாவின் கருத்துக்கள்: சுற்றுலா வரையறை – பயணி – சுற்றுலா பயணி – உல்லாசப்பயணி – பயண ஊக்கக்காரணிகள் -சுற்றுலாவில் தூண்டுதல் மற்றும் ஈர்த்தல் ஊக்கக்காரணிகள் – சுற்றுலாவின் அடிப்படை ஆக்கக்கூறுகள்:
 போக்குவரத்து – கவரும் இடம் – தங்குமிடம் – சுற்றுலாவின் கூறுகள்: காலநிலை – அடிப்படை வசதிகள் – அணுகுதல் – வரலாற்று மற்றும் கலாச்சாரக் காரணிகள்
 (6 மணிநேரம்)

அலகு II

சுற்றுலாவின் வகைகள் மற்றும் முறைகள்: உள்நாட்டு மற்றும் பன்னாட்டு சுற்றுலா - நீண்ட மற்றும் குறுகிய தூர சுற்றுலா - ஓய்வுச் சுற்றுலா - புனிதயாத்திரை சுற்றுலா - சிறப்பு ஆர்வ சுற்றுலா - சாகச சுற்றுலா - சுற்றுச்சூழல் சுற்றுலா - கலாச்சார சுற்றுலா - பாலைவன சுற்றுலா - வேளாண் சுற்றுலா - உணவு சுற்றுலா - மருத்துவ சுற்றுலா - நிரந்தர சுற்றுலா (6 மணிநேரம்)

அலகு III

பயண நிறுவனம்: பயண முகவர் பொருள் - பயண நிறுவனத்தின் வகைகள் - பெரிய அளவிலான பயணத்தில் முகவர்களின் பங்குகள் - பயண முகவரின் தொழிற்பண்புகள் (6 மணிநேரம்)

அலகு IV

சுற்றுலா பயண இயக்குநர் : சுற்றுலா பயண இயக்குநர் பொருள் - சுற்றுலா பயண இயக்குநரின் வகைகள்: உள்ளூர், வெளியூர், உள்நாட்டு, ஸ்தல மற்றும் சிறப்பு - சுற்றுலாவில் பயண இயக்குநர்களின் பங்கு - பயணத் திட்டமிடல் கோட்பாடுகள், ஆதாரங்கள் மற்றும் வழிகாட்டுதல்கள் (6 மணிநேரம்)

அலகு V

பயண ஆவணங்கள்: கடவுச்சீட்டு - விசா - மருத்துவ சுகாதார சான்றிதழ்கள் - வரி - சுங்கம் - செலாவணி - பயணக் காப்பீடு - சுற்றுலா தொடர்பான சேவைகளில் தகவல் தொழில்நுட்பத்தின் பங்கு - கணினிமயமாக்கப்பட்ட முன்பதிவு அமைப்பு (CRS) மற்றும் உலகளாவிய விநியோக அமைப்பு (GDS) (6 மணிநேரம்)
உரை புத்தகம்

1.சாந்தகுமாரி,ஆர்.(2002), சுற்றுலா,சென்னை:சாந்தா பதிப்பகம்.

குறிப்பு புத்தகங்கள்

1.ஈஸ்வரன்.எஸ். (2015), சுற்றுலாவியல், சென்னை:பாவை பதிப்பகம்.

2.காந்திதாசன்,எம்.தியாகரஜன்&ஜெ.சதாசிவம்,பி.(2004),சுற்றுலாவியல்,மதுரை: பாவை பதிப்பகம்.

3.தர்மராஜ்,ஜே. (2004), சுற்றுலா, சிவகாசி:டென்சி பப்ளிகேஷன்ஸ்.

4.இராமகிருஷ்ணன்,சீ.(2008),இந்திய மரபுச் சுற்றுலா, சென்னை:பாவை பதிப்பகம்.

Course Code 23UHIN11	PO1		PO2	PO 3		PO4	PO 5	PO 6	PO 7	
	PSO 1. a	PSO 1. b	PSO 2	PSO 3. a	PSO 3.b	PSO 4	PSO 5	PSO 6	PSO 7.a	PSO 7.b
CO1	3	1	3	3	1	2	3	3	1	1
CO2	3	3	3	1	3	3	1	3	2	1
CO3	3	3	3	2	3	3	3	3	1	1
CO4	3	3	2	2	3	3	3	3	1	3
CO5	3	2	3	3	3	3	3	3	1	1

Strong (3) Medium (2) Low (1)

முனைவர்.ம.பேபிராணி
துறைத் தலைவர்

முனைவர்.ம.பேபிராணி
முனைவர்.மு.பாத்திமா பேகம்
பாடத் திட்டவடிவமைப்பாளர்



வே.வ.வன்னியப்பெருமாள் பெண்கள் கல்லூரி

(விருதுநகர் இந்து நாடார்களுக்குப் பாத்தியப்பட்டது)
 மதுரை காமராசர் பல்கலைக்கழகத்தின் கீழ் தன்னாட்சி உரிமம் பெற்றது
 (தேசிய தரமதிப்பீட்டுக் குழுவின் மறுமதிப்பீட்டில் (மூன்றாம் சுற்று) 'A' அந்தஸ்து பெற்றது)
 விருதுநகர் - 626001

இளங்கலை வரலாறு (2023 -24 ஆம் ஆண்டு முதல்)

இரண்டாம் பருவம்	இந்திய அரசியலமைப்பு	நேரம் / வாரம்:	2
NME -2 திறன்மேன்பாட்டு		தர மதிப்பு :	2
பாடக்குறியீடு 23UHIN21		அகமதிப்பெண் 25	புறமதிப்பெண் 75

கற்றல் வெளிப்பாடு

பாடத் திட்டம் நிறைவுற்ற நிலையில் மாணவர்கள்

CO1: இந்திய அரசியலமைப்பின் முக்கியத்துவத்தை விவரிக்கும் ஆற்றல் பெற்றிருப்பர். [K1]

CO2: இந்திய அரசியலமைப்பின் கருத்துக்கள் மற்றும் தன்மைகளை நினைவுகூறும் திறன் பெற்றிருப்பர். [K1]

CO3: அரசு மற்றும் அதன் அரசியல் நிறுவனங்களின் வடிவங்கள் மற்றும் செயல்பாடுகளைப் பற்றி விவாதிக்கும் புலமை பெற்றிருப்பர். [K2]

CO4: அரசியலமைப்பில் சட்டமன்றம், நிர்வாகத்துறை மற்றும் நீதித்துறையின் செயல்பாடுகளை விளக்கும் அறிவினைப் பெற்றிருப்பர். [K2]

CO5: இந்திய அரசியலமைப்புச் சட்டத்தின் செயல்பாடுகளை அடையாளம் காணும் புலன் பெற்றிருப்பர். [K3]

அலகு I

ஆதாரங்கள் - முகவுரை - சிறப்பு அம்சங்கள் - குடியுரிமை - திருத்தமுறைகள்
(6 மணிநேரம்)

அலகு II

அடிப்படை உரிமைகள் - வழிகாட்டுநெறிகள் - அடிப்படைக் கடமைகள்.
(6 மணிநேரம்)

அலகு III

மத்திய அரசு: குடியரசுத்தலைவர் – பிரதம மந்திரி மற்றும் அமைச்சர் குழு பாராளுமன்றம்
- இந்திய உச்ச நீதிமன்றம் (6 மணிநேரம்)

அலகு IV

மாநில அரசு: ஆளுநர் - முதலமைச்சர் மற்றும் அமைச்சர் குழு - மாநில சட்டமன்றம் -
மாநில உயர் நீதிமன்றங்கள் (6 மணிநேரம்)

அலகு V

உள்ளாட்சி அரசாங்கம்: நகர்ப்புறம் – ஊரகம் (6 மணிநேரம்)

உரை புத்தகம்:

1.கோமதிநாயகம்,பி. (2002). தற்கால அரசாங்கங்கள், இராஜபாளையம்: பிரேம் பதிப்பகம்.

குறிப்பு புத்தகங்கள்:

1.அழகுமலை,எ.(2002), தற்கால அரசாங்க முறைகள், மதுரை: ஜே.ஜே. பதிப்பகம்.

2.கோமதிநாயகம்,பி.(2002), தற்கால அரசியல் பகுப்பாய்வு, இராஜபாளையம்: பிரேம் பதிப்பகம்.

3.கோமதிநாயகம், பி. (2003). இந்திய அரசியல் முறையமைப்பு, மதுரை: வைகை பதிப்பகம்.

4.கஸ்தூரி,ஜே.(1998), தற்கால அரசியல் அமைப்புகள், உடுமலைப்பேட்டை: ஈன்ஸ் பதிப்பகம்.

5.தர்மராஜ், ஜே. (2011). தற்கால அரசாங்கங்கள், சிவகாசி: டென்சி பப்ளிகேஷன்ஸ்.

Course Code 23UHIN21	PO1		P	PO 3		PO4	PO 5	PO 6	PO 7	
	PSO 1. a	PSO 1. b	PSO 2	PSO 3. a	PSO 3. b	PSO 4	PSO 5	PSO 6	PSO 7. a	PSO 7. b
CO1	3	3	1	1	1	1	1	3	2	2
CO2	3	3	2	1	1	1	1	2	2	2
CO3	3	2	2	1	2	1	2	2	1	2
CO4	3	3	1	1	1	2	1	2	1	1
CO5	3	2	2	1	1	1	1	1	1	2

Strong (3) Medium (2) Low (1)

முனைவர்.ம.பேபிராணி
துறைத் தலைவர்

முனைவர்.ச.லலிதா
முனைவர்.வி.நட்சத்திர செல்வகுமாரி
பாடத் திட்டவடிவமைப்பாளர்



V.V.VANNIAPERUMAL COLLEGE FOR WOMEN

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Re-accredited with 'A' Grade (3rd Cycle) by NAAC

VIRUDHUNAGAR - 626 001

B.A. English

(2023 -2024 onwards)

Semester I	POPULAR LITERATURE AND CULTURE	Hours/Week: 2	
NME-1		Credits: 2	
Course Code 23UENN11		Internal 25	External 75

COURSE OUTCOMES

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

CO1: describe the content of the prescribed popular literary works. [K1]

CO2: discuss the characteristics of Popular literature presented in the prescribed works. [K2]

CO3: summarise the content of the prescribed works and give a critical analysis. [K2]

CO4: demonstrate the development of plot and themes in the prescribed texts. [K3]

CO5: determine the adaptation of narrative techniques and unique writing style leading to the universal appeal of the works. [K3]

UNIT I

Glover, David and Scott McCracken - Introduction as an essay

Felicity Hughes - Children 's Literature: Theory and Practice, English Literary
History, vol. 45, 1978 (6 Hours)

UNIT II

Brothers Grimm - The Juniper Tree

Sir Arthur Conan Doyle - Adventure of the Speckled Band

Roald Dahl - Extracts from *Charlie and the Chocolate Factory* (Chapters 13 to 15)

(6 Hours)

UNIT III

Satyajit Ray - Professor Shonku and the UFO (from *The Mystery of Munroe Island and Other Stories*, Puffin Classics 2015) (6 Hours)

UNIT IV

Herge - *Tintin in Tibet* (Hergé. Tintin in Tibet. London: Egmont. 2012)

Somdev Bhatt - The Story of Padmavati and Prince Vajramukti (Vikram- Betaal Story) (6 Hours)

UNIT V

J. K. Rowling- *Harry Potter and the Philosopher's Stone* (6 Hours)

TEXT BOOK

Chute, Hillary.(2008). Comics as Literature . Reading Graphic Narrativel. *PMLA* – Publications of The Modern Language Association of America. 123. 452-465.

Herge.(2009). *Tintin in Tibet*. Baker and Taylor.

REFERENCE BOOKS

Gill, Rosalind & Elena Herdieckerhoff. (2006). Rewriting the romance: newfemininities in chick lit? *Feminist Media Studies* 6(4).

WEB RESOURCES

<https://fdocuments.in/document/childrens-literature-55845ad6244ac.html>

<http://www.cambridgeblog.org/wp-content/uploads/2012/08/The-Cambridge-Companion-to-Popular-Fiction-Intro.pdf>

Course Code	PO1		PO2		PO 3	PO4		PO 5	PO 6	PO 7
	PSO 1. a	PSO 1. b	PSO 2. a	PSO 2. b	PSO 3	PSO 4. a	PSO 4. b	PSO 5	PSO 6	PSO 7
23UENN11										
CO1	3	2	1	1	2	2	3	1	3	1
CO2	3	2	1	1	1	1	3	1	2	1
CO3	3	3	1	1	1	2	3	1	1	1
CO4	3	2	1	1	1	1	3	1	1	1
CO5	3	3	1	2	2	2	3	2	3	1

Strong (3) Medium (2) Low (1)

Dr.G. Athirshtakumari
Head of the Department

Mrs. A. Poornima Devi
Course Designer



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VIRUDHUNAGAR - 626 001

B.A. English

(2020 -2021 onwards)

Semester II	ENGLISH FOR PROFESSIONS	Hours/Week: 2	
NME- 2		Credits: 2	
Course Code 23UENN21		Internal 25	External 75

COURSE OUTCOMES

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

CO1: define the essential skills required to perform various professional activities

through language and literature. [K1]

CO2: state the correct use of grammar and various forms of written communication. [K1]

CO3: explain the necessary methods of business correspondence like drafting-mail, resume and notice. [K2]

CO4: discuss the importance of technical knowledge and soft skills for better career Prospects. [K2]

CO5: demonstrate the use of English grammar, soft skills and communication skills. [K3]

UNIT I SOFT SKILLS

(6 Hours)

Interview Skills

Adaptability Skills

(From English and *Soft Skills* - p.(69-98)

UNIT II GRAMMAR USAGE

(6 Hours)

Articles

Prepositions

Concord

Common Errors

UNIT III WRITTEN COMMUNICATION SKILLS

(6 Hours)

Business Correspondence: Sales Letter – Adjustment Letter – Enquiry Letter -
Quotation Letter

(From *Developing Communication Skills* p(180-189)

UNIT IV PROFESSIONAL WRITING

(6 Hours)

Resume

E-Mail

Notices

Advertisement

(From *Soft Skills*.p. 80-81, *Technical Communication*. p. 381-396, *Communication Skills*.p.242-252)

UNIT V TECHNICAL WRITING

(6 Hours)

Writing Instructions

Publicity Brochures

(From *Technical Communication*p.468-481,*Written English for You*.p.189-191)

TEXT BOOKS

Dhanavel S.P. (2010). *English and Soft Skills*. Hyderabad: Orient Blackswan.

Lakshminarayanan, K.R. (2003). *Effective Technical English*.Chennai:Scitech
Publications.

Mohan, Krishna, MeeraBanerji. (1994). *Developing Communication Skills*. Chennai:
Macmillan Private.

Pillai, Radhakrishna.,Rajeevan, K. et.al. (1992). *Written English for You*. Chennai:
Emerald.

Raman, Meenakshi.,Sangeetha Sharma. (2008). *Technical Communication:
English forEngineers*. Delhi: Oxford University Press.

Srinivasan, Hema. (2001). *Communication Skills: A Practical Approach*.
New Delhi: Frank Bros.

Course Code 23UENN21	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	3	2	2	1	2	1	2
CO2	2	3	1	1	2	2	1
CO3	2	3	2	1	3	1	1
CO4	2	3	2	2	3	2	1
CO5	1	2	1	2	2	1	2

Dr.G.Athirshtakumari

Head of the Department

Dr.T.Ganga Parameswari

Course Designers



வே.வ.வன்னியப்பெருமாள் பெண்கள் கல்லூரி

(விருதுநகர் இந்து நாடார்களுக்குப் பாத்தியப்பட்டது)
 மதுரை காமராசர் பல்கலைக்கழகத்தின் கீழ் தன்னாட்சி உரிமம் பெற்றது
 (தேசிய தரமதிப்பீட்டுக் குழுவின் மறுமதிப்பீட்டில் (முன்றாம் சுற்று) 'A' அந்தஸ்து பெற்றது)
 விருதுநகர் - 626001

இளங்கலை/ இளமறிவியல் முதலாமாண்டு - முதற்பருவம்
 (2023 - 2024 ஆம் ஆண்டு முதல் சேரும் மாணவர்களுக்குரியது)

முதற்பருவம்	பேச்சுக்கலைத் திறன்	நேரம்/ வாரம்: 2	
NME -1		தரமதிப்பு : 2	
பாடக்குறியீட்டு எண் 23UTAN11		அகமதிப்பெண் 25	புறமதிப்பெண் 75

கற்றல் வெளிப்பாடு

இந்தப் பாடத்திட்டம் முடிந்த பிறகு, மாணவர்கள்

CO1: பேச்சுக்கலையின் இலக்கணத்தையும், வரலாற்றையும் எடுத்துரைப்பர். [K1]

CO2: பேச்சுக்கலையின் முன்னோடிகள், பேச்சாளரின் தகுதிகள் போன்றவற்றை அறிந்து கொள்வர். [K1]

CO3: சொற்பொழிவின் வகைகளையும், பேச்சுக்கலைக்கான உத்திகளையும் அறிந்து புலப்படுத்துவர். [K2]

CO4: பேச்சுக்கலைக்கான மொழி வளத்தையும், ஆளுமைத் திறத்தையும் வளர்த்துக் கொள்வர்.[K2]

CO5: பேச்சுக்கலைத் திறனில் மேம்பாடு அடைவர். [K3]

கூறு-1

சொற்பொழிவு ஓர் அரிய கலை - வரையறை - வரலாறு - விளக்கம் - பேச்சாளர் தகுதிகள் - முன்னோடிகள் - இலக்கிய அறிவு - மொழி அறிவு - அனுபவம் - தனித்தன்மை - முன்முயற்சிகள். (6 மணிநேரம்)

கூறு-2

சொற்பொழிவு வகைகள் - சமயம் - இலக்கியம் - அரசியல் - பொழுதுபோக்கு - நகைச்சுவை - ஊடகப்பொழிவுகள். (6 மணிநேரம்)

கூறு-3

சொற்பொழிவுத் திறன்கள்- அவையறிதல் - பொருளறிதல் - சொல்தெரிவு - மொழி ஆளுமை - இலக்கியப் புலமை - வெளிப்பாட்டுத் திறம் - தொனி.

(6 மணிநேரம்)

கூறு-4 புகழ் பெற்ற சொற்பொழிவாளர்கள் - வ.உ.சி - திரு.வி.க - மறைலையடிகள் - வரதராசலு நாயுடு - ஜீவா - பெரியார் - அண்ணா - கி.ஆ.பெ. - கலைஞர் - வாரியார் - கி.வா.ஜ - புலவர் கீரன் - வம்புரிஜான் - சிலம்பொலியார் - தென்கச்சி சுவாமிநாதன் - மேலைநாட்டுப் பொழிஞர்கள் -முதலியோர்.

(6 மணிநேரம்)

கூறு-5

பொழிவுத் தயாரிப்பும் உத்திகளும்

(6 மணிநேரம்)

பாட நூல்

ம.திருமலை, (2009) பேச்சுக்கலை, மதுரை மீனாட்சி புத்தக நிலையம்.

பார்வை நூல்கள்

ஒருமுது சாரணர், (1953) பேச்சுக்கலை, முதல்பதிப்பு: (tamildigitallibrary.org)
தெய்வசிகாமணி ஆச்சாரியார், (1950), மேடைத்தமிழ், (tamildigitallibrary.org)
டேல் கார்னகி, (2012) மேடைப் பேச்சுக்கலை, சென்னை, கண்ணதாசன்
பதிப்பகம்.

கமலா கந்தசாமி, (2013) எப்பொழுதும் வெற்றிதரும் பேச்சுக்கலை, ,
சென்னை:நர்மதா பதிப்பகம்.

Course	PO 1	PO 2	PO3		PO4		PO 5		PO 6	PO 7
Code	PSO 1	PSO 2	PSO 3. a	PSO 3. b	PSO 4. a	PSO 4. b	PSO 5.a	PSO 5.b	PSO 6	PSO 7
23UTAN11										
CO1	3	2	2	2	2	2	2	2	2	2
CO2	3	3	3	3	2	2	2	2	3	2
CO3	3	3	2	2	2	2	3	3	3	3
CO4	3	3	3	3	2	2	2	2	3	3
CO5	3	3	3	3	3	3	3	3	3	3

Dr.T.Velmayil
Head of the Department

Dr.M.Tamilselvi
Course Designer



வே.வ.வன்னியப்பெருமாள் பெண்கள் கல்லூரி

(விருதுநகர் இந்து நாடார்களுக்குப் பாத்தியப்பட்டது)
 மதுரை காமராசர் பல்கலைக்கழகத்தின் கீழ் தன்னாட்சி உரிமம் பெற்றது
 (தேசிய தரமதிப்பீட்டுக் குழுவின் மறுமதிப்பீட்டில் (முன்றாம் சுற்று) 'A' அந்தஸ்து பெற்றது)
 விருதுநகர் - 626001

இளங்கலை/ இளம் அறிவியல் முதலாமாண்டு - இரண்டாம் பருவம்
 (2023 - 2024 ஆம் ஆண்டு முதல் சேரும் மாணவர்களுக்குரியது)

இரண்டாம் பருவம்	பயன்முறைத் தமிழ்	நேரம் / வாரம் : 2	
NME -2		தர மதிப்பு : 2	
பாடக்குறியீட்டு எண் 23UTAN21		அகமதிப்பெண் 25	புறமதிப்பெண் 75

கற்றல் வெளிப்பாடு

இந்தப் பாடத்திட்டம் முடிந்த பிறகு, மாணவர்கள்

CO1: இக்காலத் தமிழின் இயல்புகளை அறிவார்.[K1]

CO2: நிறுத்தற்குறிகள் பயன்பாடு, சொற்களைச் சேர்த்தும் பிரித்தும் எழுதும் முறைகள் பற்றி அறிந்திருப்பார். [K1]

CO3: நடைமுறை சார் மொழித் திறன்கள் (எழுத்துத் திறன்கள்) செய்திக் கடிதம் ஆவணம் எழுதும் முறைகளைப் பற்றி உணர்ந்திருப்பார். [K2]

CO4: திறன்களை வளர்க்கும் நெறிகளைப் பற்றி அறிந்திருப்பார். [K2]

CO5: கட்டுரை எழுதும் அடிக்குறிப்புத் தருதல் தயாரித்தல் முறையினை அறிந்திருப்பார். [K3]

கூறு - 1

இக்காலத் தமிழின் இயல்புகள், சந்திவிதிகள், சந்தி வரையறை, சந்தியின் தேவை, சந்தி வகைப்பாடுகள், அகச்சந்தி, புறச்சந்தி, சொற்சந்தி வருமிடங்கள், வல்லினம் மிகும் இடங்கள், மிகா இடங்கள், நில தனிக் குறிப்புகள், பழஞ்சந்தி இக்காலச் சந்தி வேறுபாடுகள், சிறப்புச் சந்தி விதிகள், நிறுத்தற்குறிப் பயன்படும் சந்தி அறிதல்.

(6 மணிநேரம்)

கூறு - 2

நிறுத்தற்குறிகள் பயன்பாடு, சொற்களைச் சேர்த்தும் பிரித்தும் எழுதும் முறைகள், பேச்சும் கால இடைவெளியும் நிறுத்தற்குறிகளும், நிறுத்தற்குறிகள் காற்புள்ளி, அரைப்புள்ளி, முக்காற்புள்ளி, முற்றுப்புள்ளி, புள்ளி, முப்புள்ளி, கேள்விக்குறி,

உணர்ச்சிக்குறி, இரட்டை ஒற்றை மேற்கோள்குறிகள், மேற்படிக்குறி, அடைப்புக் குறிகள், பிறை அடைப்பு, சதுர அடைப்பு, இணைப்புக் கோடு, இணைப்புச் சிறுகோடு, சாய்கோடு, அடிக்கோடு, விடுகுறி இவற்றின் முறையான பயன்பாட்டு முறைகள், சொற்களைச் சேர்த்தும் பிரித்தும் எழுதும் முறைகள். (6 மணிநேரம்)

கூறு - 3

நடைமுறை சார் மொழித் திறன்கள் எழுத்துத்திறன்கள், செய்திக்கடிதம் ஆவணம் எழுதும் முறைகள் செய்தி எழுதும் முறைகள் - செய்திக் கட்டமைப்பு, தலைப்பு. முகப்பு, உடல், செய்தியில் மொழிப் பயன்பாடு செய்திக் கட்டுரை தலைப்புத் தெரிவு, தகவல் சேகரிப்பு வகைகள், தமிழில் நெகிழ்வுரை எழுதும் முறை, நெகிழ்வுரையில் மொழிப் பயன்பாடு கருத்துரைகள், தலையங்கம், நூல் மதிப்புரைகள், கடிதம் ஆவணம் எழுதும் முறைகள். (6 மணிநேரம்)

கூறு - 4

உரையாடல் திறன் தடைகள், தேவையான நல்ல குணங்கள், உரையாடல் உத்திகள், சொற்பொழிவுத் திறன், நேர்காணல், வாய்மொழித் தேர்வுத் திறன்களை வளர்க்கும் நெறிகள். (6 மணிநேரம்)

கூறு - 5

கட்டுரை வரையறை, கட்டுரையின் இயல்பு, சுருக்கமான எளிமையான மொழிப் பயன்பாட்டு முறைகள். (6 மணிநேரம்)

பாட நூல்

பா.ரா.சுப்பிரமணியன் வ.ஞானசுந்தரம், (2001) தமிழ் நடைக் கையேடு, சென்னை.மொழி வெளியீடு.

பொற்கோ. (2003) தமிழில் நாமும் தவறில்லாமல் எழுதலாம், சென்னை. பூம்பொழில் வெளியீடு.

அ.கி.பரந்தாமனார், (2000) நல்ல தமிழ் எழுத வேண்டுமா? பாரி நிலையம், சென்னை.

பார்வை நூல்கள்

1. எம்.ஏ.நுஃமான். (1999) அடிப்படைத் தமிழ் இலக்கணம், பூ.பாலசிங்கம், கொழும்பு புத்தக நிலையம்.
2. பொற்கோ, (2002) இக்கால தமிழ் இலக்கணம், சென்னை. பூம்பொழில் வெளியீடு.
3. கு.பரமசிவம், (1983) இக்கால தமிழ் மரபு, சிவகங்கை. அன்னம்(பி) லிமிடெட்,
4. ஞா.தேவநேயப் பாவாணர், (1999) உரைநடை இலக்கணமும் கட்டுரை எழுதும் முறையும், சென்னை. அழகுப் பதிப்பகம்.
5. மருதூர் அரங்கராசன், (2004) தவறின்றித் தமிழ் எழுத, சென்னை. ஐந்திணைப் பதிப்பகம்.
6. தி.முத்துக் கண்ணப்பன், (1994) நல்ல தமிழ் அறிவோம், சென்னை, கங்கை புத்தக நிலையம்.
7. மு.வரதராசன், (1998) மொழி நூல், திருநெல்வேலி, தென்னிந்திய சைவ சித்தாந்த நூற்பதிப்புக் கழகம்.
8. கா.பட்டாபிராமன், (2004) மொழிப் பயன்பாடு, சென்னை. நியூசெஞ்சுரி புக்ஹவுஸ்.
9. மா.நன்னன், (1990) வழக்குத் தமிழ், திருநெல்வேலி, தென்னிந்திய சைவ சித்தாந்த நூற்பதிப்புக் கழகம்.

Course Code	PO 1	PO 2	PO3		PO4		PO 5		PO 6	PO 7
	PSO 1	PSO 2	PSO 3. a	PSO 3. b	PSO 4. a	PSO 4.b	PSO 5.a	PSO 5.b	PSO 6	PSO 7
23UTAN21										
CO1	3	3	2	2	2	2	2	2	2	2
CO2	3	3	3	3	3	3	3	3	2	2
CO3	3	3	3	3	2	2	3	3	3	3
CO4	3	3	3	3	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3

Dr.T.Velmayil
Head of the Department

Dr.C.Nagajothi
Course Designer



V.V.VANNIAPERUMAL COLLEGE FOR WOMEN

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VIRUDHUNAGAR - 626 001

B.Com.

(2023 - 24 onwards)

Semester I	PRACTICAL BANKING	Hours/Week: 2	
NME -1		Credits: 2	
Course Code 23UCON11		Internal 25	External 75

COURSE OUTCOMES

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

CO1: state the basic concepts of banking and electronic payment system. [K1]

CO2: describe the relevant provisions of Act regarding banking and Electronic payment system.[K1]

CO3: classify the types of deposits, negotiable instruments, forms of advances and electronicpayment systems. [K2]

CO4: apply the procedures and principles involved in banking and Electronic payment [K2]

CO5: fill up of Account Opening Form and draw a cheque and show the features, advantages anddisadvantages of Mobile Banking and Green Banking. [K3]

UNIT I

Banking: Definition- Meaning: Bank – Banking – Banker – Customer - Procedure for Opening anAccount. (6 Hours)

UNIT II

Deposits: Types – Savings – Current – Fixed –Recurring. (5 Hours)

UNIT III

Negotiable Instruments: Draft –Cheque– Definition –Specimen Form – Drawing of a Cheque– Electronic Cheques (E-Cheque) – Features – Advantages– Electronic Cash (E-Cash) –Features. (6 Hours)

UNIT IV

Loan and Advances: Principles of Sound Lending - Secured and Unsecured Advances – Forms of Advances – canons of a good banking security. (5 Hours)

UNIT V

Electronic Payment System: ATM – Debit Card – Credit Card, Smart Card, NEFT, RTGS. (8 Hours)

SELF STUDY:

1. Filling up of Account Opening Form and Writing of Cheque.
2. Mobile Banking and Green Banking

TEXT BOOK

Study Material Prepared by the Course Teachers.

REFERENCE BOOKS

1. Gordon & Natarajan, (2017). *Banking Theory Law and Practice*, Mumbai: Himalaya Publishing House, 26th Revised Edition.
2. Rama, A., & Aruna Devi, A. (2019). *Banking Technology*, Chennai: New Century Book House (P) Ltd., 5th Revised Edition.

Web Resources

- 1 <https://www.rbi.org.in/>
- 2 <https://businessjargons.com/e-banking.html>
- 3 <https://www.wallstreetmojo.com/endorsement/>

Course Code 23UCON11	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
CO1	3	2	1	2	2	-	-
CO2	3	1	1	-	1	-	-
CO3	3	2	1	2	1	-	-
CO4	3	1	1	3	1	-	-
CO5	3	1	1	1	2	-	-

Strong - 3**Medium – 2****Low – 1**

Dr. M. Ponnien Selvi
Head of the Department

Dr M. Annam
Course Designer



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VIRUDHUNAGAR - 626 001

B.Com. (SF)
(2023 -24 onwards)

Semester I	FINANCIAL LITERACY- I	Hours/Week: 2	
NME -1		Credits: 2	
Course Code 23UCON12		Internal 25	External 75

COURSE OUTCOMES

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

CO1: define various concepts in financial services [K1]

CO2: understand the features and importance of financial services [K1]

CO3: describe the various classification of risks and types of deposits in banks,
post office and insurance [K2]

CO4: summarise the advantages of availing financial services [K2]

CO5: synthesise the famous mobile banking apps in India and evaluate the formalities to
open accounts in the bank [K3]

UNIT I

Financial Literacy: Meaning, importance and scope of financial literacy; Pre requisites of Financial Literacy – Various financial institutions – Banks, Insurance companies, Post Offices. (6 Hours)

UNIT II

Post Office Deposits: Meaning – Types of Post Office Deposits: Fixed Deposits, Recurring Deposits and Savings Deposits – Features– Sukanya Samriddhi Yojana Account. (6 Hours)

UNIT III

Bank Deposits: Definition – Features of Bank Deposits – Types of Bank Deposits: Fixed Deposits – Fixed Deposit Receipts – Features - Recurring Deposits, Savings Deposits and Current Deposits – Features-Deposits using ATM card. (6 Hours)

UNIT IV

Risk Management: Meaning and Definition of Risk – Meaning of Uncertainty – Classification of Risks- Methods of Handling Risks- Management of Risk: Meaning and Definition – Features– Importance– Principles. (6 Hours)

UNIT V

Nature of Insurance Business: Meaning and Definition of Insurance — Functions of Insurance – Benefits of Insurance- Classification of Insurance –Definition of contract of Insurance – Characteristics of insurance contract -Essential elements of a contract of insurance . (6 Hours)

SELF STUDY:

1. Top ten mobile banking apps in India.
2. Formalities to open various types of bank account.

TEXT BOOK

Study materials prepared by the course designer.

REFERENCE BOOKS

1. Avadhani, V. A. (2019). Investment Management. Mumbai: Himalaya Publishing House Pvt.Ltd.
2. Kothari, R. (2010). Financial Services in India-Concept and Application. New Delhi:Sage Publications India Pvt. Ltd.
3. Periasamy, P. (2017). Principles and Practice of Insurance, Mumbai: Himalaya PublishingHouse

Course Code	PO	PO	PO	PO	PO	PO	PO
23UCON12	1	2	3	4	5	6	7
CO1	3	3	-	1	-	1	-
CO2	3	3	-	1	-	2	-
CO3	3	3	-	1	-	-	-
CO4	3	3	-	-	-	2	-
CO5	3	3	-	2	-	1	-

Strong – 3

Medium – 2

Low – 1

Dr. C.Amirtha selvi
Head of the Department

Dr.V.Shanthameena
Dr. J.Premila
Course Designers



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VIRUDHUNAGAR - 626 001

B.Com.

(2023 - 24 onwards)

Semester II	BASIC ACCOUNTING PRINCIPLES	Hours/Week: 2	
NME - 2		Credits: 2	
Course Code 23UCON21		Internal 25	External 75

COURSE OUTCOMES

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

CO1: state the classification of accounts and accounting terminology. [K1]

CO2: mention the rules and procedure in accounting. [K1]

CO3: apply the rules for journalising and balancing the accounts. [K2]

CO4: prepare the trial balance and final accounts. [K2]

CO5: integrate the trial balance and balance sheet. [K3]

UNIT I

Introduction: Book Keeping –Accounting–Single Entry System - Double Entry System – Classification of Accounts. Accounting Standards: Meaning – Definition – Significance. (5 Hours)

UNIT II

Journal Entry: Rules for Journalising – Passing of Journal Entries. (5 Hours)

UNIT III

Ledger: Purpose – Posting in the Ledger – Balancing an Account. (5 Hours)

UNIT IV

Trial Balance: Preparation of Trial Balance. (5 Hours)

UNIT V

Final Accounts: Preparation of Trading Account – Preparation of Profit and Loss – Preparation of Balance Sheet (Problems with adjustments related to closing stock only). (10 Hours)

Note:**Composition of the Question Paper:****Theory : 20%****Problems : 80%****SELF STUDY:**

1. Distinction between Book keeping and Accounting.
2. Preparation of Journal Entries, Ledger Accounts, Trial Balance and Final Accounts with the given five maximum transactions.

TEXT BOOK

1. Nagarajan, K.L., Vinayagam, N., & Mani, P.L. (2013). *Principles of Accountancy*, New Delhi: Eurasia Publishing House Pvt. Ltd. Reprint.

REFERENCE BOOKS

1. Reddy, T.S., & Murthy. A. (2011). *Financial Accounting*, Chennai: Margham Publications, 6th Revised Edition, Reprint 2018.
2. Arulanandam, M.A., & Raman, K.S. (2014). *Advanced Accountancy*, Mumbai: Himalaya Publishing House, 9th Revised Edition, Reprint 2022.

WEB RESOURCES

- 1 <https://www.slideshare.net/ramusakha/basics-of-financial-accounting>
- 2 https://www.icai.org/post.html?post_id=17882
- 3 <https://in.indeed.com/career-advice/career-development/what-is-a-trial-balance>

Course Code 23UCON21	PO 1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	3	3	-	-	-	-	-
CO2	3	3	-	-	-	-	1
CO3	3	3	1	1	-	-	1
CO4	3	3	1	1	-	-	1
CO5	3	3	1	1	-	1	1

Strong - 3Dr.M.PonnienSelvi
Head of the Department**Medium – 2****Low – 1**Dr. M.Annam
Course Designer



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VIRUDHUNAGAR - 626 001

B.Com.(SF)

(2023 - 24 onwards)

Semester II	FINANCIAL LITERACY II	Hours/Week: 2	
NME - 2		Credits: 2	
Course Code 23UCON22		Internal 25	External 75

COURSE OUTCOMES

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

CO1: define the basic concepts of life insurance, marine and fire insurance, shares and Mutualfunds. [K1]

CO2: describe the features of life, marine and fire insurance, shares and mutual funds.[K1]

CO3: classify the life, marine and fire insurance policies, shares and mutual funds. [K2]

CO4: explain the organizational structure of LIC, objectives and functions of SEBI and summarise the benefits of investment in real estate and gold. [K2]

CO5: apply the IRDA Guidelines for investment in LIC's fund and make use of insurededocuments and policy conditions. [K3]

UNIT I

Life Insurance: Meaning and Definition of Life insurance – features of life insurance
Classification of Life Insurance Policies: on the basis of duration of policy and on the basis of methods of premium payments. **(6 Hours)**

UNIT II

Life Insurance Corporation of India (LIC): Aims of LIC- Organizational Structure –Advantages of Life Insurance – Important Functions – Role of LIC in National Economy. **(6 Hours)**

UNIT III

General Insurance Business: Marine Insurance: Definition – Characteristics- Essential Elements of Marine Insurance – Types of Marine Insurance policies.

Fire Insurance: Definition – Fundamental Principles of Fire Insurance – Types of Life Insurance policies - Distinction between Life Insurance and Fire Insurance.

(6 Hours)

Unit IV

Shares: Meaning – Definition – Features of Shares – Equity Shares, Preference Shares – Types of Preference Shares –Demat account- SEBI – Objectives and functions.

(6 Hours)

Unit V

Mutual Funds: Meaning – Definition – Features of Mutual Funds – Types of Mutual Funds in India. Investment in Real Estate – Investment in Gold. **(6 Hours)**

SELF STUDY:

1. IRDA Guidelines for investment in LIC's funds.
2. Insurance Documents and Policy conditions

TEXT BOOKS

1. Periasamy, P. (2017). *Principles and Practice of Insurance*, Mumbai: Himalaya Publishing House.(Unit I,II and III)
2. Kothari, R. (2010). *Financial Services in India-Concept and Application*. New Delhi:Sage Publications India Pvt. Ltd.(Unit IV and V)

REFERENCE BOOKS

1. Mishra, M.N. (2016). *Insurance*, New Delhi: S.Chand & Co. Ltd.
2. Inderjit Singh, Rakesh Katyal., & Sanjay Arora. (2003). *Insurance Principles and Practices*, Ludhiana : Kalyani Publishers.

Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
23UCON22	1	2	3	4	5	6	7
CO1	3	3	-	1	-	1	-
CO2	3	3	-	1	-	2	-
CO3	3	3	-	1	-	-	-
CO4	3	3	-	-	-	2	-
CO5	3	3	-	2	-	1	-

Strong - 3

Medium – 2

Low – 1

Dr C.Amirtha Selvi

Dr.B.Nandhini

Head of the Department

Dr.V.Sakthi Devi

Course Designers



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VIRUDHUNAGAR - 626 001

B.Com. (Computer Applications)

(2023 - 24 onwards)

Semester I	PRACTICAL BANKING	Hours/Week: 2	
NME -1		Credits: 2	
Course Code		Internal	External
23UCON11		25	75

COURSE OUTCOMES

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

CO1: state the basic concepts of banking and electronic payment system. [K1]

CO2: describe the relevant provisions of Act regarding banking and Electronic payment system.
[K1]

CO3: classify the types of deposits, negotiable instruments, forms of advances and electronic payment systems. [K2]

CO4: apply the procedures and principles involved in banking and Electronic payment [K2]

CO5: fill up of Account Opening Form and draw a cheque and show the features, advantages and disadvantages of Mobile Banking and Green Banking. [K3]

UNIT I

Banking: Definition- Meaning: Bank – Banking – Banker – Customer - Procedure for Opening an Account. (6 Hours)

UNIT II

Deposits: Types – Savings – Current – Fixed –Recurring. (5 Hours)

UNIT III

Negotiable Instruments: Draft –Cheque– Definition –Specimen Form – Drawing of a Cheque– Electronic Cheques (E-Cheque) – Features – Advantages– Electronic Cash (E-Cash) –Features. (6 Hours)

UNIT IV

Loan and Advances: Principles of Sound Lending - Secured and Unsecured Advances – Forms of Advances – canons of a good banking security. (5 Hours)

UNIT V

Electronic Payment System: ATM – Debit Card – Credit Card, Smart Card, NEFT, RTGS. (8 Hours)

SELF STUDY :

1. Filling up of Account Opening Form and Writing of Cheque.
2. Mobile Banking and Green Banking

TEXT BOOK

Study Material Prepared by the Course Teachers.

REFERENCE BOOKS

1. Gordon &Natarajan, (2017). *Banking Theory Law and Practice*, Mumbai: Himalaya Publishing House, 26th Revised Edition.
2. Rama, A., &Aruna Devi, A. (2019). *Banking Technology*, Chennai: New Century Book House (P) Ltd., 5th Revised Edition.

Web Resources

- 1 <https://www.rbi.org.in/>
- 2 <https://businessjargons.com/e-banking.html>
- 3 <https://www.wallstreetmojo.com/endorsement/>

Course Code 23UCON11	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
CO1	3	2	1	2	2	-	-
CO2	3	1	1	-	1	-	-
CO3	3	2	1	2	1	-	-
CO4	3	1	1	3	1	-	-
CO5	3	1	1	1	2	-	-

Strong - 3**Medium – 2****Low – 1**

Dr. M. Ponnien Selvi
Head of the Department

Dr M.Annam
Course Designer



V.V.VANNIAPERUMAL COLLEGE FOR WOMEN

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Re-accredited with 'A' Grade (3rd Cycle) by NAAC

VIRUDHUNAGAR - 626 001

B.Com. (Computer Applications)(SF)

(2023-2024 onwards)

Semester I	SELF-EMPLOYMENT AND START-UP BUSINESS	Hours/Week: 2	
NME-1		Credits: 2	
Course Code 23UCCN11		Internal 25	External 75

COURSE OUTCOMES

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

CO1: state the basic concepts related to self-employment, organisation, MSME, agency and financial institutions [K1]

CO2: describe the benefits, limitations and types related to self-employment, organization and agency. [K1]

CO3: explain the qualities of self-employed person, procedure to start small scale business. [K2]

CO4: compare self-employment and entrepreneurship and categorise the package for MSMEs and assistance from institutions for start-ups. [K2]

CO5: apply the concepts and procedures to start new business and agency with ethical principles. [K3]

UNIT I

Self-Employment: Concept – Characteristics – Opportunities – Benefits – Limitations – Qualities for Successfully Self-Employed Person – Self-Employment Vs.

Entrepreneurship – Ethical Principles for Self-Employment. (6 Hours)

UNIT II

Selection of Types of Organisation: Sole Proprietorship – Partnership Firm – Limited Liability Partnership – Joint Stock Company – Choice of form of Organisation.

(6 Hours)

UNIT III

Start-up of MSME: Meaning – Definition – Documents required for MSME registration – Procedure to start MSME for Small Scale Business – Project Preparation. (6 Hours)

UNIT IV

Agency Business: Meaning – Types – Procedure to Start an Agency Business – Procedure to Start Digital Agency Business in India. (6 Hours)

UNIT V

Financial Institutions: Supporting Institutions for Small Scale Industries in Tamil Nadu – DIC - TIIC – SIDBI (6 Hours)

SELF STUDY FOR ASSIGNMENT

1. Prospects and Challenges of Small Scale Business in India
2. Scope and Opportunities to Become Women Entrepreneurs

TEXT BOOK

Study material prepared by Course Designer

REFERENCE BOOKS

1. Gupta,C.B., &Srinivasan,N.P., *Entrepreneurial Development*, New Delhi, Sultan Chand &Sons,Revised Edition, 2020.
2. Rengarajan, L.,(2008) *Entrepreneurial Development*, Rajapalayam, Sree Renga Publications

Course Code 23UCCN11	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
CO1	3	2	1	2	2	-	-
CO2	3	1	1	-	1	-	-
CO3	3	2	1	2	1	-	-
CO4	3	1	1	3	1	-	-
CO5	3	1	1	1	2	-	-

Strong - 3

Medium – 2

Low – 1

Dr. M. Ponnien Selvi
Head of the Department

Dr.P.Sridevi
Dr.K.Nivetha
Course Designers



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VIRUDHUNAGAR - 626 001

B.Com. (Computer Applications)

(2023 - 24 onwards)

Semester II	BASIC ACCOUNTING PRINCIPLES	Hours/Week: 2	
NME - 2		Credits: 2	
Course Code 23UCON21		Internal 25	External 75

COURSE OUTCOMES

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

CO1: state the classification of accounts and accounting terminology. [K1]

CO2: mention the rules and procedure in accounting. [K1]

CO3: apply the rules for journalising and balancing the accounts. [K2]

CO4: prepare the trial balance and final accounts. [K2]

CO5: integrate the trial balance and balance sheet. [K3]

UNIT I

Introduction: Book Keeping –Accounting–Single Entry System - Double Entry System – Classification of Accounts. Accounting Standards: Meaning – Definition – Significance.
(5 Hours)

UNIT II

Journal Entry: Rules for Journalising – Passing of Journal Entries. (5 Hours)

UNIT III

Ledger: Purpose – Posting in the Ledger – Balancing an Account. (5 Hours)

UNIT IV

Trial Balance: Preparation of Trial Balance. (5 Hours)

UNIT V

Final Accounts: Preparation of Trading Account – Preparation of Profit and Loss – Preparation of Balance Sheet (Problems with adjustments related to closing stock only).
(10 Hours)

Note:**Composition of the Question Paper:****Theory : 20%****Problems : 80%****SELF STUDY:**

1. Distinction between Book keeping and Accounting.
2. Preparation of Journal Entries, Ledger Accounts, Trial Balance and Final Accounts with the given five maximum transactions.

TEXT BOOK

1. Nagarajan, K.L., Vinayagam, N., & Mani, P.L. (2013). *Principles of Accountancy*, New Delhi: Eurasia Publishing House Pvt. Ltd. Reprint.

REFERENCE BOOKS

1. Reddy, T.S., & Murthy. A. (2011). *Financial Accounting*, Chennai: Margham Publications, 6th Revised Edition, Reprint 2018.
2. Arulanandam, M.A., & Raman, K.S. (2014). *Advanced Accountancy*, Mumbai:Himalaya Publishing House, 9th Revised Edition, Reprint 2022.

WEB RESOURCES

- 1 <https://www.slideshare.net/ramusakha/basics-of-financial-accounting>
- 2 https://www.icai.org/post.html?post_id=17882
- 3 <https://in.indeed.com/career-advice/career-development/what-is-a-trial-balance>

Course Code 23UCON21	PO 1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	3	3	-	-	-	-	-
CO2	3	3	-	-	-	-	1
CO3	3	3	1	1	-	-	1
CO4	3	3	1	1	-	-	1
CO5	3	3	1	1	-	1	1

Strong - 3Dr.M.PonnienSelvi
Head of the Department**Medium – 2****Low – 1**Dr. M.Annam
Course Designer



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B.Com. (Computer Applications)(SF)

(2023– 2024 onwards)

Semester II	FUNDAMENTALS OF MARKETING	Hours/Week: 2	
NME – 2		Credits: 2	
Course Code 23UCCN21		Internal 25	External 75

COURSE OUTCOMES

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

CO1: state basic concepts related to market, marketing and social media marketing [K1]

CO2: describe the classifications, importance, characteristics of to market, marketing and social media marketing. [K1]

CO3: interpret the characteristics of market, marketing and social media marketing.[K2]

CO4: explain the marketing strategies for new product with ethical principles. [K2]

CO5: apply the marketing strategies for new product in social media marketing [K3]

UNIT I

Market: Meaning – Definition – Classification of Market – Marketing – Meaning – Definition — Objectives – Importance – Marketing Mix – Elements of Marketing Mix. (6 Hours)

UNIT II

Product: Introduction and Important features of product - Product Life Cycle – Different Stages – Advantages of Product Life Cycle – New product development planning process. Pricing: Meaning - Importance – Objectives – Kinds of Pricing (6 Hours)

UNIT III

Promotion: Meaning – Importance – Objectives – Forms of Promotion – Sales promotion – Objectives– Advantages – Limitations of Sales promotion. (6 Hours)

UNIT IV

Channels of Distribution: Meaning – Definition – Importance – Factors determining choice of channel of distribution–Consumer Goods – Characteristics – Classification – Marketing Channel for Consumer Goods – Industrial Goods - Characteristics – Classification – Marketing Channel of Industrial Goods.

(6 Hours)

UNIT V

Social Media Marketing: Importance – Goals and Strategies – Advantages and Disadvantages – Security Measures – Ethics – Determine Common Social Media Pitfalls to Avoid – Tips to Use Social Media Marketing Tools: Twitter – LinkedIn – Snapchat – YouTube –Pinterest – Instagram.

(6 Hours)

SELF STUDY FOR ASSIGNMENT

1. Selection of Channel of Distribution for Given Product
2. Selection of Social Media for Given Product

TEXT BOOK

Study material prepared by Course Designer

REFERENCE BOOKS

1. Pillai, R.S.N & Bagavathi, (2016) *Marketing Management*, New Delhi, New Delhi S.Chand & Company Ltd.`
2. Varshney, R.L. & Gupta, S.L.,(2016) New Delhi S.Chand & Company Ltd.

Course Code 23UCCN21	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	3	3	-	-	2	-	-
CO2	3	3	-	-	2	-	-
CO3	3	3	-	-	2	-	2
CO4	3	3	2	1	2	-	-
CO5	3	3	2	1	2	1	-

Dr.M.PonnienSelvi
Head of the Department

Dr. P.T.Kanthimathi
Dr. B.Suganya
Course Designers



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VIRUDHUNAGAR - 626 001

B.Com. Professional Accounting

(2023-2024 onwards)

Semester I	WOMEN PROTECTION LAWS	Hours/Week: 2	
NME - 1		Credits: 2	
Course Code 23UCPN11		Internal 25	External 75

COURSE OUTCOMES

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

- CO1 : state the basic concepts of women protection in The Hindu Succession Act, 1956, The Protection of Women from Domestic Violence Act, 2005, The Maternity Benefit (Amendment) Act 2017, The Indecent Representation of Women (Prohibition) Act, 1986 , The Sexual Harassment of Women at Workplace (Prevention, Prohibition And Redressal) Act, 2013, Married Women Rights in India, The Dowry Prohibition Act, 1961 [K1]
- CO2 : highlight the eligibility and applicability of Women Protection Acts[K1]
- CO3 : describe the features and powers of protection officers and Government [K2]
- CO4 : explain the provisions of women protection acts in complaint process [K2]
- CO5 : Apply the provisions of women protection acts by knowing offences, penalty and punishment [K3]

UNIT-I

The Hindu Succession Act 1956: Applications of Act – The Hindu Succession Amendment Act 2005 – Legal Heirs of Women – Rights of Women under Hindu Succession Act 2015.

The Maternity Benefit (Amendment) Act 2017: Applicability – Eligibility –Purposes of Providing Maternity Leave – Features of Maternity Benefit Amendment Act 2017 –Significance of TheMaternity Benefit Amendment Act 2017. (6 Hours)

UNIT II

The Protection of Women from Domestic Violence Act, 2005: Definition of Domestic Violence – Objectives of the Domestic Violence Act, 2005 – Rights of Aggrieved Person – Essential Provisions of the Domestic Violence Act, 2005 – Appointment of Protection Officers – Powers and Functions of Protection Officers – Powers and Functions of Service Providers – Duties and Functions of Police Officers and Magistrate – Shelter Homes – Medical Facilities – Duties of Providers of Shelter Homes and Medical Facilities – Duties of the Government – Application to the Magistrate – Monetary Reliefs –Custody orders –Protection orders –Residence order- Jurisdiction and procedure. (6 Hours)

UNIT-III

The Indecent Representation of Women (Prohibition) Act, 1986 :Definition of Indecent Representation – Preamble of the Act – Salient features of the Act – Section 2 to Section 10 – Prohibitions under The Indecent Representation of Women (Prohibition) Act, 1986 – Penalty – Offences by Companies – Offences to be Cognizable and Bailable– Power to make Rules. (6 Hours)

UNIT-IV

The Sexual Harassment of Women at Workplace (Prevention, Prohibition And Redressal) Act, 2013 : Definition of Sexual Harassment – The Prohibition of Sexual Harassment of Women at Workplace Act, 2013: Constitution of Internal Complaints Committee and Local Complaints Committee – Complaint under Sexual Harassment –Manner of Enquiry into Complaint - Inquiry Report - The Complaint Process – Duties of Employer – Duties of District Officer – Penalty for Non-Compliance with the provisions of the POSH Act. (6 Hours)

UNIT-V

Married Women Rights in India: Marriage –Laws for Married Women's Rights in India
–Multiple Roles of Women.

The Dowry Prohibition Act, 1961: Definition of Dowry –The Dowry Prohibition (Maintenance of Lists of Presents to the Bride and Bridegroom) Rules, 1985 – Powers of Dowry Prohibition Officers –Offences to be Cognizable-Burden of Proof in Certain Cases – Penalty for giving or taking Dowry. (6 Hours)

SELF STUDY FOR ASSIGNMENT

1. Case laws related to Women Protection
2. Recent Amendments for Women Protection

TEXT BOOK

Study Material Prepared by the Course Teacher

REFERENCE BOOKS

1. Das.P.K.(2011). *Protection of Women from Domestic Violence*. New Delhi: Universal Law Publishing Company Private Ltd, Fourth Edition

2. Paras Diwan, Peeyushi Diwan (2016). *Modern Hindu Law (Codified and Uncodified)*, Haryana: Allahabad Hindu Agency, Ninth Edition.

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

Course Code 23UCPN11	PO1		PO2	PO3		PO4		PO5	PO6	PO7
	PSO 1.a	PSO 1.b	PSO 2	PSO 3.a	PSO 3.b	PSO 4.a	PSO 4.b	PSO 5	PSO 6	PSO 7
	CO1	2	3	1	2	3	2	3	3	2
CO2	2	3	1	2	3	2	3	3	2	1
CO3	3	3	1	1	3	3	3	3	3	1
CO4	3	3	1	1	3	3	3	3	3	1
CO5	3	3	1	1	3	3	3	3	3	1

Dr. CMA.A.ArunaDevi
Head of the Department

Dr.G.Balasaraswathi
Course Designer



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VIRUDHUNAGAR - 626 001

B.Com. Professional Accounting

(2023-2024 onwards)

Semester II	BASIC LABOUR LAWS	Hours/Week: 2	
NME -2		Credits: 2	
Course Code 23UCPN21		Internal 25	External 75

COURSE OUTCOMES

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

- CO1 : state the basic concepts relating to labour laws. [K1]
- CO2 : outline the essential elements, Contribution, applicability and non- applicability of various Acts. [K1]
- CO3 : describe the features and purposes of various Acts. [K2]
- CO4 : explain the provisions relating to Factories Act, Employees Provident Fund Act, Employee State Insurance Act and Minimum Wages Act. [K2]
- CO5 : apply the provisions of labour laws in real life situations.[K3]

UNIT- I

Factories Act, 1948: Introduction – Important Definitions – Welfare Measures: Health – Safety – Welfare – Working hours – Employment of young persons – Annual leave with wages
(6 Hours)

UNIT- II

Employees Provident Fund and Miscellaneous Provisions Act, 1952: Introduction – Schemes – Applicability – Non-Applicability –Employees' Provident Fund Scheme–Employees' Pension Scheme–Employees' Deposit Linked Insurance Scheme– Contributions.
(6 Hours)

UNIT- III

Employees State Insurance Act, 1948: Introduction – Object – Applicability – Important Definitions – Employees’ State Insurance Incorporation – Employees’ State Insurance Fund – Purposes – Contributions – Benefits.

(6 Hours)

UNIT-IV

Minimum Wages Act, 1948: Introduction – Object – Applicability – Important Definitions – Fixing of Minimum Rate of Wages – Overtime – Night Shift – Claims.

(6 Hours)

UNIT-V

Payment of Gratuity Act, 1972 : Introduction – Objective – Important Definitions – Payment of Gratuity – Forfeiture of Gratuity – Amount and Application of Gratuity – Mode of Payment – Recovery of Gratuity.

(6 Hours)

SELF STUDY FOR ASSIGNMENT

1. Penalties for Contravention of Provisions of Factories Act
2. Provisions of Maternity Benefits Act, 2017

TEXT BOOK

Study Material Prepared by the Course Teacher.

REFERENCE BOOKS

Srivastava, S.C. (2020). *Industrial Relations and Labour Laws*, Vikas Publishing House Pvt Ltd., New Delhi.

WEB RESOURCE

<https://icmai.in/upload/Students/Syllabus2016/Inter/Paper-6-Feb-2022.pdf>

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

Course Code 23UCPN21	PO1		PO2	PO3		PO4		PO5	PO6	PO7
	PSO 1.a	PSO 1.b	PSO 2	PSO 3.a	PSO 3.b	PSO 4.a	PSO 4.b	PSO 5	PSO 6	PSO 7
	CO1	3	2	2	3	2	3	1	3	1
CO2	3	2	2	3	2	3	1	3	1	3
CO3	3	2	2	3	2	3	2	3	2	3
CO4	3	2	2	3	2	3	2	3	2	3
CO5	3	2	2	3	2	3	2	3	2	3

Strong – 3

Medium – 2

Low – 1

Dr. A. Aruna Devi
Head of the Department

Dr. D.Jeya Priya
Course Designer



V.V.VANNIAPERUMAL COLLEGE FOR WOMEN

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VIRUDHUNAGAR - 626 001

B.B.A.

(2023-24 onwards)

Semester 1	BASICS OF EVENT MANAGEMENT	Hours/Week: 2	
NME- 1		Credits: 2	
Course Code 23UBAN11		Internal 25	External 75

On completion of this course, students will;

CO1: define the basics of event management. [K1]

CO2: recall the concepts related to planning, coordination, resource allocation, promotion and budgeting in event management . [K1]

CO3: describe the activities involved in event management and the steps in planning ,developing and evaluating the event concept. [K2]

CO4:understand about the importance of concept and design resources, feasibility, marketing and promotion and budgeting in event management[K2]

CO5: prepare a list of requisites in detail to conduct an event and to discover the need for SWOT Analysis and Financial Analysis for an event.[K3]

UNIT I

Introduction: Event Management – Definition – Need - Importance- Types - Benefits of Events. (6 Hours)

UNIT II

Concept and Design of Events: Event Management Functions - Event Co-ordination - Developing & Evaluating event concept – Event Design. (6 Hours)

UNIT III

Event Feasibility:Resources – Feasibility - SWOT Analysis. (6 Hours)

UNIT IV

Event Planning & Promotion :Marketing & Promotion Tools – 5Ps of Event Marketing – Product – Price - Place - Promotion - Public Relations. (6 Hours)

UNIT V

Event Budget:Finance & Budgets Management– Event Cost – Event Sponsorship. (6 Hours)

SELF STUDY

- 1.SWOT analysis of an event
2. Planning and promotion of an event

TEXT BOOKS

1.Razaq Raj,Paul Walters and Tahir Rashid (2013).*Event management an integrated & practical approach*: SAGE Publications Ltd, 2nd Edition.

REFERENCE BOOKS

- 1.Chaudhary, Krishna.(2023).*Event Management*:Bio-Green Publishers,1stEdition.
2. Anton Shone & Bryn Parry.(2019). *Successful Event Management* :Cengage Learning EMEA Publishers,5thEdition.
3. Judy Allen.(2003).*Event Planning Ethics and Etiquette: A Principled Approach to the Business of Special Event Management*:John Wiley & Sons Publishers.
4. Alex Genadinik.(2015).*Become an Event Planning Pro & Create a Successful Event Series* : Create Space Independent Publishing Platform

Course Code	PO1		PO2		PO 3	PO4	PO 5	PO 6		PO 7
	PSO	PSO	PSO	PSO	PSO	PSO	PSO	PSO	PSO	PSO
23UBAN11	1. a	1. b	2. a	2. b	3	4	5	6.a.	6.b.	7
CO1	2	1	2	1	1	1	1	1	2	1
CO2	2	2	2	2	2	1	1	2	2	1
CO3	2	3	3	3	2	1	1	1	1	1
CO4	2	3	3	2	2	1	1	1	1	1
CO5	2	2	3	2	2	1	2	2	2	1

Dr.P.Suganthi
Head of the Department

Mrs.A.Ajitha
Course Designer



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VIRUDHUNAGAR - 626 001

B.B.A.

(2023-24 onwards)

Semester II	BUSINESS MANAGEMENT	Hours/Week: 2	
NME - 2		Credits: 2	
Course Code 20UBAN21		Internal 25	External 75

COURSE OUTCOMES

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

CO1: Identify the areas in application of management concepts [K1]

CO2: describe the concepts of management [K1]

CO3: classify the managerial functions at various levels of management [K2]

CO4: explain the importance of various functions in management [K2]

CO5: use the management concepts in managerial decision making [K3]

UNIT I

Management: Meaning and Definition – Levels of management – Management as Science – Management as an Art – Management as a Profession – Functions of Management.

(6 Hours)

UNIT II

Planning: Importance of Planning – Steps in Planning – Formal Vs Informal Planning – Limitations of Planning – Steps to Make Planning Effective.

(6 Hours)

UNIT III

Organizing: Meaning and Definition - Organizational Structure – Different Types - Span of Control – Factors Governing the Span of Control.

(6 Hours)

UNIT IV

Leadership: Meaning And Definition – Types of Leadership and Qualities Required for Good Leader - Decision Making – Meaning – Types of Decision. (6 Hours)

UNIT V

Communication: Meaning and Definition - Process of Communication - Barriers of Communication and Methods for Overcoming the Barriers. (6 Hours)

SELF STUDY FOR ASSIGNMENT

1. Qualities of leader.
2. Types of communication.

TEXT BOOK

1. Kumkum Mukherjee (2009). *Principles of Management*, Tata Mc Graw Hill Education Private Limited,

REFERENCE BOOKS

1. Jayasankar, J. (2015). *Principles of Management*, Chennai: Margham Publications, 2nd Edition.
2. Prasad, L.M. (2015). *Principles and Practice of Management*, New Delhi: Sultan Chand & Sons, 9th Edition.

Course Code 20UBAN21	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	2	-	3	-	3	3
CO 2	3	3	1	2	-	2	3
CO 3	3	2	2	2	1	2	3
CO 4	3	2	-	-	1	2	3
CO 5	3	1	3	2	-	1	3

Dr.P.Suganthi
Head of the Department

Mrs.A.Ajitha
Course Designer



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VIRUDHUNAGAR - 626 001

B.Sc. MATHEMATICS

(2023-24 onwards)

Semester I	QUANTITATIVE APTITUDE I	Hours/Week: 2	
NME -1		Credits: 2	
Course Code 23UMTN11		Internal 25	External 75

Course Outcomes:

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

CO1: recall the basic formulae in Mathematics. [K1]

CO2: recognize the applications of Mathematics in real life. [K1]

CO3: describe short-cut methods in solving problems. [K2]

CO4: identify solutions to various arithmetic problems using short cut methods. [K2]

CO5: apply their analytical ability and computational skills in solving the problems. [K3]

UNIT I

Simplifications - Averages (6 hours)

UNIT II

Problem on Numbers (6 hours)

UNIT III

Percentage (6 hours)

UNIT IV

Profit and Loss (6 hours)

UNIT V

Time and Work

(6 hours)

TEXT BOOK

Aggarwal, R.S. (7th Fully Revised Edition 2014). *Quantitative Aptitude*, S.Chand & Company Ltd.

Unit	Chapter	Section
	Section I Arithmetical Ability	
I	4,6	Examples only
II	7	Examples, Exercise (1 – 15)
III	10	Examples, Exercise (1 – 15)
IV	11	Examples only
V	15	Examples , Exercise (1 – 15)

REFERENCE BOOKS

1. U. Mohan Rao, Quantitative Aptitude for Competitive Examinations, Scitech Publications, 2016.
2. Dr. M. Manoharan, Dr. C. Elango and Prof K. L. Eswaran, Business Mathematics, Palani paramount Publications, Reprint 2013

Course Code 23UMTN11	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	3	2	3	3	1	-	-
CO2	3	2	2	3	1	-	-
CO3	3	1	3	3	1	-	-
CO4	3	2	3	3	1	-	-
CO5	3	2	3	3	2	-	-

Dr.A.Uma Devi
Head of the Department

Dr.P.Geetha
Course Designer



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VIRUDHUNAGAR - 626 001

B.Sc. MATHEMATICS

(2023-24 onwards)

Semester II	QUANTITATIVE APTITUDE II	Hours/Week: 2	
NME - 2		Credits: 2	
Course Code 23UMTN21		Internal 25	External 75

COURSE OUTCOMES

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

CO1: retrieve the basic concepts in arithmetic problems. [K1]

CO2: understand the application of Mathematics in real life. [K1]

CO3: explain the various techniques involved in aptitude problems. [K2]

CO4: explain the shortcut methods of finding solutions to problems. [K2]

CO5: apply their analytical ability and computational skills in solving problems. [K3]

Unit I

Problem on Ages (6 hours)

Unit II

Ratio and Proportion (6 hours)

Unit III

Simple Interest (6 hours)

Unit IV

Calendar (6 hours)

Unit V

Permutations and Combinations (6 hours)

TEXT BOOK

Aggarwal, R.S. (7th Fully Revised Edition 2014). *Quantitative Aptitude*, S. Chand & Company Ltd.

REFERENCE BOOKS

1. Abhijit Guha-(6th reprint 2006) *Quantitative Aptitude for Competitive Examinations*-3rd edition, Tata McGraw Hill Publishing Company Ltd., New Delhi.
2. Ashish Aggarwal-(2014) *Quick Arithmetic*-1st edition, S.Chand & Company Ltd., New Delhi.

Unit	Chapter	Section
	Section I Arithmetical Ability	
I	8	Examples, Exercise (1 – 20)
II	12	Examples, Exercise (1 – 30)
III	21	Examples, Exercise (1 – 20)
IV	27	Full
V	30	Full

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
23UMTN21								
CO1	3	2	3	3	1	-	-	-
CO2	3	2	2	3	1	-	-	-
CO3	3	1	3	3	1	-	-	-
CO4	3	2	3	3	1	-	-	-
CO5	3	2	3	3	2	-	-	-

Dr.A.Uma Devi
Head of the Department

Ms.N.Malathi
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VIRUDHUNAGAR - 626 001

B.Sc. PHYSICS

(2023 -2024 onwards)

Semester I	PHYSICS FOR EVERYDAY LIFE - I	Hours/Week: 2	
NME - 1		Credits: 2	
Course Code 23UPHN11		Internal 25	External 75

COURSE OUTCOMES

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

CO1: identify the Physics principles behind mechanical, optical devices, and home appliances. [K1]

CO 2: recognize the Physics concepts involved in conventional and solar energy resources. [K1]

CO 3: describe the construction and working of mechanical objects, optical instruments, and home appliances. [K2]

CO 4: explain the merits & demerits of conventional energy resources and operation of solar energy gadgets. [K2]

CO 5: apply the learned concepts in Physics to elucidate the operation of everyday life objects. [K3]

UNIT I

MECHANICAL OBJECTS

Spring scales – bouncing balls – roller coasters – bicycles – rockets and space travel.

(6 Hours)

UNIT II

OPTICAL INSTRUMENTS AND LASER

Vision corrective lenses – polaroid glasses – UV protective glass – polaroid camera – colour photography – holography and laser.

(6 Hours)

UNIT III

PHYSICS OF HOME APPLIANCES

Bulb – fan – hair drier – television – washing machine – geyser - water purifier – vacuum cleaners.

(6 Hours)

UNIT IV

CONVENTIONAL ENERGY SOURCES

Conventional sources of energy – fossil fuels - merits, demerits and applications of coal - merits, demerits and applications of oil - merits, demerits and applications of natural gas - nuclear energy: its merits and demerits.

(6 Hours)

UNIT V

SOLAR ENERGY

Solar constant – general applications of solar energy – solar water heaters – solar photovoltaic cells – general applications of solar cells.

(6 Hours)

TEXT BOOKS

1. Umme Ammara, (2019). *The Physics in our Daily Lives*, Gugucol Publishing, Hyderabad.
2. Walter Lawin, (2011). *For the love of physics*, Free Press, New York.
3. Jose Robin, G. and Ubald Raj, A., (2014). *Energy Physics*, Indira Publication, Marthandam.

REFERENCE BOOKS

1. Gupta, A.B., (2011). Revised edition. *College Physics* (Volume 1), Calcutta: Books and Allied Pvt. Ltd.
2. Jose Robin, G., and Ubald Raj, A., (2016). *Maintenance of Electrical Equipment*, Marthandam: Indira Publication.
3. Khan, B.H. (2009). *Non – Conventional Energy Resources*, Third Reprint. New Delhi: Tata McGraw-Hill Education Private Limited.

Course Code 23UPHN11	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	1	1	1	2	1	1
CO 2	3	2	2	1	1	-	-
CO 3	3	2	2	2	1	-	-
CO 4	3	2	3	2	2	-	-
CO 5	3	2	2	2	2	2	-

Strong (3) Medium (2) Low (1)

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Dr.I.Rathinamala
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VIRUDHUNAGAR - 626 001

B.Sc. PHYSICS

(2023 -2024 onwards)

Semester I	PHYSICS FOR EVERYDAY LIFE - II	Hours/Week: 2	
NME-2		Credits: 2	
Course Code 23UPHN21		Internal 25	External 75

COURSE OUTCOMES

- CO1: explain the Physics principles of general appliances used in our daily life. [K1]
- CO 2: recognize the Physics concepts involved in kitchen & medical gadgets and also identify the Indian scientists who have made significant contributions to Physics. [K1]
- CO 3: describe the construction and working of general appliances, kitchen and medical gadgets. [K2]
- CO 4: discuss the operation of office gadgets and the development in Science and Technology through the contribution of Indian Scientists. [K2]
- CO 5: apply the learned concepts in Physics to elucidate the operation of everyday life objects. [K3]

UNIT I

General Appliances:

DC - AC – Starter - Choke coil - Fuse – Electric motor – Electric generator - Transformer.

(6 Hours)

UNIT II

Kitchen Gadgets:

Pressure cooker - Microwave oven - Toaster - Mixer grinder - Grinder - Refrigerator.

(6 Hours)

UNIT III

Medical Gadgets:

Clinical thermometer – Pulse oxymeter – Heart beat monitor – Blood glucose monitor – Blood pressure monitor - Pedometers and Weighing scale. (6 Hours)

UNIT IV

Office:

Fax machine – Laser printer - Photocopier - Inverter - Air conditioner. (6 Hours)

UNIT V

Indian Physicist and their Contributions:

C.V.Raman, Homi Jehangir Bhabha, Vikram Sarabhai, Subrahmanyam Chandrasekhar, Dr. APJ Abdul Kalam, and their contribution to science and technology

(6 Hours)

TEXT BOOKS

Material - Prepared by the Department of Physics

REFERENCE BOOKS

1. Jose Robin, G. & Ubald Raj, A. (2016). *Maintenance of Electrical Equipment*, Marthandam: Indira Publication.

Course Code 23UPHN21	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	1	1	1	2	1	1
CO 2	3	2	2	1	1	-	-
CO 3	3	2	2	2	1	-	-
CO 4	3	2	3	2	2	-	-
CO 5	3	2	2	2	2	2	-

Strong (3) Medium (2) Low (1)

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VIRUDHUNAGAR - 626 001

B.Sc. CHEMISTRY

(2023 -2024 onwards)

Semester I	FOOD CHEMISTRY	Hours/Week: 2	
NME-1		Credits: 2	
CourseCode		Internal	External
23UCHN11		25	75

COURSE OUTCOME

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

- CO1** : get an awareness about food adulteration and food poisons [K1].
- CO2** : outline about various food additives, beverages and edible oils [K1]
- CO3** : understand the food adulteration methods and the types of food poisons[K2]
- CO4** : get an exposure on food additives, artificial sweeteners, types of beverages and quality parameters of edible oils.[K2]
- CO5** : apply their knowledge to identify food adulterants, food poisons, analyse the advantage and disadvantage of food additives, prevent liver and social problems due to beverages and to determine iodine value, RM value, saponification values in edible oils. [K3]

UNIT I

Food Adulteration

Sources of food, types, advantages and disadvantages. Food adulteration - contamination of wheat, rice, milk, butter etc. with clay stones, water and toxic chemicals -Common adulterants, Ghee adulterants and their detection. Detection of adulterated foods by simple analytical techniques **(6 Hours)**

UNIT-II

Food Poison

Food poisons - natural poisons (alkaloids - nephrotoxin) - pesticides, (DDT, BHC, Malathion) -Chemical poisons - First aid for poison consumed victims

(6 Hours)

UNIT-III

Food Additives

Food additives -artificial sweeteners – Saccharin - Cyclamate and Aspartate Food flavours -esters, aldehydes and heterocyclic compounds – Food colours– Emulsifying agents – preservatives -leavening agents. Baking powder – yeast – taste makers – MSG - vinegar.

(6 Hours)

UNIT-IV

Beverages

Beverages-soft drinks-soda-fruit juices-alcoholic beverages-examples. Carbonation- addiction to alcohol– diseases of liver and social problems.

(6 Hours)

UNIT-V

Edible Oils

Fats and oils - Sources of oils - production of refined vegetable oils - preservation. Saturated and unsaturated fats - iodine value - role of MUFA and PUFA in preventing heart diseases-determination of iodine value, RM value, saponification values and their significance.

(6 Hours)

Text Books

1. Food chemistry, H. K. Chopra, P. S. Panesar, Narosa publishing house,2010.

2. Jayashree Ghosh, Fundamental Concepts of Applied Chemistry, S. ChandCo. Publishers, second edition, 2006.
3. Food chemistry, H. K. Chopra, P. S. Panesar, Narosa publishing house, 2010.
4. Food Chemistry, Dr. L. Rakesh Sharma, Evincepub publishing, 2022.
5. Food processing and preservation, G. Subbulakshmi, Shobha A Udipi, Padmini S Ghugre, New age international publishers, second edition, 2021.

Reference Books

1. H.-D. Belitz, Werner Grosch, Food Chemistry Springer Science & Business Media, 4th Edition, 2009.
2. M. Swaminathan, Food Science and Experimental Foods, Ganesh and Company, 1979.
3. Hasenhuettl, Gerard. L.; Hartel, Richard. W. Food Emulsifiers and their applications Springer New York 2nd ed. 2008.
4. Food Chemistry, H.-D. Belitz, W. Grosch, P. Schieberle, Springer, fourth revised and extended edition, 2009.
5. Principles of food chemistry, John M. deMan, John W. Finley, W. Jefferey Hurst, Chang Yong Lee, Springer, Fourth edition, 2018.

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7
23UCHN11							
CO1	2	2	1	2	1	2	2
CO2	2	1	1	2	2	1	2
CO3	1	2	2	1	2	1	1
CO4	1	1	1	-	1	1	1
CO5	1	1	1	1	1	1	1

Dr.M.Dhanalakshmi
Heads of the Department

Dr.M.Amutha
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VIRUDHUNAGAR - 626 001

B.Sc. CHEMISTRY (2023 -24 onwards)

Semester II	DRUGS AND NATURAL PRODUCTS	Hours/Week: 2	
NME -2		Credits: 2	
Course Code 23UCHN21		Internal 25	External 75

COURSE OUTCOMES

On completion of the course, the students shall be able to

CO1: define the various drug terminologies, antibiotics, chemotherapy agents, vitamins, hormones and natural products. [K1]

CO2: know the drugs studies, antibiotics, chemotherapeutic agents, vitamins, hormones and natural products. [K1]

CO3: understand the pharmaceutical terminologies, antibiotics drug action and effects, types of therapeutic agents, effects and uses of vitamins, hormones and natural products. [K2]

CO4: discuss the pharmaceutical terms, activity and effects of bacterial inflectional drugs, action of different therapeutic agents, biological importance and deficiency of vitamins and hormones, medicinal significance of terpenoids and alkaloids. [K2]

CO5: predict the drug terminologies, drug activity and effects of antibiotics nature and types of therapeutic agents, effects and importance of vitamins and steroids, medicinal uses of natural products. [K3]

UNIT I

Importance of Drugs –terminologies – Pharmacy – Pharmacology – Pharmacodynamics – Pharmacokinetics – Molecular Pharmacology – Pharmacophore – antimetabolites – actinomycetes - Bacteria, Virus, fungi –mutation. (6 Hours)

UNIT II

Antibiotics – Definition-classification-uses of Ampicillin, streptomycin, Erythromycin, tetracycline, rifomycin (structure not necessary) – drug action and side effects.

(6 Hours)

UNIT III

Chemotherapy-introduction-classification-Definition and examples of Antipyretics-Analgesics - Anti-inflammatory agents - Sulpha drugs-Antimalarials-Antiseptics(structure not necessary)

(6 Hours)

UNIT IV

Vitamin – Classification – Sources and deficiency of various vitamins.(structure not necessary)

Steroids – Classification- biological importance of Male sex hormone, Female sex hormone. (structure not necessary)

(6Hours)

UNIT V

Terpenoids: Definition – classification – occurrence – uses of citral, geraniol, limonene, menthol and zingiberene.(structure not necessary)

Alkaloids: Definition – classification - occurrence – medicinal uses of quinine, atropine, morphine,nicotine and papavarine.(structure not necessary)

(6 Hours)

TEXT BOOKS

1. Jayashree Ghosh, (2012). *A Text Book of Pharmaceutical Chemistry*, 1st Edition. New Delhi: S.Chand & Company Ltd.
2. Jain, M.K. & Sharma, S.C. (2016). *Modern Organic Chemistry*, 1st Edition. New Delhi: Vishal Publishing Co.

Course Code	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7
23UCHN21							
CO 1	2	2	1	1	2	2	1
CO 2	1	1	2	2	1	1	2
CO 3	2	2	1	1	1	2	1
CO 4	2	1	1	1	-	1	1
CO 5	1	1	1	-	1	1	2

Dr.M.Dhanalakshmi
Head of the Department

Dr. C. Vidya Rani
Course Designer



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VIRUDHUNAGAR - 626 001

B.Sc. Zoology

(2023-2024 onwards)

Semester I	ORNAMENTAL FISH FARMING & MANAGEMENT	Hours/Week: 2	
NME- I		Credits: 2	
Course Code		Internal	External
23UZYN11		25	75

Course Outcome:

The students will be able to

CO1: recall the names of commercially important ornamental fishes. [K1]

CO2: understand the culture methods of ornamental fishes. [K2]

CO3: select the advanced techniques used in aquaculture and fisheries to increase the rate of production. [K2]

CO4: develop the ability to guide layman individual in his/her difficulties during the construction as well as to run a fish farm successfully. [K3]

CO5: make use of their skills to promote self employment. [K3]

Unit I:

Introduction to ornamental fish keeping. Scope and importance of ornamental fish culture. Domestic and global scenario of ornamental fish trade and export potential. Commercially important ornamental fishes –Gold fish, Siamese fighter fish, Black molly and angel fish .

(6 hours)

Unit II:

Food and feeding in ornamental fishes. Fish feed – Brief account on Artemia and its culture. Artificial feed - Composition.) Breeding, hatchery and nursery management of egg layers (eg. Goldfish) and live bearers (eg Black molly).

(6 hours)

Unit III:

Aquarium design and construction; Accessories - aerators, filters and lighting. Aquarium plants and their propagation. Maintenance of aquarium and water quality management. Ornamental fish

diseases- white spot disease and Gill rot disease- prevention, control and treatment methods.

(6 hours)

Unit IV

Conditioning, packing, transport and quarantine methods. Economics, trade regulations, domestic and export marketing strategies. (6 hours)

Unit- V

1) Identification of locally available ornamental fishes - Egg layers and live bearers.

2) Identification of locally available live feed. (6 hours)

REFERENCE BOOKS

1. Swain SK., Sarangi N. and Ayyappan S. 2010. Ornamental fish farming. ICAR, New Delhi.
2. Living Jewels – A handbook on freshwater ornamental fish, MPEDA, Kochi.
3. Dey V.K.A. 1997. A handbook on aquafarming ornamental fishes. MPEDA, Kochi.
4. Ahilan, B., Felix N. and Santhanam R. 2008. Text book of aquaculture. Daya Publishing House, New Delhi.

WEBSITE REFERENCES

1. <http://ecoursesonline.iasri.res.in/course/view.php?id=297>
2. <https://www.ofish.org/>
3. <https://krishijagran.com/agripedia/income-generation-by-ornamental-fish-culture/>
4. <https://99businessideas.com/ornamental-fish-farming/>

Mapping Table

CO/PO Course Code 23UZYN11	PO1		PO2	PO3		PO4		PO5	PO6	PO7
CO 1	3	3	2	3	2	2	3	2	3	3
CO 2	3	3	2	2	2	3	3	.	3	3
CO 3	3	2	2	2	2	1	2	-	2	3
CO 4	3	2	1	1	3	-	2	1	2	3
CO 5	2	3	1	3	3	2	2	1	3	2

Strong (3) Medium (2) Low (1)

Dr. J. Rani
Head of the Department

Dr. P. Vijaya
Course Designer



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VIRUDHUNAGAR - 626 001

B.Sc. Zoology

(2023-2024 onwards)

Semester II	BIOCOMPOSTING FOR ENTREPRENEURSHIP	Hours/Week: 2	
NME-2		Credits: 2	
Course Code 23UZYN21		Internal 25	External 75

Course outcomes:

The students will able to

CO1: define the process of Biocomposting and its importance. [K1]

CO2: outline the various applications of Biocomposting. [K1]

CO3: describe about the Biocompost units. [K2]

CO4: explain the methods and requirements to construct a Biocomposting unit. [K2]

CO5: apply their skills in making “clean and green” and sustainable environment.[K3]

Unit I

Biocomposting – Definition, types and ecological importance. (6 Hours)

Unit II

Types of Biocomposting technology – Field pits/ground heaps/ tank/large-scale/batch and continuous methods. (6 Hours)

Unit III

Preparation of Biocompost pit and bed using different amendments. (6 Hours)

Unit IV

Applications of Biocompost in soil fertility maintenance, promotion of plant growth, value added products, waste reduction, etc. (6 Hours)

Unit V

Economics of establishment of a small biocompost unit – project report proposal for Self Help Group (Income and employment generation). (6 Hours)

Practical

- Preparation procedures for Biocompost pit.
- Selection of Biocompost material, separation of Compostable and Non-compostable materials.
- Packing and marketing of Biocompost.
- Field visit to Biocomposting unit.

REFERENCES

1. Bikas R. Pati&Santi M. Mandal. (2016). Recent trends in composting technology.
2. Van der Wurff, A.W.G., Fuchs, J.G., Raviv, M., Termorshuizen, A.J. (Editors) (2016). Handbook for Composting and Compost Use in Organic Horticulture. Bio Greenhouse COST Action FA 1105, www.biogreenhouse.org.

Mapping Table

CO/PO Course Code 23UZYN21	PO1		PO2	PO3		PO4		PO5	PO6	PO7
CO 1	3	2	3	3	2	3	3	3	2	3
CO 2	3	2	2	1	2	3	3	2	1	3
CO 3	3	3	2	1	2	2	1	2	1	2
CO 4	2	3	2	2	1	1	2	1	2	2
CO 5	3	2	1	2	3	3	3	2	2	1

Strong (3) Medium (2) Low (1)

Dr. J. Rani
Head of the Department

Dr. P. Veeramuthumari
Course Designer



**B.Sc. Home Science- Nutrition and Dietetics
(2023-2024 onwards)**

Semester I	FOUNDATIONS OF BAKING AND CONFECTIONERY	Hours/Week: 2	
NME -1		Credits: 2	
Course Code 23UHSN11		Internal 25	External 75

Course Outcomes:

On completion of the course, students will be able to

CO1: state the concept, principles and importance of bakery, confectionery and marketing and describe the types of bakery equipment, bakery and confectionery products. [K1]

CO2: Identify the various ingredients used in bakery and confectionery products and state its composition. [K1]

CO3: discuss the current status and growth of bakery and confectionery industries in India and the role and functions of ingredients used in baking and confectionary. [K2]

CO4: explain the processing methods of bakery and confectionery items. [K2]

CO5: identify the hygienic practices, packaging materials and marketing of bakery and confectionery items and find the faults and remedial measures occur during the preparation of it. [K3]

UNIT I**An Overview of Bakery Industry**

Baking – principles, process.

Equipment and tools used in baking and confectionery. Bakery sanitation and personnel hygiene.

(6 Hours)

UNIT II**Ingredients in Bakery and Confectionery**

Ingredients - Flour, Sugar, Shortenings, Egg, Leavening agents-yeast, baking soda, baking powder, chocolates, cocoa powder. Other ingredients- salt, milk and milk derivatives, malt products, dough

improver, oxidizing agents, flavours and colors, nuts, spices and condiments, preserved and candied fruit peels. (6 Hours)

UNIT III

Breads and Cakes

Bread - ingredients, types of breads, faults and its prevention

Cakes – ingredients, types of cakes, cake judging, faults and remedies.

techniques of cake decoration – icing and types

Related experience

Preparation of pizza base.

Preparation of cake (6 Hours)

UNIT IV

Pastries, Cookies and Biscuits

Pastries- types of pastries- puff pastry, short crust, phyllo pastry, flaky pastry, choux pastry

Cookies & biscuits – ingredients, types and processing.

Related experience

Preparation of sweet and salt biscuits

Preparation of pastries- puff pastry (6 Hours)

UNIT V

Confectionery and Marketing of Baked Products Chocolates- production, types, chocolate decorations Sugar based confectionery – fudge, fondant, sugar candies.

Marketing and sales promotion- costing, packaging and labeling of baking and confectionery products.

Related experience

Preparation of plain chocolate (6 Hours)

REFERENCES

1. John Kingslee, (2006). *A Professional Text book to Bakery and Confectionary*, New Delhi: New Age International Pvt Limited Publisher.
2. Uttam, K. Singh, (2011). *Theory of Bakery and Confectionary- An Operational Approach*, New Delhi: Kanishka Publishers and Distributors.
3. Yogambal Ashokkumar, (2012). *Theory of Bakery and Confectionary*, New Delhi: PHI

publication.

4. Nicoletto, I. and Foote, R. (2000). *Complete Confectionary Techniques*. London: Hodder and Solution.
5. Emil Braun, (2000). *Bakers hand Book on practical Baking*,, New Delhi: U.S. Wheat Associates.
6. Dubey, S.C. (2002). *Basic Baking*, 4th Edition, New Delhi: Society of Indian Bakers.
7. Sarah, R. Lebensky, Pricilla, et al., (2004). *Textbook of Baking and Pastry Fundamentals*,3rd Edition,USA: Pearson Education Ltd.

LEARNING RESOURCES

1. <https://www.lifestyleasia.com/ind/food-drink/dining/bookmark-the-best-baking-youtube-channels-to-bake-like-a-pro/>
2. www.bakels.in
3. <https://www.youtube.com/watch?v=dfvklBBO2g>

Course Code 23UHSN11	PO1	PO2	PO 3	PO4	PO 5	PO 6	PO 7
CO1	3	3	1	3	1	1	-
CO2	3	3	1	3	2	3	1
CO3	3	3	3	3	3	2	3
CO4	3	3	3	3	3	2	3
CO5	3	3	3	3	3	3	3

Strong 3 Medium 2 Low 1

Dr.D.Vijayarani
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Mrs.S.Balasaraswathi
Ms.W.Jayanthi Selva Sundari
Course Designers



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VIRUDHUNAGAR - 626 001

B.Sc. Home Science- Nutrition and Dietetics

(2023-2024 onwards)

Semester II	BASIC NUTRITION AND DIETETICS	Hours/Week: 2	
NME - 2		Credits: 2	
Course Code 23UHSN21		Internal 25	External 75

COURSE OUTCOMES

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

CO1: define the concept of food, nutrients, balanced diet, meal planning and sources of nutrients. [K1]

CO2: state the functions of nutrients, principles of meal planning and foods to be included and excluded for normal and special conditions [K1]

CO3: classify macro and micro nutrients and deficiency diseases.[K2]

CO4: explain the role of nutrients and dietary modifications for the various persons.[K2]

CO5: plan the menu based on RDA for various age group and the factors influencing meal planning. [K3]

UNIT I

Carbohydrates, Protein, Fats - meaning, classification, functions and food sources, Protein Energy Malnutrition (Marasmus, Kwashiorkor) - causes, symptoms and treatment. Fibre - definition and role of dietary fiber in human health. (6 Hours)

UNIT II

Vitamins – definition, classifications, functions, food sources and deficiency diseases of the following Vitamins.

Water soluble Vitamins – Thiamine, Riboflavin, Niacin, Folic acid and Vitamin C.

Fat soluble Vitamins – A, D, E and K (6 Hours)

UNIT III

Minerals – definition, classifications, functions, food sources and deficiency diseases of the following minerals- calcium, phosphorous, iron, iodine, zinc, copper and magnesium.

(6 Hours)

UNIT IV

Balanced diet – definition, meal planning – definition, principles, factors influencing meal planning and its modification to suit different income levels, age and physiological states. Recommended Dietary Allowances (2020) for different age groups of both sex.

(6 Hours)

UNIT V

Diet for vulnerable groups - diet for pregnant woman, lactating woman and for elderly. Special diet – slimming.

Diet for diseased conditions - fever, diarrhea, obesity, hypertension, cancer and diabetes.

(6 Hours)

TEXT BOOKS

1. Srilakshmi.B, (2023). *Dietetics*, 9th Edition, New Delhi: New Age International (P) Ltd. Publishers.
2. Gajalakshmi.R, (2015). *Nutrition Science*, New Delhi: CBS Publishers and Distributors Pvt.Ltd.

REFERENCE BOOKS

1. Khanna, K. (1997). *Nutrition and Dietetics*, New Delhi: Phoenix Publishing House Pvt Ltd.
2. Srilakshmi, B. (2022). *Nutrition Science*, 7th Edition, New Delhi: New Age International (P) Ltd. Publishers.
3. Swaminathan, M. (2018). *Food and Nutrition - volume 1*, Bangalore: Bangalore Printing and Publishers Co Ltd.

Course Code 23UHSN21	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
CO 1	2	-	1	1	3	-	-
CO 2	2	2	2	2	3	-	1
CO 3	2	2	1	1	3	-	-
CO 4	3	2	3	3	3	-	-
CO 5	3	2	3	3	3	-	2

Strong (3) Medium (2) Low (1)

Dr.D.Vijayarani
Head of the Department

Dr.D.Vijayarani
Course Designer



V.V.VANNIAPERUMAL COLLEGE FOR WOMEN

(Belonging to Virudhunagar Hindu Nadars)

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VIRUDHUNAGAR - 626 001

**B.Sc Biochemistry
(2023-2024 onwards)**

Semester I	NUTRITION AND HEALTH	Hours/Week: 2	
NME- 1		Credits: 2	
Course Code 23UBCN11		Internal 25	External 75

COURSE OUTCOMES

On completion of the course the students will be able to

CO1: Define the concept of health, nutrition and diet. [K1]

CO2: Describe the different types of nutrients and its sources. [K1]

CO3: Explain the functions of nutrients on health and RDA. [K2]

CO4: Identify the properties and deficiencies of nutrients. [K2]

CO5: Relate the role of proteins, carbohydrates, vitamins and minerals on health. [K3]

UNIT I:

Health – definition, Factors affecting human health. Importance of health care of children, adults and elderly people. Balanced diet and calorific value. (6 Hours)

UNIT II:

Vitamins-definition, classification, sources, properties, functions and deficiency symptoms. Recommended daily allowances. (6 Hours)

UNIT III:

Sources and functions of dietary fats, role of fats in health and diseases. (6 Hours)

UNIT IV:

Minerals- Role of minerals on human health, sources, biological functions, deficiency disorders with special reference to Calcium, Phosphorus, Potassium, Copper, Iron, Zinc and Selenium. Minerals in biological systems and their importance –Iron, Calcium, Phosphorus, Iodine, Copper, Zinc. (6 Hours)

UNIT V:

Role of proteins and carbohydrates in health. Functions of protein and carbohydrate and their calorific value. Dietary sources and deficiency disorders – Kwashiorkor and Marasmus – supplementation programs in India and their implications. (6 Hours)

TEXT BOOKS

1. Arumugam, N. (2014). Biochemistry, 5 th Edition, Nagercoil: Saras Publications.
2. J. S. Garrow, W. Philip T. James, A. Ralph (2000), Human Nutrition and Dietetics (10th ed), Churchill Livingstone

REFERENCE BOOKS

1. Denise R. Ferrier. (2020). Lippincott Illustrated Reviews Biochemistry, South Asian Edition, New Delhi: Wolters kluwer India pvt ltd.
2. Sathyanarayana, U. (2020). Biochemistry, 5 th Edition, Netherland: Elsevier.
3. Margaret Mc Williams (2012). Food Fundamentals (10th ed), Prentice Hall
4. Nagini, S. (2007). Textbook of Biochemistry, 2 nd Edition, Chennai: Scitech publications.
5. Sharma, D.C. (2017). Nutritional Biochemistry, New Delhi: CBS publishers & distributors.

Course Code 23UBCN11	PO1	PO2	PO3		PO4		PO5		PO6	PO7
	PSO 1	PSO 2	PSO3 3.a	PSO3 3.b	PSO 4a	PSO 4 b	PSO 5a	PSO 5b	PSO 6	PSO 7
CO 1	2	3	2	1	1	3	-	1	-	2
CO 2	2	1	2	2	3	3	-	1	-	2
CO 3	3	2	2	3	3	2	-	1	-	2
CO 4	2	3	2	3	2	2	-	1	-	2
CO 5	2	2	2	2	2	2	-	1	-	2

Strong (3) Medium (2) Low (1)

Dr.P.Annapoorani
Head of the Department

Dr.P.Annapoorani
Course Designer



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VIRUDHUNAGAR - 626 001

B.Sc. Biochemistry (2023-2024 onwards)

Semester II	LIFE STYLE DISEASES	Hours/Week: 2	
NME - 2		Credits: 2	
Course Code 23UBCN21		Internal 25	External 75

COURSE OUTCOMES

On completion of the course the students will be able to

CO1: Define Lifestyle diseases and describe the contributing factors. [K1]

CO2: Identify the symptoms of top lifestyle diseases and its impact on life. [K1]

CO3: Explain the treatment and prevention measures of common lifestyle diseases. [K2]

CO4: Describe the lifestyle diseases that affect women's health. [K2]

CO5: Illustrate the various measures for prevention of lifestyle diseases. [K3]

UNIT I:

Lifestyle diseases: Definition, Factors contributing to lifestyle diseases – Physical inactivity, Poor food habits, disturbed biological clock, sleep deprivation. (6 Hours)

UNIT II:

Top lifestyle diseases, Impact of Lifestyle diseases on family, society and economy of country. (6 Hours)

UNIT III :

Non-communicable diseases- Obesity, cardiovascular disease, diabetes and cancer- Causes, symptoms, types, preventive measures and treatment. (6 Hours)

UNIT IV:

Women's lifestyle diseases: Polycystic Ovarian Disease, Infertility, Breast and cervical cancer and Osteoporosis. (6 Hours)

UNIT V:

Prevention of lifestyle diseases: Balanced diet, fasting, sufficient intake of water, physical activity, sleep-wake cycle, stress management and meditation. (6 Hours)

TEXTBOOKS

1. James M R, Lifestyle Medicine, 2nd Edition, CRC Press, 2013
2. Akira Miyazaki, New Frontiers in Life style - Related Disease, Springer, 2008

REFERENCEBOOKS

1. Steyn K, Life style and related risk factors for chronic diseases
2. Willett WC, Prevention of chronic disease by means of diet and lifestyle.
3. Kumar M & R. Kumar, Guide to prevention of lifestyle diseases. Deep & Deep publications

Course Code 23UBCN21	PO1	PO2	PO3		PO4		PO5		PO6	PO7
	PSO1	PSO 2	PSO 3.a	PSO 3.b	PSO 4.a	PSO 4.b	PSO 5.a	PSO 5.b	PSO 6	PSO 7
CO 1	3	2	2	2	2	3	1	2	-	1
CO 2	3	2	2	2	2	3	1	2	-	1
CO 3	3	2	2	2	2	3	1	2	-	1
CO 4	3	2	2	2	2	3	1	2	-	1
CO 5	3	2	2	2	2	3	1	2	-	1

Strong (3) Medium (2) Low (1)

Dr.P.Annapoorani
Head of the Department

Dr. R. Renuka
Course Designer



V.V.VANNIAPERUMAL COLLEGE FOR WOMEN

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VIRUDHUNAGAR - 626 001

B.Sc. Microbiology (2023-2024 onwards)

Semester I	SOCIAL AND PREVENTIVE MEDICINE	Hours/Week: 2	
NME-1		Credits: 2	
Course Code 23UMBN11		Internal 25	External 75

Course Outcomes:

- CO1 Identify the health information system (K1)
- CO2 Associate various factors with health management system(K2)
- CO3 Choose the appropriate health care services (K2)
- CO4 Appraise the role of preventive medicine in community setting (K3)
- CO5 Recommend the usage of alternate medicine during outbreaks (K3)

UNIT I

Introduction to social medicine:

History of social medicine-concepts of health and disease-social determinants of health and disease-Health and quality of life-Health information system- measures of population health-health policies.. (6 Hours)

UNIT II

Health management:

Applications of behavioral sciences and psychology in health management- nutritional programs for health management-water and sanitation in human health-national programs for communicable and non-communicable diseases- environmental and occupational hazards and their control.

(6 Hours)

UNIT III

Health care and services:

Health care of the community-information, education, communication and training in health-maternal & child health-school health services- Geriatrics-care and welfare of the aged-mental health-health services through general practitioners. (6 Hours)

UNIT IV

Preventive medicine:

Introduction- role of preventive medicine- levels of prevention-Risk assessment in communities and vulnerable population –surveillance, monitoring and reporting of disease outbreaks - forecasting and control measures in community setting – early detection methods. (6 Hours)

UNIT V

Prevention through alternate medicine:

Unani, Ayurveda, Homeopathy, Naturopathy systems in epidemic and pandemic outbreaks. International health regulations. Infectious disease outbreak case studies and precautionary response during SARS and MERS coronavirus, Ebola and novel SARS-COV2 outbreaks.

(6 Hours)

Text Books

1. Park.K (2021). Textbook of preventive and social medicine, 26th edition. Banarsidas Bhanot publishers.
2. Mahajan& Gupta (2013). Text book of preventive and social medicine, 4th edition. Jaypeebrothers medical publishers.
3. Chun-Su Yuan, Eric J. Bieber, Brent Bauer (2006). Textbook of Complementary and Alternative Medicine. Second Edition. Routledge publishers.
4. Vivek Jain (2020). Review of Preventive and Social Medicine: Including Biostatics. 12th edition, Jaypee Brothers Medical Publishers.
5. Lal Adarsh Pankaj Sunder (2011). Textbook of Community Medicine: Preventive and Social Medicine, CBS publisher.

References Books

1 Howard Waitzkin, Alina Pérez, Matt Anderson (2021). Social Medicine and the coming Transformation. First Edition. Routledge publishers.

2 GN Prabhakara (2010). Short Textbook of Preventive and Social Medicine. Second Edition. Jaypee publishers.

3 Jerry M. Suls, Karina W. Davidson, Robert M. Kaplan (2010). Handbook of Health Psychology and Behavioral Medicine. Guilford Press.

4 Marie Eloïse Muller, Marie Muller, Marthie Bezuidenhout, Karien Jooste (2006). Health Care Service Management. Juta and Company Ltd.

5 Geoffrey Rose (2008). Rose's Strategy of Preventive Medicine: The Complete. OUP Oxford.

Web Resources

1 <https://www.omicsonline.org/scholarly/social--preventive-medicine-journals-articles-ppts-list.php>

2 https://www.teacheron.com/online-md_preventive_and_social_medicine-tutors

3 <https://www.futurelearn.com>

4 <https://www.healthcare-management-degree.net>

5 <https://www.conestogac.on.health-care-administration-and-service-management>

Course Code 23UMBN11	PO1		PO2	PO3		PO4		PO5	PO6	PO7
	PSO 1.a	PSO 1.b	PSO 2	PSO 3.a	PSO 3.b	PSO 4.a	PSO 4.b	PSO 5	PSO 6	PSO 7
CO1	2	2	1	-	-	1	-	-	-	-
CO2	2	-	1	-	1	-	-	2	1	1
CO3	2	2	-	1	-	2	1	-	-	-
CO4	2	2	1	-	2	1	-	1	-	1
CO5	2	2	1	-	1	-	-	-	1	-

Mrs. J.Jeya
Head of the Department

Mrs.A.Hemalatha
Course Designer



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VIRUDHUNAGAR - 626 001

B.Sc.,Microbiology

(2023-2024 onwards)

Semester II	Nutrition & Health Hygiene	Hours/Week: 2	
NME-2		Credits: 2	
Course Code 23UMBN21		Internal 25	External 75

Course Outcomes:

- CO1 Identify the importance of nutrition for a healthy life (K1)
- CO2 Describe the nutrition for life cycle (K1)
- CO3 Outline the health care programmes of India (K2)
- CO4 Explain the importance of community and personal health (K2)
- CO5 Build awareness on community health and hygiene (K3)

UNIT I

Nutrition – definition, importance, Good nutrition, and mal nutrition; Balanced Diet: Basics of Meal Planning. Carbohydrates, Lipids, Proteins and Vitamins –functions, dietary sources, effects of deficiency. Macro and micro minerals –functions, effects of deficiency; food sources of Calcium, Potassium, and Sodium; food sources of Iron, Iodine, and Zinc. Importance of water– functions, sources, requirements and effects of deficiency (6 Hours)

UNIT II

Nutrition for Life Cycle: Balanced diet - Normal, Pregnant, lactating women, Infancy, young children Adolescents, Adults, and the Elderly; Diet Chart; Nutritive value of Indian foods.

(6 Hours)

UNIT III

Improper diets: Definition, Identification, Signs and Symptoms - malnutrition, under-nutrition, over-nutrition, Protein Energy Malnutrition, obesity; Nutritional Disease and Disorder - hypertension, diabetes, anemia, osteomalacia, cardiovascular disease. (6 Hours)

UNIT IV

Health - Determinants of health, Key Health Indicators, Environment health & Public health; Health-Education: Principles and Strategies. Health Policy & Health Organizations: Health Indicators and National Health Policy of Govt. of India; Functioning of various nutrition and health organizations in India. (6 Hours)

UNIT V

Hygiene – Definition; Personal, Community, Medical and Culinary hygiene; WASH (Water, Sanitation and Hygiene) programme. Rural Community Health: Village health sanitation & Nutritional committee. Community & Personal Hygiene: Environmental Sanitation and Sanitation in Public places. (6 Hours)

Text Books

1. Bamji, M.S., K. Krishnaswamy & G.N.V. Brahmam (2009) Textbook of Human Nutrition (3rd edition) Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi
2. Swaminathan (1995) Food & Nutrition (Vol I, Second Edition) The Bangalore Printing & Publishing Co Ltd., Bangalore
3. SK. Haldar (2022). Occupational Health and Hygiene in Industry. CBS Publishers.
4. Acharya, Sankar Kr, Rama Das, Minati Sen (2021). Health Hygiene and Nutrition Perception and Practices. Satish Serial Publishing House
5. Dass (2021). Public Health and Hygiene, Notion Press.

References Books

1. Vijaya Khader (2000) Food, nutrition & health, Kalyan Publishers, New Delhi
2. Srilakshmi, B., (2010) Food Science, (5th Edition) New Age International Ltd., New Delhi

- 3 Arvind Kumar Goel (2005). A College Textbook of Health & Hygiene, ABD Publishers
- 4 Sharma D. (2015). Textbook on Food Science and Human Nutrition. Daya Publishing House.
- 5 Revilla M. K. F., Titchenal A. and Draper J. (2020). Human Nutrition. University of Hawaii, Mānoa.

Web Resources

- 1 National Rural Health Scheme:
<https://nhm.gov.in/index1.php?lang=1&level=1&sublinkid=969&lid=49>
- 2 National Urban Health Scheme:
<https://nhm.gov.in/index1.php?lang=1&level=1&sublinkid=970&lid=137>
- 3 Village health sanitation & Nutritional committee
<https://nhm.gov.in/index1.php?lang=1&level=1&sublinkid=149&lid=225>
- 4 Health Impact Assessment - <https://www.who.int/hia/about/faq/en/>
- 5 Healthy Living <https://www.nhp.gov.in/healthylivingViewall>

Course Code 23UMBN21	PO1		PO2	PO3		PO4		PO5	PO6	PO7
	PSO 1.a	PSO 1.b	PSO 2	PSO 3.a	PSO 3.b	PSO 4.a	PSO 4.b	PSO 5	PSO 6	PSO 7
CO1	3	2	2	-	3	2	2	2	1	3
CO2	2	1	2	2	3	2	2	2	-	3
CO3	2	1	1	1	3	2	2	2	-	3
CO4	2	2	2	-	3	3	1	-	1	3
CO5	3	1	2	-	3	3	2	-	-	3

Mrs. J.Jeya
Head of the Department

Mrs.A.Hemalatha
Course Designer



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VIRUDHUNAGAR - 626 001

B.Sc. Biotechnology

(2023-2024 onwards)

Semester I	HERBAL MEDICINE	Hours/Week: 2	
NME - 1		Credits: 2	
Course Code 23UBON11		Internal 25	External 75

Course Outcomes:

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

CO1: Appreciate the concepts of Ethnomedicine (K1)

CO2: Learn the role of herbal medicines in health (K2)

CO3: Understand the importance of Tribal medicine (K2)

CO4: Explain about the role of traditional medicine for today's health (K3)

CO5: Apply the concepts of medicinal herbs to improve health (K3)

UNIT I

(6 Hours)

Ethnomedicine – definition, history, and its scope – Inter disciplinary approaches in ethnobotany – Collection of ethnic information.

UNIT II

(6 Hours)

Importance of medicinal plants – role in human health care – health and balanced diet (Role of proteins, carbohydrates, lipids, and vitamins).

UNIT III

(6 Hours)

Tribal medicine – methods of disease diagnosis and treatment – Plants in folk religion – *Aegle marmelos*, *Ficus benghalensis*, *Curcuma domestica*, *Cynodon dactylon* and *Sesamum indicum*.

UNIT IV

(6 Hours)

Traditional knowledge and utility of some medicinal plants in Tamil Nadu –

Solanum trilobatum, *Cardiospermum halicacabum*, *Vitex negundo*, *Adathoda vasica*,

Azadirachta indica, *Gloriosa superba*, *Eclipta alba*, *Aristolochia indica* and *Phyllanthus fraternus*.

UNIT V

(6 Hours)

Plants in day today life – *Ocimum sanctum*, *Centella asiatica*, *Cassia auriculata*, *Aloe vera*. Nutritive and medicinal value of some fruits (Guava, Sapota, Orange, Mango, Banana, Lemon, Pomegranate) and Vegetables - Greens (*Moringa*, *Solanum nigrum* Cabbage).

TEXTBOOKS

1. R. K. Sinha and Shweta Sinha (2001) Ethnobiology. Surabhe Publications – Jaipur.
2. D.C. Pal & S.K. Jain Naya Prakash, (1998) Tribal medicine, Bidhan Sarani, Calcutta.
3. S.K. Jain (2001) Contribution to Indian Ethnobotany 3rd edition, scientific publishers, B.No.91, Jodhpur, India.
4. Andrew Chevallie, (2000) Encyclopaedia of Herbal Medicine
5. James Green (2000) The Herbal Medicine-Maker's Handbook: A Home Manual

REFERENCE BOOKS

1. M.C. Joshi (2007) Handbook of Indian Medicinal Plants Hardcover.
2. Neelesh Malviya and Sapna Malviya (2019) Herbal Drug Technology, 1st Edition, CBS Publishers, and Distributors.
3. Rageeb Md. Usman, Vaibhav M. Darvhekar, Vijay Kumar D, and Akhila S.A, (2019) Practical Book of Herbal Drug Technology, 1st Edition, Nirali Prakashan Publishers.
4. Pragi and Varun Arora (2019) Herbal Drug Technology, 1st Edition, S.Vikas and Company Publisher.

Course Code 23UBON11	PO1		PO2		PO 3	PO4		PO 5	PO 6	PO 7
	PSO 1. a	PSO 1. b	PSO 2. a	PSO 2. b	PSO 3	PSO 4. a	PSO 4.b	PSO 5	PSO 6	PSO 7
CO1	2	-	3	1	2	2	1	-	2	-
CO2	1	-	2	1	3	2	2	-	2	-
CO3	3	2	2	2	2	2	2	-	2	2
CO4	2	1	2	3	2	2	2	1	2	3
CO5	3	1	2	3	2	3	2	2	3	3

Strong (3) Medium (2) Low (1)

Dr. V. Jeyasimga
Head of the Department

Dr. Sinthia Ganeshan
Course Designer



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VIRUDHUNAGAR - 626 001

B.Sc. Biotechnology

(2023-2024 onwards)

Semester II	ORGANIC FARMING AND HEALTH MANAGEMENT	Hours/Week: 2	
NME – 2		Credits: 2	
Course Code 23UBON21		Internal 25	External 75

Course Outcomes:

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

CO1: Learn the concepts of ecology, organic farming, Health and fitness (K1)

CO2: Know the techniques of Vermicomposting and learn the organic certification ,
maintenance of good health (K1)

CO3: Describe the Principles and Policies in Organic farming , Role of physical activity in
health (K2)

CO4: Explain the Concept of composting and organic cultivation, Health and importance of
wellbeing (K2)

CO5: Examine the significance of organic manures, Role of exercise and nutrition in Health-
related fitness (K3)

UNIT I

Ecology and Environment – Principles of ecology – Ecosystem - Biotic and abiotic components and interaction – Farming, organic farming - concept, Principles, Types of organic farming, Benefits of organic farming. (6 Hours)

UNIT II

Composting – Microbial Compost – Vermicompost Types, Methods and Advantages Setup for vermicompost unit - Nutrition Garden – Ring garde n – Double digging – Cultivating vegetables – Common medicinal herbs – Identification and Cultivation.

(6 Hours)

UNIT III

Organic farming – Certification agencies – AGMARK, FSSAI, Halal certification – Participatory grading system (PGS) – Storage – Packing – Transportation – Marketing. Micro-enterprises – Self Help Groups – Economics of cultivation– Sustainability. (6 Hours)

UNIT IV

Health: Concept of Health, changing concepts definitions of health, dimensions of health, concept of wellbeing, spectrum of health, determinants of health, ecology of health, right to health, responsibility for health, indicators of health. (6 Hours)

UNIT V

Exercise and Health related fitness: Health related fitness, health promotion, physical activity for health benefits. Sports related fitness: Role of nutrition in sports, nutrition to athletic performance. (6 Hours)

TEXTBOOKS

1. G.K. Veeresh, (2006) Organic farming, First edition, New Delhi, India Foundation Books in association with Centre for Environment Education.
2. Mangala rai, (2012) Handbook of Agriculture, Sixth Edition, ICAR New Delhi.
3. B.B. Sharma (2007) A Guide to Home Gardening, Second Edition, MIB India, New Delhi
4. Adrienne E. Hardman, 2009. Physical Activity and Health – The evidence explained, Second edition, Taylor, and Francis Group.

REFERENCE BOOKS

1. F. H. King, Farmers of Forty Centuries: Permanent Organic Farming in China, Korea, and Japan (2011) Hardcover.
2. Gehlot D, Organic Farming: Components and Management 1st Edition, Publisher: M/s AGROBIOS (INDIA).

Course Code 23UBON21	PO1		PO2		PO 3	PO4		PO 5	PO 6	PO 7
	PSO 1. a	PSO 1. b	PSO 2. a	PSO 2. b	PSO 3	PSO 4. a	PSO 4. b	PSO 5	PSO 6	PSO 7
CO1	1	-	2	1	2	2	1	-	2	2
CO2	2	3	2	2	2	2	2	-	2	2
CO3	1	-	2	1	2	1	2	-	3	2
CO4	2	-	3	2	2	1	2	-	1	1
CO5	1	-	2	2	3	2	2	1	2	1

Strong (3) Medium (2) Low (1)

Dr. V. Jeyasimga
Head of the Department

Dr. Sinthia Ganeshan
Course Designer



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VIRUDHUNAGAR - 626 001

B.Sc Costume Design and Fashion

(2023-2024 onwards)

Semester I	BASICS OF FASHION	Hours/Week:2	
NME-1		Credits:2	
Course Code 23UCFN11		Internal 25	External 75

COURSE OUTCOMES

On completion of the course, students will be able to

CO1: describe the concepts of fashion, motifs, figure irregularities, elements and principles of design. [K1]

CO2: define and describe the importance of fashion, textile design, elements and principles of design and select suitable dress for various figure irregularities. [K1]

CO3: classify the types of fashion, motifs, design elements, principles of design and illustrate suitable dresses for various figure irregularities. [K2]

CO4: trace the uses of textile design, elements and principles of design on dress for various figure irregularities. [K2]

CO5: find out the changes that occur in fashion, and develop motifs using textile design on dress for various figure irregularities. [K3]

UNIT I Elements of Design on Apparel

Design, Classification-structural design and decorative design. Elements of design-line, shape, form, size, texture, directions and space. (5 Hours)

UNIT II Principles of Design on Apparel

Principles of design – balance – formal balance, informal balance and radial balance. Proportion – division of space, creating optical illusion, scale, golden oblong. Emphasis – grouping of objects, contrast colour, decorative, plain background, unusual line, shape and size.

Rhythm – repetition of shape, progression of size, continuous line movement, alternation and radiation. Harmony – line and shape, size, texture, idea, and colour. (7Hours)

UNIT III Textile Design

Design developments–motifs, repeats. Types of textile design–natural, geometric, conventional, abstract and historical. Study of repeat structures and its types –spot repeat, brick, drop, directional and non directional. Study of turning patterns and its types–flipping horizontal, flipping vertical, turnings spot (rotation dangles), study of diamond and ogee based designs.

(5Hours)

UNIT IV Fashion

Fashion – definition, classification - fad, style, classic, fashion trend, fashion forecasting. Fashion evolution– fashion cycle, style, increase in popularity, peak of popularity, decline in popularity and rejection of a style. Fashion marketing - structure, mannequin and boutique.

(7Hours)

UNITV Figure Analysis

Figure types and figure irregularities heavy figure, slim figure, slender figure, narrow shoulders, broad shoulders, round shoulders, large busts, large hips, large abdomen, large face, square face, round face and narrow pointed face. (6 Hours)

TEXT BOOK

Sumathi,G.J.,(2008).*ElementsofDesign*.NewDelhi:NewAgeInternational(p)LimitedPublishers.

REFERENCEBOOKS

- 1.Erwin,M.D.,Lila,A.&Kinchen,(Eds.).(1974).*ClothingforModerns*London:CollierMacMillan Publishers.
- 2.John,M.(1990).*Fashion Design and Illustration*. London : Melbourne.
- 3.Khurana,P.andSethi,M.(2007).*IntroductiontoFashionTechnology*.NewDelhi:FireWell Publication.
- 4.Narang,M.(2007).*HandBookofFashionTechnology*.NewDelhi:AsiaPacificBusinessPressInc.
- 5.Pundir,N.(2007).*FashionTechnologyTodayandTomorrow*.NewDelhi:MittalPublication.

Course Code 23UCFN11	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	3	3	3	2	3	3	2
CO2	3	3	3	2	3	3	2
CO3	3	3	3	2	3	3	2
CO4	3	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3

Strong(3) Medium (2) Low (1)

Mrs.J.Athirstam
Head of the Department

Ms.S.Suvedha
Course Designer



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VIRUDHUNAGAR - 626 001

B.Sc. Costume Design and Fashion

(2023-2024 onwards)

Semester II	INTERIOR DESIGNING	Hours/Week:2	
NME-2		Credits:2	
Course Code 23UCFN21		Internal 25	External 75

COURSE OUTCOMES

On completion of the course, students will be able to

CO1: state the concepts and selection of colours and furnishing materials for homes. [K1]

CO2: show the importance of colours and home furnishing materials. [K1]

CO3: classify the types of colours and furnishing materials suitable for day to day life and explain the maintenance of furnishing materials. [K2]

CO4: trace the usage of colours and functions of home furnishing materials for kitchen linen, draperies, curtains, floor coverings and bed linen. [K2]

CO5: make use of the applications of colours and furnishing materials for various home decors with good care. [K3]

UNIT I Colour Aspects

Prang colour chart – primary, secondary, intermediate and tertiary colours. Colour dimensions - hue, value, intensity. Warm and cool colours. Psychology of colours on dress. Illusions created by colours. Applications of colours for different seasons. Colour schemes – related colour harmony - monochromatic harmony and analogous harmony. Contrasting harmony – complementary harmony, double complementary harmony, split complementary harmony and triad.

(7Hours)

UNIT II Introduction to Home Furnishing

Introduction to home furnishing – different types of furnishing materials–selection of furnishing materials.

(5Hours)

UNIT III Draperies and Curtains

Doors and windows—different types and functions—Styles in draperies, curtains and valances. Care and maintenance. (5Hours)

UNIT IV Floor Coverings

Floor coverings –types–hard floor coverings, soft floor coverings. Care and maintenance. (7Hours)

UNIT V Linens

Bed linen-pillow, pillow covers, bed covers. Kitchen linen-apron, table linen and hand towel. Bath room linen. (6Hours)

TEXTBOOK

Muriel Clark, R. (1981). *Home Management*. London: A Fresh Approach, Richard Clay Ltd.

REFERENCE BOOKS

1. Alexander, N.G. (1972). *Designing Interior Environment*. New York: Mac court, Bizucovanorich, Inc.
2. Baker, W. (2000). *Fabric Sector*. London: Collins and Brown Publication Pvt. Ltd.
3. Lunenschloss, J. Albrocht, W. (1985). *Non Woven Bonded fabrics*. London: Ellis Horwood.
4. Murphy, R.J. (1997). *House Beautiful – A Seasonal Guide to Decorating With Fabric*. New York : Quadrille Publishing Ltd.
5. Octopus, H. (2001). *Cushions and Pillows-Professional Skills Made Easy*. New York: Octopus Publishing Group.

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7
23UCFN21							
CO1	3	3	3	2	1	1	2
CO2	3	3	3	2	1	1	2
CO3	3	3	3	2	1	1	2
CO4	3	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3

Strong(3) Medium (2) Low (1)

Mrs.J.Athirstam
Head of the Department

Ms.S.Suvedha
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V.V.VANNIAPERUMAL COLLEGE FOR WOMEN

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VIRUDHUNAGAR - 626 001

B.Sc. Computer Science

(2023-2024 onwards)

Semester I	OFFICE AUTOMATION	Hours/Week: 2	
NME - 1		Credits: 2	
Course Code 23UCSN11		Internal 25	External 75

Course Outcomes:

- CO1: outline the basic concepts of memory, components of computer systems and word processing software. [K1]
- CO2: recognize the features of operating systems, Microsoft Office Word 2010 and spreadsheet. [K1]
- CO3: describe the evolution of programming languages, types of memory, document editing, document formatting and insertion of tables in documents. [K2]
- CO4: discuss the ribbons in Microsoft Office 2010, Mail Merge in Word, functions and charts in Excel. [K2]
- CO5: use the elements of Microsoft Office Word 2010 and Microsoft Office Excel 2010 to create an useful application. [K3]

UNIT I

Introductory concepts: Memory unit – CPU - **Input Devices:** Keyboard, Mouse and Scanner-**Output devices:** Monitor, Printer-Introduction to Operating system & its features: DOS– UNIX – Windows-Introduction to Programming Languages. (6 Hours)

UNIT II

Introducing Microsoft Word 2010: Starting Microsoft Word 2010 – Exploring the User Interface of Microsoft Word 2010 – Exploring Tabs in Ribbon: Home Tab, Insert Tab, Page Layout

Tab – Saving the Document – Creating a New Document: Creating a Blank Document – Opening an Existing Document – Closing the Document – Quitting from Microsoft Word 2010.

Working with First Document in MS Word 2010: Working with Text: Adding Text in a Document, Editing Text, Creating Bulleted and Numbered Lists – Applying Text Formatting: Changing Font and Font Size of Text, Applying Bold, Italic, and Underline, Changing the Color of the Text – Inserting Header and Footer. (6 Hours)

UNIT III

Working with Pictures and Tables: Working with Graphical Object: Inserting a Picture, Inserting Clip Art, Inserting a Shape, Inserting a WordArt – Performing Advance Operation on Graphical Object: Cropping a Picture, Adding a Border to a Picture – Working with Table: Inserting a Table, Adding Rows and Columns in an Existing Table, Merging and Splitting Cells.

Using Mail Merge, Envelopes, and Labels: Creating and Using Mail Merge: Setting the Environment for Mail Merge, Adding and Editing Recipients, Inserting Merge Fields, Previewing and Finishing Mail Merge. (6 Hours)

UNIT IV

Introduction to Excel 2010: Understanding Workbooks and Worksheets – Starting Microsoft Excel 2010 – Exploring the Microsoft Excel 2010 User Interface: The File Tab, Quick Access Toolbar, The Title Bar, The Minimize, Maximize/Restore, and Close Buttons, The Ribbon, The Formula Bar, The Name box, The Worksheet, Scroll Bars, The Sheet Tab, The Status Bar.

Working with Worksheets and Cells: Exploring the Different Types of Data used in Excel: Entering Data in a Worksheet – Saving a Workbook – Opening an Existing Workbook – Working with Rows and Columns: Inserting Rows and Columns, Deleting Rows and Columns – Describing the Cut, Copy, and Paste Commands: Using the Cut Command, Using the Copy Command, Using the Paste Command. (6 Hours)

UNIT V

Working with Charts, Smart Art Graphics, and Sparklines: Understanding Charts: Understanding Chart Type: Column Chart, Bar Chart, Line Chart and Pie Chart, Working with Charts: Creating a Chart.

Working with Formulas and Functions: Exploring the Basic Concepts used in Formulas: Understanding Operators in Formulas, Understanding Cell Referencing – Working with Mathematical and Statistical Functions: Using the PRODUCT Function, Using the SUM Function, Using the AVERAGE Function – Working with Logical Functions: Using the AND Function, Using the IF Function, Using the OR Function. (6 Hours)

TEXT BOOK

Vikas Gupta. (2017). *Comdex Computer Course Kit Windows 7 with Office 2010*, Dreamtech Press, New Delhi, India.

UNIT	PAGES
I	Material will be provided
II	173-175, 177-180, 184-190, 195-205, 207, 217-220
III	238-241, 243-245, 250-255, 262-270
IV	277-283, 302-309, 313-319
V	366-368, 371-372, 388-398, 403-407

REFERENCE BOOKS

1. Dinesh Maidasani. (2011). *Learning Computer Fundamentals, MS Office and Internet & Web Technology*, 3rd Edition, Firewall Media, Kerala, India.
2. Ramesh Bangia. (2015). *Learning Microsoft Office 2010*, UBS Publishers, Bengaluru, India.

WEB RESOURCE

<https://www.udemy.com/course/office-automation-certificate-course/>

PO/CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7
Course Code 23UCSN11							
CO1	3	2	2	2	2	-	-
CO2	3	2	2	2	2	-	-
CO3	3	3	2	2	3	1	-
CO4	3	1	1	2	3	2	-
CO5	3	3	1	2	3	2	-

Strong (3) Medium (2) Low (1)

Dr. G. Karthigai Lakshmi
Mrs. P. Aruna Devi
Heads of the Departments

Mrs. M. Sangeetha Alias Sheeba
Ms. M. Porkalai Selvi
Course Designers



V.V.VANNIAPERUMAL COLLEGE FOR WOMEN

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VIRUDHUNAGAR - 626 001

B.Sc. Computer Science

(2023-2024 onwards)

Semester II	INTRODUCTION TO INTERNET AND HTML 5	Hours/Week: 2	
NME - 2		Credits: 2	
Course Code 23UCSN21		Internal 25	External 75

Course Outcomes:

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

- CO1: describe the features of the web, web browser, Internet, E-Mail and HTML tags. [K1]
 CO2: summarize the purpose of browsers, Mailing software, HTML tags. [K1]
 CO3: elucidate the working of web browsers, e-mail, creation of webpage, page layouts, HTML Forms and formatting of images in HTML. [K2]
 CO4: illustrate the working of Internet, browsers and HTML tags. [K2]
 CO5: use table, paragraph, list, text style tags and different components in HTML Forms. [K3]

UNIT I

Introduction to Internet: Introduction to Internet - History of Internet - IETF-IRTF-IAB
 - Working of Internet and Intranet - Information on Internet - Requirements for connecting to Internet - Basic Internet terms – HTML - Internet Services and Governance - Impact of Internet on society.

Browsers: Definition of Browser - Basic Features of Web Browsers - Running a Browser
 - Working of Internet Explorer - Toolbar Buttons - Getting to a Website - Working with Favorites
 - Working with History - Back and Forward Buttons – Bookmarks - Working on the web using the Browsers - Customization of Browsers - Netscape Browser - Keyboard Shortcuts for Working in Internet Explorer. (6 Hours)

UNIT II

Working with E-mail : E-Mail - Opening of E-Mail Account - E-Mail Organization - Parts of E-Mail Text - Working with Messages - Reading a Message - Replying to a Message -

Forwarding a Message - Deleting a Message - Changing View - Attaching a file or an item to a message. (6 Hours)

UNIT III

HTML: Introduction - HTML Command Tags - Quotation Marks – Spacing - Special Symbols - New Web Page Creation – Looking at your page in a Browser - Defining Web Page – Main Body of the text - Putting Headers - Adding Paragraph – Formatting Text in HTML - Font Type - Font size - Using Big and Small - Using predefined fonts – Making bold and italic - Setting colors - Text color - Superscripts and Subscripts - Striking out or Underlining text – Inserting Graphics - Scaling an Image - Images alignment - Creating banner - Adding horizontal rules – Wrapping text between two images - Ending text wrap - Adding space around an image - Using low resolution images. (6 Hours)

UNIT IV

HTML: Page layouts - Setting margins - Space between paragraphs - Leaving block of space - Line Breaks - Indents - Centering text - Creating columns - Setting background color - Block quotes – Tables - A way of representing data - Creating table - Dividing table into columns - Dividing table into horizontal sections - Creating headers - Adding a border - Putting a background image - Heading across two or more columns - Changing color of a Cell - Aligning the contents of cells - Display of tables. (6 Hours)

UNIT V

Working with Forms: Creating a Form - Working with Menus - Working with Radio Buttons - Check Boxes - Text Boxes - Larger Text Areas - Password Boxes - Submit Button - Resetting the Form - Allowing Visitors to Upload File - Active Images. (6 Hours)

TEXT BOOK

Ramesh Bangia. (2010). *Internet and Web Design*, 2nd Edition, Firewall Media.

UNIT	CHAPTER	PAGES
I	1	1 – 8 (Except Net Etiquette)
	4	54 - 64
II	5	68 – 79, 85
III	10	171 – 192
IV	10	192 – 206
REFERENCE	V	206 - 216

BOOKS

1. Rohit Khurana. (2010). *Computer Fundamentals and Internet Basics*, APH Publishing Corporation.
2. Kogent Learning Solutions Inc. *HTML 5 in Simple Steps*, DreamTech Press.

PO/CO Course Code 23UCSN21	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	1	1	-	-	2	-	-
CO2	1	1	1	-	2	1	-
CO3	2	2	2	2	3	1	-
CO4	2	2	-	-	-	-	-
CO5	2	2	2	1	3	1	-

Strong (3) Medium (2) Low (1)

Dr. G. Karthigai Lakshmi
Mrs. P. Aruna Devi
Heads of the Departments

Mrs. V. Subhasini
Course Designer



V.V.VANNIAPERUMAL COLLEGE FOR WOMEN

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VIRUDHUNAGAR - 626 001

B.S.C. INFORMATION TECHNOLOGY

(2023-2024 onwards)

Semester I	OFFICE AUTOMATION	Hours/Week: 2	
NME-1		Credits: 2	
Course Code 23UITN11		Internal 25	External 75

COURSE OUTCOMES:

On completion of the course the students will be able to

- CO1:** outline the basic concepts of memory , components of computer systems and word processing software. [K1]
- CO2:** recognize the features of operating systems, spreadsheet and Microsoft Office Word 2010. [K1]
- CO3:** describe the concepts of document formatting, inserting tables and functions in spreadsheets. [K2]
- CO4:** discuss the evolution of programming languages, types of memory and document editing. [K2]
- CO5:** use the elements of Microsoft Office Word 2010 and Microsoft Office Excel 2010 to create a useful application. [K3]

UNIT I

Introductory concepts: Memory unit – CPU - **Input Devices:** Key board, Mouse and Scanner. **Output devices:** Monitor, Printer. Introduction to Operating systems & its features: DOS– UNIX – Windows. Introduction to Programming Languages. (6 Hours)

UNIT II

Introducing Microsoft Word 2010: Starting Microsoft Word 2010 – Exploring the User Interface of MS Word 2010 – Exploring Tabs in Ribbon: Home Tab, Insert Tab, Page Layout Tab – Saving the Document – Creating a New Document: Creating a Blank Document – Opening an Existing Document – Closing the Document – Quitting from Microsoft Word 2010.

Working with First Document in MS Word 2010: Working with Text: Adding Text in a Document, Editing Text, Creating Bulleted and Numbered Lists – Applying Text Formatting: Changing Font and Font Size of Text, Applying Bold, Italic, and Underline, Changing the Color of the Text – Inserting Header and Footer. (6 Hours)

UNIT III

Working with Pictures and Tables: Working with Graphical Object: Inserting a Picture, Inserting Clip Art, Inserting a Shape, Inserting a WordArt – Performing Advance Operation on Graphical Object: Cropping a Picture, Adding a Border to a Picture – Working with Table: Inserting a Table, Adding Rows and Columns in an Existing Table, Merging and Splitting Cells.

Using Mail Merge, Envelops, and Labels: Creating a Using Mail Merge: Setting the Environment for Mail Merge, Adding and Editing Recipients, Inserting Merge Fields, Previewing and Finishing Mail Merge. (6 Hours)

UNIT IV

Introduction to Excel 2010: Understanding Workbooks and Worksheets – Starting Microsoft Excel 2010 – Exploring the Microsoft Excel 2010 User Interface: The File Tab, Quick Access Toolbar, The Title Bar, The Minimize, Maximize/Restore, and Close Buttons, The Ribbon, The Formula Bar, The Name box, The Worksheet, Scroll Bars, The Sheet Tab, The Status Bar.

Working with Worksheets and Cells: Exploring the Different Types of Data used in Excel: Entering Data in a Worksheet – Saving a Workbook – Opening an Existing Workbook – Working with Rows and Columns: Inserting Rows and Columns, Deleting Rows and Columns – Describing the Cut, Copy, and Paste Commands: Using the Cut Command, Using the Copy Command, Using the Paste Command. (6 Hours)

UNIT V

Working with Charts, Smart Art Graphics, and Sparklines: Understanding Charts: Understanding Chart Type: Column Chart, Bar Chart, Line Chart and Pie Chart, Working with Charts: Creating a Chart.

Working with Formulas and Functions: Exploring the Basic Concepts used in Formulas: Understanding Operators in Formulas, Understanding Cell Referencing – Working with Mathematical and Statistical Functions: Using the PRODUCT Function, Using the SUM Function, Using the AVERAGE Function – Working with Logical Functions: Using the AND Function, Using the IF Function, Using the OR Function. (6 Hours)

TEXT BOOK

Vikas Gupta (2018), *Comdex Computer Course Kit Windows 7 with Office 2010*, Dreamtech Press, New Delhi, India.

UNIT	PAGES
I	Material Will be Provided
II	173-175, 177-180, 184, 185, 187-190, 195-205, 207, 217-220
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V	366-368, 371, 372, 388-398, 403-407

REFERENCE BOOK

1. Dinesh Maidasani (2011), *Learning Computer Fundamentals, MS Office and Internet & Web Technology*, Third Edition, Firewall Media, Kerala, India.
2. Ramesh Bangia (2015), *Learning Microsoft Office 2010*, UBS Publishers, Bengaluru, India.

WEB RESOURCES

1. <https://www.udemy.com/course/office-automation-certificate-course/>
2. <https://www.javatpoint.com/automation-tools>

PO/CO Course Code 23UITN11	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	3	2	2	2	2	-	-
CO2	3	2	2	2	2	-	-
CO3	3	3	2	2	3	1	-
CO4	3	1	1	2	3	2	-
CO5	3	3	1	2	3	2	-

Strong (3) Medium (2) Low (1)

Dr.A.Bharathi Lakshmi
Heads of the Departments

Mrs.G.Chandraprabha
Course Designers



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VIRUDHUNAGAR - 626 001

B.SC. INFORMATION TECHNOLOGY

(2023-2024 onwards)

Semester I	INTRODUCTION TO HTML	Hours/Week: 2	
NME -2		Credits: 2	
Course Code		Internal	External
23UITN21		25	75

COURSE OUTCOMES

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

- CO1:** outline the basic HTML Commands of tags, text formatting, list and text effects for the emphasizing elements (bold, italic, and sizing), header elements, and color applying the software aspects of computer systems. [K1]
- CO2:** recognize the concepts of list, table, Hyper Links and frames for dividing the web browser window into multiple sections for developing technical project reports. [K1]
- CO3:** Summarize the customized web pages by formatting the lists of information in well-formed and semantic way to solve computational problems in real world based on their carrier. [K2]
- CO4:** Interpret the webpages by text styles, Lists, tables of bordering attributes and to perform different actions using Image Map and Frame Tags to apply current technical concepts and practices. [K2]
- CO5:** discover the web pages with graphic tools and text effects with images for designing the Forms and activate the Link for achieving technical project. [K3]

UNIT I

Introduction to Html: Hyper Text Markup Language (HTML) – Commonly Used HTML Commands – Titles and Footers – Text Formatting – Emphasizing Material in a Web Page – Text Styles – Other Text Effects. (7 Hours)

UNIT II

Lists: Types of Lists: Ordered List and Unordered List – Definition List. (5 Hours)

UNIT III

Tables: Using the Width and Border Attribute – Using the Cell Padding Attribute -Using the Cell Spacing Attribute - Using the Bgcolor Attribute - Using the Colspan and Row span attributes. (6 Hours)

UNIT IV

Linking Documents: Links: External & Internal Reference – Hyper Linking to a HTML File – Linking to a Particular Location in a Separate Document -Image as Hyper Links – Image Maps. (6 Hours)

UNIT V

Frames: Introduction to Frames: Frame Tag – Targeting Named Frames (6 Hours)

TEXT BOOK

Ivan Bayross, (2007). *Web Enabled Commercial Application Development Using HTML, DHTML, JavaScript, Perl CGI*, BPB Publication, 3rd Revised Edition.

UNIT	CHAPTER	PAGE NO.
I	2	15 – 30
II	3	33 – 36
III	5	47 – 56
IV	6	58 – 71
V	7	72 – 77

REFERENCE BOOKS

1. Gopalan, N.P. & Akilandeswari, J. (2007). *Web Technology*, Prentice Hall of India.

2. Deital & Deital (2004). *Internet and World Wide Web - How to Program*, Pearson Education, 3rd Edition.

WEB RESOURCES

https://www.tutorialspoint.com/microsoft_crm/microsoft_crm_html_web_resources.htm

https://www.w3schools.com/html/html_intro.asp

Course Code 20UITN21	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
CO 1	3	3	1	1	2	1	1
CO 2	3	2	2	1	3	1	1
CO 3	3	2	3	M	3	1	1
CO 4	3	3	2	2	3	1	1
CO 5	3	3	3	2	3	1	1

Strong (3) Medium (2) Low (1)

Dr.(Mrs).A.Bharathi Lakshmi
Head of the Department

Dr.A.Bharathi Lakshmi
Course Designer



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VIRUDHUNAGAR - 626 001

B.C.A.

(2023-24 onwards)

Semester I	Introduction to HTML	Hours/Week: 2	
NME -1		Credits: 2	
Course Code 23UCAN11		Internal 25	External 75

COURSE OUTCOMES

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

- CO1 : know the basics of internet and web browsers.[K1]
- CO2 : know the basic concept in HTML and concept of resources in HTML. [K1]
- CO3 : recognize the concept of list and its types. .[K2]
- CO4 : create tables and to understand the attributes of table. .[K2]
- CO5 : design frames and forms with its attributes. .[K3]

UNIT I

Introduction to the Internet: Computer in Business – Networking – Internet – E- Mail – Resource Sharing –World Wide Web – Internet Browsers: Internet Explorer – Netscape Navigator.

(6 Hours)

UNIT II

Introduction to HTML: Designing a Home Page – History of HTML – HTML Generations – HTML documents – Anchor tag – Hyper Links – Sample HTML Documents – Paragraph – Tab Settings – Images and Pictures – Embedding PNG format images.

(6 Hours)

UNIT III

Ordered and Unordered Lists: Lists – Unordered lists – Headings in a List – Ordered Lists – Nested Lists.

(6 Hours)

UNIT IV

Table Handling: Tables – Table creation in HTML – Width of the Table and Cells – Cells Spanning and Multiple Rows/Columns – Coloring Cells – Column Specifications – Some Sample Tables.

(6 Hours)

UNIT V

Frames: Frameset Definition – Frame Definition – Nested Framesets. Forms: Action Attribute – Method Attribute – enctype Attribute – Dropdown Lists.

(6 Hours)

TEXT BOOK

Xavier,C., (2009). World Wide Web Design with HTML, Tata McGraw Hill Publishing Company, 21st Reprint.

REFERENCE BOOKS:

1. “Mastering HTML5 and CSS3 Made Easy”, Teach U Comp Inc., 2014.
2. Thomas Michaud, “Foundations of Web Design: Introduction to HTML & CSS”.

WEB RESOURCES:

1. <https://www.teachucomp.com/samples/html/5/manuals/Mastering-HTML5-CSS3.pdf>
2. <https://www.w3schools.com/html/default.asp>

Course Code (23UCAN11)	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	1	1	-	-	-	-	-
CO2	1	1	-	-	-	-	-
CO3	2	2	-	-	-	-	-
CO4	1	1	-	-	-	-	-
CO5	1	1	-	-	-	-	-

Mrs. J. Porkodi
Head of the Department

Mrs. K.S Jeyalakshmi
Course Designer



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VIRUDHUNAGAR - 626 001

B.C.A. (2023-24 onwards)

Semester II	Fundamentals of Computers	Hours/Week: 2	
NME- 2		Credits: 2	
Course Code 23UCAN21		Internal 25	External 75

COURSE OUTCOMES

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

- CO1 : outline the basics of computer, purpose of input/output devices, various input technologies and progress of computer languages from machine level to high level. [K1]
- CO2 : recognize the evaluation of arithmetic operations by the processor, the registers involved in arithmetic operations and about the evolution and classification of computers. [K1]
- CO3 : classify different kinds of input/output technologies, machine, assembly, high level languages and computers. [K2]
- CO4 : : interpret problem solving using computers through the concepts of algorithms, computer model, its characteristics and computer generation & classification. [K2]
- CO5 : acquire the knowledge of computer basics, input/output devices, calculating arithmetic operations using computers, programming languages, generation and classification of computers. [K3]

UNIT I

Computer Basics: Algorithms – Simple Model of a Computer – Characteristics of Computers – Problem Solving Using Computers. (6 Hours)

UNIT II

Input / Output Units: Traditional Computer Input/Output Units – Other Input Technologies(MICR, OMR, Optical Character Recognizer, Bar code) – Computer Output Devices (Printers,Inkjet Printers, Laser Printers, Dot Matrix Printers, Line Printers, Plotters). (6 Hours)

UNIT III

Binary Arithmetic: Binary Addition – Binary Subtraction – Signed Numbers – Two’s Complement Representation of Numbers – Addition/Subtraction of Numbers in 2’s Complement Notation – Binary Multiplication – Binary Division. (6 Hours)

UNIT IV

Programming Languages: Why Programming Language? – Assembly Language – Higher Level Programming Languages – Compiling a High Level Language Programs. (6 Hours)

UNIT V

Computer generation and classification: First Generation of Computers - Second Generation –Third generation – Fourth generation –Fifth generation – Classification of Computers –Distributed Computer System – Parallel Computers. (6 Hours)

TEXT BOOK

Rajaraman, V. &NeeharikaAdabala, (2015).Fundamentals of Computers, PHI,6th Edition.

UNIT	CHAPTER	SECTION
I	1	1.1 – 1.4
II	3	3 3.1, 3.2 (3.2.3, 3.2.4, 3.2.6, 3.2.7), 3.3 (3.3.3 – 3.3.8)
III	6	6.1 – 6.7
	9	9.1 – 9.4
V	12	12.1 – 12.5, 12.7 - 12.9

REFERENCE BOOKS

1. Anna Treby, Cassell, (1998). An Introduction to Information Technology.
2. Peter Zorkoczy & Pitman, (1990). : An Introduction to Information Technology, 3rd Edition.
3. Alexis Leon & Mathews Leon, (2009). Fundamentals of Information Technology, 2nd Edition. Vikas Publishing House Pvt. Ltd.

Course Code 23UCAN21	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	1	1	-	-	-	-	-
CO2	1	1	-	-	-	-	-
CO3	2	2	-	-	-	-	-
CO4	1	1	-	-	-	-	-
CO5	1	1	-	-	-	-	-

Mrs. J. Porkodi
Head of the Department

Mrs. R.Nancy Beulah
Course Designer



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VIRUDHUNAGAR - 626 001

B.C.A - - GRAPHIC DESIGN

(2023-24 onwards)

Semester I	Introduction to HTML	Hours/Week: 2	
NME- 1		Credits: 2	
Course Code 23UGDN11		Internal 25	External 75

COURSE OUTCOMES

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

- CO1 : know the basics of internet and web browsers.[K1]
- CO2 : know the basic concept in HTML and concept of resources in HTML. .[K1]
- CO3 : recognize the concept of list and its types. .[K2]
- CO4 : create tables and to understand the attributes of table. .[K2]
- CO5 : design frames and forms with its attributes. .[K3]

UNIT I

Introduction to the Internet: Computer in Business – Networking – Internet – E- Mail – Resource Sharing –World Wide Web – Internet Browsers: Internet Explorer – Netscape Navigator.

(6 Hours)

UNIT II

Introduction to HTML: Designing a Home Page – History of HTML – HTML Generations – HTML documents – Anchor tag – Hyper Links – Sample HTML Documents – Paragraph – Tab Settings – Images and Pictures – Embedding PNG format images.

(6 Hours)

UNIT III

Ordered and Unordered Lists: Lists – Unordered lists – Headings in a List – Ordered Lists – Nested Lists.

(6 Hours)

UNIT IV

Table Handling: Tables – Table creation in HTML – Width of the Table and Cells – Cells Spanning and Multiple Rows/Columns – Coloring Cells – Column Specifications – Some Sample Tables. **(6 Hours)**

UNIT V

Frames: Frameset Definition – Frame Definition – Nested Framesets. Forms: Action Attribute – Method Attribute – enctype Attribute – Dropdown Lists. **(6 Hours)**

TEXT BOOK

Xavier,C., (2009). World Wide Web Design with HTML, Tata McGraw Hill Publishing Company, 21st Reprint.

REFERENCE BOOKS:

3. “Mastering HTML5 and CSS3 Made Easy”, Teach U Comp Inc., 2014.
4. Thomas Michaud, “Foundations of Web Design: Introduction to HTML & CSS”.

WEB RESOURCES:

3. <https://www.teachucomp.com/samples/html/5/manuals/Mastering-HTML5-CSS3.pdf>
4. <https://www.w3schools.com/html/default.asp>

Course Code 23UGDN11	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	1	1	-	-	-	-	-
CO2	1	1	-	-	-	-	-
CO3	2	2	-	-	-	-	-
CO4	1	1	-	-	-	-	-
CO5	1	1	-	-	-	-	-

Mrs. J. Porkodi
Head of the Department

Mrs. K.S Jeyalakshmi
Course Designer



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VIRUDHUNAGAR - 626 001

B.C.A - GRAPHIC DESIGN

(2023-24 onwards)

Semester II	Fundamentals of Computers	Hours/Week: 2	
NME - 2		Credits: 2	
Course Code 23UGDN21		Internal 25	External 75

COURSE OUTCOMES

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

- CO1 : outline the basics of computer, purpose of input/output devices, various input technologies and progress of computer languages from machine level to high level. [K1]
- CO2 : recognize the evaluation of arithmetic operations by the processor, the registers involved in arithmetic operations and about the evolution and classification of computers. [K1]
- CO3 : classify different kinds of input/output technologies, machine, assembly, high level languages and computers. [K2]
- CO4 : interpret problem solving using computers through the concepts of algorithms, computer model, its characteristics and computer generation & classification. [K2]
- CO5 : acquire the knowledge of computer basics, input/output devices, calculating arithmetic operations using computers, programming languages, generation and classification of computers. [K3]

UNIT I

Computer Basics: Algorithms – Simple Model of a Computer – Characteristics of Computers – Problem Solving Using Computers. (6 Hours)

UNIT II

Input / Output Units: Traditional Computer Input/Output Units – Other Input Technologies (MICR, OMR, Optical Character Recognizer, Bar code) – Computer Output Devices (Printers, Inkjet Printers, Laser Printers, Dot Matrix Printers, Line Printers, Plotters). (6 Hours)

UNIT III

Binary Arithmetic: Binary Addition – Binary Subtraction – Signed Numbers – Two’s Complement Representation of Numbers – Addition/Subtraction of Numbers in 2’s Complement Notation – Binary Multiplication – Binary Division. (6 Hours)

UNIT IV

Programming Languages: Why Programming Language? – Assembly Language – Higher Level Programming Languages – Compiling a High Level Language Programs. (6 Hours)

UNIT V

Computer generation and classification: First Generation of Computers - Second Generation – Third generation – Fourth generation – Fifth generation – Classification of Computers – Distributed Computer System – Parallel Computers. (6 Hours)

TEXT BOOK

Rajaraman, V. & Neeharika Adabala, (2015). Fundamentals of Computers, PHI, 6th Edition.

UNIT	CHAPTER	SECTION
I	1	1.1 – 1.4
II	3	3.3.1, 3.2 (3.2.3, 3.2.4, 3.2.6, 3.2.7), 3.3 (3.3.3 – 3.3.8)
III	6	6.1 – 6.7
	9	9.1 – 9.4
V	12	12.1 – 12.5, 12.7 - 12.9

REFERENCE BOOKS

1. Anna Treby, Cassell, (1998). An Introduction to Information Technology.
2. Peter Zorkoczy & Pitman, (1990). : An Introduction to Information Technology, 3rd Edition.
3. Alexis Leon & Mathews Leon, (2009). Fundamentals of Information Technology, 2nd Edition. Vikas Publishing House Pvt. Ltd.

Course Code 23UGDN21	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	1	1	-	-	-	-	-
CO2	1	1	-	-	-	-	-
CO3	2	2	-	-	-	-	-
CO4	1	1	-	-	-	-	-
CO5	1	1	-	-	-	-	-

Mrs. J. Porkodi
Head of the Department

R.Nancy Beulah
Course Designer



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VIRUDHUNAGAR - 626 001

DEPARTMENT OF BOTANY

Non Major Elective I

2023-2024 onwards

Semester I	ORGANIC FARMING	Hours/Week: 2	
NME - 1		Credits: 2	
Course Code 23UBYN11		Internal 25	External 75

Course Outcomes:

CO1: Recognize the different forms of biofertilizers and their uses. [K1]

CO2: Recall the components, patterns, and processes of bacteria for growth in crop production. [K1]

CO3: Identify techniques for synthesizing green manure and develop strategies to increase crop yield. [K2]

CO4: Explain the significance of biofertilizers in soil fertility. [K2]

CO5: Apply the new strategies to enhance growth and quality check of medicinal herbs considering the practical issues pertinent to India. [K3]

UNIT I : Soil – physical, chemical properties. Soil pollution – oil, chemicals –fertilizers, pesticide and herbicide, non-degradable solids, biomagnification, consequences of land pollution – damage to soil and crops. (6 Hours)

UNIT II: Organic farming – definition, basic concept of organic farming, integrated plant nutrient supply management, integrated insect pest and disease management, integrated soil and water management. Sustainable agriculture practices-crop rotation, mixed cropping. (6 Hours)

UNIT III : Management of organic wastes and green manures: Farm manures, Composts, Mulches and pest control, importance of organic manure, importance of green manure, crops of green manure, oil cake. Animal based organic manure–cow dung, vermicompost-methods, production and utilization. (6 Hours)

UNIT IV: Biofertilizers–classification, nitrogen fixers–*Rhizobium*, Cyanobacteria, *Azolla* and Vesicular Arbuscular Mycorrhiza. (6 Hours)

UNIT V: Recycling of bio-degradable municipal, agricultural and Industrial wastes – biocompost making methods. (6 Hours)

TEXT BOOKS

1. NIIR Board. 2012. The complete Technology Book on Biofertilizer and organic farming. 2nd Edition. NIIR Project Consultancy Services.
2. Sathe, T.V. 2004. Vermiculture and Organic Farming. Daya publishers.
3. Subba Rao N.S. 2017. Biofertilizers in Agriculture and Forestry. Fourth Edition. Medtech.
4. Vayas, S.C, Vayas, S. and Modi, H.A. 1998. Bio-fertilizers and organic Farming Akta Prakashan, Nadiad.
5. Dongarjal, R.P and Zade, S.B. 2019. Insect Ecology and Integrated Pest Management Akinik Publications, New Delhi.

REFERENCE BOOKS

1. Vayas, S.C, Vayas, S and Modi, H.A. 1998. Bio-fertilizers and organic Farming Akta Prakashan, Nadiad.
2. Sathe, T.V. 2004. Vermiculture and Organic Farming. Daya publishers.
3. Subha Rao, N.S. 2000. Soil Microbiology, Oxford & IBH Publishers, New Delhi.
4. Reddy, S.R. 2019. Fundamentals of Agronomy Kalyani Publications, Uttar Pradesh
5. Tolanur, S. 2018. Fundamentals of Soil Science IInd Edition, CBS Publishers, New Delhi

Course code 23UBYN11	PO1	PO2	PO 3	PO4	PO 5	PO 6	PO 7
CO1	3	3	3	3	2	2	2
CO2	3	3	3	3	2	2	2
CO3	3	3	3	3	2	2	2
CO4	3	3	3	3	2	2	2
CO5	3	3	3	3	2	2	2

Strong (3) Medium (2) Low (1)

Dr. B. Karunaiselvi
Head of the Department

Dr.R.Murugalakshmi Kumari
Course Designer



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VIRUDHUNAGAR - 626 001

DEPARTMENT OF BOTANY

Non Major Elective I

2023-2024 onwards

Semester I	NURSERY AND LANDSCAPING	Hours/Week: 2	
NME - 1		Credits: 2	
Course Code 23UBYN12		Internal 25	External 75

Course Outcomes:

CO1: Recognize the basic principles and components of gardening. [K1]

CO2: State the bio-aesthetic planning and conceptualize flower arrangement. [K1]

CO3: Classify the various types of gardens according to the culture and art of bonsai. [K2]

CO4: Explain the different garden styles and landscaping patterns. [K2]

CO5: Execute the special types of gardens for outdoor and indoor landscaping. [K3]

UNIT I : Introduction, prospects and scope of nursery and landscaping. (6 Hours)

UNIT II: Methods of Propagation – cutting, layering, grafting, budding, Floriculture – Rose, Chrysanthemum, Jasmine – cultivation. (6 Hours)

UNIT III : Gardening – formal garden, informal garden, vegetable garden, landscaped layout designing – formation and maintenance of lawn. (6 Hours)

UNIT IV: Nursery structures – Green house – Shade house, Mist chamber – Topiary, Bonsai culture. (6 Hours)

UNIT V : Manures, composting – vermicomposting (6 Hours)

TEXT BOOKS

1. Amarnath V. 2006. Nursery and Landscaping, M/s IBD Publishers, New Delhi.
 2. Butts, E and Stensson, K. 2012. Sheridan Nurseries: One hundred years of People, Plans, and Plants. Dundurn Group Ltd.
 3. Russell, T. 2012. Nature Guide: Trees: The world in your hands(Nature Guides). Mukherjee D. Gardening in India, Oxford IBH publishing co, New Delhi.
 4. Kumar, N. 1997. Introduction to Horticulture, Rajalakshmi Publications, Nagercoil.
- Butts, E. and Stensson, K. 2012.Sheridan Nurseries: One hundred years of People,Plans, and Plants. Dundurn Group Ltd.

REFERENCE BOOKS

- 1.Edmond Musser and Andres, Fundamentals of Horticulture, McGraw Hill Book Co. New Delhi.
2. Agrawal, P.K. 1993. Hand Book of Seed Technology, Dept. of Agriculture and Cooperation, National Seed Corporation Ltd., New Delhi.
3. Janick Jules. 1979. Horticultural Science. (3rd Ed.), W.H. Freeman and Co.,San Francisco, USA.
4. Singh, J. 2018. Fundamentals of Horticulture. Kalyani Publishers.
5. Sharma V. K. 1999. Encyclopaedia of Practical Horticulture, Vol I –IV, Deep And Deep Publ. Pvt. Ltd.

Course code 23UBYN12	PO1	PO2	PO 3	PO4	PO 5	PO 6	PO 7
CO1	3	3	3	3	2	2	2
CO2	3	3	3	3	2	2	2
CO3	3	3	3	3	2	2	2
CO4	3	3	3	3	2	2	2
CO5	3	3	3	3	2	2	2

Strong (3) Medium (2) Low (1)

Dr. B. Karunaiselvi
Head of the Department

Dr.R.Sreebha
Course Designer



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DEPARTMENT OF BOTANY

Non Major Elective II

2023-2024 onwards

Semester II	MUSHROOM CULTIVATION	Hours/Week: 2	
NME - 2		Credits: 2	
Course Code 23UBYN21		Internal 25	External 75

Course Outcomes:

CO1: Recall various types and categories of mushroom. [K1]

CO2: State the various types of food technologies associated with mushroom industry.[K1]

CO3: Discuss the techniques studied for cultivation of various types of mushroom [K2]

CO4: Identify the environmental factors and economic value associated with mushroom cultivation [K2]

CO5: Apply the new methods and strategies to contribute to mushroom production. [K3]

UNIT I : Introduction: Morphology, Types of Mushroom, identification of edible and poisonous mushroom, Nutritive values, life cycle of common edible mushrooms. (6 Hours)

UNIT II: Mushroom cultivation, prospects and scope of Mushroom cultivation in small scale Industry. (6 Hours)

UNIT III : Life cycle of *Pleurotus spp* and *Agaricus spp*. (6 Hours)

UNIT IV: Spawn production, growth media, spawn running and harvesting of mushrooms and marketing, Mushroom recipes. (6 Hours)

UNIT V: Diseases and post harvest technology, Insect pests, nematodes, mites, viruses, fungal competitors and other important diseases. (6 Hours)

TEXT BOOKS

1. Handbook of Mushroom Cultivation. 1999. TNAU publication.
2. Marimuthu, T., Krishnamoorthy, A.S., Sivaprakasam, K. and Jayarajan. R. 1991. Oyster Mushrooms, Department of Plant Pathology, Tamil Nadu Agricultural University, Coimbatore.
3. Swaminathan, M. 1990. Food and Nutrition. Bappco, The Bangalore Printing and Publishing Co. Ltd., No. 88, Mysore Road, Bangalore - 560018.
4. Sing. 2005. Modern Mushroom Cultivation, International Book Distributors, Dehradun.
5. Verma, 2013. Mushroom: edible and medicinal: cultivation conservation, strainimprovement with their marketing. Daya Publishing House.

REFERENCE BOOKS

1. Handbook of Mushroom Cultivation. 1999. TNAU publication.
2. Marimuthu, T., Krishnamoorthy, A.S., Sivaprakasam, K. and Jayarajan. R. 1991. Oyster Mushrooms, Department of Plant Pathology, Tamil Nadu Agricultural University, Coimbatore.
2. Swaminathan, M. 1990. Food and Nutrition. Bappco, The Bangalore Printing and Publishing Co. Ltd., No. 88, Mysore Road, Bangalore - 560018.
3. Nita Bahl. 2002. Handbook on Mushroom 4th edition Vijayprimlani for oxford & IBH publishing co., Pvt., Ltd., New Delhi. Dr.C. Sebastian Rajesekaran Reader in Botany Bishop Heber College, Trichy – 17.
4. Suman. 2005. Mushroom Cultivation Processing and Uses, M/s. IBD Publishers and Distributors, New Delhi.

Course code	PO1	PO2	PO 3	PO4	PO 5	PO 6	PO 7
23UBYN21							
CO1	3	3	3	3	2	2	2
CO2	3	3	3	3	2	2	2
CO3	3	3	3	3	2	2	2
CO4	3	3	3	3	2	2	2
CO5	3	3	3	3	2	2	2

Strong (3) Medium (2) Low (1)

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Head of the Department

Dr.R.Murugalakshmi Kumari
Course Designer



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DEPARTMENT OF BOTANY

Non Major Elective II

2023-2024 onwards

Semester II	Medicinal Botany	Hours/Week: 2	
NME - 2		Credits: 2	
Course Code 23UBYN22		Internal 25	External 75

Course Outcomes:

CO1: Define and describe the importance of Medicinal Botany. [K1]

CO2: List the phytochemistry of important medicinal herbs. [K1]

CO3: Describe the therapeutic and rejuvenating herbs .[K2]

CO4: Explain the description and active principles of medicinal plants. [K2]

CO5: Apply the skills for Identification and cultivation of medicinal plants [K3]

UNIT I : Introduction of Medicinal Botany, Importance of plant drugs in Indian Systems of Medicine – Ayurveda and Siddha, Plants in Traditional systems of medicine, Pharmacognosy – Aim and scope. (6 Hours)

UNIT II: Medicinal gardening - Home gardens, Therapeutic uses of plants - fever, worms, diarrhea, cough & cold, Arthritis & rheumatism, stone in urinary tract, eczema or fungal infections (6 Hours)

UNIT III : Medicinal plants of export values – Vinca rosea, Piper nigrum; rejuvenating herbs - Aloe vera, Phyllanthus emblica; Medicinal uses of Non-flowering plants – Algae, Fungi, Bryophytes and Ferns. (6 Hours)

UNIT IV: Botanical description and active principles of Root drugs ; Rhizomes woods and bark drugs (Two examples for each plant organs). Conservation of Medicinal Plants - Sacred groves, Forest, Hills and Plains, (6 Hours)

UNIT V: Botanical description and active principles of leaves; Flowers; Fruits; seed and entire plants as drugs. Taxonomic study of some selected herbals (Two examples for each plant organs).
(6 Hours)

TEXT BOOKS

1. Somasundaram, S. 1997. Medicinal botany (Maruthuvar Thavaraviyal) – (Tamil Medium Book).
2. Wallis, T.E. 1967. Text Books of Pharmacognosy. J. & A. Churchill Ltd., London,
3. Jains, S.K.. 1996. Medicinal Plants. Deep Publications, New Delhi.
4. Srivastava, A.K. 2006, Medicinal Plants, International Book Distributors, Dehradun.
5. Agarwal,O.P. 1985, Vol. II, Chemistry of organic – natural products. S Chand & Company, New Delhi.
6. Gamble, J.S. and Fisher, 1921, CEC I, II, III Flora of the Presidency, Madras Volumes.
7. Mathew K.M., 1988, Flora of the Tamilnadu and Carnatic.

REFERENCE BOOKS

1. Nair, N.C and Henry, A.N. 1983, Flora of Tamil Nadu, India, Botanical Survey of India.
2. Chopra, R.N., Nagar S.L., and Chopra, I.C. 1956, Glossary of Indian Medicinal Plants.
3. Chopra, R.N., Chopra, I.C., Handa, K.L., and Kapur L.D., 1994, Indigenous drugs of India.
4. Miller, L and Miller, B. 2017. Ayurveda & Aromatherapy: The Earth Essential Guide to Ancient Wisdom and Modern Healing. *Motilal Banarsidass, Fourth edition.*
5. Patri, F and Silano, V. 2002. Plants in cosmetics: Plants and plant preparations used as ingredients for cosmetic products - Volume 1. ISBN 978-92-871-8474-0, pp 218.

Course code 23UBYN22	PO1	PO2	PO 3	PO4	PO 5	PO 6	PO 7
CO1	3	3	3	3	2	2	2
CO2	3	3	3	3	2	2	2
CO3	3	3	3	3	2	2	2
CO4	3	3	3	3	2	2	2
CO5	3	3	3	3	2	2	2

Strong (3) Medium (2) Low (1)

Dr. B. Karunaiselvi
Head of the Department

Dr.R.Sreebha
Course Designer



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NATIONAL CADET CORPS NON MAJOR ELECTIVE COURSE (2023-2024 onwards)

Semester I	Cadet Corps for Career Development I	Hours/Week: 2	
NME -1		Credits: 2	
Course Code 23UNCN11		Internal 25	External 75

COURSE OUTCOMES

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

CO1: define military history, war strategies, weapon handling of small arms and ecological concepts [K1]

CO2: identify various wars, maps, weapons, interview techniques, energy and pollution [K2]

CO3: Illustrate the background of wars prescribed, the defence selection process and requirements and various types of pollution. [K2]

CO4: Identify the cause and consequence of threats to public welfare and techniques to crack exams. [K3]

CO5: Apply the strategies used in post-independence wars, in weapon handling, in pollution management and interview skills in real life situation. [K3]

UNIT I Military History

Indo- Pakistan War-1965, 1971 and 1999-Kargil Operation

Defence Ranks and Badges

UNIT II Map Reading

Types of Maps, Conventional Signs and Grid references, Prismatic Compass, Types of North, Finding Own Position

UNIT III Infantry Weapons and Equipment

Rifle, SLR, LMG, Loading and Unloading of Rifles, Principles of Firing

UNIT IV Ecology

Pollution and its types, Energy Conservation and Non-Conventional Energy Sources

UNIT V Service Selection Board

Introduction to SSB interview process

ASSIGNMENT

Map reading- Demonstrating grid references

TEXT BOOKS

NCC HAND BOOK (Prescribed by DG NCC)

REFERENCE

https://gcsanjauli.edu.in/files/ncc/prc_5.pdf

<https://indiancc.nic.in/>

Course Code 23UNCN11	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	H	M	M	M	L	H	H
CO2	H	M	M	M	L	H	H
CO3	H	M	M	M	L	H	H
CO4	H	M	M	H	L	H	H
CO5	H	H	H	H	L	H	H

Lt.E.Kalpana
Head of the Department

Lt.E.Kalpana
Course Designer



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NATIONAL CADET CORPS NON MAJOR ELECTIVE COURSE (2023-2024 onwards)

Semester II	Cadet Corps for Career Development II	Hours/Week: 2	
NME -2		Credits: 2	
Course Code 23UNCN21		Internal 25	External 75

COURSE OUTCOMES

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

CO1: describe the 1962 Indo-China war, eminent military personalities, and ways and means of first aid. [K1]

CO2: define the role of war heroes, field signals, solution for emergencies and necessity of national integration. [K1]

CO3: explain the war practices, first aid measures and the necessity of national integration. [K2]

CO4: discuss emergency situation regionally, personally and socially. [K2]

CO5: apply the practical knowledge gained to real life situation. [K3]

UNIT I Military History

Indo- China war 1962

Biography- General Cariappa, F.M.Sam Manekshaw, Sub.Bana Singh

Gallantry Awards and Medals

UNIT II Field Craft

Types of Covers, Concealment, Camouflage, Judging Distance

UNIT III Battle Craft

Field Signals, Section Formation

UNIT IV First Aid

Definition of First Aid, Types of Bandages, First Aid for Haemorrhage, Fracture, Burn and Scalds, snake bite, dog bite.

UNIT V National Integration

Main Hindrance of National Integration, Aims of National Integration Camp

ASSIGNMENT

Any First Aid Demonstration of CPR- 10 marks

TEXT BOOKS

Natrajan,N.K.SSB Interview.Mumbai:Jaico Publishing House,2021.print

NCC HAND BOOK (Prescribed by DG NCC)

REFERENCE

https://gcsanjauli.edu.in/files/ncc/prc_5.pdf

<https://indiancc.nic.in/>

Course Code 23UNCN21	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	3	2	2	2	1	3	2
CO2	3	2	2	2	1	3	2
CO3	3	2	2	2	1	3	2
CO4	3	2	2	3	1	3	3
CO5	3	2	3	3	1	3	2

Lt.E.Kalpana

Head of the Department

Lt.E.Kalpana

Course Designer