VIMALA COLLEGE (AUTONOMOUS), THRISSUR

POs, PSOs and COs

(Academic Year 2018-2019)

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

PROGRAMME OUTCOMES, PROGRAMME SPECIFIC OUTCOMES
& COURSE OUTCOMES

2018-19

PROGRAMME OUTCOMES

Programme Outcome for PG students
At the end of the PG programme, students will have (been)

1. Acquired core knowledge, both enduring and contemporary.

2. Cultivated an aptitude for research and passion for lifelong learning.

3. Sufficiently Informed to respond pragmatically and judiciously to current developments / issues—

    be it local,regional, national or global.
4. Internalized the ability to source and utilize information.

5. Moulded for the spontaneous expression of creativity to connect, modify, expand and develop.

6. Acquired the expertise to apply knowledge for environmental sustenance.

7. Incorporated disciplinary, interdisciplinary and supra-disciplinary fields of study to understand, analyze and

    solveproblems.
8. Equipped with the competencies to respond to one's calling, be it employment, entrepreneurship, self engagement, service, or any other.

9. Procured empowerment for self enhancement and betterment of others, for common good and social

    welfare.

10. Discerned the precepts of professionalism and professional ethics.

Programme Outcome for UG students
At the end of UG programme, students will have (been)

1. Acquired good subject knowledge.

2. Cultivated intellectual curiosity and love for learning.

3. Acquired a sound foundation for student progression.

4. Comprehended the nuances of research and research ethics.

5. Obtained fluency in language and ability for effective communication.

Academic Year (2018-2019)

6. Obtained problem solving and analytical skills.

7. Explored multidisciplinary domains for proficiency (communication, dependability, team work).

8. Imbibed sound values and principles.

9. Explored knowledge and learning for environment sustenance.

10. Ability to collaborate for common good and social welfare.

Additional Institutional outcomes

At the end of the programme a Vimalite will have

- Comprehended the rights and responsibilities of good citizenship

- Acquired life skills, values and competence to meet the demands and challenges of everyday life.

- Demonstrated the employment of various literacies like textual, literary, scientific, artistic, numerical, technological.

- Explored the path of self discovery for the expression of one's own talents, passion and dedication

- Demonstrated logical decision making and prudent reasoning when challenged with ethical problems

M A ENGLISH

PROGRAMME SPECIFIC OUTCOMES

PSO1	Know the recent developments in language and literature
PSO2	Develop theory-based evaluation and analysis of literary texts
PSO3	Interpret the structure and evolution of language from different points of views
PSO4	Understand the historical development of English literature from Old English to the present
PSO5	Employ the acquired knowledge in criticism and interpretation in a variety of contexts

COURSE OUTCOMES

M A ENGLISH

COURSES	COURSE OUTCOMES
VPEG1CO1 British Literature from the Age of Chaucer to the Eighteenth Century	Outline the literary characteristics from the age of Chaucer to Eighteenth Century

Academic Year (2018-2019)

	Comprehend the works of major poetsof the Eighteenth Century
	Analyze the growth of different types of poetry during from ChaucerEighteenth Century
	Infer the social and political concerns embedded in the plays of eminentplaywrights.
VPEG1CO2 British Literature:The Nineteenth Century	Outline the history and literary characteristics of the Romantic andVictorian Age
	Comprehend the works of major poetsof the Nineteenth Century.
	Infer the social and political concerns embedded in the prose passages andplays
	Evaluate different nuances present inNineteenth Century fiction writings
ELECTIVE 1 British and ContinentalDrama	Understand the development of dramain England and the European continent
	Analyse the major developments, continuities and turning point in thehistory of England
	Evaluate the significant works of the playwrights in England and theEuropean continent
ELECTIVE 2 Writing for the Media	Define basic terminology of mediawriting
	Compile interviews, documentaries andeditorials
	Explain the basics of News writing andreporting
	Develop competency in news collection,news reporting and editing
VPEG2C03 Twentieth Century Literature up to World War II	Understand the literary characteristics ofTwentieth Century
	Comprehend the works of major poetsof the Twentieth Century.
	Infer the social and political concerns embedded in the plays of eminentplaywrights.
	Evaluate different nuances present inTwentieth Century fiction writings
VPEG2C04 Criticism and Theory	Introduction to the evaluation of literary criticism, Movements and schools ofthought.

Academic Year (2018-2019)

	Evaluation of the contribution of IndianAesthetics to Criticism.
	Develop a critical thinking and appreciation of Literary Works.
	Differentiate between criticism andtheory.
ELECTIVE 1 American Literature	Comprehend the history and evolutionof American literature through the ages
	Understand the various movements andconcerns of American literature
	Interpret some of the classic works ofdifferent American authors
	Develop an overview of the differentgenres of American literature
ELECTIVE 2 European Fiction in Translation	Analyse the history, geography, language and culture that shaped thetexts
	Examine the regional elements in theworks
	Compare the social, political, religiousand cultural contexts within which the texts are located.
	Acquire an understanding of major fictional modes In vogue in Europe from17th to 20th Century
VPEG3C05 Twentieth CenturyBritish Literature:Post 1940	Apply modern perspective reading inpoetry, drama and fiction
	Analyse how gender, race, caste, ethnicity, region and religion evolves inthe works
	Understand the concept and types of poetry, drama and fiction reflecting theage and its importance
VPEG3C06 English Language: History and Structure	Infer different elements of Semiology
	List the characteristics of humanlanguage.
	Explain the evolution of Englishlanguage.
	Analyze different types of wordformation in English.
	Classify different varieties of English
	Develop the techniques of pronounciation and perceive differenttypes of Grammar
ELECTIVE 1 Postcolonial Fiction and	Understand the nuances of Post ColonialTheory and concepts

Academic Year (2018-2019)

Drama	Analyse literary and cultural texts froma post colonial perspective
	Familiarise with diasporic writing andits peculiarities
	Understand the politics of historiographyand representation in the post colonia context
ELECTIVE 2 Film Studies	Classify major movements of worldcinema
	Distinguish major film genres
	Analyse selected film texts
	Appraise case studies of classic cinema
	Appraise case studies of classic cinema
VPEG4CO7 Indian EnglishLiterature	Understand the history and evolution ofIndian English Literature
	Develop an overview of the differentgenres of Indian writing in English
	Analyse the socio-political and cultural concerns embedded in the writings ofIndia
	Identify the elements of Indianness inthe different writings of India
ELECTIVE 1 Introduction to Children's Literature	Evaluate the place of Children's Literature in World Literature
	Create an acquaintance with the major authors in Children's Literature.
	Examine the various kinds of narrative techniques in Children's Literature
	Understand the evolution of Children's Literature.
ELECTIVE 2 American EthnicWriting	Understand the evolution and history ofAmerican Ethnic writing
	Understand the concept of ethnicity andmulticulturalism
	Comprehend the different ethnicmovements
	Understand the Black, Jewish, Japanese and Amerindian presences in Americanliteratures and their histories
	Perceive the social and political concerns embedded in the ethnicwritings

Academic Year (2018-2019)

Evaluate the religious and cultural aspects prominent in the Americanwritings	

B A ENGLISH
PROGRAMME SPECIFIC OUTCOMES

PSO1	Use English effectively in formal and informal situations
PSO2	Know various genres in English literature
PSO3	Develop interest in language and literature
PSO4	Appreciate literary works

COURSE OUTCOMES

B A English (Core Courses)

COURSES	COURSE OUTCOMES
VEG1BO1 Reading Poetry	Develop taste for poetry with theoreticalbasis
	Build an awareness about the culturaldiversity of the world literature with reference to poetry
	Develop the ability to distinguish between the writing styles of various authors
VEG2B02 - Reading Prose	Interpret the characteristics of variousprose forms
	Appraise the literary styles of eminentprose writers.
	Relate to various modes of prose writings in relation to their socio-historic and cultural contexts
	Apply critical thinking to examine prosewritings from different contexts
VEG3B03 - Reading Drama	Develop taste for drama with theoreticalbasis
	Infer various kinds of theatres andtechniques of drama

Academic Year (2018-2019)

	Build an awareness about the cultural diversity of the world literature withreference to drama
	Construction of attitudes, values andbehaviour and creation of roles and relationships to gain an understanding ofdramatic experience
	Develop the ability to distinguish between the writing styles of variousauthors
VEG3B04 - Reading Fiction	Interpret the characteristics of variousforms of fiction
	Appraise the literary styles of eminentfiction writers.
	Relate to various modes of fiction writings in relation to their socio-historic and cultural contexts
	Apply critical thinking to examine fiction writings from different contexts
VEG4B05, Modern English **Literature**	Identify different literary movementsand their characteristics.
	List the contributions of major literary theorists.
	. Examine the various aspects of novel
	Examine the use of language in poetry
	Identify the socio-economic background presented in plays.
VEG4B06 - Methodology of Humanities	Identify the specific defining features of Humanities
	Outline the origin and evolution of Humanities
	Categorize the major Indian philosophies and Schools of thought
	Distinguish between the methodologies of Natural Sciences, Social Sciences and Humanities
	Comprehend the inter relationship between language, culture and identity
	Examine social realities through discourses and ideologies
VEG5B07 - Indian Writing	Understand the history and evolution of Indian English Literature

Academic Year (2018-2019)

in English	Develop an overview of the different genres of Indian writing in English
	Analyse the socio-political and cultural concerns embedded in the writings of India
	Identify the elements of Indianness in the different writings of India
VEG5B08 Language & Linguistics	Understand the origin of language through the various related theories.
	Locate the evolution of language and its functional aspects.
	Comprehend the significance of linguistics as a tool in the study of language.
	Examine speech mechanism and articulation of sounds.
	Assess language as a system by exploring its morphological, semantic and syntactic levels.
	Understand the major concepts of modern linguistics and its interdisciplinary dimensions.
VEG5B09 MethodologyofLiterature	Identify different traits of literature
	Distinguish between literature and otherdiscourses
	Discover different varieties of Englishliteratures.
	Understand the various textualapproaches
	Analyze texts based on certaintheoretical frames.
VEG5B10 Informatics	Understand the history and types ofcomputers
	Analyse the function of hardware incomputers
	Apply the software tools for bettercommunication skills
	Create multimedia content
	Evaluate the security issues in the digitalscenario
VEG5DO1 Film Studies	Classify major movements of worldcinema
	Distinguish major film genres

Academic Year (2018-2019)

	Analyse selected film texts
	Appraise case studies of classic cinema
	Appraise case studies of classic cinema
VEG6B12 Literary Criticism &Theory	Introduction to the evaluation of literary criticism, Movements and schools ofthought.
	Evaluation of the contribution of IndianAesthetics to Criticism.
	Develop a critical thinking and appreciation of Literary Works.
	Differentiate between criticism andtheory.
VEG6B13 Literatures in English: American & Post Colonial	Understand the nation's culturalidentity-ancestry, heritage, language, physical appearance through varied literatures in English.
	Analyze the effects of colonization andimperialism on colonies.
	Identify how new forms of imperialismreplace colonization.
	Comprehend the implications of theAmerican dream in their lives.
VEG6B14 Women's Writing	Identify concepts of class, race and gender through poems and stories in literature
	Understand evolution of feminist movements through the various ages of English writers
	Evaluate the different female experiences addressed in variousliterary genres
	Create an awareness of femalesubjugation by utilizing literary theory
	Analyze patriarchal norms to enhancecritical thinking
VEG6B15 Writing For the Media	Infer the role of journalism, advertising in a democratic society and nature ofnews
	Compare the difference between print media, electronic media and digitalmedia

Academic Year (2018-2019)

	Develop competency in online writing, blog, social networking sites andtechnical writing
	Apply media writing skills
VEG6E01 World Classics in Translation	Introduce literatures other than Englishliterature to the students
	Create a spirit of enquiry and exploration into world literature
	To form a broad vision of life by exposing the students to the various problems / situations of life
	Analyse the concepts of different genresof literature

B A FUCTIONAL ENGLISH

PROGRAMME SPECIFIC OUTCOMES

PSO1	Use English language required to perform specific functions
PSO2	Operate language confidently effectively and independently
PSO3	Develop interest in language and literature
PSO4	Employ the acquired knowledge in criticism and interpretation in a variety of contexts

COURSE OUTCOMES

B A FUNCTIONAL ENGLISH

COURSES	**COURSE OUTCOMES**
VFE1BO1 Oral Communication Practice	Develop confidence to respond inEnglish in various contexts
	Develop confidence to respond inEnglish in various contexts
	Develop speaking skills required for group discussions and formal orextempore speeches in English
	Develop team work and leadership skillsfor future workplaces

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

VFE2B02 Communicative Grammar	Explain the basic concepts of grammar
	Identify the different parts of speech
	Construct different types of sentences
	Understand the relevance of mechanicsand stylistic conventions in academic writing
	Make use of MLA style sheet for writing and documentation in academicpapers
VFE3B03 English and Communication Technology	Understand the history and types ofcomputers
	Analyse the function of hardware incomputers
	Apply the software tools for bettercommunication skills
	Create multimedia content
	Evaluate the security issues in the digitalscenario
VFE3BO4 Applied Phonetics	To identify and categorise distinct English sounds, its production and thevaried phonetics symbols.
	Classify the various phonemes and explain the realisational differencesincluding allophonic variations.
	Understand the importance of organs of speech in the production and articulationof a speech sound.
	Use phonetic symbols for transcription.
	Illustrate syllable divisions and breathgroups.
	Determine stress patterns in given wordsand sentences.
	List all intonation patterns in English and identify semantic changes due totheir differences.
	Identify and explain the differences between British and American English.
VFE3CO3 Foundations of Aesthetics and criticism	Explain the various concepts of Eastern and Western Classical LiteraryCriticism.

Academic Year (2018-2019)

	Compare and contrast both Eastern and Western Classical Foundations
	Analyze the different Indian Aesthetic Theories.
	Assess an evolution of English criticism.
	Survey the major literary movements and poetic devices
	Relate different writers with their main ideas with reference to the main critical texts written by them.
VFE4B05 Introduction To Linguistics	Define language and list all its characteristics.
	List the contributions of major linguists.
	Compare human and animal communication.
	Utilise key concepts in linguistics to comprehend language.
	Examine the various branches of linguistics.
VFE4B06 English for Business Communication	Understand business correspondence.
	Define business terms and understand usages
	Develop Presentation skills
	Comprehend and plan outline of meetings.
	Develop business communication
	Analyse various steps in the process of editing and proof reading
VFE4CO4 American Literature	Comprehend the history and evolution of American literature through the ages
	Understand the various movements and concerns of American literature
	Interpret some of the classic works of different American authors
	Develop an overview of the different genres of American literature

Academic Year (2018-2019)

VFE5B07 Creative Writing	Understand and appreciate variouswriting styles
	Evaluate one's personality and others based on the physiological and psychological aspects of personality
	Apply leadership qualities
	Analyse and resolve conflicts and motivate others for their well being
VFE5B08 Functional English for Print Media	Create in the student an awareness of the basic theories and concepts related to communication and to give them basic training in writing for the newspaper.
	Introduce mass media and the characteristics of mass media to students
	Familiarize them with the history and fundamentals of print media newspaper
	Introduce mass media and the characteristics of mass media to students
VFE5B09 Theatre for Communication	Understand the history of theatre andperformance
	Analyse plays in relation to history,theory and culture
	Understand modern theatre practices
	Demonstrate ideas through dramaticforms and theatre conventions
VFE5B10 Contemporary Literary and Cultural Theory	Introduction to the evaluation of literarycriticism, Movements and schools of thought.
	Evaluation of the contribution of IndianAesthetics to Criticism.
	Develop a critical thinking and appreciation of Literary Works.
	Differentiate between criticism andtheory.
VFE6B11 English Language Teaching	Understand the scope and potential ofEnglish as a universal language
	Analysethe crucial role of the teacher asthe facilitator, team player and organiser
	Apply the theories of second languagelearning in teaching environment

Academic Year (2018-2019)

	Evaluate the approaches, methods andtechniques in ELT
	Create lesson plan incorporating teaching aids and activities to develop LSRW
VFE6B12 Functional English for Electronic Media	Detail the history and fundamentals ofelectronic media
	Script radio talk, interviews,documentaries and drama
	Understand the basics of TV programproduction
	Develop competency in online writing- Blog, social networking sites, technical writing
VFE6B13 Translation Studies	Get to know literatures ofvarious languages.
	Understand the cultures behindlanguages.
	Identify various aspects of language skills in an individual.
	Express one's thoughts indifferent languages.
VFE6B14 Introduction to Film Studies	Classify major movements of worldcinema
	Distinguish major film genres
	Analyse selected film texts
	Appraise case studies of classic cinema
VFE6B15 Elective 1 – Language for Advertising: Theory and Practice	Understand the techniques andprocedure involved in advertisementproduction.
	Identify the role of advertising in themarketing field.
	Comprehend the importance ofadvertisement in the present scenario.
	Create advertisement copy with properstructure and components
	Analyze the different types of advertisements in terms of creativity.

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

M.A MALAYALAM

PROGRAMME SPECIFIC OUTCOMES

PSO1	Develop analytical and critical ability to the contemporary aesthetical and theoretical aspects of literature and make new contributions to literature.
PSO2	Develop skills in language for publishing/online writing, translating, media interpretation.

COURSE OUTCOMES

COURSES	OUTCOME
VPML1C01 - Ancient Malayalam prose	Understand the origin of MalayalamLiterature
	Introduce and analyze Ancient proseforms.
	Analyze the Ancient manuscripts.
	Understand the structural organization and function of intra cellular organelles
	Analyze the Ancient Gadya writings..
	Modernization of Malayalam languagetill the period of printing
	Analyze the development of modernprose and the scope of translation.
	Analyze the development of Malayalamcomputing
	Understand the formation and development of Malayalam scripts
VPMLICO2 - Ancient Malayalam Poetry	Understand the origin of Malayalampoetry
	Introduce and analyze Ancient poetryforms
	Analyze the ancient poems
	Analyze the different language patternsthat present in ancient poems.
	Understand the influence of other languages in the development ofMalayalam poetry

Academic Year (2018-2019)

	Analyze and criticize the periods of Malayalam poetry till themodernization.	
VPMLICO3 Modern Poetry	History of Malayalam poetry aftermedieval period	
	Understand the different stages of poetry in the period of modernization.	
	Analyze the change of language form inmodernity.	
	Criticize the form of Modern poetry	
	Read poems in a new way of aestheticswith critical thinking.	
VPMLIE14 Sthree,dalith, Paristithy Literature	Understand the definitions of feminine, Dalith and ecology in the background of literature.	
	Analyze the literacy works on the basis of feminist, dalith and eco aesthetictheories.	
	Understand the technical language patterns that represent peculiarideologies.	
	Read the literacy works on the basis ofnew critical approaches.	
	Analyze the postmodern perspectives ofliterature	

VPML2CO5 Modern Malayalam prose	Understand the transition period ofMalayalam prose from ancient stage.
	Analyze the modernization proses under which the prose has to bechanged
	Familiar the different prose texts in theModern period
	Criticize the modern Malayalam
	Understand the cultural background ofMalayalam modern poetry.
VPML2CO6 Malayalam Grammar	Understand the origin of Malayalamgrammar.
	Analyze Malayalam Alphabet andunderstand different opinions of grammaticians.

Academic Year (2018-2019)

	Compare 'Keralapanineeyam' and'Vyakaranamithram' two works in grammar.	
	Analyze the discussions on 'Keralapanineeyam', book by A.R.Rajarajavarmma	
	Compare different opinions of grammatarians about the process ofMalayalam grammar	
VPML2CO7 Linguistics	Understand the theories in Linguistics	
	Analyze the Malayalam on the basis oflinguistic theories	
	Analyze different discourses ofMalayalam language	
	Understand the dialectology ofMalayalam language	
	Understand the development andchanging process of Malayalam language	
VPML2E/8 Kunchan Nambiar – (special study)	Identify the contributions of aMalayalam poet	
	Understand the major contributions of Kunchan Nambiar, Malayalam poet in18th century in Kerala	
	Cultural bachground of particular poetin Kerala	
	Analyze the language form, way of presentation and the representation ofpeople in Kerala in those poems	
	Identify the peculiar characters of onepoet especially in the ancient period	
VPML3CO9 Ancient Literary Theories	Understand the history of eastern literary theories and literary forms inKerala literature	
	Identify the influence of Indian literarytheories in Malayalam criticism	
	Understand different Indian literarytheories	
	Introduce Ancient eastern poets	
	Historical analysis of literary criticism	

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Cultural Analysis of different literary forms on the basis of Indian literarytheories
	Cultural study through eastern criticism
	Compare eastern and western literarytheories and literature
VPML3CO10 Kerala Culture	Understand Ancient history & cultureof Kerala
	Analyze tribal culture
	Analyze the influence of foreign cultures
	The influence of sangam age
	Analyze and criticize the period of Dutch, French, Portuguese and English foreign cultures in Kerala
	Analyze the renaissance in Keralahistory
VPML3E3/12 Popular literature	Understand different stages of culture
	Analyze the history of popularliterature in Malayalam
	Development of Malayalam literaturethrough popular culture
	Influence of publishers in the area ofpopular literature
VPML4CO13 Modern Literary theories	Understand the period of modernity inthe basis of literary changes
	Study the influence of western literarytheories in Malayalam criticism
	Introduce the western and modernliterary theories

Academic Year (2018-2019)

VPML4CO14 Vivarthanam- Thathvavum Prayogavum	Understand the theoretical and practicallevels of translation
	Identify aims and objectives of translation as an academic discipline
	To create basic linguistic and cultural competenceswith translational skills and knowledge intranslation studies
	Acquire the skill to do translation from malayalam to english and viceversa
	Find and list the areas wheretranslation is applicable
	Understand the different methodsand techniques in translation
	To explore different culture throughtranslation
	Analyze the problems in translation and to show ways and means ofsolving them.
	Find the job fields in translation as a profession.
VPML4E4/16 Folklore	Understand the folk tradition,culture, and history.
	Examine the relation and relation-morality to literacy and literacy tomorality.
	Identify the' The Collective Identity'.
	Trace the history and developmentof folklore studies.
	Understand the origin of folkloristic in academic bodies.
	Understand the different folk genreand its influence in literature.
	Analyze the folk literature.
	Trace the study of Kerala folklore and its origin & development.
	Explore the folk tradition in Keralaculture and collectivity.

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

B.A MALAYALAM

PROGRAMME SPECIFIC OUTCOMES

PSO1	Understand the evolution morphology of Malayalam language and Literature.
PSO2	Understand and critics cent temporary aesthetical and theoretical aspects of Literature and make contributions of literature.
PSO3	Develop skills in language for publishing/online writing, translating, and media interpretation.

COURSE OUTCOMES

COURSES	OUTCOME
VML1BO1 Malayalam Kavitha – Navothanaghattam	General Awareness about ModernMalayalam poetry.
	Introduce the history & development of modern Malayalam poetry.
	Understand new narratives of modern Malayalam poetry.
	Introduce the new perspectives of modern Malayalam poetry.
VML2BO2 Malayalam Cherukathasahithyam	General awareness about Malayalam short story
	Introduce the history of Malayalam Short Stories
	Understand the history & different stages of Malayalam short story
	Inculcate Creative Skills
VML3BO3 Malayalam Kavitha -Utharaghattam	General awareness about modern Malayalam poetry
	Introduce the history & development of modern Malayalam poetry.
	Understand new narratives of modern Malayalam poetry.
	Introduce the new perspectives of modern Malayalam poetry.
VML3BO4 Malayalam Drama	General awareness about Malayalam Drama

Academic Year (2018-2019)

	Introduce the history of Malayalam Drama
	Understand the influence of drama in the society
	Understand the techniques of modern Malayalam Drama
VML4BO5 Language History&Linguistics	Understand the theories of linguistics
	Analyze different discourse of Malayalam language.
	Understand the history and development of Malayalam language
	Compare language and society
VML4BO6 Malayalam Novalsahithyam	General awareness about Malayalam novel.
	Introduce the history of Malayalam novel& short stories.
	Understand the history & differentstages of Malayalam Novel.
	Introduce Translated Novels
VML5BO7 Malayalam Grammar	Understand The Theories of Malayalam Grammar.
	Analyze Malayalam LanguageUsages.
	Create Own Conclusions About Malayalam Grammatical Usages
	Compare Different Grammatical Theories with Kerala panineeyam.
VML5BO8 Course Title- – Western LiteraryTheories	Understand The Western LiteraryTheories.
	Identify The Greek-Anglo LiteraryCritics.
	Aquaria Critical. Skills throughCritical Works.
	Historical Analysis of WesternLiterary Theories.
VML5BO9 Malayalam Sahithyavimarsanam	General awareness about Malayalam Criticism
	Introduce the history of Malayalam Criticism.

Academic Year (2018-2019)

	Understand Different Theories ofCriticism.
	Apply the Theories to TheLiterary Works.
VML5B10 Folklore	Understand the Folk Tradition,Culture, And History.
	Identify the' The CollectiveIdentity'.
	Trace the History and Development of Folklore Studies.
	Explore the Folk Tradition in Kerala Culture and Collectivity.
VML5DO1 ChalachithraPadanam	Understand the Film as a Medium of Contemporary Society
	Study the History and Development of Film Art
	Aware and Analyze the Criticism and Study of Films.
	Awareness on how to create ashort film-campus film-documentary
VML6B11 Course Title- Ancient MalayalamPoetry	Understand ancient Malayalam literary periods.
	Introduce Ancient MalayalamLiterary Forms.
	Understand the Features of Manipravalam Poetry.
	Understand the Features of Champukavyams.
VML6B12 Course Title- Gadyasahithyam	Understand the History and Development of Malayalam Prose.
	Introduce Medieval Malayalam Prose.

Academic Year (2018-2019)

	Understand the Features of Malayalam Gadyam.
	Understand the Features of Ancient Malayalam Manuscripts.
VML6B13 Course Title- Eastern Literary Theories- Pacheenam	Understand the Eastern LiteraryTheories.
	Understand Different Theories of Eastern Literary Criticism.
	Acquire critical skills through literary theories.
	Historical analysis of eastern literary theories.
VML6B14 Course Title- Navasamskarapadana ngal	Aware Different Culture Patterns
	Study Different Cultural Stages of Kerala
	Aware The Cultural Backgroundof Literary Works
	Create the ability to criticize different culture of literature
VML6EO2 Vivarthanam	Understand the theoratical and practical levels of translation
	Identify aims and objectives of translation as an academic discipline
	To create basic linguistic and cultural competences with translational skills and knowledge in translation studies.
	Acquire the skill to do translation from Malayalam to English and vice versa
	Find and list the areas wheretranslation is applicable
	Understand the different methods and technic in translation
	To explore different culture through translation
	Analyze the problems in translation and to show ways and means of solving them.

Academic Year (2018-2019)

	Find the job fields in translationas a profession
COURSECODE – VMLA01,A02,A03 , A04 COURSE TITLE- – MALAYALASAHIT HYAM 1 2 3 4	General awareness about Malayalam literature

Introduce the different literaryforms
Introduce Malayalam e contentInculcate creative skills |

MALAYALAM (COMPLEMENTARYCOURSE)

COURSE CODE - VML1CO2,VML2 C O2,VML3CO2,V ML 4CO2 CORSE TITLE- Keralapadanam- Poorvakalakeralam, Madhyakalakeralam, - Adhiniveshakalakeral am, - Adhunikakeralam	Understand the renaissance and reformation movements of Kerala

Analyze the continuous developments of Kerala through Dalit -women-educational and agricultural movements

Understand the Kerala state formation and five year plans and Kerala development model

The influence of socio –cultural aspects in the economic development of Kerala and analyzeand the contribution of emigrants

Introduce and analyze art forms of Kerala |

SANSKRIT UG & PG COMMON & COMPLEMENTARY PROGRAMME:

PROGRAMME SPECIFIC OUTCOMES

PSO1	Internalize basic structure of Sanskrit Language.
PSO2	Develop interacting and communicating skills in Sanskrit.
PSO3	Understand the ancient Indian tradition and culture through a critical approach.
PSO4	Develop an analytic method and critical thinking in Sanskrit literature and regional cultures.
PSO5	Evaluate the traditional knowledge and relate it to contemporary socio-culturalscenario.

Academic Year (2018-2019)

PSO6	Acquire the ability to live fruitfully in the society imbibing traditional values andto discharge duties and responsibilities as ideal citizens.

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
VSK 3 C 03: PART A Poetry, Grammar & Translation	To make the student aware of the style of Sanskrit kavyas in general. Appreciation of Poetry. Identification of Vibhaktis of words in the verse. Compare the similar contexts from Malayalam literature. To teach the student the fundamental principles of Sanskrit grammar. To develop the skill of translating verses from Sanskrit to regional language.
VSK 3 C 03: PART B : Prose, Basic Grammar And Translation	Make the students aware of the prose literature in Sanskrit. Familiarize the students with the basic principles of Sanskrit grammar. To identify Vibhaktis of words and Sandhis. Compare similar verses and prose literature from Malayalam literature. Acquire knowledge in Linguistics changes. Enable the students to translate Sanskrit passages to Malayalam.
VSK 4 C 04: PART A: Kerala Contribution To Sanskrit	The course aims at introducing the contribution of Kerala scholars in Sanskrit which forms a very important part in Sanskrit literature**.** To introduce the student the wealth of knowledge preserved in Sanskrit byKerala Scholars Familiarize the students the main Indianbranches like Philosophy, Literature, Ayurveda, Jyotissastra, Ganita andVastuvidya.
VSK 4 C 04 : PART B Drama and keralasanskrit theatre	To familiarize Sanskrit dramas to thestudents. To familiarize Bhasa and his plays. To familiarize the enactment of Sanskritdrama and other theatres of Kerala
VSK 1 A 01: Kavya Literature and Applied Grammar	Attain general Kavya Literature Evaluate the Sanskrit Kavya Literature,its origin and development. Understand the poetic genius of Kalidasa. Familiarize with the Sanskrit Mahakavya style in detail through thestudy of Raghuvamsa. Understand the tradition of SanskritLyrics. Cultivate moral values among studentsthrough the study of Subhashitas Understand the basic principles ofgrammar.
VSK 2 A 02 : Prose And Applied Grammar	Attain generalprose literature. Understand the history and greatness ofSanskrit prose literature. Evaluate modern Sanskrit prose literature through the study of Mrcchakatikakathasangraha. Understand the tradition of Sanskritfables.

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Get familiarize with the Sanskrit fables in detail through the study ofPancatantra. Understand the basic principles ofgrammar. Course Outline
VSK 3 A 03: Drama And Alankara	To know about the generalcharacteristics of Sanskrit drama. To familiarize with the division ofSanskrit drama and famous dramatists. Appreciation of the dramas of Bhasawith a critical approach. Cultivate the culture of appreciation ofSanskrit drama among students. Make the students to know about thegeneral features of Alankaras in literature and how far it is useful in theappreciation of literature.
VSK 4 A 04: History Of Sanskrit Literature and Kerala Culture	To familiarize the general features ofItihsas. To familiarize Historical Kavyas andCampu Kavya in Sanskrits. To enable the students to translate from Sanskrit to English and Vice versa are intended here. To introduce the Major Sanskrit worksand Authors of Kerala to impart a general a awaraness of Kerala Culture.
Basic Sanskrit- I VPML3C11: Poetry And Grammar	To understand Sanskrit KavyaLiterature, its origin and development. To familiarize with Mahakavyas To familiarize with Kalidasa Literature To familiarize with the Sanskritgrammar like Sandhi, Samasa, Dhatuetc.
BASIC SANSKRIT- II VPML4C15: Drama, DramaturgyAnd Poetics	To understand the history and development of Sanskrit Drama. An appreciation of ten Rupakas in general. To familiarize with the dramas of
VSK 3 A 03: Drama And Alankara	To know about the generalcharacteristics of Sanskrit drama. To familiarize with the division ofSanskrit drama and famous dramatists. Appreciation of the dramas of Bhasawith a critical approach. Cultivate the culture of appreciation ofSanskrit drama among students. Make the students to know about thegeneral features of Alankaras in literature and how far it is useful in theappreciation of literature.
VSK 4 A 04: History Of Sanskrit Literature and Kerala Culture	To familiarize the general features ofItihsas. To familiarize Historical Kavyas andCampu Kavya in Sanskrits. To enable the students to translate from Sanskrit to English and Vice versa are intended here. To introduce the Major Sanskrit worksand Authors of Kerala to impart a general a awaraness of Kerala Culture.
Basic Sanskrit- I VPML3C11: Poetry And Grammar	To understand Sanskrit KavyaLiterature, its origin and development. To familiarize with Mahakavyas To familiarize with Kalidasa Literature To familiarize with the Sanskritgrammar like Sandhi, Samasa, Dhatuetc.

Academic Year (2018-2019)

BASIC SANSKRIT- II VPML4C15: Drama, Dramaturgy And Poetics	To understand the history anddevelopment of Sanskrit Drama. An appreciation of ten Rupakas ingeneral. To familiarize with the dramas of Bhasa. To evaluate Sanskrit poetic style and itsmajor divisions To understand basic grammar.

M.Sc MATHEMATICS

PROGRAMME SPECIFIC OUTCOMES

PSO1	Understand the relation between different branches of Mathematics like Real analysis, Complex analysis and Functional Analysis
PSO2	Understand the various Mathematical structures using Topology, Abstract Algebra, Differential Geometry and Discrete Mathematics.
PSO3	Understand Number system in Number Theory and Analytic Number theory.
PSO4	Solve real life problems using Differential equations, Fluid dynamics anLinear programming.

COURSE OUTCOMES

COURSES	**COURSE OUTCOMES**
VPMT1C01 Algebra - I	Understand the concept of Groups
	Apply group action on a set
	Understand the basics of Rings and Fields
VPMT1C02 Linear Algebra	Understand vector spaces and lineartransformations
	Application of inner product spaces
VPMT1C03 Real Analysis - I	Understand the definition and basicconcept Topology
	Analyselimits and continuity of Realnumbers
	Apply methods of differentiation
	AnalyseSequences and Series of Functions - Discussion of Main problem, Uniform convergence, Uniform convergence and continuity, The Stone – Weierstrass Theorem.
VPMT1C04 - ODE and Calculus of Variations	Interpret and analyse Power SeriesSolutions and Special functions

Academic Year (2018-2019)

	Understand Systems of First OrderEquations; Nonlinear Equations
	Understand and Analyse the Existence andUniqueness of Solutions, The Calculus of Variations.
VPMT1C05 Number Theory	Analyse and understand the ArithmeticalFunctions and Dirichlet Multiplication
	Understand the basic concepts and levels of Congruences, Quadric Residues andQuadratic Reciprocity Law.
	Study of Cryptography, Public Key andapply in real life problems.
VPMT2C06 - Algebra – II	Understand the concept of prime andmaximal ideals.
	Understand finite fields and automorphismof fields
	Understand splitting fields and separableextensions
	Understand Galois theory, cyclotomic extension and insolvability of the Quintic
VPMT2C07 Real Analysis - II	Understand the concepts of Lebesgue Outer measure, measurable sets and functions, Borel and Lebesgue measurability.
	Understand the concepts of functions of Bounded Variations. Lebesgue Differentiation theorem.
	Understand the concepts Signed measures, Hahn Decomposition, Jordan decomposition.
	Understand Riesz RepresentationTheorems
VPMT2C08 Topology – I	Understand Topological Spaces
	Understand Continuous Functions among topological spaces and quotient spaces
	Understand The Concept OfSeparation Axioms

Academic Year (2018-2019)

	Understand Urysohn Characterization of Normality
VPMT2C09 PDE and Integral Equations	Understand and analyse First Order PDE .
	Analyse and solving Second Order PDE
	Study of Integral Equations.
VPMT2C10 Discrete Mathematics	Study of Order Relations, Lattices; Boolean Algebra – Definition and Properties, Boolean Functions.
	Understand Graph
	Understand Matching and Covers – Maximum matchings, Hall's Matching conditions, Min-Max Theorems, Independent sets and Covers, Dominating Sets , Matching in general graphs, Coloring of graphs.
VPMT3C11 Complex Analysis	Understand Conformality, Linear Transformations, Elementary Conformal Mappings, Fundamental Theorems.
	Understand Cauchy's Integral Formula, Local Properties of Analytic Functions, The General Form of Cauchy's Theorem, Calculus of Residues.
	Analyse Harmonic functions, Power series Expansions, Simply Periodic Functions, Doubly Periodic Functions, The Weierstrass Theory.
VPMT3C12 Functional Analysis I	Understand Metric spaces and Continuous Functions
	Analyse Inner product spaces
	Analyse Banach spaces
VPMT3C13 Topology II	Understand Tietze Characterisation of Normality, Products and Co products
	Analyse Embedding and Metrization, The Fundamental Groups and Covering Spaces
	Study of Compactness, Complete Metric Spaces
VPMT3C14 Linear Programming and Its Applications	Apply the method of minimum spanning tree in solving minimum path problems
	Apply Simplex method or Dual Simplex Method to solve linear programming problems

Academic Year (2018-2019)

	Applying graphical method in solving problems of game theory
	Apply Kuhn-Tucker theory to solve convex and non linear programming problems
VPMT4C16 Differential Geometry	Analyze vector fields on surfaces
	Understand Geodesics and parallel transport
	Understand the concept of curvature and use this to find Arc length and lineintegrals.
	Understand local equivalence of surfacesand parametrized surfaces
VPMT4E04 Fluid Dynamics	Understand the concepts of equation ofmotion, equation of continuity ,energy equation and cyclic irrotational motion of a fluid and apply in solving problems
	Understand the concepts of stream lines, equation of stream lines and the circle theorem
	Understand the concepts of aerofoils ,joukowski transformation and theorem ofkutta and joukowski
	Understand the concepts of Stoke's streamfunction,airship forms and Rankin's solid

B.Sc MATHEMATICS

PROGRAMME SPECIFIC OUTCOMES

PSO1	Understand the foundations of mathematics and the importance of logic.
PSO2	Solve problems using differentiation, Linear algebra, Vector algebra and Numerical methods.
PSO3	Understand Abstract algebra, real number system , complex number system and natural number system.
PSO4	Solve real life problems using Differential equations and Linear programming.

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
VMT1B01 Foundations of	Understand Relations, Types and properties

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

Mathematics	Study of Functions and types of mathematical functions.
	Understand set classifications- finite,denumerable.
	Understand Limit concepts andcontinuity
	Study Basic Logic and logicalequivalences
VMT2B02 Calculus	Understand the fundamental theorem ofalgebra
	Understand the methods to solve polynomial equations of order up to four
	Apply matrix methods to solve a linearsystem of equations
	Understand vector valued functions andsome surfaces.
VMT3B03 Calculus and Analytic Geometry	Understand mean value theorem andfirst derivative test for extreme values
	Understand the concept of asymptotesand fundamental theorem of calculus
	Apply integration for calculating the area between curves and surface ofrevolution
	Understand the properties of evolutesand envelopes
VMT4B04 Theory Of Equations, Matrices and Vector Calculus	Understand the relations between the roots and co-efficients of a polynomial equation and apply in finding roots of varioustypes of equations
	Understand the concept of rank of a matrix and elementary transformationsand apply in solving linear systems
	Apply Cayley Hamilton theorem to findthe inverse of a matrix
	Understand vector valued functions andsome surfaces
VMT5B05 Vector Calculus	Understand the concept Multivariablefunctions
	Apply Double and Triple integrals
	Understand surfaces in parametrized form
	Apply Stokes' theorem
	Apply Divergence theorem
VMT5B06 Abstract Algebra	Understand the concept of binary operations and algebraic structures
	Understand the concept of groups
	Understand the concept of sub structures
	Understand Rings and its properties
VMT5B07 Basic Mathematical Analysis	Understand Real Numbers and properties
	Understand Completeness Property ofreal numbers

Academic Year (2018-2019)

	Understand Sequences ,series andconvergence and apply in solvingproblems
	Understand Intervals as subsets of **R** and subsets of **R** as intervals
	Understand Complex numbers and their representations
VMT5B08 Differential Equations	Understand classification of Differentialequations
	Understand First order,second order Differential equations
	Apply the methods to Solve differentialequations
	Understand Laplace Transforms
	Understand Partial DifferentialEquations
VMT5D03 Mathematics for Social Science	Understand functions
	Study integration and differentiation
VMT6B09 Real Analysis	Differentiate convergence and uniformconvergence
	State Cauchy criterion for uniformconvergence
	Compute integral of a step functionusing Trapezoidal method.
	Compute the different methods of approximate integration for a constantfunction.
	Determine whether a given function is continuous but not uniform continuous.
VMT6B10 Complex Analysis	Understand the concept of Functions ofcomplex variable
	Apply Cauchy's integral formula
	Understand Cauchy Residue theorem
	Application of Residues
VMT6B11 Numerical Methods	Understand Numerical Differentiation
	Apply Numerical Integration
	Understand Gauss elimination
	Numerical Solutions of OrdinaryDifferential Equations

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

VMT6B12 Number theory and linear algebra	Understand Division algorithm andapply in problems
	Understand the properties of primenumbers
	Understand the concept of vector spaces
	Understand Linear transformation
	Apply Rank nullity Theorem
VMT6E01 Linear Programming	Understand convex sets and GeneralLPP
	Apply Simplex method
	Understand Duality and apply in solvingproblems
	Apply Transportation problem
	Apply Assignment problem

MATHEMATICS COMPLEMENTARY

VMT 1 CO1- Mathematics	Understand Limits, concepts, continuity, derivative and linear approximation ofcurves
	Analyse Rates of change
	Apply The concepts of graphing
	Analyse determination of Mean value
VMT2C02- Mathematics	Understand hyperbolic functions, itsinverse, derivatives and integrals
	Apply the integrals to find area betweencurves, area of surfaces, volumes, length
	Understand hyperbolic functions, itsinverse, derivatives and integrals
	Apply the integrals to find area betweencurves, area of surfaces, volumes, length
	Understand sequences,series and theirconvergence.
	Understand polar coordinates.
	Understand functions of severalvariables.
	Apply chain rule to find the partial derivatives of composite functions of asingle variable.
VMT 3 CO3- Mathematics	Understand the category of linear andnon-linear Differential equations.
	Apply solution of first order differentialequations

Academic Year (2018-2019)

	Apply matrix methods to solve a linear system of equations
	Apply Vector calculus
VMT 4 CO4-Mathematics	Apply solution of second order differential equations using the methods of undetermined coefficients and variation of parameters
	Understand and analyse the Laplace and inverse Laplace transform of functions of one variable.
	Apply Fourier series for periodicfunctions.
	Analyse solutions of vibrating string and wave equations using Fourier series method

B Sc STATISTICS

PROGRAMME SPECIFIC OUTCOMES

PSO1	Demonstrate the ability to apply fundamental concepts in exploratory data analysis.
PSO2	Design studies for obtaining data whilst avoiding common design flaws that incur bias, inefficiency and confounding.
PSO3	Demonstrate an understanding of the basic concepts of probability and random variables.
PSO4	Understand the concept of the sampling distribution of a statistic, and in particular describe the behaviour of the sample mean.
PSO5	Apply inferential methods relating to the means of Normal distributions.

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
VST1B01- Basic Statisticsand Probability	To understand various approaches toprobability & compute probabilities.
VST2B02- Bivariate Random Variable andProbability Distributions	To understand the applications of theoreticaldiscrete distributions

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

VST3B03- StatisticalEstimation	To equip the students with the theory essential for estimation of unknown parameters
VST4B04- Testing ofHypothesis	Identify a suitable test of significance to test a given hypothesis -large sample test/smallsample test for testing different parameters
VST5B05- Mathematical Methods in Statistics	To introduce the mathematical conceptsrequired to learn theoretical statistics.
VST5B06- Statistical Computing	to develop scientific and experimental skillsof the students
VST5B07- Sample surveys	To equip students with Sampling Techniquesused in conducting sample surveys
VST5B08- Operations Research and Statistical QualityControl	To provide an insight into quality assessmenttechniques
VST6B09- Time Series andIndex Numbers	To expose statistics students to the areas of time series and index numbers
VST6B10- Design of Experiments	To discuss the analysis of data relating toagriculture, biological sciences and industry
VST6B11- Population Studiesand ActuarialScience	To impart basic concepts in populationstudies, actuarial science and vital statistics
VST6B12- Linear RegressionAnalysis	Describe the concepts of correlation & regression and perform regression analysis for the given data
VST6E01- Reliability Theory- Elective Paper	Compute reliability and life time or survivaltime of different real-life systems
BA ECONOMICS PROGRAMME	
ST5 D02- Economic Statistics- open course	To expose statistics students to the areas oftime series and index numbers

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

VEC3B03- Quantitative Methods forEconomic Analysis-I	To enable the advanced mathematical skillsin students and expose them to the basics ofstatistics
VEC4B05- QuantitativeMethods forEconomic Analysis-I	To impart the basics of probability alongwith time series, vital statistics and indexnumbers
VST1C01- Basic StatisticsAnd Probability	To understand various approaches to probability & compute descriptive statisticsof data
VST2C02- Probability Distributions	To understand the applications of theoretical discrete& continuous distributions
VST3C03- StatisticalInference	To equip the students with the theory essential for estimation of unknown parameters and testing of hypothesis
VST4C04- Applied Statistics	To expose students to the areas of time series and index numbers, Statistical Qualitycontrol and Analysis of Variance
VME1C01- Mathematical Economics	To understand the students to identify statistical tools to solve economic problems
VME2C02- MathematicalEconomics	To expose statistical tools to students to solveeconomic problems
VME3C03- MathematicalEconomics	To equip the students to identify statisticaltools to solve economic problems
VME4C04- MathematicalEconomics	To equip the students to identify statisticaltools to solve economic problems

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

M.SC PHYSICS

PROGRAMME SPECIFIC OUTCOMES

PSO1	Gain theoretical, mathematical , computational and experimental knowledge in Physics
PSO2	Understand material properties and matter energy interactions at macroscopic and microscopic levels
PSO3	Expertise in the areas of Material science ,Experimental Techniques and Modern optics.
PSO4	Carry out quality research in Physics resulting in original scientific project works.

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
VPPH1C01 Classical Mechanics	Understand the formalism of Lagrangianand Hamiltonian mechanics.
	Understand the classical background ofquantum mechanics.
	Understand and analyze the Kinematicsand Dynamics of Rigid Bodies:
	Formulation of the problem involvingsmall oscillations
	Understand the concepts of nonlineaequations and chaos
VPPH1C02 Mathematical Physics	Understand different Coordinate Systems and obtain the transformationequations
	Obtain various differential calculus operators in various coordinate systems.
	Understand the concept of matrices and tensors and apply them to variousproblems in Physical.
	Understand and solve second orderdifferential equations representing different physical problems
	Understand various special functions asthe solutions of second order differential equations and evaluate the value ofvarious coefficients.
	Understand and apply Fourier Transforms and Laplace transforms to evaluate Integrals.
VPPH1C03 Electrodynamics and Plasma Physics	Apply phasor formulation into Maxwell's equations, field and potential functions

Academic Year (2018-2019)

	Apply the concept of phasors into em wave propagation in lossless and lossymedia
	Develop the basic characteristics of TEM waves guided by transmission lines
	Develop the basic theories of em wave propagation in wave guides and cavity resonators
	Apply relativistic concepts to electrodynamics via tensor formulation
	Develop a basic knowledge of plasmaphysics
VPPH1C04 Electronics	Understand the concepts of Field Effect Transistors and Metal Oxide Semiconductor Field Effect Transistors
	Understand the internal architecture and the frequency response of Operational Amplifier
	Identify the use of Operational Amplifier invarious electronic application
	Identify the method for solving logical problem
	Understand the working of variouslogical processing devices
	Understand the internal architecture,instruction sets and machine cycle for operation of Microprocessor andMicrocontroller
	Solve the mathematical and logicalproblems using programming instruction for Microprocessor
VPPH2C05 Quantum Mechanics -I	Understand the basic concepts of linearvector spaces, operators and matrix representation of quantum mechanics
	Understand the fundamental postulates of quantum mechanics and uncertainity principle.
	Understand the quantum dynamics andthe evolution of a quantum mechanical system.
	Understand the concepts of angular momentum, addition of angular momentum and Pauli's spin matrices.

Academic Year (2018-2019)

	Identify the symmetries in space and time and recognize their corresponding conservation laws.
	Understand the symmetric and anti symmetric wavefunctions for bosons and fermions.
	Understand the theory of scattering and methods to solve low energy and high energy scattering
	Solve the problems on angular momentum and scattering
VPPH2C06 Mathematical Physics - II	Understand the basic concepts regarding complex variables and functions
	Understanding of complex integration and use it to evaluate definite integrals
	Understand the fundamentals of group theory
	Understanding the significance of group representations in physics
	Use Green's functions as a tool to solve differential equations
	Understand the various methods to solve integral equations
	Use Fourier series as a tool to evaluateperiodic functions
	Understand the two basic integral transforms as mathematical tools of physics
VPPH2C07 Statistical Mechanics	Understand relation between statistics and thermo dynamics of macroscopic and microscopic states.
	Understand the statistics and fluctuations of microstates in microcanonical, canonical and grandcanonical ensembles
	Understand the fundamental knowledgeof quantum statistical mechanics.
	Solve problems in classical andquantum statistical mechanics.
	Understand the thermodynamics ofblack body radiation and sound waves from the thermodynamics of ideal Bose system .

Academic Year (2018-2019)

	Understand the magnetic behaviour of an ideal Fermi gas using the thermodynamics of ideal Fermi system.
VPPH2C08 Computational Physics	Understand the basics of Python Language
	Understand the usage of set, list, tuple and dictionary, modules and functionsin Python
	Understand the iterations and looping inPython
	Understand the methods of creating arrays and matrices using Python to perform their basic operations
	Understand the methods of plotting using matplotlib functions in Python
	Bessel, Legendre, Gaussian and Gamma functions using Python
	Understand the various numerical methods and computational formulism involved in solving mathematical problems
	Solve familiar problems in physics using numerical methods in Python Language.
VPPH3C09 Quantum Mechanics -II	Understand the WKB approximation technique, Bohr Sommerfeld quantization and potential barrier penetration and apply it in problems.
	Understand time dependent perturbation theory for degenerate and non-degenerate systems and apply it in problems.
	Understand the technique of variational method and solve hydrogen atom andhelium atom problems.
	Understand time dependent perturbationtheory and apply it in problems.
	Understand the relativistic formulationof quantum mechanics.
	Understand canonical quantization offields.
VPPH3C10 Nuclear and Particle Physics	Understand the basic static nuclear properties and their measurement techniques

	Understand the characteristics from deuteron theory and theory of nucleon nucleon scattering
	Apply the single particle shell model andcollective model to estimate the spin, parity, electromagnetic moments of nuclides
	Understand the theory of beta decay and gamma decay
	Understand the different types of nuclear reaction and the energetics
	Understand theory and characteristics of nuclear fission and nuclear fusion indetail
	Understand the fundamental interactions, fundamental particles and quantum numbers
	Identify the nature of interactions using conservation laws
VPPH3C11 Solid State Physics	Understand the relation between crystalline structure, reciprocal latticeand X-ray diffraction data.
	Understand about different types of bondings in the solids and their properties.
	Understand the idea of Phonons and influence of lattice vibration on thermal behaviour.
	Solve problems on Einstein and Debyemodel of specific heat capacity.
	Understand how electrons and holes behave in semiconductors
	Understand the dielectric, ferroelectric properties
	Understand the magnetic behaviour ofcrystals.
	Understand the idea of superconductivity
	Solve problems on superconductivity
	Understand how light emitting diodes and solar cells work.
VPPH3E11 Experimental Techniques	Understand the construction and working of various instruments for creation and measurement of vacuum

	Learn the concept of thin films and various fabrication techniques for thinfilms
	Understand the importance of size effects on materials properties and various nanomaterial synthesis techniques
	Understand the techniques used for the production and maintenance of cryogenic temperatures
	Learn the Principle and techniques formeasurement of low temperature
	Understand the principle, working and merits and demerits of various particle accelerators
	Learn about various ion sources, the ionimplantation process and its applications
	Learn the methods used for thickness measurement of thin films
	Learn the various tools used for material characterisation
VPPH4C12 Spectroscopy (4C)	Understand the interaction of light with matter
	Understand the electronic structure and properties of atomic spectra and molecular spectra.
	Understand the concept of atomic energy levels and interaction between spin and orbital angular momentum of atomic electrons
	Understand the coupling schemes of atomic electrons and the term values for atomic states.
	Determine the possible spectral transitions in one electron and two electron atomic systems.
	Understand the effects of the magnetic field and electricfield on atomic spectra.
	Characterize materials using spectroscopic techniques.

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Understand instrumentation and applications of Microwave, Infrared, Raman,NMR,ESR and Mossbauer spectroscopic techniques.
	Solve problems in spectroscopy using suitable analysis methods
VPPH4E21 Materials Science	Estimate the type, number and energy associated with crystal imperfections
	Determine the phase compositions of binary alloy systems using phase diagrams, lever rule and tie-line rule
	Calculate the diffusion coefficient andactivation energy of diffusing atoms using the laws and theory of atomicdiffusion.
	Understand the concepts of plastic deformation, creep and fracture
	Determine the yield strength and fracture strength of a plastically deformed material
	Understand the structure, properties andapplications of polymer materials and ceramic materials.
	Estimate the degree of polymerization in polymer materials and composition of ceramic materials.
	Understand quantum theory of nano materials in one,two and three dimensions.
	Identify the applications of quantumwell, quantum wire and quantum dot structures to the field of quantumelectronic devices.
VPPH4E31 Modern Optics	Understand the electric field interactionwith isotropic and anisotropic media
	Understand the principle of magneto-optic, electro-optic and non-linear optical effects
	Understand the basic concept of coherence
	Solve problems in Fresnel and Fraunhoffer diffraction using Fresnel Kirchoff formula
	Understand the basic theory of multilayer films

Academic Year (2018-2019)

Represent optical phenomena in matrices using Jone's calculus	
Understand the use of Fouriertrans form techniques in diffraction .	

B.SC PHYSICS

PROGRAMME SPECIFIC OUTCOMES

PSO1	Understand the history and development of Physics and the methodology of science.
PSO2	Understand the material properties and matter energy interactions at the macroscopic and microscopic levels.
PSO3	Solve problems in Physics using Mathematical and computational techniques.

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
VPH1 B01 Methodology of Science and Physics	Understand the evolution of science and its laws
	Understand the concepts of Newtonian mechanics
	Solve problems using principles ofNewtonian mechanics
	Understand the equations and conceptsregarding motion, work and energy
	Solve problems in work and energy.
	Understand the concepts of angular momentum and torque in Mechanics.
	Solve numerical problems in angularmomentum
	Determine the elastic constants of asolid material.
VPH2 B02 Core Course II - Properties of Matter, Waves and Acoustics	Determine the elastic constants of asolid material.
	Understand the concepts harmonic,anharmonic and forced oscillations.
	Solve problems related to oscillations
	Understand the equations and concepts

Academic Year (2018-2019)

	regarding wave motion transverse andlongitudinal waves
	Solve problems in wave motion usingwave equations.
	Understand the properties of sound waves, production of ultrasonic wavesand acoustics of buildings.
	Solve numerical problems in acoustics
VPH3 B03 Core Course III – Mechanics	Understand the mechanics of inertial and non-inertial frames of reference and transformation equations
	Solve the problems involving inertialand non-inertial frames of reference
	Understand the concepts of conservationlaws for a system of particles and conservative force central force and non conservative forces
	Solve problems involving conservation laws of energy, linear momentum and angular momentum and conservative/central force nonconservative forces.
	Understand Gravitational Field ,potential and Kepler's laws from Newton's laws
	Understand the basic concepts of Lagrangian ,Hamiltonian and Symmetry & conservation Laws in Classical Mechanics.
	Understand the concepts from specialtheory of relativity, transformation equations, length contraction ,time dilation and four vector space
	Solve problems using relativisticconcepts
VPH4 B04 Core Course IV – Electrodynamics I	Solve electrostatic problems using fundamental theorems and laws inelectrostatics
	Understand the principle of capacitors ,dielectrics , interaction of electric field and matter

	Understand the concepts Laplace'sequation and the problem of electrostatic images
	Solve the problems involving charges in motion and steady currents usingprinciples of magnetostatics.
	Understand the concept scalar andvector potentials
	Understand the interaction of magnetic field and matter and compare it with that of electric field and matter
	Understand the formulation of Maxwell equations from electrostatics and magnetostatics
	Understand the basic laws and theorems assosciated with electromagnetic induction
VPH5 B05 Core Course V - ElectrodynamicsII	Understand Maxwells equation and Relativistic electrodynamics
	Understand formulation of equations EM Waves and the propagation of EM Waves through a medium
	Understand reflection and refraction of EM Wave at a boundary
	Understand the transient currents in LCR circuits
	Understand AC currents and circuits
	Apply AC circuit principals in various AC bridges for the measurement of Inductance, Capacitance etc.
	Understand various network theorems
	Apply network theorems to solvecomplex circuits
VPH5 B06 Core Course VI - QuantumMechanics	Understand concepts of particle properties of waves from photoelectric effect, Compton effect, pair production .
	Understand concepts of wave properties of particles, historical and mathematical development of Quantum Mechanics and applications of uncertainty principle
	Understand the evolution of atomic structure and detailed Bohr atom model
	Understand the basic postulates of quantum mechanics time dependent and time independent Schrodinger equations, Eigen values and Eigenfunctions.

Academic Year (2018-2019)

	Solve the Schrodinger equation for different potentials in one dimension, particle in a box and tunnelling problem.
	Estimate position, momentum and energy eigen values of a wave function using Quantum mechanical operators.
	Solve Schrödinger's equation for Hydrogen Atom.
	Understand the concept of radiative transitions, spectral lines, electron spins and Zeeman effect.
VPH5 B07 Core Course VII Physical Optics and Modern Optics	Understand that laws of geometricaloptics are outcomes of variational principle
	Apply matrix algebra to solve problemsin optics
	Understand the basic theories ofinterference, diffraction and polarization
	Understand the major applications ofinterference, diffraction and polarization
	Understand the fundamentals ofpractical applications such as lasers andoptical fibres
	Understand the fundamental aspects ofnon-linear optics
VPH5 B08 Core Course VIII Electronics	Design rectifier, filter and regulatorcircuits using semiconductor diodes
	Understand the functioning of CE ,CBand CC configurations of transistor
	Design transistor amplifier circuits usingcircuit analysis
	Design oscillators using principle ofpositive feedback
	Understand basic principles of analogand digital communication
	derstand the basic working principles of LED,FET and MOSFETS and op-amps .
	Understand number system andarithmetic.
	Design simple digital circuits usinglogic gates
VPH6 B09 Core Course IX - Thermal and	Understand the fundamentals laws of thermodynamics
	Understand the basic theories of variousthermodynamic processes

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

Statistical Physics	Understand the theory of heat enginesand other practical engines
	Understand the concept of entropy forirreversible and reversible processes
	Understand the theory and applicationof phase transitions
	Understand Maxwell's thermodynamical relations and itsvarious applications
	Understand the characteristics of the three basic statistical distributions with specific applications
VPH6 B10 Core Course X – SSP, Spectroscopy and Laser physics	Understand crystal structures
	Solve problems based on crystalstructure.
	Identify the symmetry elements in acubic crystal
	Understand X ray diffraction phenomenon.
	Solve problems based onsuperconductivity
	Understand the basic elements ofpractical spectroscopy
	Understand the ideas of Microwave, infrared and RamanSpectroscopy
	Understand the principle and working ofdifferent types of lasers.
VPH6 B11 Core Course XI – Nuclear Physics, Particle Physics and Astrophysics	Understand the static and dynamicproperties of nucleus.
	Understand the different radioactivedecay and theory of gamma decay.
	Understand the characteristics of Nuclear fission & fusion and nuclearreactors
	Understand working principle of Nuclear detectors, counters and accelerators .
	Understand the nature properties andeffects of Cosmic rays
	Understand the classification of fundamental interactions and fundamental particles in the universe.
	Apply the concepts of conservation laws in Particle physics to particleinteractions.
	Understand the introductory concepts onastronomy and astrophysics .

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

VPH6 E01 - Computational Physics	Understand the basic functioning ofprogramming languages
	Understand the operators data structuresof PYTHON language
	Understand the user defined and built infunctions in PYTHON
	Understand the iterative methods inPYTHON
	Understand the various mathematicaltools used in numerical analysis
	Understand the advantages and disadvantages of numerical methodsover analytical methods
	Apply computational methods tosolving physics problems
	Apply PYTHON programming language to solve physics problems
VPH5 D01 : Non-Conventional Energy Sources	Understand the physical principles of solar energy conversion to heat andelectricity
	Understand the working of solar cookers, furnace and green house
	Understand the process of wind energyconversion to electrical energy
	Understand the geothermal energysources and their applications
	Understand the significance of biomassas source of energy
	Understand the techniques of powergeneration from tides and waves
	Understand the significance of batteriesin power storage
VPH4 BPL1 Core Course Practical IV Practical I	Execute experiments to evaluate the elastic constants (Young's modulus, rigidity modulus) of a given material
	Determine the magnetic moment of a given magnet using deflection and vibration magnetometers
	Execute experiments using potentiometer for resistivity measurements and ammeter calibration .
	Execute experiments using Ballistic galvanometer for accurate determination of Bh and comparison of capacities.
	Determine refractive index and dispersive power of glass using a spectrometer
	Determine the refractive index of glass/water, density of a given solid/liquid and surface tension of water.

Academic Year (2018-2019)

VPH6 BPL2 Core Course Practical VII – Practical II	Determine the optical constants of the glass and quartz prism using Spectrometer experiments.
	Verify the phenomena of Interferenceand Diffraction with Air wedge, Newtons rings, and Grating experiments .
	Verify thermal conductivity ,thermal variation of resistance using Lee's disc, Carey Foster's bridge and Thermistors.
	Execute experiments using potentiometer for calibration of voltmeters and Reduction factor of TG.
	Construct an ammeter and a voltmeter with a galvanometer .
	Employ B G to find out capacitance and high resistance values.
	Determine Planck's Constant usingLED's
	Determine the frequency of ac usingSonometer
	Determination of Bh, magnetic moment of a magnet using Circular coilapparatus
VPH6 BPL3 Core Course Practical VIII – Practical III	Verify the characteristics of diode, Zener diode and CE configuration oftransistors
	Construct rectifiers ,voltage multipliers ,voltage regulators ,clipping andclamping circuits using diodes.
	Construct amplifiers ,oscillators fundamental gates with transistors and diodes
	Construct inverting& noninverting amplifier and voltage follower circuit with op-amps
	Verify the DeMorgan'sTheorem ,JK&RS flip flops and half adder using IC's.
	Design low pass and high pass RC filter circuits
	Execute Python programme of Taylorseries and solution of equations by numerical methods.
	Execute Python programme for Numerical differentiation andNumerical Integration .

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Simulation of free fall ,projectile motionand straight line fitting with PYTHON programmes.
PHYSICS COMPLEMENTARY	
VPH1 C01: Properties of matter & Thermodynamics	Determine the elastic constants of asolid material.
	Understand the concepts of Surface tension
	Understand the Viscosity of fluids
	Solve problems related to elasticconstants, Surface tension and Viscosity
	Understand different Thermodynamic processes and the concept Entropy.
	Understand the formulation Maxwell's thermodynamic relations.
	Solve numerical problems in Thermodynamic
VPH2 C02: Mechanics, Relativity, Waves & Oscillations	Understand the law of mechanics and the frames of reference
	Understand the concept of conservation of Energy and Momentum
	Solve the problems involving conservation of momentum and energy
	Understand the theory of relativity
	Solve problems using theory of relativity
	Understand the concepts and equations of harmonic, anharmonic and forced oscillations.
	Understand the equations and concepts regarding wave motion transverse and longitudinal waves
	Solve problems related to oscillations and waves
	Understand the concept of Quantum mechanics
VPH3 C03: Optics , Laser , Electronics & communication	Understand the laws of reflection and refraction.
	Understand the conceptsof interference.
	Understand the concepts of diffraction and polarization.
	Solve problems related to interference,diffraction and polarization.

Academic Year (2018-2019)

	Understand the basics of rectifiers, transistors and logical gates
	Understand the basics of laser physics and communication principles.
	Solve problems in electronics
VPH4 C04: Electricity, Magnetism and Nuclear physics	Understand the principles of Electrostatics.
	Understand the concepts of Current electricity
	Solve problems related to Electrostatics and Current electricity
	Understand the concepts of Magnetism and working of Deflection magnetometer
	Solve problems related to Magnetism
	Understand the theory of Nuclear physics.
	Solve problems in nuclear physics.
	Understand the basic concepts of Cosmic rays and Elementary particles

M.SC CHEMISTRY

PROGRAMME SPECIFIC OUTCOMES

PSO1	Built firm foundation in the fundamentals of current chemical and scientific theories in analytical, inorganic, organic and physical chemistries
PSO2	Gain research experience via participation in a research project
PSO3	Understand safe handling of chemicals, environmental issues and key issues facing our society in energy, health and medicines

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
VPCH1CO1- Quantum Chemistry and Group Theory	Study the postulates of quantummechanics
	Acquire knowledge about thesystems 1-D box, 3-D box and simple harmonic oscillator
	Generate idea about particle on a ring and sphere
	Evaluate the Eigen function and Eigenvalue of hydrogen like atoms
	Explain the similarity transformation
	Describe the molecular symmetry

Academic Year (2018-2019)

	Elaborate the great orthogonality theorem
	Construction of character tables of point groups
VPCH1CO2- Elementary Inorganic Chemistry	Analyse molecular structures based on electroneutrality principle and VSEPR theory
	Study bonding involved in metals and their metallic properties
	Acquire knowledge about major acid-base concepts
	Evaluate electron deficient boron compounds based on Wade's rule
	Understand about structure, bonding andsynthesis of P-N,P-S,S-N compounds
	Draw the Ellingham, Latimer, Frost and Poubaix diagrams
	State the various theories to explain thestructure of nucleus
	Describe the interaction of radiation with matter
VPCH1CO3- Structure and Reactivity of Organic Compounds	Understand about hydrogen bonding andits effect on organic compounds
	Construct MOs of simple molecules based on Huckel method
	Study of aromaticity, antiaromaticity and homoaromaticity with MO description
	Acquire knowledge about basic concepts in the study of organic reaction mechanism
	Describe the factors affecting conformational stability of molecules
	Analyse the effect of conformation on the course and rate of reaction in various systems
	Evaluate optical and geometrical isomerism of organic compounds
	Summarise the chiral pool concept, chiral auxiliaries and chiral reagents
VPCH1CO4- Thermodynamics, Kinetics and Catalysis	Analyse third law of thermodynamics to determine absolute and residual entropy

Academic Year (2018-2019)

	Acquire knowledge about thermodynamics of solutions, ideal, real gases and gaseous mixtures
	Generate idea about excess functions such as excess free energy, excess entropy, excess enthalpy, excess volume
	Evaluate Validity and verification of Onsager theory and its application totheory of diffusion
	Summarise the kinetics of chain reactions, fast reactions and solution kinetics
	Understand molecular reaction dynamics using molecular beams
	Study Langmuir theory ofadsorption, BET equation and experimental methods for topologyanalysis
	Compare homogenous and heterogeneous catalysis
VPCH2CO5- Applications of Quantum Mechanics and Group Theory	Analyse approximate methods ofquantum mechanics.
	Summarise many electrons system and antisymmetry principle.
	Compare the elementary concepts of MO and VB theories.
	Illustrate Huckel theory for conjugate dpi-electron systems
	Understand the hybridization in molecules.
	Construction of SALC using projectionoperator
	Classify atomic orbitals involved into symmetry species.
	Evaluate IR and RAMAN active modesof molecules
VPCH2CO6- Coordination Chemistry	Understand the basic factors the affect the stability of coordination compounds.
	Study the bonding in coordination complexes by VBT,CFT,MOT
	Draw the MO diagram of several complexes

Academic Year (2018-2019)

	Acquire knowledge about Orgel diagram, Tanabe –Sugano diagram
	Determine the magnetic properties of coordination complexes
	Characterize a given coordination complex by various spectroscopic techniques
	Evaluate actual reaction mechanisms exhibited by metal complexes
	Compare outer sphere and inner sphere redox reactions in coordinationcomplexes
VPCH2CO7- Reaction Mechanism in Organic Chemistry	Understand aliphatic and aromatic, nucleophilic and electrophilic substitution with mechanism.
	Study the reaction mechanism involving addition and elimination reaction with electrophiles and nucleophiles.
	Compare the stability, geometry and reactions of reactive intermediates.
	Analyse several nucleophilic reactions of carbonyl compounds.
	Understand the different mechanisms of ester hydrolysis and evidence.
	Apply the basic concepts and theory of pericyclic reactions.
	Summaries the principles and applications of photochemicals inorganic chemistry
	Compare and classify natural products
VPCH2CO8- Electrochemistry, Solid State Chemistry and Statistical Thermodynamics	Describe Debye-Huckel equation –limiting and extended forms.
	Study the efficiency of electrochemicalcells with heat engines.
	State the different theories of hydrogenovervoltage
	Acquire knowledge about polarographyand DME
	Evaluate the crystal structures, Bragg's law and applications
	Compare electrical, thermal, magnetic and optical properties of solid
	Evaluate partition functions and relation to thermodynamic quantities

Academic Year (2018-2019)

	Compare M-B, B-E and F-D statistics
VPCH3CO9- Molecular Spectroscopy	Understand the basic fundamentals ofmicrowave spectroscopy
	Analyse the vibrational spectra ofpolyatomic molecules
	Compare the classical and quantumtheory of Raman effect
	EvaluateKramer's theorem in ESR spectroscopy
	Analyse Nuclear Overhauser Effect in FTNMR spectroscopy
	Understand the basic principles and applications of Mossbauer spectroscopy
	Analyse the structure of organic compounds by spectrometric methods
	Understand the basic principles of EIMS
VPCH3CO10- Organometallic and Bioinorganic Chemistry	Evaluate 18 and 16 electron rule byneutral atom method and oxidation state method
	Acquire knowledge about synthesis,structure, bonding and reactions of metal carbonyls, nitrosyl, dihydrogen and dinitrogen complexes
	Study organometallic compounds oflinear and cyclic pi systems
	Understand about oxidative addition, reductive elimination, insertion reactions
	Compare homogenous and heterogeneous catalysis byorganometallic compounds
	Analyse metal-metal bond and metalclusters
	Describe oxygen transport by hemeproteins
	Summaries metallo enzymes andelectron carrier metallo proteins
VPCH3CO11- Reagents & Transformations in Organic Chemistry	Understand different oxidation methods in organic chemistry
	Analyse synthetic reagents for organic transformation
	Study different reduction methods inorganic chemistry
	Analyse several reactions for theformation of carbon-carbon bond
	Study the structure, synthesis and reactions of heterocyclic compounds

Academic Year (2018-2019)

	Understand several molecular rearrangements and transformation
	Study the mechanism of differentrearrangement reaction
	Understand the structure and synthesisof caffeine
VPCH3E01- Synthetic Organic Chemistry	Understand the reagents for oxidation and reduction
	Analyse homogeneous and heterogeneous catalytic hydrogenation
	Evaluate synthetic applications of organometallic and organo-nonmetallic reagents
	Understand the chemistry and reactivityof carbonyl compounds
	Study the mechanism and syntheticapplications of coupling reactions
	Evaluate the methods involved in multistep synthesis
	Analyse aspects of retro synthetic analysis
	Understand the concepts of phase transfer catalysis
VPCH4C13- Advanced Topics in Chemistry	Acquire proficiency in nanochemistry and nanomaterials
	Study of green chemistry to help reduce the damage of environment caused by man-made materials
	Explain the calculations using Gaussian program
	Implement concepts and language of supramolecular chemistry
	Understand the drug design and relationship of functional group topharmacologic activity
	Explain the tools of combinatorialchemistry.
	Use TPD method for determination ofsurface acidity
	Describe renewable and conventionalenergy resources
VCH4E22-	Compare physisorption andchemisorption

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

Industrial Catalysis (Elective)	Analyse kinetics of heterogeneouscatalysis.
	Explain Langmuir, BET and Freundlichisotherms
	Describe the different methods for the preparation and deactivation ofcatalysts.
	Understand the basic principles of phasetransfer catalysed reactions.
	Discuss the biocatalysts and theirimmobilization.
	Built knowledge on the catalysts usedfor environmental protection
	Describe the role of heterogeneouscatalysts
VCH4C13- Instrumental Methods of Analysis	Acquire proficiency in statisticalanalysis and error estimation
	Analyses how health, disease and modern medicine are all rooted inbiological chemistry
	Explain the principles of gravimetricinorganic precipitating agent like $NH_3, H_2S, (NH_4)_2MoO_2$ and NH_4SCN
	Describe neutron activation analysis with quantitative analysis
	Understand the capabilities and limitations of optical instrumental methods
	Explain the instrumental component andprincipals of operation
	Built knowledge on chromatographic method, detectors and CHN analysis byGC
	Describe TGA,DTA,DSE and their instrumentation
	Describe amperometry, coulometry, chronopotentiometry, anodic stripping voltametry

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

B.SC CHEMISTRY

PROGRAMME SPECIFIC OUTCOMES

PSO1	Understand the fundamentals of physical, organic, inorganic and theoretical chemistry and its applications in daily life.
PSO2	Inculcate research aptitude and analytical skills through qualitative and quantitative analysis.
PSO3	Understand the concepts of green chemistry and environmental chemistry
PSO4	Application of polymer chemistry and organic chemistry in industries.

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
VCH1B01- Theoretical and Inorganic Chemistry –I	Understand the fundamentals ofchemistry and research methodology
	Identify the components of research methodology
	Solve problems using basic chemical concepts
	Understand various laboratory hygiene and safety practices
	Classify volumetric titrations into acid-base, redox and complexometric titrations
	List the various purification techniques for organic compounds
	Discuss the historical development of atomic structure
	Understand the fundamentals of nuclear chemistry
	Identify the uses of radioactive isotopes
VCH2B02- Theoretical and Inorganic Chemistry –II	Explain operator algebra, operators and postulates of quantum mechanics
	Apply Schrodinger wave equation toparticle in 1D and 3D boxes
	Understand Schrodinger wave equation for H atom, quantum numbers and shapeof orbitals
	Understand modern periodic law andperiodicity in properties

Academic Year (2018-2019)

	Recognize different electronegativityscales
	Understand ionic bonds and BornHaber cycle
	Apply VSEPR theory to predict theshapes of molecules
	Understand VB and MO theories
	Comparison of MO and VB theories
VCH3B03- Physical Chemistry –I	Understand kinetic gas theory and its faulty assumptions
	Define real gases and its deviation from ideal behavior,Van der Waal's equation, virial equation and critical constants
	Know the properties of liquids
	State laws of thermodynamics, spontaneity of any process under a givenset of conditions
	Compute efficiency of heat engines and thereby energy conservation
	Understand Joule Thomson effect and its application in liquefaction of gases
	Derive Gibbs-Helmholtz equation, Gibbs-Duhem equation and Claussius-Clapeyron equation
	Introduce basic concepts in statistical thermodynamics
	State Hess's law and its application in thermochemistry
	State the laws of chemical equilibrium and its application to physical andchemical processes
VCH4B04- Organic Chemistry - I	Recognize the uniqueness of Carbon and historical development of organic chemistry
	Understand the types of representationsof organic molecules
	Distinguish conformational andconfigurational isomerism
	Understand optical isomerism andgeometrical isomerism
	Identify different electron displacement effects in organic molecules andreaction mechanisms
	Comparison of reactivity based onorientation effects

Academic Year (2018-2019)

	Identify reaction intermediates
	Understand types and subtypes of organic reactions
	Understands properties of alkanes and alkenes
	Understand the properties of alkynes
	State Huckel's rule and its application in aromatic compounds
	Understand mechanism of aromatic electrophilic reactions
VCH5B05- Inorganic Chemistry - III	Understand the principles of qualitative and quantitative analysis
	Compare the properties and reactions of alkali and alkaline earth metals
	Understand the properties and reactivity of carbon and boron family
	Understand basic properties and importance of nitrogen, oxygen, and halogen family
	Give basic understanding of separation and uses of noble gases and analyse the structure of compounds of xenon
	Recognize the application of inorganic polymers
	Explain the role of catalyst in different reactions
	Analyse different polluting agents
	Apply the principles of solid waste management
VCH5B06- Organic Chemistry - II	Understand the mechanism of substitution, addition, and elimination reactions of halogen compounds
	Apply organometallic compounds for the preparation of various functional groups
	Understand the difference between alcohols and phenols
	Understand the preparation and reactions of ethers and epoxides
	Apply reagents for the inter conversion of aldehydes, ketones, and carboxylic acid derivatives
	Understand the preparation and reactivity of various nitrogen compounds
	Apply active methylene compounds inorganic preparations

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

VCH5B07- Physical Chemistry - II	Understand the concept of kinetics and catalysis in chemical processes
	Understand photochemical principles behind various physical and chemical processes
	Compare various adsorption isotherms
	Understand the classification and applications of various colloidal systems
	Understand various binary systems in terms of phase diagram and itsapplications
	Understand the principles behind different chromatographic techniques and its applications
	Characterize molecules based onspectral data
	Apply symmetry operations to classifydifferent molecules
VCH5D01- Chemistry in Daily Life	Recognize common classes of drugs andtheir applications in pharmaceutical industry
	Understand food additives and modernfood habits
	Understand the basics of polymerchemistry
	Understand different types of fuel and understand pollution due to burning offossil
	Recognize the use of pesticides andfertilizers and their impact on the environment
	Understand the function of cleansingagent and cosmetics
	Understand potential applications of Nanomaterials and conducting polymers
VCH6B08- Inorganic Chemistry - IV	Understand the processes of metallurgyand analysis of different alloys
	Understand the characteristics of transition metals and distinguish between lanthanides and actinides
	Analyse the geometries of coordination compounds
	Understand the bonding in metalcarbonyls

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Understand the importance of metals in living systems
VCH6B09- Organic Chemistry - III	Elucidate the structure of organic compounds using spectral data
	Understand the structure and tests for carbohydrates
	Classify amino acids and proteins and understand the protein structure
	Differentiate lipids, steroids, vitamins,enzymes and hormones
	Understand the applications of different alkaloids and terpenes
	Distinguish different pericyclic reactions
VCH6B10- Physical Chemistry - III	Understand the basic concepts of electro chemistry
	Understanding the dissociation of acids and bases and buffer action
	Understand the importance of colligative properties
	Understand the concept of basic crystal systems and relate properties of solids with geometry and chemical composition
VCH6B11- Advanced And Applied Chemistry	Understand the importance of nanomaterials
	Appreciate the importance of green chemistry
	Basic understanding of computational calculations in molecular design
	Understand the role of chemistry and applications of various chemical compounds in everyday life
VCH6E01- Polymer Chemistry	Classify polymers and understand different polymerization methods
	Understand the reactions of polymersand importance of glass transition temperature
	Appreciate the importance of polymer processing techniques
	Understand the preparation and role of various commercial polymers

Academic Year (2018-2019)

	Gain elementary idea about recent advances in the field of polymer science like conducting polymers, carbon fibers etc.

CHEMISTRY COMPLEMENTARY COURSE

VCH1C01 - Complementary Course I-General Chemistry	Understand the historical developmentof chemistry
	Understand the basic chemical concepts such as atomic mass, molecular mass, mole concept, molar volume
	Outline the principles of volumetric and qualitative analysis
	Discuss the historical development of atomic structure.
	Identify different types of chemical bonding
	Understand theories of chemical bonding such as VSEPR,VB and MOtheories
	Understand the significance of Bioinorganic Chemistry
VCH2C02- Complementary Course II -Physical Chemistry	Understand the basic concept and laws of thermodynamics
	Understand free energy and its significance
	Understand basic concepts of gaseous state
	Understand basic concepts of liquid state and solutions
	Differentiate natural and artificial radioactivity
	Apply the concepts of electrochemistry
	Recognize electrochemical cells
VCH3C03- Complementary Course III- Organic Chemistry	Understand the basic conceptsof organic chemistry
	Distinguishes electron displacement effects
	Identifies reaction intermediates
	Understand the concepts of stereo chemistry

Academic Year (2018-2019)

	Distinguish geometrical and optical isomerism	
	Understands the concepts of aromaticity	
	Understand the chemistry of halogen compounds	
	Understand the chemistry of alcohols, phenols and ethers	
	Understand the structure and applications of carbohydrates and proteins	
	Understand the structure and functionsof lipids and nucleic acids	
	Understands alkaloids and terpenes	
VCH4C04- Complementary Course IV- Physical and Applied Chemistry	Differentiate true solution,colloidal solution and suspensions.	
	Understand different methods forpurification of colloids	
	Understand basics of kinetics	
	Recognize homogeneous and heterogeneous catalysis and theories ofcatalysis	
	Understand different spectroscopicmethods	
	Apply spectroscopic methods in structural analysis of compounds	
	Understand different chromatographic techniques	
	Understand polymers and their uses	
	Be aware of environmental pollution	
	Understand chemistry in everyday life	

M.SC BOTANY

PROGRAMME SPECIFIC OUTCOMES

PSO1	Understand fundamental concepts of diversity of plant kingdom
PSO2	Develop laboratory skills for undoing research
PSO3	Identification and naming of plants
PSO4	Apply basic principles of plant breeding in crop improvement

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
BOT01CT01- Phycology, Bryology, Pteridology and Gymnosperms	The identification of native species of Algae, Bryophytes, Pteridophytes and Gymnosperms
BOT01CT02- Mycology, Lichenology, Microbiology and Plant pathology	Identification of pathogens causing plant diseases
BOT01CT03 - Angiosperm anatomy, Angiosperm embryology, Palynology & Lab techniques	Understand fundamental concepts of structure and function of plant tissues
	Develop the laboratory skills sectioning of plant tissues
	Understand the development of a flowering plant
BOT02CT06 – Cell Biology, Molecular Biology and Biophysics	Understanding the basic cellular components, interactions and events in the life cycle of a cell.
	Develop practical skills in mitosis and meiosis and understand the basic structure and changes in chromosomes.
	Understand the general mechanisms and events involved in cell which can lead to ageing and development of cancer.
BOT02CT07– Cytogenetics, Genetics, Biostatistics, Plant Breeding and Evolution	Understand the principle of molecular cytogenetics
	Apply the basic principles of plant breeding for genetic improvement of plants
BOT02CT08- Plant ecology, conservation biology, phytogeography and forest botany	Understand the structure of an ecosystem and energy flow
	Identification of the challenges faced by various ecosystems in terms of human population and pollution
	To understand Phytochoria of world and India
	To know more about various forest types and the forest products

Academic Year (2018-2019)

VPBO3C07- Plant Physiology, Metabolism and Biochemistry	Understanding the development and metabolism of plants
	Understand the commercial importance of secondary metabolites
	Develop the practical skill in biological processes
VPBO3C08- Angiosperm morphology, Taxonomy and Plantresources	Identify and classify plants based ontaxonomic disciples.
	Develop the skill of scientific imaging of plants.
	Realize importance of field study
VPBO3C09- Biotechnology an dBioinformatics	To understand the basic principles of tissue culture
	To know more about biological databases and tools used for protein structure prediction.
VPO4E01- Environmental biology and biodiversit yconservation	Understand the types of interactions and concepts of habitat in ecosystem
	Understand biodiversity and itsconservation
	Develop and apply knowledge and skills on climate change, soil qualityand disaster management
VBO4E02- Plant tissue culture	Hands on experience in thepreparation of culture medium from stock solutions prepared usingreagent grade chemicals
	Empowering students in culture initiation, clonal multiplication, rooting, hardening and field transferof plants
VPBO4E03- Genetics and crop improvement	Create an aware about IPR in protection of medicinal plant varieties
	Awareness about farmer's rights in agriculture sector

B.SC BOTANY

PROGRAMME SPECIFIC OUTCOMES

PSO1	Understand scope and importance of Botany in every field especially in dealing with societal and environmental issues, agriculture, ethics and healthcare.

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

PSO2	Understand the and the role of plants in sustaining life on earth and the interrelationship between human beings and nature, create awareness on natural resources and their importance in sustainable development, analyze the importance of biodiversity conservation, estimate biodiversity loss and develop conservation strategies.
PSO3	Develop scientific temper and undertake scientific projects.
PSO4	Identify and classify plants according to the principles of plant systematics, apply techniques like plant propagation methods, organic farming, mushroom cultivation, preparation of biofertilizers, biopesticides etc. in daily life.

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
VBO1B01 Angiosperm Anatomy	Demonstrate the ability to differentiate plant organs by observing anatomical features.
	Understand the non-living inclusions of plants and their significance.
	Differentiate tissues and their functions.
	Illustrate primary and secondary (normal and anomalous) structures of plant organs
VBO2B02 Research Methodology	Develop scientific temper and problem solving skills. Undertake scientific projects and prepare project reports Summarize, organize and display quantitative data and derive conclusions Prepare permanent slides, applying the histochemical techniques
VBO3B03 Microbiology, Mycology, Lichenology and Plant Pathology	Understand basics of microbial life and their economic importance.
	Develop general awareness on the diversity of microorganisms, fungi and lichens.
	Analyze the ecological role played by bacteria, fungi and lichens
	Identify plant diseases and find out control measures.
VBO4B04 Phycology, Mycology and Pteridology	Appreciate the diversity and evolutionary significance of lower plant groups.
	Classify algae, bryophytes and pteridophytes.
	Understand the economic and ecological importance of lower plant groups.

Academic Year (2018-2019)

VBO5B05 Gymnosperms, Palaeobotany, Phytogeography and Evolution	Understand the role of gymnosperms as aconnecting link between pteridophytes and angiosperms
	Appreciate the process of organicevolution.
	Realize the importance of fossil study.
	Understand the climatic conditions of thepast and realize the changes happened
VBO5B06 Angiosperm Morphology & Systematics	Appreciate the diverse morphology ofangiosperms.
	Identify and classify plants based ontaxonomic principles.
	Make scientific illustrations of vegetativeand reproductive structures of plants.
	Develop the skill of scientific imagingof plants.
	Realize the importance of field study.
	Change their attitude towards overexploitation of rare/endemic plants.
VBO5B07 Embryology, Palynology, Horticulture, Economic Botany and Ethnobotany	Critically evaluate the advantages of tissue culture and horticulture over conventional methods of propagation.
	Apply various horticultural practices inthe field.
	Experiment on the subject and try tobecome entrepreneurs.
	Identify the economically importantplants
VBO5B08 General & Bioinformatics, Introductory Biotechnology and Molecular Biology	Analyze the role of biotechnology indaily life.
	Understand the basic aspects ofbioinformatics.
	Explain the concepts in molecularbiology.
VBO5D01 Basic Tissue Culture	Understand plant tissue culture as arapid propagation method.
	Explain the steps involved in tissueculture.
	Realize the applications of plant tissueculture
VBO6B09 Genetics and Plant Breeding	Appreciate the facts behind heredity andvariations.
	Understand the basic principles ofinheritance.

Academic Year (2018-2019)

	Solve problems related to classicalgenetics.
	Predict the pattern of inheritance.
	Understand various plant breedingtechniques.
	Realize the role of plant breeding inincreasing crop productivity
VBO6 B10 Plant Physiology and Metabolism	Identify the physiological responses ofplants.
	Analyze the role of external factors incontrolling the physiology of plants.
	Explain the metabolic processes takingplace in each cell.
	Appreciate the energy fixing and energyreleasing processes taking place in cells
VBO6 B11 Cell Biology and Biochemistry	Appreciate the ultra-structure of a plantcell.
	Enumerate the functions of each cellorganelle.
	Draw and explain the structure of biomolecules
VBO6 B12 Environmental Science	Realize the importance of ecologicalstudies.
	Develop environmental concern in alltheir actions and practise Reduce, Reuse and recycle.
	Try to reduce pollution andenvironmental hazards and change their attitude towards throwing away plastic wastes.
	Spread awareness of the need of conservation of biodiversity and natural resources.
	Analyze the reasons for climate changeand find out ways to combat it
Elective - VBO6E02 Genetics and Crop Improvement	Understand various techniquesemployed for increasing crop productivity.
	Identify diseases affecting crop plants.

Academic Year (2018-2019)

	Attain general awareness on variouscrop research stations of the country
B.Sc Botany(ComplementaryCourses)	
VBO1C01 Angiosperm Anatomy and Micro technique	Explain the types, structure andfunctions of plant tissues.
	Explain primary and secondary (normaland anomalous) structures of plantorgans.
	Identify plant organs by observinganatomical features.
	te primary and secondary (normal andanomalous) structures of plant organs.
VBO2C02 Cryptogams, Gymnosperms and Plant Pathology	Analyze the role of the lower plants inthe process of evolution.
	Explain the ecological significance offlower plants.
	Identify plant diseases and take remedial measures to control them
VBO3C03 Morphology, Systematic Botany, Economic Botany, Plant Breeding and Horticulture	Appreciate the diverse morphology ofangiosperms.
	Identify and classify plants based ontaxonomic principles
	Make scientific illustrations ofvegetative and reproductive structuresof plants
	Identify the economically importantplants
	Understand the basic principles of plantbreeding
	Apply various horticultural practices inthe field.
VBO4C04 Plant Physiology, Ecology and Genetics	Explain the physiological processes inplants.
	Understand the basic principles ofheredity and variation.
	Realize the importance of ecology.

Academic Year (2018-2019)

Spread awareness of the necessity of conservation of biodiversity and natural resources	

M.SC ZOOLOGY

PROGRAMME SPECIFIC OUTCOMES

PSO1	Understand the various biochemical aspects of cell including molecular level regulation
PSO2	Analyse the developmental stages of organisms connecting their physiological reactions and immunological advancements
PSO3	Interpret the various interactions on ecological and ethological level; assess and classify them with biostatistical methods
PSO4	Identify and evaluate the growth and developmental aspects of microbes and utilize them in biotechnology through biophysical methods
PSO5	Develop knowledge in fishes by understanding their ecological habitats and culture practices.

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
VPZO1C01 - Biochemistry and Cytogenetics	Analyse and understand the chemistry and functions of biomolecules
	Understand the metabolism and biosynthesis of biomolecules
	Understand the basic cellular, molecular and genetic concepts of development.
	Understand the structural organization and function of intra cellular organelles
VPZO1C02 - Biophysics and Biostatistics	Observe and understand the matter and mechanism of cells and study of functional systems, structural organisation and physical basis of sound transmission in the ear
	Observe and understand the working principle of different separation techniques, biophysical methods, electrophysiological methods and microscopy

Academic Year (2018-2019)

	Analyse and understand the applications of biostatistics in research and study about the various type of statistical methods
	Understand the basic concept of gravitation force, nanotechnology and radiation biology
VPZO1CO3 - Systematics and Evolution	Understand the definition and basic concept of taxonomy, classification, procedures, species concept and different type of taxonomic characters of organisms.
	Study the zoological nomenclature, newer systematic trends, ethics in taxonomy and taxonomic impediments.
	Understand natural selection, mechanisms and tempo of evolution
	To study molecular evolution and evolutionary trends of organisms
VPZO2C04 - Physiology	Interpret and analyse nutrition and utilization of energy from biomolecules
	Study of functional systems and disorders of nervous and cardiovascular systems
	Understand the structure and functions of sense organs
	Understand the thermoregulation mechanisms and acclimatization
VPZO2C05 - Ecology and Ethology	Analyse and understand the natural history of Indian subcontinent, various terrestrial biomes, biogeographical zones and island biogeography
	Understand the basic concepts and levels of organisation in ecology
	Study of animal behaviour and its evolution
	Observe and understand social behaviour of termites and primates
VPZO2C06 - Developmental Biology and Endocrinology	Understand the basic cellular, molecular and genetic concepts of development.
	Analyse and understand the developmental stages of various organisms along with the factors influencing them.

Academic Year (2018-2019)

	Understand the structure of endocrine glands, synthesis and secretion of hormones, mode of action, control
	Understand the pathophysiology of hypo and hyper secretions of endocrine glands
VPZO3CO7- Molecular Biology	Explain replication, transcription and translation of genetic material
	Understand the role of gene families transposable genetic elements
	Understand eukaryotic and organelle genome
	Understand the molecular mechanism involved in eukaryotic genome andcancer
VPZO3CO8 - Immunology	Explain the role of molecules involvedin immune mechanism
	Understand maturation of immunological cells leading to immune response.
	Understand the role of mhc in immuneresponse
	Explain immunological disorders
VPZO3E11- Fishery Science I-Taxonomy, Biology Physiology & Ecology	Understand fish taxonomy
	Understand the fish biology
	Explain the physiology of fish
	Understand the ecology of sea
	Study on brackish and inland water
VPZO4C09, Microbiology and Biotechnology	Study of history and scope of Microbiology and its taxonomy
	Understand bacteria, virus, its pathological effects and their control measures
	Understand bacterial metabolism
	Understand the role of microbes in fermentation, waste water treatment, bioremediation biogas plant and generation of energy sources
	Understand DNA sequencing, Genetic Engineering, gene silencing and cloning techniques
	Interpret biotechnology in animal healthcare and environment

Academic Year (2018-2019)

VPZO4E21 - Fishery Science II	Understand the capture and culturefishes, Designing of aqua farms
	Understand the nutrition of fishes andwater quality management
	Understand the reproduction and genetic selection
	Explain different aqua cultural practices
	Study on aquarium and major fish diseases
VPZO4E31, Fishery Science III	Understand commercial fishing methods
	Understand the nutritional value of fin fish and shell fish, its preservation and processing techniques
	Explain the post mortem changes andspoilage.
	Explain the role of fishery institutes in education, research, development, export and quality control
	Study on fishery management and international marketing.

B.SC ZOOLOGY

PROGRAMME SPECIFIC OUTCOMES

PSO1	Understand the diversity, behaviour, distribution, economic importance, and environmental aspects of animal kingdom
PSO2	Understand the genetical, physiological, toxicological and immunological aspects of life
PSO3	Explain the conservation and management of wild life
PSO4	Understand the advanced biological techniques

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
VZO1B01- Animal Diversity - Non-Chordata PART I	Study the animal diversity, adaptationsand functional anatomy of protists, cnidarians, Platyhelminthes, aschelminths and minor phyla
	Study of classification of animals

Academic Year (2018-2019)

	Identification of animal specimens based on theoretical knowledge andgaining procedural skills
VZO2B02 - Animal Diversity- Non-Chordata PART II	Study the animal diversity, adaptations and functional anatomy of annelids, arthropods, molluscs and echinoderms
	Study onychophoran and hemichordates
	Explain coelomate minor phyla
	Identification of animal specimens based on theoretical knowledge andgaining procedural skills
VZO3B03 - Animal Diversity, Chordata - PART I	Classification and study of protochordates, Pisces, amphibia andreptiles
	Describe the morphological, anatomicaland ecological adaptations of protochordates, Pisces, amphibia and reptiles
	Examine morphological and osteological aspects of study specimensand their classification
VZO4B04 - Animal Diversity Chordata - PART-II	Classification and comparison of aves and mammals
	Describe the morphological, anatomical and ecological adaptations of birds and mammals
	Examine morphological and osteological aspects of study specimens and their classification
	Field study on birds of the locality
VZO5B05- Environmental Biology, Wildlife Conservation and Toxicology	Understand problems of sustainableresource usage, conservation of endangered biota, preservation ofbiodiversity
	Understand the transnational characterof environmental problems
	Understand the interdisciplinary natureof ecosystem.
	Knowledge of fundamental principlestoxicology.
	Understands biological diversity atgene, population and species level
VZO5B06 - Ethology, Evolution and Zoogeography	Describe the patterns of behavior andbiological clocks in animals

Academic Year (2018-2019)

	Understand the evidences , trends,concepts and theories in organic evolution
	Study the course of evolution, speciationand isolating mechanisms
	Familiarise the different zoogeographical realms and biogeographical zones and its animaldistribution
VZO5B07 - Cell Biology and Genetics	Comprehensive and detailedunderstanding of the basis of heredity
	Understand the genetic methodology, quantification of heritable traits in families and populations, provide insight into cellular and molecularmechanisms
	Compare the structure and function ofcells from different domains
	Knowledge of instruments andtechniques used in cytology
	Understand the process of cell division,the role of molecules and cells in the control of cell division
VZO5B08- GENERAL Methodology in Science, Biostatistics and Informatics	Understand some basic concepts ofresearch and its methodologies
	Identify appropriate research topics, select and define appropriate research problem and parameters and write a research report, thesis and researchproposal
	Define the principal concepts about biostatistics and identify convenient sampling methods
	Collection and interpretation of data and apply hypothesis testing via some of the statistical distributions
	Familiar with digital knowledge
	Apply the knowledge to collect variousbiological data

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

VZO5D01- Reproductive Health and Sex Education	Study the factors affecting health
	Apply the knowledge to lead a healthylifestyle
	Understand various contraceptivemethods
	Study various lifestyle diseases
	Redress problems associated with health and sex thereby promoting fitness andwellbeing
VZO6B09- Biochemistry	Understands the fundamentalbiochemical principles, such as the structure/function of biomolecules, metabolic pathways, and the regulationof biological/biochemical processes
	Accure proficiency in basic laboratorytechniques in both chemistry and biology, and be able to apply the scientific method to the processes of experimentation and hypothesis testing
VZO5B10 - Physiology and Endocrinology	Understand the function of varioussystems
	Study of endocrine systems, its functions and diseases due to endocrine disorder s
VZO6B11- Molecular Biology and Bioinformatics	Understand the gene,dna sequences , genetic code and human genomeproject
	Understand the process of proteinsynthesis and regulation of gene action
	Knowledge of awareness on the prosand cons, major databases and search engines in bioinformatics
	Understand the application ofbioinformatics in sequence similarity search,genomics, proteomics and metabolomics
VZO5B12 - Reproductive Biology,	Understand the reproductive system inhuman beings

Academic Year (2018-2019)

Developmental Biology and Teratology	Study the various types of placenta and the ability to explain various prenatal diagnosis
	Familiarise with various stages and principles involved in the developing embryo
	Understand the initial developmental procedures involved in amphioxus, frog, chick and man
	Familiarise with various techniques and tools of embryology
	Understand the teratological defects in development
VZO5B13- Biotechnology, Microbiology and Immunology	Understand the importance of biotechnological tools and techniques in various fields
	Familiar with the tools and techniques used in microbiology and pathogenic microbes
	Understand the integral role of microorganisms in causing diseases
	Distinguish innate immunity and acquired immunity
	Identify major components of the immune system at organ, cellular and molecular levels
VZO6E01 - Aquaculture, Animal Husbandry and Poultry Science	Study the freshwater, brackish and marine water aquaculture of finishes and shell fishes
	Study of crafts, gears, fish products, by products, nutrient value, preservation techniques and fish diseases
	Understand white revolution, diary processes, composition and nutritive value of milk and dairy products and milk adulteration
	Study of indigenous and exotic poultry breeds, poultry farming, feeding, feed formulation, cage construction.

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

VZO1C01 - Complementary Course I - Animal Diversity and Wild life	Study of classification of animals
	Study of animal phyla
	Explain the wild life and conservationaspects
	Identification of animal specimens based on theoretical knowledge andgaining procedural skills
VZO2C02- Complementary Course II - Economic Zoology	Study of human parasites and mode ofinfection
	Study of pest and vectors and controlmeasures
	Study of aquaculture, poultry andanimal husbandry
	Identification of human parasites and vectors, pest, economically important finfish and shell fish based on theoretical knowledge
VZO3C03 - Complementary Course III - Physiology, Toxicology and Ethology	Understand the function of varioussystems
	Study of animal behaviour
	Study of toxicants and public healthissues
	Dissections of animal specimens andgain practical knowledge and skill
VZO4C04 - Complementary Course IV - Genetics and Immunology	Study of human genetics andcytogentics of cancer
	Study of gene, gene action, geneticengineering and biological techniques
	Study of immune system and its actionin health and diseased conditions
	Identify karyotype and geneticdisorders

MSC TEXTILES & COSTUME SCIENCE

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

PROGRAMME SPECIFIC OUTCOMES

PSO1	Understand the awareness of marketing & advertisement.
PSO2	Understand the methods & techniques used to analyze textile fibres, yarns& fabric& its end useperformance
PSO3	Understand & develop the skill ability to draft patterns for different garment
PSO4	Understand & analyze the different types of looms, weaving techniques & weave patterns
PSO5	Understand the principles of Quality assurance, chemical processing, finishing of textiles, fundamentals of dyeing, eco- friendly practices
PSO6	Understand the techniques of research and develop skills in conducting research and applying statistical procedures
PSO7	Understand color theories, color order specifications and develop sketching skills
PSO8	Understand the global costumes of the world
PSO9	Understand the draping procedures

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
HTC1C01 Historic Costumes	Compare the different costumes of India
	Build up an idea about couture frommiddle age period
	Understand and discuss the garments and, accessories including headgear andfoot wear of various regions
	Analyze the fashion trends in 18th century
	Explain the evolution of costumes
	Understand the information regarding the costumes orgin, fabrics, colours andaccessories

Academic Year (2018-2019)

HTC1C02 Fashion Marketing	Recognize the importance of aesthetics and principles of design in the seasonalfashion world
	Evaluate the trends in the fashion industry and their impact on overallbusiness operations and strategy
	Assess social, cultural and economic factors and their impact on the globalconsumer and market place
	Perceive the skill of inspirational and innovative techniques to implement inapparel merchandise
	Plan and budget sales for a seasonalrange
	Determine a commercially appropriateproduct range for a retailer
	Create a sales forecast for a retail store
	Analyze the fashion industry's activities to develop/implement a marketingstrategy
HTC1C03 Costume Design and Illustration	Adapt their artistic abilities to supporttheir future design careers
	Develop sketching skills
	Build the practical knowledge of fashion sketches, illustration, mediums,rendering, fashion details
	Design costumes according to variousbody shapes
	Identify the human figure, construction,anatomy of men, women & child
	Influence the students to inspire to develop fashion collection (portfolio)
HTC1C04 Introduction To Fashion Design Concept	Analyze and use color units effectivelyin their design process.
	Identify and discuss concepts related to the historical back ground of textiles and fashion.
	Identify and discuss concepts related to the design, production and evaluation of textiles and apparel products.

	Identify and discuss concepts related to the management, marketing, and consumption of textile and apparel products.
	Evaluate trends in the fashion industry and their impact on overall business operation and strategy.
	Utilize applied management topics to manage, control, and improve industryenvironment
HTC1C05 Research Methodology and Statistics	Outline of research concepts
	Compare different types of researchmethods
	Construct research design or proposalfor future project works
	Examine various sampling techniquesand measurement scales
	Develop report writing or presentationskills
	Choose right statistical techniques to beused with various research methods
	Interpret statistical literature, research articles, the claims made on the basis ofstatistics
HTC2C06 Quality Assurance and Textile Testing	Understand the method of testing textilefibers, yarns and fabrics
	Analyze and interpret the results of fabric testing from testing equipment's
	Apply statistical techniques foranalyzing test results
	Identify various fabric defects and theircauses and remedies
	Explain the principle of total qualitymanagement of textiles (TQM)
	Develop innovative tools to implementTQM in the textile industry
	Measure the quality particulars of textile material at different stages of productionand know the standards

Academic Year (2018-2019)

	Identify quality deviations of fabrics
	Understand and evaluate qualityassessment of final product
	Identify aspects of quality in the designand construction of textile items
HTC2L01 Fashion Draping (P)	Develop skills to build up the basicdress foundation
	Develop skills to design the bodice style
	Analyze and understand the dart equivalents and dart manipulations
	Develop skills to adapt the differentneckline variations
	Explain the draping principles andtechniques
	Develop skills to create skirt variations

	Understand the fabric characteristicsand terms for draping
HTC2C07 Visual Retailing and Entrepreneurship Management	Evaluate the relationship betweencreativity and marketing.
	Entrepreneurship development and understand various strategies to choose fashion as a career
	Understand the global fashion business, the differences between business modelsthat regulate the industry and the key issues that are recurrent in the world of fashion.
	Understand the history of retailing toinform development of contemporary retail strategy.
	Develop a merchandise plan and budgetit
	Understand and apply the promotionalelements of retailing.
	Identify the environmental factors that impact retailing and develop short and long-term plans to address existing andemerging issues.
HTC2 L02 Advanced Pattern Adaptation and Construction Techniques (Practical)	understand pattern making tools &techniques
	understand the different methods ofpattern drafting
	understand the basic pattern to developpattern adaptation
	Develop skill and ability to design draft patterns for different garments based onbody measurements and adaptation
	Develop skills to draft adult basic blockand adaptations
	Develop the skill to design garments
	according to the theme
	Develop the garment construction skillsaccording to the pattern
	Assess, propose, & apply various techniques related to drafting, drapingand constructing of garments

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

HTC2 C08 Technical Textiles	Identify the opportunities to develop aproduct on a market.
	Analyses various technical textile products in order to recognize the manufacturing process.
	Understand the impact of the fibre characteristics and used technologies on the technical textile products.
	Select the textile elements and manufacturing processes to design the final product for end use
	Identifying major segments of thetextile industry and distribution channel.
HTC3C09 Fabric Construction and Analysis	Demonstrate the weaving, weaving loom, weaving mechanism & different weaving machineries.
	Identifying & applying the weave pattern – design, draft, peg plan, dentingorder
	Analyze the weaving calculations anddifferent types of weave pattern
	Create different weave effects inweaving
	Understand basic weaves & fancyweaves
	Identify different woven samples
HTC3C11 Textile Chemistry	Recall fundamental organic chemistry
	Estimate different types of chemicalsused in textile wet processing
	Identify dyes and estimate purity of dye solution and explain the mechanics ofdyeing
	Identify various machinery used for
	printing & finishing of fabrics which would help them in working indyeing/printing industry

Academic Year (2018-2019)

	Understand color theories, differentmeasures of color and specifications
	Understand the coloration of synthetic/natural fibers
	Infer the principle and method of application of various types of specialfinishes on textile fabrics
	Recommend eco-friendly practices intextile processing
	Apply sustainable practices related totextile issues
	Propose research and development in thefield of textile auxiliaries/dyeing/printing
ELECTIVE COURSES HTC3E0I Fashion Choreography	Understand various steps in planning ashow
	Understand the technical framework andsound check of fashion show
	Organize fashion show
	Understand different techniques for advertising and promotional activities
	Develop the fashion presentation skill
	Develop the managerial skills
ELECTIVE COURSES HTC3 E01 Fashion Communication	Understand various media incommunication
	Understand the technical framework andneed for fashion communication
	Develop skills in fashion writing
	Understand different techniques ofvisual communication
	Develop the fashion communicationskill
	Identify the media ethics for better workculture
ELECTIVE COURSES HTC3E01 Sociology Of Clothing	Categorize the evolution of clothingthrough the theories

	Discover the sociological aspects ofclothing
	Compare the personality factors andchoices of clothing
	Develop the skills in selecting clothingfor different age group
	Distinguish the fashion and socialvisibility and Outlining the theoretical perspectives offashion
ELECTIVE COURSES HTC3E02(1) Textiles And Environment	Identify the Indian textile industry
	Analyze the environmental impacts ofIndian textile Industry
	Explain the use of Biotechnology intextile wet processing
	Classify the types of Eco labels
	Identify the ecofriendly fibres and analyze the ecofriendly practices forfabric care
	Understand the various novel fibres
	Compare the difference between organicand conventional textile fibres
ELECTIVE COURSES HTC3E02(2) Science Of Clothing Comfort	Understand the importance of clothingcomfort
	Understand the factors affectingclothing comfort
	Identify the neuropsychological factorsrelated to clothing comfort
	Establish the relationship betweengarment fit and clothing comfort
	Develop a scientific approach towardsselection of clothing
	Understand the psychological aspects ofclothing in relation to its comfort

ELECTIVE COURSES HTC3E02(3) Testing Of Functional and Technical Textiles	Understand the properties of functionaland technical textiles
	Understand the objectives of testingfunctional textiles
	Understand the finishing proceduresused to treat technical textiles
	Understand the various test methodsused for technical textiles
	Identify the end use of functionaltextiles
	Understand the principles of testing
ELECTIVE COURSES HTC4E03(1) Home Textiles	Understand various types of HomeTextiles
	Understand the need of Home Textilesin different settings
	Identify the recent trends in HomeTextiles
	Understand the properties of hometextile products
	Develop innovative home textileproducts
	Develop entrepreneurial skills in thisfield
ELECTIVE COURSES HTC4E03(2) Computer Application in Fashion Designing	Illustrate accurate representations of garment specifications for communication purposes
	Develop skills to choose a variety of design softwares for visualcommunication of designs
	Design and produce innovative designsusing CAD softwares
	Determine suitable file formats fordigital outputs

	Develop skills to Construct digital files using appropriate processes andtechniques
	Make use of audio/visual aids topopularize the work done in designing
	Construct innovative garment designs
	Infer the advantages of 3D techniques indesigning and production processes
ELECTIVE COURSES HTC4E03(3) Knit Wear Technology	Understand various knitting procedures
	Understand the working of knitmachines
	Identify the different types of knitstructures
	Understand the finishing of knit fabrics
	Identify the applications of knittedfabrics
	Understand the properties of knittedfabrics

B.Sc. Textiles and fashion technology

PROGRAMME SPECIFIC OUTCOMES

PSO1	Understand the basics of textile science, apparel production, fashion marketing, costumes, home science and visual merchandising
PSO2	Create an aesthetic sense towards fashion
PSO3	Equip with entrepreneurial skill in various fields in the fashion industry
PSO4	Train young minds create sustainable fashion ideas
PSO5	Develop productive design thinking for the betterment of the society

Academic Year (2018-2019)

PS06	Build attitudes and values promoting good citizenship
PS07	Create knowledge and skill for community development

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
HTF1B01 Historic costumes	Understand the history of originof clothing
	Understand the material content ofvarious ages
	Understand the basic functions and uses ofclothing
	Discuss the global perspective ofcostumes and accessories
	Identify the diversity of Indiancostumes
HTF2B02 Fashion marketing and shop floor management	Recognize the importance of aesthetics and principles of design in the seasonal fashion world
	Evaluate the trends in the fashion industry and their impact on overallbusiness operations and strategy
	Assess social, cultural and economic factors and their impact on the global consumer and market place
	Perceive the skill of inspirational andinnovative techniques to implement in apparelmerchandise
	Plan and budget sales for a seasonalrange
	Determine a commercially appropriateproduct range for a retailer
	Create a sales forecast for a retail store

Academic Year (2018-2019)

	Analyze the fashion industry's activities to
	develop/implement a marketingstrategy
HTF3B03 Computer aided fashion design	Illustrate accurate representations ofgarment specifications for communicationpurposes
	Develop skills to choose a variety ofdesign software for visual communication ofdesigns
	Design and produce innovative designsusing CAD software
	Determine suitable file formatsoutputs
	Develop skills to Construct digitalfiles using appropriate processes and techniques
	Make use of audio/visual aids topopularize the work done in designing
	Construct innovative garment designs
	Infer the advantages of 3Dtechniques in designing and production processes
HTF4B04 Garment construction and pattern making	Interpret a design with practicalunderstanding of garment construction
	Develop designs prior toproduction of garments
	Analyze the designs by draping different fabrics to achieve the difficultdesigns.
	Identify the features of garment, characteristic postures and harmony between draped fabric and wearer.
	Develop the appearance of construction and neatness of workmanship
	Make use of basic pattern adaptations to enable a design to fita person

	Develops skills to createpatterns for garments
HTF5B05 Garment costing	Develop the elements of basic costsheet of garment.
	Discover the control of cost whendecided to start a business.
	Make a use of proper decision in theproduction of garment
	Organize a budget for an industry.
	Explain the productivity of materialand labour in a garment industry.
	Determine the budgeting principlesfor the apparel industry
	Construct the cost-plus pricing method
	Analyze the accounting for factoryoverhead
HTF5B06 Fashion presentation	Apply designing and illustrating usingvarious mediums
	Distinguish the fashion accessorydesigning
	Build the theme-based illustrations
	Examine the basic aspects of fashionshow
	Categorize the survey boards
	Explain creating lines
	Design a portfolio
	Evaluate designing skills
HTF5B07 Traditional Indian textiles and surface ornamentation	Develop the different hand andmachine embroidery stitches.
	Develop creative designs in embroidery and prepare garments byusing this embroidery.
	Identify the various color schemes and their applications in surfaceornamentation.
	Identifying new opportunities in craft,art, Fashion and markets.
	Understand the richness of the Indianembroidered textiles.

	Create unique design using traditionalembroidery patterns and stitches.
	Build operation of tools andinstruments.
HTF5B08 Concepts of fashion design	Analyze basic elements of design.
	Analyze the designing principles in agarment.
	Assess body figures and dress details
	Categorize the use of elements and principles of design in designinggarments
	Analyze the wardrobe planning.
	Explain fashion terms.
	Examine the colour theory
	Experiment with basic croqui for female,male and child
	Organize live model drawing
	Apply the rendering techniques & construct the paintings using different mediums
HTF5D02 Interior Decoration (OPEN COURSE)	Understand the elements andprinciples of design to create harmonious and balancedinterior
	Explain the properties of colour and itseffects on the intended style
	Discover the effect of natural and artificial light on colour and surface texture
	Discover the importance of ensuringquality finishes on floor and walls tocreate professional and enduringinterior space
	Create striking and functional backdropfor furnishings and window treatments
	Apply knowledge of design elementsto the reality of placing objects inperfect manner
	Create visual ideas about functionalaspects of housing

Academic Year (2018-2019)

Plan creative kitchen design byadapting principles	
Summarise the elements of design infloral arrangement	

M Sc. NUTRITION AND DIETETICS

PROGRAMME SPECIFIC OUTCOMES

PSO1	Understand the functioning of various organ systems in human body and study the importance of nutrition during various developmental stages of lifecycle.
PSO2	Understand the role and metabolism of nutrients and the relevance of various food groups and functional foods.
PSO3	Understand the dietary management and principles of diet counselling, and biochemical changes during various therapeutic conditions.
PSO4	Understand the relevance of nutrition in relation to community and understand various strategies developed in overcoming malnutrition.
PSO5	Understand the techniques of research and develop skills in conducting research and applying statistical procedures.
PSO6	Understand the various aspects of quantity food production and service in various institutions.

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
HND1 C01 Human Physiology	Understand structure, component and functions of all systems of the humanbody
	Explain how to cope with disorders andother environmental factors
	Elaborate on common tests used toanalyze different disorders
	Outline the role of central nervoussystem in controling voluntary and involuntary activities of the human body
	Illustrate the role of endocrine system inthe regulation of body activities

Academic Year (2018-2019)

	Identify the causes of Infertility andMethods of contraception
	Comprehend blood group system andcommon facts related to the same
	Apply resuscitation methods inemergency situations
	Illustrate the mechanism to maintain normal water, electrolyte and pHbalance
	Understand the adaptation of the body to unfavourable condition, stresses,physical activity and diseases
HND1 C02 Nutrition Through Life Cycle	Understand the role of food in daily life.
	Compare the nutritional requirement indifferent age groups.
	Understand nutrition related problems inlife cycle.
	Understand national and international health programmes to preventmalnutrition.
	Plan balanced diets for different agegroups.
	Develop competency in planning diets to meet the nutritional requirements ofdifferent socio-economic levels.
	Understand the need of nutrition inspecial events.
	Understand Growth monitoring andimmunization schedule.
HND1 C03 Advanced Food Science	Understand the structure andcomposition of different foods
	Assess the functional properties of food
	Compare the methods of cooking
	Analyse the reasons and prevention ofbrowning in vegetables and fruits
	Develop different nutritious recipes withdifferent foods
	Judge the organoleptic evaluation offoods

	Detect adulterants present in foods
	Discuss the emerging trends in foodscience
HND1 C04 Macro Nutrients	Understand the concepts of SportsNutrition
	Analyze nutrient requirement of anathlete
	Explain the importance of Nutritionamong Sports Personnels
	Comprehend changes in food after consumption
	Determine nutritional status ofindividuals with varying activity levels
	Apply knowledge of metabolism and nutrition
	Understand the need and benefits ofnutrients present in the food
	Apply the benefits of non-nutritional components of food in different stagesof life
	Analyze calorimetry, work capacityand its efficiency
	Explain control of food intake and metabolic consequences of starvation
HND1 C05 Research Methods and Statistics	Outline of research concepts
	Compare different types of researchmethods
	Construct research design or proposalfor future project works
	Examine various sampling techniquesand measurement scales
	Develop report writing or presentationskills
	Choose right statistical techniques to beused with various research methods
	Interpret statistical literature, research articles, the claims made on the basis of statistics
HND2 C07 Food Service Management	Apply best practices and standards related to protocol and promotion in the food service industry

Academic Year (2018-2019)

	Develop organization chart to change and enhance wellness in diverseindividuals and groups
	Identify use and operation of major foodservice equipment and relationship for efficient product flow
	Apply the principles of human resource management to different situations in Hospitality Industry
	Construct management and business theories and principles for the development of programs or services.
	Evaluate budget, food cost control andinterpret financial data
	Use effective and professional oral and written communication anddocumentation.
	Study hygiene and sanitation in the foodservice industry
	Build a kitchen layout using theavailable physical facilities
	Ensure the patients receive their best possible nutritional intake whilst inhospital
HND2 C08 Clinical and Therapeutic Nutrition	Discuss the nature and scope of Clinical and therapeutic nutrition and identify circumstances where diet may need modifications
	Take part in supervised practical activities like diet plan that addresses a select client's disease that incorporate the client's cultural preferences.
	Understand the physiology, metabolismand special requirements of critically ill patients.
	Explain different types of Food allergyand intolerance and provide information on diagnosis, clinical symptoms andappropriate dietary modifications
	Develop professional ethics of dietitianin different situations

Academic Year (2018-2019)

	Demonstrate sufficient problem –solving skills to assess multifactorial aspects of nutritional care and organize and prioritize necessary tasks within time constraints	
	Illustrate the effect of various metabolic disorders on nutritional status and its dietary adjustments.	
HND2 C09 Nutritional Management in Life Style Diseases	Understand the risk factors associated with life style diseases	
	Understand the symptoms associated with life style diseases	
	Explain the management of life style disorders	
	Develop skills to plan appropriate diet for life style disorders	
	Develop the capacity of health professionals in management of the lifestyle diseases	
	Understand the complications of lifestyle diseases	
	Understand the foods which helps to reduce degenerative diseases	
	Discuss modification in life style with patients to reduce the complications in future	
HND3 C10 Vitamins And Minerals	Understand the chemistry of minerals & vitamins	
	Understand the food sources and factors affecting absorption of vitamins and minerals	
	Understand the functions of vitamins and minerals	
	Understand the metabolism of vitamins and minerals	
	Understand the nutritional requirement of various vitamins & minerals	
	Study the states of deficiency & toxicity of vitamins & minerals	
	Understand the interrelationship between various micronutrients	

Academic Year (2018-2019)

	Estimate the levels of nutrients invarious food sources
HND3 C11 Community Nutrition	Identify nutrition assessment techniques
	Recall the nutrition status of the country
	Apply nutrition intervention programmes
	Construct tools for the conduct ofnutrition education programmes
	Recall various food production methods
	Understand the role of various organizations in compactingmalnutrition
HND3 E01 Paediatric Nutrition	Demonstrate a thorough knowledge ofthe theory of human nutrition and dietetics as it applies to paediatrics.
	Understanding the aetiology,pathophysiology and clinical features of paediatric diseases and conditions thatrequire dietary modifications.
	Apply knowledge of food, health, nutrition and dietetics to the nutritionalcare of children.
	Identify resources for promoting goodnutrition for children in the community.
	Identify newborns with abnormalities.
	Understand the need for immunizationduring various life stages.
ELECTIVE COURSES HND3 E03 Functional Foods And Neutraceuticals	Understand the concept ofnutraceuticals, probiotics and prebiotics
	Discover different foods which havenutraceutical properties
	Identify nutraceuticals that have effecton human health
	Discuss marketing and regulatory issuesfor Nutraceuticals
	Analyse the opportunity for functionalfood market growth

Academic Year (2018-2019)

ELECTIVE COURSES HND3 E06 Nutritional Counselling and Education	Define counseling and nutritionalcounselling
	Classify types of counselling
	Interpret different theories ofcounselling
	Identify the person who needscounselling
	Take part in nutrition education
	Interview persons who needscounselling
HND4 L03 Metabolic And Biochemical Changes in Clinical Diseases-Practical	Outline advanced integrated knowledge and understanding normal cell processes and physiologic effects adapting general principles.
	Explain the role of drug, food and nutrient interactions in human body.
	Utilize the underlying principles of inherited or other metabolic disorderswith special references.
	Discuss the influence of dietary factors on the developments of diseases andmethods of detection.
	Predict how metabolic changes in bothphysiological and pathological states may affect human nutritionalrequirements.
	Analyze informations from relevant scientific literature on the applicationsof biophysics relevant to nutrition.
	Estimate clinical diagnosis methods forendocrinological abnormalities by examining mode of action, enzymes andhormones.
ELECTIVE COURSES VPND 4 E07 Diabetic Care and Management	Understand the prevalence of DiabetesMellitus
	Understand the anatomy and physiologyof pancreas
	Understand the pathological changes inDiabetes Mellitus

Academic Year (2018-2019)

	Understand the symptoms and diagnosisof Diabetes Mellitus
	Understand the micro and macro vascular complications of DiabetesMellitus
	Understand the co –morbid conditionsof Diabetes Mellitus
	Understand the management of DiabetesMellitus
	Plan diets according to the insulinrequirement

B Sc FAMILY AND COMMUNITY SCIENCE

PROGRAMME SPECIFIC OUTCOMES

PSO1	Understand the basics of Nutrition, Textiles, Human Physiology, Microbiology, Interior decoration and Family relation with regard to community living.
PSO2	Equip with skills to manage resources in a dynamic way.
PSO3	Train young minds improve every facet of family and social living- food, clothing, health and child care
PSO4	Build attitudes and values promoting good citizenship.
PSO5	Inculcate keen interest and curiosity in developing research culture.
PSO6	Create knowledge and skill for societal development

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
FCS1B01 Fundamentals Of Nutrition	Understand the basics of nutrition,health and malnutrition
	Understand the nutritional status andnutritional classification of foods
	Summarize the ICMR RecommendedAllowances for Indians (RDA)

Academic Year (2018-2019)

	Understand the classification, functions,digestion, absorption, metabolism, sources, requirements and deficiency ofmacronutrients	
	Understand the functions, sources,deficiency and requirements of fat soluble vitamins and water-solublevitamins	
	Understand the functions, sources, deficiency and requirements of mineralslike Calcium, Iron, Iodine, Fluorine	
	Determine the energy value of food,Total energy requirements and BMR	
	Understand the requirements of water and maintenance of water balance in the	
	body	
FCS2B02 Human Development	Understand stages of humandevelopment.	
	Understand the needs and problems ofexceptional children.	
	Develop skills in organizational behaviour and generate solutions tosituational problems	
	Interpret the values and role of play in child's development.	
	Develop knowledge of children's laws and rights	
FCS3B03 Research Methodology And Bioinformatics	Understand research concepts	
	Compare different types of researchmethods	
	Construct research design or proposalfor future project works	
	Examine various sampling techniquesand measurement scales	
	Develop report writing and datapresentation skills	
	Outline of bioinformatics and statistics	
	Enable students to reflect knowledge & skills in bioinformatics and to apply it in various aspects of Home Science	

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

FCS4B04 Food Science	Understand structure, functions and classification of foods and different foodgroups
	Understand the nutritional and anti-nutritional factors of various foods
	Assess the effect of heat on foods andcompare different methods of cooking
	Understand food additives and different preservation methods for foodprocessing
	Evaluate organoleptic qualities of food
	Estimate content of carbohydrate, Vitamin C and reducing sugars in food
	Detection of adulterants in food
	Develop different recipes and evaluateits nutritional content
	Understand structure, functions and classification of foods and different foodgroups
FCS5B05 Human Physiology and Microbiology	Understand about the anatomy of humanbody
	Understand the various organ systemsand its functioning
	Understand the morphology of microorganisms and their role in healthand diseases
	Understand the factors affecting growth of microorganisms and mode oftransmission
	Understand the types of immunity andmethods of sterilization
	Understand the mechanism of spoilageof food and etiology of food infections
FCS5B06 Diet In Health	Understand the role of food in daily life.
	Compare the nutritional requirement indifferent age groups.
	Understand nutrition related problems inlife cycle.
	Understand national and international health programmes to preventmalnutrition.

Academic Year (2018-2019)

	Plan and prepare balanced diets fordifferent age groups.
	Develop competency in planning diets to meet the nutritional requirements ofdifferent socio-economic levels.
	Understand the need of nutrition forsports persons.
FCS5B07 Family Resource Management	Understand the process of managementin family living
	Develop wise decisions in personal lifeand make use of given resources
	Apply the principles of Ergonomics after critically analyzing one's work habits
	Understand the functions of house andthe principles for planning a house
	Develop a creative sense in interior decoration by applying the elements and
	principles of design
	Improve the standard of living utilizingfamily resources
FCS5B08 Textile Science	Develop strong knowledge base in theproduction of fibres and yarns
	Identify textile fibres and apply it tovarious end uses
	Understand about woven and nonwovenfabrics
	Develop ethical values concerning production and finishing of textiles
	Illustrate different methods and mechanism of dyeing and printing
	Create awareness on green textiles
FCS6B09 Dietetics	Understand the role and work ethics ofdietitian
	Understand the principles of diettherapy
	Understand and plan the routine hospitaldiets
	Understand the various deficiencydiseases
	Understand the risk factors of varioustherapeutic conditions

Academic Year (2018-2019)

	Plan and prepare diet during variousdeficiency diseases
	Plan & prepare diet for therapeuticconditions
	Understand the management of variouslifestyle diseases
FCS6B10 Fabric Care and Apparel Designing	Explain different laundering techniques
	Apply principles of laundering ondifferent fabrics
	Understand traditional Indian textilesand embroideries of India
	Design garments keeping the elementsand principles of design
	Find out latest fashion trends in India
	Create flat patterns and adapt them tospecific styles
FCS6B11 Concepts in Family Relation	Develop healthy attitude towardsmarriage and interpersonal relationships
	Understand the importance of family in
	today's social context
	Solutions to thrive different circumstances in stages of life cycle
	Solving critical family situations
	Develop sound knowledge on methodsof family planning
	Improve the knowledge regarding legalissues concerning women
VI FCS6B12 (E2)- Quantity Food Preparation Techniques	Identify the scope of food serviceindustry
	Using different types of menus
	Analyze menu pricing and evaluation
	Apply different techniques in foodpurchasing
	Identify and develop receiving procedure and storage of food items
	Build standardized recipes and portioncontrol techniques
	Understand the product standards forpurchasing and selling food items
	Construct different styles of foodservice system

Academic Year (2018-2019)

	Evaluate budget, food cost control andinterpret financial data
	Ensure the patients receive their best possible nutritional intake whilst inhospital
FCS5D02 Interior Decoration (Open Course)	Understand the elements and principles of design to create harmonious andbalanced interior
	Explain the properties of colour and itseffects on the intended style
	Discover the effect of natural and artificial light on colour and surfacetexture
	Discover the importance of ensuringquality finishes on floor and walls to create professional and enduring interiorspace
	Create striking and functional backdropfor furnishings and window treatments
	Apply knowledge of design elements tothe reality of placing objects in perfect manner
	Create visual ideas about functionalaspects of housing
	Plan creative kitchen design by adaptingprinciples
	Summarise the elements of design infloral arrangement

MA ECONOMICS

PROGRAMME SPECIFIC OUTCOMES

PSO1	Understand Partial and General Equilibrium theories in Microeconomics and Macroeconomics
PSO2	Understand Indian Economic Growth and Development in Research perspective
PSO3	Understand Banking, trade and financial systems of Indian and international economy
PSO4	Analyse research problems using econometric tools

COURSE OUTCOMES

COURSES	COURSE OUTCOMES

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

VPEC1C01 Micro economics: Theory and Applications I	Explain consumer behavior underuncertainty
	Examine choice under risk
	Discuss the recent developments indemand theories
	Distinguish between CD and CESproduction function
	Examine modern theories of cost
	Differentiate collusive and noncollusive models of oligopoly
	Discuss different concepts of gametheory
	Discuss different managerial theories
	Explain Limit pricing models
VPEC1C02 Macro-Economic Theories and Policies I	Discuss the Micro foundations ofMonetary Theory
	Explain the Neo classical, Keynesian and post Keynesian theory of Demandfor money
	Explain Money supply, its measure andMoney multiplier
	Explain the Law of consumption andtheories of Consumption function
	Discuss theories of Investment
	Discuss the IS LM General Equilibrium, Neo classical and Keynesian version
	Examine the objectives ofmacroeconomic policies
	Discuss the implications of Fiscal andMonetary policy instruments
VPEC1C03 Indian Economy: Problems and Policies	Examine the contribution of differentsectors to GDP and employment
	Discuss the major developmental issuesand Environmental Degradation
	Explain the implications of economicPlanning in India

Academic Year (2018-2019)

	Examine the Demographic changesunder planning and five-year plans
	Discuss the Implications of Economicreforms in India
	Explain the structural Changes of KeralaEconomy
	Discuss about the Decentralization andstate finances
VPEC2C05 Microeconomics: Theory and Applications II	Explain General equilibrium ofExchange and Production
	Discuss theories in welfare economics
	Distinguish between negative and
	positive externalities in consumptionand production
	Examine theories related to publicgoods and market failure
	Discuss macro theories of distribution
	Explain search cost theories
	Discuss the implications of asymmetric information using adverse selection and efficiency wage theory
	Explain input output analysis
	Discuss linear programming problemusing graphical and simplex methods
VPEC2C06 Macroeconomics: Theories and Policies II	Explain Keynesian, Monetarist andStructural theories of inflation
	Discuss implications of inflation including cost of inflation, anti- inflationary measures and inflationtargeting
	Explain Neo Classical and KeynesianLabour market theories
	Examine DMP model of job searchtheory

Academic Year (2018-2019)

	Discuss theories of business cycles including monetary, Keynesian, RBC theory, PBC theory and current globalrecession
	Distinguish between New ClassicalMacro Economics and Supply side Macro Economics
	Explain modern developments in postKeynesian macro economics
	Discuss new Keynesian explanations forreal wage rigidity
	Describe Monetary and Fiscal policy effects in fixed and flexible exchangerates
VPEC2C07 Public Finance: Theory and Practice	Understand stages involved in budgeting
	Explain the concepts of budget deficit and fiscal deficit and their corrective measures
	Discuss partial and general equilibriumtheories of taxation
	Explain theories of public expenditure including Wagners, Wiseman-Peacockand Critical limit hypothesis
	Understand types of public expenditureand its control and management
	Discuss public debt management and itsmacro-economic impact
	Discuss theory of fiscal federalism and problems of centre-state financial relations in India
	Explain the role of Government in economic activities like allocation, distribution and stabilization
	Analyse Indian tax system and reportsof finance Commissions in India

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

VPEC3C09 International Trade	Explain importance and contributions of trade to development
	Examine terms of trade and economic development
	Discuss the developments in trade theories
	Examine transportation cost and international trade
	Explain how economic growth affect international trade.
	Distinguish between tariff and non-tariff trade barriers
	Explain international trade policies
	Discuss different forms of economic integration
	Explain theories of Customs Union
VPEC3C10 Growth and Development	Explain growth concepts
	Examine different development indicators
	Discuss grand theories of economic growth
	Examine models of economic growth
	Explain partial theories of economic growth
	Distinguish between grand and partial theories of development
	Examine centre periphery thesis
	Explain limits to growth model
	Discuss environment and development
VPEC3C11 Banking: Theory and Practice	Knowledge about the structure and functions of central bank

	Theoretical and practical knowledge about policies of Reserve Bank ofIndia
	An understanding about specializedfinancial and investment institutions
	An awareness on the banking sectorreforms in India since 1991
	An understanding about internationalbanking and multinational banking
	Knowledge about the structure andfunctions of commercial banks
	Knowledge about the structure andfunctions of cooperative banks
VPEC3C12 Basic Econometrics	Understand methodology ofEconometrics
	Estimate Econometric models ofdifferent functional forms
	Explain econometric problems andremedial measures
	Explain the importance of laggedmodels in Economics
	Estimation of lagged models'
	Estimation of Simultaneous equationmodels
	Forecasting using estimated models
	Policy analysis using econometricmodels
VPEC4C13 International Finance	Understand different approaches to BOPand currency convertibility
	Compare fixed and flexible exchangerates
	Discuss theories of exchange rate including purchasing power parity theory, Monetary approach and portfoliobalance approach

Academic Year (2018-2019)

	Understand foreign exchange marketand related concepts
	Discuss policy adjustments models forbalancing foreign exchange market
	Understand International capital flows
	Evaluate the role of working of MNC's
	Understand the evolution of IMS
	Explain present International monetarysystem
VPEC4C14 Financial Markets	Understand various aspects of financialmarket including the functions, types, participants and intermediaries
	Explain the concepts of financialinclusion and inclusive growth
	Differentiate instruments of moneymarket
	Evaluate the structure and reformsoccurred in the Indian money market
	Understand capital market instrumentsand institutions
	Analyses the capital market reforms andthe role of SEBI in capital market
	Analyse the trading mechanism in stockexchange
	Identify the various types of derivatives and trade mechanism in derivativemarket.
	Differentiate options and future market
VPEC4E01 Advanced Econometrics	Understand dummy regression models
	Understand basic concepts of time serieseconometrics
	Explain tests of stationarity
	Estimation and forecasting of stochasticprocess models

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Estimation and forecasting of ARCHand GARCH models
	Differentiate fixed effects, Randomeffects and random coefficient regression models in the context ofpanel data
	Analyse monetary, macroeconomic and international economic theories using econometric methods
	Analyse agriculture and industryperformance using econometric methods
VPEC4E02 Research Methodology and Computer Applications	Understand different approaches inSocial Science Research
	Explain formulation of hypothesis inResearch
	Explain research design based ondifferent methods of research
	Describe data collection methods andtools
	Describe data compilation, coding andanalysis techniques
	Understand Report Writing procedures
	Analyse data using different statisticalmethods with the help of excel package
	Tabulation and analysis of data usingSPSS
VPEC4PR Dissertation	Understanding Research Methods
	Application of Research Methods
	Analysing Socioeconomic Issues

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

BA ECONOMICS

PROGRAMME SPECIFIC OUTCOMES

PSO1	Understand primary, secondary and tertiary sectors of Indian economy and Kerala economy
PSO2	Understand economic theories on consumption, savings, investment and distribution at micro and macro levels
PSO3	Analyse world and Indian economic growth, development and reforms
PSO4	Compute and interpret the economic indicators using mathematical and statistical techniques

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
VEC1B01 Microeconomics I	Understand nature, scope andmethodology of micro economics
	Determine market equilibrium based ondemand and supply curves
	Determine elasticity of demand andsupply
	Determine consumer equilibrium undercardinal and ordinal utility theories
	Application of indifference curves
	Differentiate price and substitutioneffects in Hicksian and Slutsky methods
	Understand the concept of consumersurplus
	Understand the concept of productionfunction and explain the properties ofCD and CES production functions
	Determine producers equilibrium usingisocost line and isoquants
VEC2B02 Microeconomics II	Understand the various concepts of cost
	Examine the traditional and moderntheories of cost

Academic Year (2018-2019)

	Describe the structure and equilibrium of perfectly competitive market
	Understand monopoly market structure and its short run and long run equilibrium
	Compare various degrees of price discrimination
	Examine the features of monopolistic competition
	Understand the concepts of product differentiation and selling cost
	Explain the characteristics of oligopoly and different models of oligopoly
	Understand the demand and supply of inputs and factor price determination
VEC3B04 Modern Banking and Insurance	Explain the Brief History of Banking
	Examine the functions of Development banks
	Discuss the recent trends in Banking
	Discuss the implications of Banking sector reforms
	Explain the types of insurance organisations
	Discuss the risk management process in insurance sector
	Explain the Life insurance, Term insurance and Endowment policies
VEC4B06 Computer Application for Economic Analysis	Understand the basic components of a computer
	Explain different types of computers software's
	Apply MS word to form documents
	Apply MS word for recording and mailmerging

Academic Year (2018-2019)

	Apply EXCEL for creating text, charts,graphs and formulae
	Apply EXCEL to execute different mathematical, statistical and financial functions
	Apply PPT to create presentations
	Explain the evolution of internet and itsbasic terminologies
	What are the uses of internet in modernera
VEC5B07 Macroeconomics I	Understand scope, basic concepts andmodels of macroeconomics
	Understand definition concepts and methods of computation of National Income
	Explain classical theories and conceptsof Macro economics
	Understand Keynesian theories,concepts and computation of variables
	Examine income determination through 2sectors and 3 sectors by diagrammatic and algebraic method
	Examine instruments of fiscal policy and operation of multiplier effect in the economy
	Understand equilibrium and
	disequilibrium concepts
	Understand Keynesian theory ofemployment and equilibrium
VEC5B08 India's Economic Development: National and Regional	Understand the development experience in India during pre and post independent period
	Analyse the economic reforms since1991

	Explain the sectoral contribution ofAgriculture and Industry
	Explain the trend in agriculture andindustrial sector in India
	What are the challenges facing IndianEconomy?
	Examine the remedial measures toovercome the challenges
	Explain the structural development ofKerala Economy
	Examine the Kerala Model ofDevelopment
VEC5B09 Economics of Capital Market	An understanding about the characteristics of different financialassets
	Knowledge about the basic concepts,structure and functions of capital market
	An understanding about the capitalmarket instruments and institutions
	To study the role of SEBI in capitalmarket
	Knowledge about the functions ofprimary market and its intermediaries
	Identification of the methods of issue in
	the new issue market and itsapplications
	Analysis about the secondary marketand the stock market indices
VEC5B10 International Economics	Understand the importance of internaland international trade
	Explain the superiority of Modern theory of trade by comparing othertheories.

	Examine the commercial policy of international trade.	
	Explain different forms of economic integration	
	Examine different systems of foreign exchange determination	
	Explain the equilibrium and disequilibrium in Balance of Payment.	
	Examine different classifications of international financial flows.	
VEC6B11 Macroeconomics II	Understand the nature and functions of money	
	Examine the theories of money	
	Describe theories of inflation and identify measures to control inflation	
	Understand meaning and types of unemployment	
	Compare various theories of business cycle	
	Examine fiscal, Monetary and income policies and their instruments	
	Examine the open economy macro models	
	Describe the general equilibrium of an open economy using IS-LM-BP curves	
	Compare the relative effectiveness of monetary and fiscal policy	
VEC6B12 Mathematical Economics	Explain the scope of mathematical economics with respect to other branches of economics	
	Define economic functions	
	Estimate average functions and marginal functions from total functions	

	Calculate profit maximizing output and cost minimizing output using Lagrangian multiplier and substitution methods
	Differentiate production functions including homogenous, non homogenous, linear and non linear
	Explain the properties of CD Production function
	Apply linear programming for constraint optimisation
	Determine market equilibrium under perfectly competitive, monopoly, monopolistic and oligopoly markets
VEC6B13 Public Finance	Understand the meaning and scope of public finance
	Realizing the type of goods specially public goods, private goods, mixed and merit goods
	Recognizes the sources of public revenue
	Understand the major taxes in India along with effects, impacts, incidence and shifting of taxes
	Recognizing the meaning and importance of public expenditures and related theories
	Understanding the concept of project evaluation and cost benefit analysis
	Realizing the concept of public debt and debt management
	Understanding budget and types of budget
	Understanding the Meaning and importance of local finance in India and role of finance commission

Academic Year (2018-2019)

VEC6B14 Development Economics	Understand concepts of growth and Development and different measures of Development
	Examine evolution of theories ofDevelopment
	Understand different approaches toGrowth theory
	Understand development of IndianEconomy through five-year plans
	Understand the fundamentals ofdifferent plan models
	Understand concepts of poverty andmeasurements
	Examine Gender issues and relatedconcepts
	Examine the concepts of sustainable development, models and issues of environment
VEC6E01 Environmental Economics	Understand Environment concepts andimportance
	Explain theories of environmentaleconomics
	Understand concepts of externalities andits measurement
	Recognize the environmental issues connected with urbanization and population
	Examine different concepts ofsustainable development and approaches
	Explain different methods of evaluatingenvironmental benefits and approaches to sustainable development
VEC6B15(PR)	Understanding basics of research

Academic Year (2018-2019)

Project Work	methodology
	Analysing Socioeconomic issues

Complementary Course for BA Sociology

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
VPY1C01-Psychological Processes I	Understand the definition, nature andscope of Psychology
	Identify the schools of Psychology
	Understand the methods of Psychology
	Understand the structure and function ofneuron
	Identify the aspects of attentionalprocesses
	Evaluate the theories of colour perception and perceptual organisationprinciples
	Analyse the learning principles
	Understand the process of memory
	Analyse the theories of forgetting
VPY2C02-Psychological Processes II	Understand the cognitive processes
	Understand the motivational processesand types of motives
	Analyse the theories of emotion
	Evaluate the theories of intelligence
	Understand the assessment ofintelligence
	Understand the emotional intelligence
	Understand the nature and determinantsof personality
	Evaluate the theories of personality
	Understand the assessment ofpersonality

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

VPY3C03-Abnormal Psychology	Understand the meaning and classification of mental disorders
	Identify the clinical features and typesof anxiety disorders
	Identify the clinical features and typesof somatoform disorders
	Identify the clinical features and typesof dissociative disorders
	Identify the signs, symptoms andclinical features of schizophrenia
	Identify the signs, symptoms and clinical features of mood disorders
	Identify the signs, symptoms and clinical features of personality disorders
VPY4C04-Psychology of Social Behavior	Understand the definition, nature andscope of social psychology
	Identify the components andcharacteristics of attitude
	Identify the factors influencing attitudeformation and attitude change
	Understand the aspects of socialperception-nonverbal communication, attribution, impression formation andimpression management
	Understand the aspects of social cognition-schema, heuristics, priming,automatic and controlled processing
	Evaluate the potential sources of error insocial cognition
	Understand the nature, functions and concepts of group –social facilitation, social loafing, deindividuation
	Understand the process of decisionmaking in groups
	Understand the aspects of social influence-conformity, compliancetechniques, obedience to authority
	Understand the theoretical perspectivesand features of prosocial behavior
	Understand the theoretical perspectives, features, prevention and control ofaggression

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

History (as Complementary Course for BA Economics and BA English)

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
VHY1C01 - Modern Indian History (1857 TO THE PRESENT): India under Colonial Rule and Early Resistances	Understand the entry of Europeanpowers to India
	Identify the modes of expansion and consolidation of East India CompanyRule
	Understand and Analyze the modes ofresistance against British rule.
	Recognise the contemporary socio-religious changes
VHY2C02 - Modern Indian History (1857 TO THE PRESENT): Indian National Movement First Phase (1885 - 1917)	Understand the emergence ofnationalism among Indians
	Identify the features of early phases of national movement
	Analyse the economic critique ofcolonialism
	Understand the emergence of mass movements against the British
VHY3C03 – Modern Indian History (1857 TO THE PRESENT): Indian National Movement - Gandhian Phase (1917 - 1947)	Understand the Gandhian tools for struggle against British
	Recognise the various Gandhian constructive programmes
	Understand the critique of Gandhianmethods
VHY4C04 - Modern Indian History (1857 TO THE PRESENT): Selected Themes in Contemporary India	Identify the foundations of Indianrepublic
	Analyze the changes in economy inpost-independent India
	Study the forms of violence againstenvironment in contemporary India

Academic Year (2018-2019)

	Understand the issue of communalismin India after independence.
B A English	
VHY1C05 - Social and Cultural History of Britain: Ancient and Medieval Period	Identify the early invasions of groups toBritish Isles
	Understand and analyse the nature ofAnglo-Saxon life
	Analyze the medieval social formationsand institutions
	Understand the early literature in Oldand Middle English language
VHY2C06 - Social and Cultural History of Britain: History of Tudors and Stuarts	Understand the rise of Stuart dynasty inEngland
	Identify the changes in economy andsociety in early modern Britain
	Analyze the nature of literary worksproduced during this period
VHY3C07 - Social and Cultural History of Britain: History of Revolutions and the Era of Colonialism	Study the history of major revolutions in modern world and its impact on British history and literature
	Understand the rise of various newtrends in literature
	Analyze the emergence of Britain as acolonial power
VHY4C08 - Social and Cultural History of Britain: History of Victorian and Post-Colonial Developments	Understand the aspects of life inVictorian and post-Victorian England
	Analyze the role of Britain in the post-colonial world
	Identify the various literary trends of thelate nineteenth and twentieth century.

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

Complementary course for BA Sociology and BA ENGLISH LITERATURE

<u>**COURSE OUTCOMES**</u>

COURSES	COURSE OUTCOMES
VPS 1C01- Indian Constitution And Politics: Basic Features	Understand the three phases in Indian National Movement
	Trace the history of the Constitutional Development –Acts of 1909 1919 ,1935 &1947
	Understand the composition, functions and weakness of the Constituent Assembly
	List the characteristic features of the Indian Constitution
	Explain the key words and objectives of The Preamble
	Understand the meaning of Citizenship with reference to the Citizenship Act of 1955
	Distinguish between Fundamental Rights and Fundamental Duties
	Assess the Directive Principles of State Policy
VPS2C02- Indian Constitution and Politics – Governmental Structure	List the power and functions of the President, Vice President, Council of Ministers, Prime Minister
	Explain the composition, powers and functions of Lok Sabha and Rajya Sabha
	Outline the functions and role of the Speaker
	List the power and functions of the Governor and Chief Minister
	Understand the composition, powers and functions of Legislative Assembly and Legislative Council
	Describe the composition, jurisdictions and functions of Supreme Court and

Academic Year (2018-2019)

	High Court
	Appraise the concept of Judicial Review and Judicial Activism
VPS3C03- Indian Constitution and Politics –: Political Dynamics	Explain the features of the Indian PartySystem
	Analyze the growth, ideology andProgrammes of 7 National Parties
	Scrutinize the reasons for the growth ofRegionalism
	Examine ideology and programme ofMajor Regional Parties
	Assess the electoral process, composition and functions of theElection Commission
	Identify the need for Electoral Reforms
	Explain the methods and procedure foramending the Constitution
	Identify the three types of services inIndia
	Illustrate the composition, power andfunctions of the Union Public Service Commission and the State Public Service Commission
VPS4C04- Indian Constitution and Politics –Federal dynamics and decentralization	Explain the characteristic features ofIndian Federalism
	Examine the Legislative, Administrative and Financial Relations between Centreand State
	Study the constitutional impact ofNational, State and Financial Emergency
	Discover the significance of the 73rd and74th Amendment
	Determine the merits and demerits ofReservation policy in India
	Investigate the challenges to IndianDemocracy- Communalism, Religious fundamentalism, Criminalization ofpolitics
	List the composition and functions of Finance Commission, NITI AYOG,National Development Council

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

MA SOCIOLOGY

PROGRAMME SPECIFIC OUTCOMES

PSO1	The programme can provide a comprehensive overview of the foundational concerns and current debates in sociology, and offers a range of options for exploring applications in specific areas of research.
PSO2	Learn about current theoretical tools and develop skills in research and data analysis, which can be used in a range of professional fields.
PSO3	The sociology MA program provides a solid foundation in community studies, family studies, gender, environment, demography, development, kinship, social inequality etc.
PSO4	Prepare them for work in a range of careers that value analytical ability, the capacity to link theoretical sophistication to empirical research, and the skill of communicating complex ideas to a range of audiences
PSO5	The programme is also an excellent basis for pursuing further research in sociology or more specialised or applied subjects.

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
Course Code :VPSO2C05 Course Title Schools of Sociological Theory	Evaluate critically the contributions offunctionalist thinkers
	Understand the functionalist analysis ofEmile Durkheim , Malinowski, Radcliffe-Brown, Robert K Merton, andTalcott Parson
	Critically Evaluate the views of Exchange theorist George .C. Homans and Peter M Blau
	Differentiate the Theories of variousinteractionist thinkers like G.H Mead, C.H Cooley, Herbert Blumer and ErvinGoffman
	Analyse Critical school of thought withspecial reference to Marx and Weber

Academic Year (2018-2019)

	Critically Evaluate the theories of Lewis A Coser, Ralf Dahrendorf and Randall Collins.
Course Code :VPSO2C06 CourseTitle : Research Methodology II	Apply measures of relation andassociation
	Differentiate between parametric andnon-parametric tests
	Understand the measurement andscaling process in social research
	Differentiate between the importantscaling techniques
	Understand the important qualitativemethods in social research
	Understand the different styles ofwriting report
	Prepare the technical formats forresearch
Course Code : **VPSO2C07** Course Title Family and Society	Understand the Family, Family and household, Family structure and composition, Life cycle of family, Stagesof family life.
	To give awareness about Functionalist perspective of family: Murdock,Parsons, Wogel and Bell
	Provide the main theoretical ideascritical views on family: Edmund leach, R.D. Laing, David cooper
	Understand Marxian perspectiveFamily.
	Transformations in the institution of family: Functions of family & Emergingtrends in the institution of family modernindustrial society.
	Clear the major concepts- Marital breakdown & its Causes, Legislations for compensations & Future of family .

	Provide detailed information regardingHousehold dimensions of family & Structural and functional changes infamily in India
	Provide information about Legislationson family and marriage in India & The problem of dowry and divorce
	Examine Nature and Types of Family inKerala & Factors influenced to make changes in Family.
	Provide new ideas about Role of FamilyCourts and Family Counselling Centres.
Course Code : **VPSO2C08** CourseTitle : Urban Sociology	Understand the origin, and developmentof Urban Sociology
	Identify the nature, scope and fields ofUrban Sociology.
	Examine the significance of urban sociology and urban sociology in India.
	Understand the historical aspects ofurbanization in India
	Understand the term rural –urban Continuum and urbanism as a way oflife.
	Identify the major issues and problemsof Urbanisation in India
	Understand the major Theories of Urbandevelopment
	Identify the factors affecting Urbanplanning
	Examine the role of new trends in urbanPlanning
	Evaluate major urban pathology in our society and to provide knowledge aboutthe current problems of society.
Course Code : **VPSO4C11** Course Title : Current Debates in	Understand neofunctionalism and its major premises by Alexander. And toanalyses the multi dimensional Sociology.

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

Social Theory	To give awareness about neo-Marxism by Mills .And to analyse how Mill's detailed the sociological imaginationpower elite.
	Provide clear idea about the Neo-Marxian perspectives by AntonioGramsci.
	To assess the structuration theories by Antony Giddens.And provide the clear data about Double Hermeneutics, Agency and structure, Rules andResources.
	Provide detailed information about the
	reflexive Sociology (Theory of Practice)by Pierre Bourdieu. And major explanation regarding concepts like Habitus and field, Forms of capital, Matrimonial strategies, Language,Symbolic Violence and Gender.
	Clear the major contributions of Post structuralism by Foucault. And to assess the major areas like power/knowledge, Discourse Analysis, Discipline and Punish, History of sexuality, medicalDiscourse.
	Provide detailed explanation regarding(Post structuralism) The theory of Deconstruction by Derrida & The Deathof the author by Barthes.
	Clear knowledge regarding post modernism. To assess the detailed information by Fredric Jameson, Hyper- reality by Jean Baudrillard, Liquid Modernity by Bauman
	Understand neofunctionalism and itsmajor premises by Alexander. And to analyses the multi-dimensional Sociology.
Course Code **: VPSO4C12** CourseTitle : Women Studies	Critically Understand the Theories of feminism and feminist thinkers who belongs different theoretical perspectives and also understand anddifferent types of feminist researchmethods and its applications
	Understand and Demonstrate the roleand position of women in family Economy, and technology and application of classroom learning to personal life, the workplace, the community, and active civicengagement.
	Analyze historical and contemporarysystems of privilege and oppression, withspecial attention to the ways gender intersects with race, class, sexuality, ethnicity, ability, religion, and nationality.
	Examine the role and Participation of women in politicslegislation and Reservation Bill.

Academic Year (2018-2019)

	Understand the Constitutional rights and legal provisions relating to women.
	Develop multiple skills for working toward personal and social change
	Critically examine the issues of women and development plans and programmes for the welfare of women in the contemporary society
Course Code: **VPSO4E01** Course Title Sociology of Media and Communication	Understand the meaning, definition and the functions of communication.
	Assess the forms of communication, process of communication and the elements of communication
	Discuss about the definition, nature, functions of media
	Asses the various types of media and provide detailed explanation regarding the emergence of global media
	Understand social media and its types.
	Provide clear ideas about the theories of media and communication
	Discuss the role of media in social change, development ,education & entertainment
	Examine the impact of media on women, youth, children etc
	Explain the issues of media and what extend the media regulation Act and laws help to prevent the media issues.
Course Code : **VPSO4E09** CourseTitle : Guidance And Counseling	Understand the meaning, definition, purpose and difference between guidance and counselling
	Identify the Goals of counseling and also determine whether the counseling is relevant in present society.
	Provide a detail account on the different types of counseling.

Academic Year (2018-2019)

	Provide a detailed explanation onprocess and techniques of counselling.
	Evaluate the different variables affecting counselling process and also explain the relationship between counsellor and counselee
	Examine the family and marital counselling and explain its application in our current society.
	Evaluate the importance of educational and vocational counselling in the students life.
	Analyse the role of de addictioncounselling in the changing society.
	Identify the role of voluntary and Non Voluntary agencies in problem solvingin counselling.
	Understand the modern trend ofcounselling.

BA SOCIOLOGY

PROGRAMME SPECIFIC OUTCOMES

PO1	Understand the relationship between social structure, identities and inequalities.
PO2	Explore social problems in local, national and global contexts by using research methods of sociology.
PO3	Creating generalizations or descriptions about the changing social world.

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
Course Code	Understand the meaning, nature ,scopeand relevance of studying sociology

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

VSO1B02 Course Title Introduction to Sociology	Understand the subject matter of sociology through various basicconcepts
	Understand the meaning and importanceof socialization and also learn different stages ,types and agencies ofsocialization
	Understand and identify the different types Norms ,Deviant behaviours andsocial control
	Understand the meaning, nature, typesand importance of culture and able to find out the relationship betweenculture, personality and society.
	Understand the meaning ,types and nature of social interaction and able to
	identify and distinguish betweenassociative and Dissociative socialprocess
Course Code : **VSO1 B01** CourseTitle : Methodology and Perspectives of Social Sciences	Identify the main concerns of socialscience disciplines
	Articulate the basic theories prevalentacross disciplines
	Understand qualitative and quantitativemodels within the social sciences
	Apply the methods and theories of social sciences to contemporary issues
	Critically read popular and periodical literature from a social scienceperspective
Course Code : **VSO2B03** Course Title : Social Informatics	Review the basic concepts andfunctional knowledge in the field ofinformatics
	Functional knowledge in a standardoffice package and popular utilities
	Awareness about social issues andconcerns related to informatics
	Skills to enable students to use digitalknowledge resources in learning

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

Course Code :VPY1C01 Course Title: Sociology of Indian Society	Provide a sociological perspective for understanding the Indian Society. Clear the idea about the features and the different forms of Diversity in IndianSociety.
	Assess the Bonds of Unity in India likeGeographical, Religious, Political
	Discuss about the Indian social system. (Family, Kinship and Marriage in India) and define its functions, Types
	Examine the role of religion in IndianSociety
	Define Caste and examine its features. Discuss the Changes in Indian CasteSystem
	Discuss Rural and Urban Economy in Indian Society (Pre and PostIndependent Period)
	Provide a sociological perspective for understanding the Indian Society. Clear the idea about the features and the different forms of Diversity in IndianSociety.
	Assess the Bonds of Unity in India likeGeographical, Religious, Political
	Discuss about the Indian social system. (Family, Kinship and Marriage in India)and define its functions, Types
	Examine the role of religion in IndianSociety
Course Code : V SO4B05 Course Title : Social Research Methods	Understand the fundamentals of socialresearch
	Trace the history and recent developments in social researchmethods
	Understand the differences between basic, applied and action types ofresearch.
	Design a research proposal
	Differentiate between the important quantitative and qualitative researchmethods of data collection.

Academic Year (2018-2019)

	Perform all the identified steps inscientific research process
	Understand the tools and techniques fordata collection
	Carry out the process of data collection and analysis in local contexts (Thrissur& Kerala)
	Understand the differences between the quantitative and qualitative research approaches.
Course Code : VSO4B06 Course Title : Life Skill Development	Understand the definition, components of life skills and needs of life skills training
	Understand life skills as a life courseapproach: (a) critical thinking skills / decisionmaking skills(b) interpersonal/ communication skills (c) coping and self-management skills
	Understand the Definition, Types, and Components -Verbal and Non-Verbal Communication.
	Use the skills for the effective interpersonal communication.
	Use the skills in Person to groupcommunication: Public Speaking,Interview facing and Group Discussion.
	Identify the Career Guidance Centres and Sources of career information: Job Fair, Career Magazines, Computerised job Search
	Choose a career, apply for a Job, Preparation of Resume, Do Follow up communication
	Understand the concepts of Self Esteem, Self-awareness, Self-control, Emotional Quotient and Social Quotient
	Coping with emotions, Stress and strain
	Apply Conflict resolution skills, Steps and stages
	Develop Positive thinking, positive talk and Assertive Behaviour

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

Course Code : **VPY4CO4** Course Title : Sociology of Mass Communication	Understand the definition, Nature andRelevance of Sociology in Modern Society.
	Identify the relationship of Sociology with Communication, Journalism,Literature and Cultural Studies
	Analyze the definition, relevance and importance of media and communication and its types.
	Understand the Interpersonal relationship of culture, personality andsociety.
	Examine the difference between PopularCulture, High Culture and Low Culture
	Discuss the role of Films, T.V. andInternet in our society.
	Understand the importance of Mediaand Globalization in present society.
	Examine the Impact of Media onDeveloping Societies.
Course Code : **VSO5B08** Course Title : Theoretical Perspectives in Sociology	Basic understanding on nature and characteristics of different schools of Sociological theories and theoretical analysis
	Categorise individual theorist's contributions into various Schools ofthought.
	Understanding on intellectual roots ofmodern Sociological theories and major contributors in different Schools of thought.
Course Code : **VSO5B09** Course Title : Social Anthropology	Get introduced to the basic concepts ofAnthropology

Academic Year (2018-2019)

	Familiarize with Anthropological studies in India by focusing on Tribal
	Ethnographic descriptions of tribal life
	Experiencing the tribal life throughtribal visit
Course Code : VSO6B011 Course Title : Environment and Society	Basic knowledge of environmentalsociology
	Awareness of the various environmentalissues
	Ecological sensitivity &ambasaddoringenvironmental sustainability
	Exposure to sensitive ecologies
Course Code : VSO6B013 Course Title : Women and Society	Provide basic understanding of theimportance of women studies
	Provide an analytical understanding of gender differences and major gender issues
	Gender sensitivity and gender neutrality

M.COM

PROGRAMME SPECIFIC OUTCOMES

PSO1	Understand the major theories and models which are applicable to an organisation at a national and global level.
PSO2	Ability to apply Information Technology and skills in Financial Management, Costing, and Management Accounting, of an organisation
PSO3	Equip the students to calculate tax for organisations and strengthen their ability to recognize potential opportunities for tax savings and tax planning.

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
VPMC1C01- Business Environment	To understand the concept of business environment and its factors affectingbusiness decisions.
	To understand government policies and regulations affecting business operations

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

VPMC1C02- Quantitative Techniques for Business Decisions	Identify the source of a quantifiable problem, recognize the issues involved and produce an appropriate action plan
	Carry out a simple sample survey, analyze the results and present thefindings to the class
VPMC1C03- Accounting for Managerial Decisions	Explain the nature and significance of management accounting, various emerging costing approaches, analyse risk and uncertainty, and devise strategies for dealing with risk anduncertainty in decision-making.
	Understand the nature of standard costing and demonstrate the necessaryskills to calculate advanced variances.
	Understand and critique both thetheoretical issues and influences on practical decisions associated with cost volume analysis.
VPMC1C04- IT Applications in Commerce	Understand the applications used in thebusiness platform especially MIS
	Practical Knowledge in spreadsheetmodeling and database management system
VPMC1C05- Organizational theory and Behavior	Demonstrate the applicability of the concept of organizational behaviour to understand the behaviour of people in the organisation.
	Better understanding of the complexitiesassociated with management of group behaviour in the organisation
VPMC2C06- International Business	Explain the key legal issues related to businesses operating in other countries
	Students are expected to enhance their cognitive knowledge of global issues; interpersonal skills with individuals from various cultures, and social responsibility awareness on global issues
VPMC2C07- Advanced Corporate Accounting	Understand the techniques of restructuring and liquidating thecorporate entities.

Academic Year (2018-2019)

	Understand the basic accounting
	standards relating to revenue and leases
	Familiarize with modern concepts inaccounting
VPMC2C08- Business Communication	Understand the process of businesscommunication
	Practical skill to manage businesscommunication
VPMC2C09- Management Science	Translate a problem into a simplemathematical model to allow easier understanding and to aid problem solving
	Employ appropriate mathematical toolsto solve problems
VPMC2C10- Strategic Management and Corporate Governance	Understand the basic concepts andprinciples of strategic management to analyze the internal and externalenvironment of business
	Develop and prepare organizational strategies that will be effective forthecurrent business environment
VPMC3C11- Financial Markets & Institutions	Sound knowledge of the broad framework of financial markets andinstitutions.
	Better understanding of thecharacteristics of various financial market instruments and the regulatoryenvironment in India.
VPMC3C12- Income Tax Law and Practice	To explain different types of incomes and their taxability and expenses andtheir deductibility
	To learn various direct and indirect taxes and their implication in practicalsituations
	To state the use of various deductions toreduce the taxable income
VPMC3C13- Research Methodology	Search for, select and critically analyseresearch articles and papers
	Gain experience with instrument development and data collectionmethods

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

VPMC3EF01- Financial Management	Students will be able to evaluate,synthesize and apply the contemporary theories and empirical evidence concerning Financial Management
	Demonstrate and apply knowledge for taking investment decisions, financingdecisions and dividend decisions
VPMC3EF02- Security Analysis and Portfolio Management	Better understanding to establish aconceptual framework for the study of security analysis and portfoliomanagement
	Ability to understand and utilize theskill of optimizing returns
VPMC4C14- Financial Derivatives and Risk Management	Analyze and price diverse derivativesproducts to generate an optimal risk management strategy
	Demonstrate critical thinking, analyticaland problem-solving skills in the context of derivatives pricing and hedgingpractice
	Explain the binomial model and its extension in continuous time to theBlack-Scholes model
	Demonstrate an understanding of pricing forwards, futures and optionscontracts
VPMC4C15- Cost Management	To understand the applications of cost accounting tools, techniques and concepts in managerial decision making
	To understand emerging cost conceptsand its applications in strategic cost management
VPMC4EF03- Strategic Financial Management	Students will be able to understand concepts, tools and techniques used for financial decision
	Learners will be equipped with the skillsto apply financial principles relevant to strategic financial management inorganizational context
VPMC4EF04- Tax Planning and Management	To describe how the provisions in the corporate tax laws can be used for taxplanning

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Students will apply critical thinking and problem-solving skills related to taxation of individuals, flow-through entities, and corporations. In addition, students will recognize potential opportunities for tax savings and tax planning.
VPMC4PR- Project Work and Viva-Voce	Able to exhibit knowledge of current issues in the chosen field of research
	Ability to present and defend the research work to experts

B. Com (Finance)

PROGRAMME SPECIFIC OUTCOMES

PSO1	Apply basic statistical and analytical skills necessary for investigating a range of problems in Commerce and Economics
PSO2	Exhibit knowledge in all areas of accounting and finance to generate realistic solutions as an Entrepreneur/ Business Executive.
PSO3	Equip Students with solid foundation to pursue professional careers such as CA, ICWA, CFA, ACS and MBA as well as research.

COURSE OUTCOMES

COURSES	**COURSE OUTCOMES**
VCO1B01 Management Concepts and Business Ethics	To equip the students with basic knowledge and skills regarding management principles and concepts
VCO2B02 Financial Accounting	Develop a working vocabulary of accounting terminology.
	Gain an understanding and ability to work with accounting principles including, but not limited to, debits and credits, journalizing, posting, adjusting and closing entries/procedures, financial statements, internal controls, and corporate accounting.
	Gain an ability to analyze transactions, apply them to the accounting cycle, prepare a trial balance, and compile financial statements
	Develop an understanding of and exposure to ethical issues and responsibilities of accountants.

Academic Year (2018-2019)

	Provide the foundations for advanced work in accounting and business related subjects.
VCO3B03 Business Regulations	They will be able to demonstrate the relationship between law and economic activity by developing in thestudent an awareness of legal principles involved in economic relationships and business transactions.
	Students will be aware about the latestprovisions of IT act and consumer protection act and they can apply it in their daily life.
VCO3B04	An understanding of the regulatory environment in which the companies are formed and operate in India.
	A solid foundation in accounting and reporting requirements of relevant Acts and relevant Indian Accounting Standards Board accounting standards.
	Comprehensive understanding of the advanced issues in accounting for assets, liabilities and owner's equity.
	The ability to account for a range of advanced financial accounting issues.
	An understanding of the accounting requirements for a corporate group and familiarity with the theory underlying the methods used to account for reconstructions.
VCO4B05 Cost Accounting	Describe the cost concepts, cost behaviors,and cost accounting techniques that are applied to manufacturing and service businesses.
	Determine the costs of products and services.
VCO4B06 Corporate Regulations	Students will be able to understand the basic concepts and provisions of Indian Companies Act 2013.
	It will create a general awareness amongst students about the legal provisions regarding the formation of a new company.
VCO5B07 Accounting for Management	Critically analyze and provide recommendationsto improve the operations of organisations through the application of management accounting techniques.
VCO5B08 Business Research Methods	Evaluate and conduct research.
	Demonstrate knowledge andunderstanding of data analysis and interpretation in relation to the researchprocess.
	Formulate and present effectiveresearch report.
VCO5B09 Human Resource	Demonstrate an understanding of key terms, theories/concepts and practices within the field of HRM.
	Demonstrate competence in development and problem-solving in the area of HR Management.

Academic Year (2018-2019)

	Provide innovative solutions to problems in the fields of HRM
	Be able to identify and appreciate the significance of the ethical issues in HR.
VCF5E01 Financial Reporting	Explain the conceptual framework forfinancial reporting under both the U.S. generally accepted accounting principles (GAAP) and international financial reporting standards (IFRS).
	Prepare and interpret a classified balance sheet.
	Prepare an income statement and detect issues dealing with its content, presentation, and disclosure.
	Identify and explain the five steps in the revenue recognition process.
	Specify the measurement and valuation issues and the related income statement effects of transactions involving cash, accounts receivable, and inventories, including the key similarities and differences between GAAP and IFRS.
VCF5E02 Financial Management	Student would possess a base level offinance knowledge.
	Explain time value of money and determine the present and future valuesof cash flows.
	Compute capital budgeting for capital investment decisions.
	Give Student the ability and confidence to tackle common financial problems in practice.
VCO6B10 Income Tax Law and Practice	Students will be able to solve their own tax payment calculations easily.
	Students will be capable of advising tax saving methods by applying thedifferent loopholes within the law, which will the main demand by thecompanies.
VCO6B11 Auditing	Demonstrate the basic knowledge inauditing practices.
	Interrelate the legal, ethical and societal role and responsibilities of theauditor.
VCF6E03 Financial Markets & Services	Identify legal issues that impactaffecting financial and other risks business.
	Interpret statutory law for purposes of risk avoidance, and to establish control mechanisms.

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

VCF6E04 Fundamentals of Investments	Define the major avenues of investment, various financial securitiesand features of those securities.
	Calculate and compare variousmeasures of risk and return.
	Calculate bond values and yields and explain various bond investmentstrategies.
	Calculate equity values usingalternative valuation models.
	Explain how financial securities aretraded.

COURSES	COURSE OUTCOMES
VCO1CM1 - Complementary Course I - Managerial Economics	Design competition strategies, includingpricing, product differentiation, research & development, and marketing, according to the natures of products and the structures of the markets.
	Analyse real-world business problems with a systematic theoretical framework.
VCO2CM2- Complementary Course II - Marketing Management	Describe key marketing concepts, theories and techniques for analysing a variety of marketing situations.
	Identify and demonstrate the dynamicnature of the environment in which marketing decisions are taken and appreciate the implications for marketing strategy determination andimplementation.
	Analyze an organization's activities to develop/implement a marketingstrategy.
VCO3CM3 - Complementary Course III - E- Commerce Management	Students will be equipped to performonline transactions.
	Students will be aware about security issues and solutions in respect of onlinepayment.

Academic Year (2018-2019)

	Provide basic knowledge in the field ofIT and enable them to apply these knowledge in their daily life.
VCO4CM4 - Complementary Course IV - Quantitative Techniques for Business	Students will be able to apply statistical tools for analyzing the business related issues
	Students can apply the appropriate statistical tools for their project work to solve their research problem

COURSES	COURSE OUTCOMES
VG3CM01 Basic Numerical Skills	Students will be able to do simple mathematical operations which will actas basis for higher studies
	Students will easily be able to complete their project design and analysis usingthe knowledge of statistics
VG3CM02 General Informatics	Provide basic knowledge in the field of IT and enable them to apply these knowledge in their daily life
	Students will be aware about thesecurity issues and their solutions
VG4CM03 Entrepreneurship Development	Demonstrate a fundamentalcomprehension of business opportunity evaluation, from the perspective of aprospective investor.
	Identify the most recognized sources of potential funding and financing for business start-ups and/or expansion.
VG4CM04 Banking and Insurance	A knowledge of the economic roles andstructure of banks in our economy;
	Knowledge and understanding of the different types of monetary measures that banks take to control money flow;
	Knowledge and understanding ofbanking concepts;

Academic Year (2018-2019)

Demonstrate knowledge of the operationand management of insurance entities, and the economic implications oforganizational design and structure.	
Develop skills to facilitate insurance product cost and pricing, marketing, anddistribution.	

COURSES	COURSE OUTCOMES
VCO5D01 Basic Accounting	Develop the ability to use a basic accounting system to create (record, classify, and summarize) the data needed to solve a variety of business problems.
	Develop the ability to use accounting concepts, principles, and frameworks to analyze and effectively communicate information to a variety of audiences.
	Develop the ability to use accounting information to solve a variety of business problems. Develop the ability to interact well with team members.
VCO5D03 Basics of Entrepreneurship and Management	Understand the concept of business and social responsibilities of business
	Understand the concept of entrepreneur and registration
	procedure of Sole proprietorship andpartnership units.
	Understand the concept of management, principles and functionsof management

M.S.W

PROGRAMME SPECIFIC OUTCOMES

PSO1	Understand and incorporate core values of social work practice
PSO2	Analyse social realities and social problems
PSO3	Provide social work interventions to individuals, groups and communities

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
SOW 1 C 01: History, Philosophy and Fields of Social Work (Core Paper)	Understand the history of Social work and Social Work education and its place in the context of other related concepts
	Understand the philosophical assumptions and values of Social Work and the sources of Social work Philosophy
	Apply social work values while working with various client groups
	Analyse ethical dilemmas in practice situations and develop solutions to deal with them
	Understand the different perspectives in Social Work and evaluate their relative relevance/applicability in different practice contexts
	Understand the basic concepts, methods and functions of Social Work and roles and skills of a professional social worker
	Understand and apply the Code of
	Ethics and understand the attributes of Social Work as a profession
	Understand the various fields of Social Work
SOW I C 02 : Sociology and Economics for Social Work Practice(Core Paper)	Describe the important sociological perspectives
	Outline the contributions of major theorists
	Identify various sociological concepts present in contemporary society
	Examine the impact of social problems existing in the Indian Society
	Recall the basic concepts of Economics
	Elaborate on present-day economic systems

Academic Year (2018-2019)

	Explain the concept of economicplanning for development
	Determine the impact of the NewEconomic Policy on the Indian economy
	Analyze the challenges faced by theIndian economy
SOW1 C 03: Human Growth andDevelopment (Core Paper)	Understand the definition, nature and scope of Psychology
	Understand the structure and functionsof nervous and endocrine system
	Understand the process of genetictransmission
	Understand the definition, nature andscope of Social Psychology
	Evaluate the theories and principles ofdevelopment
	Understand the life span approach
	Understand the prenatal period
	Understand the infancy, early childhoodand late childhood period
	Understand the personal, vocational, marital and vocational adjustments ofearly adulthood
	Understand the personal, vocational, marital and vocational adjustments ofmiddle age
	Understand the personal, vocational, marital and vocational adjustments ofold age
	Evaluate the dying process
SOW I C 04: Professional Skills forSocial Workers (Core Paper)	Understand the concepts of self
	Study the various techniques ofunderstanding oneself
	Understand the relationship skillsrequired for Social Workers

Academic Year (2018-2019)

	Understand and demonstrate the communication skills required for socialworkers
	Understand the leadership skillsrequired for social workers
	Understand the application of ICT insocial work practice
SOW I C 05: Social Legislatio nand Human Rights (Core Paper)	Understand the Legal system in India andthe process of making social legislation
	Understand Social Legislation as an instrument for Social Control, Social Security, Social change, Social justice and Social Policy
	Understand human rights andorganizations to protect human rights
	Understand the legislations for the protection of Children and women and statutory bodies involved in theirimplementation
	Understand the legislations for theprotection of Aged, Disabled and other vulnerable groups, their social relevance,implications, and remedies
	Understand the role of Social Workers in the field of Social legislation and Human rights
	Understand the provisions of Legal Aidand Public Interest Litigation.
SOW I C 06: Concurrent FieldWork (Core Paper)	Exposure to the problems ofmarginalized individuals, groups andcommunities Get a hands-on exposure to working with rural/tribal community
	Exposure and understanding of the functioning of governmental and non-governmental organizations involved in welfare and developmental activities for marginalized such as aged, destitute, children etc.

Academic Year (2018-2019)

	Develop sensitivity towards the needsand problems of different target groups.
	Develops the skills of Observation, reporting and presentation of observed realities.
SOW2 C07: Social Case Work(Core Paper)	Understand the theoretical framework and core values for the practice of socialcase work
	Acquire knowledge to assess anddiagnose the problems of individuals
	Develop skills to plan intervention forindividuals with problems
	Develop competence to provide intervention for the management ofinterpersonal problems
	Acquire ability in Laisioning, networking and mobilizing resources for the rehabilitation of individuals with problems
	To understand the various tools to assessindividuals with problems
	Develop competence to provide intervention for the management ofinterpersonal problems
	Acquire ability in Laisioning, networking and mobilizing resources for the rehabilitation of individuals with problems
	Acquire skills for recording and documentation of individual and group interventions
SOW2 C 08: Social Group Work(Core Paper)	Develop an understanding of varioustypes of groups, their processes and dynamics, stages of development andmodels of interventions
	Learn theoretical approaches that informgroup work practice

	Gain insight into dimensions of groupprocesses and group work practice
	Develop skills to work with differentstages and record the process
	Understand of group work as a methodof professional social work
SOW2 C 09: Community Organisation andSocial Action (Core Paper)	Understand the basic concepts of community, community functions and community dynamics
	Understand the values and process of community organization as a method ofsocial work
	Analyse and evaluate the significance of models of community organization and social action proposed by Jack Rothman,Alinsky, Freire and Gandhi
	Use strategies and skills in communityorganization and social action
	Practice community organization indifferent contexts
	Understand the values and process ofsocial action as a method of social work
SOW2 C 10: Psychology for Social Work (Core Paper)	Understand the definition , nature andscope of Social Psychology
	Identify the components, characteristics,formation and modifiability of attitude
	Understand the aspects of socialperception-Nonverbal communication, Attribution, Impression formation andImpression management
	Understand the aspects of social cognition-Schema, Heuristics, Priming, Automatic and Controlled Processing
	Understand the aspects of socialcognition-Schema, Heuristics, Priming, Automatic and Controlled Processing and sources of error in social cognition

	Understand the nature, functions and concepts of group –Social facilitation, Social loafing, Deindividuation, Decision making
	Understand the aspects of social influence-Conformity, Compliance techniques, Obedience to authority
	Understand the theoretical perspectives and features of prosocial behaviour and Aggression
	Evaluate the relevance of propaganda and collective behavior
	Understand the concept of mental health, mental health issues and Biopsychosocial model of mental health
	Understand the mental disorders- Schizophrenia, mood disorders, anxiety disorders, Somatoform disorders, childhood disorders, Dissociative disorders
SOW2 C 11: Theory and Practice of Counselling (Core Paper)	Understand the concept of counselling and its elements
	Differentiate counselling from Social Case Work, Guidance and Psychotherapy
	Understand the process of counseling
	Demonstrate the ability to use techniques of counseling
	Determine the application of theories in counselling
	Identify the contexts in which counselling can be practiced
	Practice counselling in contexts including Marriage and Family, Career, Crisis and trauma, Genetic Issues, Grief, Stress management, HIV/ AIDS, Services for children and adolescents, Elderly, Workplace, and Substance abuse and Addiction
SOW2 C 12: Concurrent Field Work (Core Paper)	Learn to practice social case work and will develop expertise in psycho social study diagnosis and treatment on an individual level.

Academic Year (2018-2019)

	Learn to conduct, practice and recordthe method of social group work.
	Observe and practice community organization and other macro level interventions.
	Improve skills in reporting, documentation and dissemination.
	Develop skills in working on micro,Meso and macro level.
SOW3 C 13: Quantitative and Qualitative Methods for Social Work Research(Core Paper)	Understand the significance andcharacteristics of social work research
	Understand the process of social workresearch
	Differentiate quantitative research fromqualitative research
	Demonstrate the ability to use variousquantitative and qualitative research
	methods
	Understand the meaning of descriptiveand inferential statistics
	Determine the application of statisticaltechniques in social work research
	Demonstrate the ability to undertake research projects in social sciences and prepare scientific reports
SOW3 C 14: Participatory Project Planning and Training(Core Paper)	Learn relevant theoretical frame work and skills for project preparation and its various stages
	Demonstrate skills to work during various phases of Development projects
	Acquire skills in preparingdevelopmental projects
	Develop scientific temperament in preparation and management of projects at micro and macro levels
	Develop skills in designing and implementing participatory trainingprogrammes

	Use participatory training methodologies for social workinterventions
SOW3 C 15: CommunityHealth (Core Paper)	Understand the concept of Communityhealth and related terminologies
	Understand the concept of health and integrated approach to health in thecontext of Development
	Analyze plans and policies/legislations in health and implications for socialwork practice
	Learn the public health issues and needs facing the country and designsocial work interventions
	Examine the Health Care system inIndia and its administration pattern
SOW3 E1 01 : Health Care Social Work Elective I -Medical andPsychiatric Social Work	Understand the history and scope ofHealth Care social Work
	Demonstrate the ability to do psycho-social assessment of persons with healthissues
	Identify the contexts in which healthcare social work can be practiced
	Understand the role and functions ofsocial workers in the health care settings.
	Determine the application of theories andapproaches in health care social work
	Identify the ethical practice inhealthcare social work
SOW3 E 2 01: Rural Community Development an dGovernance	Understand the condition of rural and tribal communities in India in terms ofsocial and economic development

Elective II – Rural and Urban Community Development	Analyse the challenges faced by therural and tribal communities.
	Understand the concept, philosophy and principles of Rural Community development
	Understand the programmes and services in the governmental and voluntary sector for rural communities
	Understand the structure and functionsof PRIs in community development
	Analyse the role of PRIs in bringing about transformation in rural and tribal communities
	Understand the scope of social workinterventions in rural communities
SOW3 E102: Social Work in Mental Health Settings Elective I -Medical and Psychiatric Social Work	Learn psychiatric interviewing andassessment in Psychiatry
	Learn Classification in Psychiatry
	Understand Epidemiology, Clinical Manifestation, treatment and outcome ofmajor psychiatric disorders
	Understand the role of psychiatric socialworker in psycho social interventions
	Learn Psycho Social Interventions and Multidisciplinary team approach in thefield of mental health
	Understand the significance of psycho social interventions in psychiatricrehabilitation.
	Learn programmes and policies formental health in India
	Develop the skills to apply social workmethods in mental health settings
SOW E202: Urban Community Development and	Understand the urban communities and the processes like urbanization and its impact on social conditions

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

Governance Elective II – Rural and Urban Community Development	Analyse the challenges faced by urban communities with focus on vulnerable populations
	Understand the concept, philosophy and principles of Urban Community development
	Understand the programmes and services in the governmental and voluntary sector for urban communities
	Understand the structures andinstitutions for urban governance
	Understand the scope of social workinterventions in rural communities
SOW3 C 16: Concurrent Field Work(Core Paper)	Learn practice of social work inmedical and psychiatric social work
	Learn practice of social work in the context of urban/ rural community on meso level.
	Develop skills in observing, analyzing, evaluating and creating innovative social work intervention.
	Develop Documentation and reportingskills
SOW4 C 17 : Administration of Human Servic eOrganizations (Core Paper)	Understand the concepts in administration and administration as a method of Social work
	Understand the procedure of registeringtrust, society, CBO, NGO and NPO.
	Understand social welfare programmes of Ministry of women and child development, Ministry of rural development, Ministry of urban development, Panchayati Raj, Central social welfare board and State socialwelfare board.
	Understand HRM and its process

Academic Year (2018-2019)

	Understand and use the concept of organizational behavior and theories ofmotivation and leadership.
	Understand the problems in organizations and use grievanceredressal mechanisms
SOW4 C 18 : Social Work with Vulnerable groups (Core Paper)	Understand the concepts-Vulnerability, Exclusion, Marginalisation, At-risk, disadvantaged and Stigmatisation
	Identify vulnerability in children in various circumstances and interventions
	Understand the major gender issues andvulnerabilities faced by women and the
	policies and programmes for women's welfare
	Practice women centered social work to address the vulnerabilities experiencedby women
	Understand the major vulnerabilities faced by elderly and the policies andprogrammes for elderly
	Practice social work for enabling activeageing and enhancing quality of life
SOW4 C 18 : Social Work with Vulnerable groups (Core Paper)	Understand the major vulnerabilities faced by differently abled persons and the policies and programmes for elderly and the role of social workers inworking with them
	Understand the vulnerabilities andoppressive practices faced by theScheduled Caste and Scheduled Tribecommunities, policies and welfare programmes and the approaches andstrategies of social work with them
SOW E 1 03 : Therapeutic Approaches in Medical and Psychiatric settings	Understand the concept of psychotherapy and different types oftherapies
Elective 1 - Medical and Psychiatric Social	Understand Cognitive and behaviourtherapies and techniques

Academic Year (2018-2019)

work	Understandthe Humanistic and existential therapies and techniques ofpractice
	UnderstandFamily Therapy andtechniques of practice used in familytherapy
	Understand Other psychosocialtherapies like
	Occupational therapy, Play therapy, Crisis intervention, Therapeuticcommunity, Art therapy, Music therapy, Dance movement therapy, Laughter therapy, Neuro linguistic programming. And Solution focused therapy,
SOW4 E 2 03: Environmental Studies and Disaster Management Elective 2 - Rural and Urban Community Development	Understand the basic concepts inenvironment studies.
	Understand the policies and approachesin the management of natural resources
	Learn the problems in the management ofnatural resources and efforts in sustainable natural resourcemanagement
	Understand the environment problemsand impact of development initiatives.
	Understand the national and internationalmeasures to deal with environment issues
	Understand the process of disastermanagement
	Practice social work in dealing with environmental problems and in disaster management.
SOW 4 E1 04 :Social Work Practice with Families Elective 1 - Medical	Understand conceptual frameworkrelated to marriage and family
	Understand characteristics of family lifecycle

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

and Psychiatric Social work	Identify models of family dynamics andfamily assessment
	Understand the process of family socialwork
	Understand the history, concepts andtechniques of family therapy
	Practice family therapy in contexts including Family Counselling Centres,Family Courts, Family welfare Clinics,
	Adoption and Foster Care Agencies, andFamily Violence
SOW4 E2 04 : Social Work Practice and Gender Elective 2 - Rural and Urban Community Development	Understand concepts and theoriesrelated to gender
	Understand the status of women with respect to health, education, political participation, representation in media and law and appreciate the gaps therein
	Understand gender based violence, andmeasures to combat violence
	Analyse gender issues using genderanalysis frame woks
	Understand the theoretical frame workfor feminist social work
	Practice social work with women in different contexts using Gender Aware therapy, Feminist counselling, building collectives, education, advocacy and assertiveness training
SOW4 C 19: Concurrent Field work(Core Paper)	Apply social work methods inspecialized settings.
	Skill in documentation, dissemination and recording of social workintervention
	Develop innovative models for socialwork interventions

SOW4 C 20 : Concurrent Field work(Core Paper)	Apply social work methods inspecialized settings
	Develop innovative models for socialwork interventions
	Develop independent practicingcompetency to work as professional social worker

OPEN COURSE IN PHYSICAL EDUCATION

PHYSICAL ACTIVITY HEALTH AND WELLNESS

PROGRAM SPECIFIC OUTCOMES

PSO1	Understand Physical Education and basic concept of physical fitness components.
PSO2	Understand the basics of exercise principles.
PSO3	Analyze different postural deformities and measures to correct the deformities
PSO4	Understand lifestyle diseases and its management.

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
VPE5D03 Physical Activity Health andWellness	To introduce the Fundamental concepts of Physical Education, Health, and Fitness.
	To provide a general understanding onNutrition, First aid and Stress Management.
	To familiarize the students regarding Yoga and other activities for developing fitness.
	To create awareness regarding hypo- kinetic diseases and various measures of fitness and health assessment.

B.VOC WEB TECHNOLOGY

PROGRAMME SPECIFIC OUTCOMES

PSO1	Gain general awareness of popular web tools, technologies and their applications for higher technical education and to acquire quantitative, analytical and entrepreneurial skills.

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

PSO2	Create digital art for commercial and advertising purposes.
PSO3	Design web pages and write back-end code based on requirements.
PSO4	Develop websites and evaluate application technologies to improve website performance.

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
GEC1CF03 – Computer Fundamentals	Appreciate the evolution of computingsystems over time.
	Understand the basics of computer organization and flow of control andinformation.
	Acquire knowledge about variousoperating systems and their implementation.
	Identify different categories of networks, examine their merits andrecognize challenges.
	Define Cloud Computing and differentiate various cloud services anddeployment models.
	Assess cloud storage systems and cloudsecurity, the risks involved..
SDC1WT01 – Introduction to Adobe Photoshop and Illustrator	Edit and overlay multiple image objectsto create aesthetic images.
	Perform touch-ups, restoration and colorcorrection on old images.
	Familiarize with basic object manipulation and transformation.
	Create posters, notices, brochures andother graphic designs.
	Construct logos and clipart objects foradvertising.
SDC1WT02 – Basics of HTML	Understand the use of various tags andattributes in HTML.
	Cross-reference web pages by way ofhyperlinks.

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Insert graphics and multimedia contentinto web pages.
	Use critical thinking skills to designwebsites.
	Create websites that are compliant withcurrent professional standards.
	Debug and correct formatting errors inHTML.
GEC2DH06 – Theory of Domain and Hosting	Gain working knowledge in domainconfiguration and hosting.
	Construct a zone file for a server.
	Register a domain name and set up thedomain on a DNS server.
	Use fundamental skills to maintain web server services required to host awebsite.
	Analyze different attacks on networks and predict potential security breaches.
	Registers a domain and hosts a websiteusing FTP client software.
	Transfer files from local machine to web server using FileZilla/ CuteFTP/SmartFTP.
SDC2WT05 – Introduction to Bootstrap	Understand the applications ofBootstrap in responsive web design.
	Create a form using Bootstrapcomponents.
	Understand the working of a grid and implement them in mobile andresponsive design.
	Use Bootstrap typography classes forimage and text formatting.
	View & edit the utilities applied to anelement on the page.
	Implement custom modal windows inorder to interact with the user.
	Show and hide different sections and subsections of a web page using JScomponent classes.
SDC2WT06 – Advanced HTML and CSS	Create HTML links with anchor tag to navigate to external websites and different sections of the internal website.

Academic Year (2018-2019)

	Enable your web application to collectinformation from users to Server-side using Html forms with Get and Post methods.
	Divide the webpage into multiplesections using frames.
	Style web pages using CSS box modeland CSS properties.
	Effectively incorporate JavaScript in aweb page for validation.
	Use fundamental skills to maintain web server services required to host awebsite.
GEC3VC08 – Theory of Version Control	Understand the principles of softwareconfiguration management.
	Understand the best practices and guidelines while working on a softwaredevelopment project.
	Understand the architecture and components of a Version ControlSystem.
	Evaluate the requirements of a project and determine appropriate versioningmodels.
	Familiarize oneself with variousrepository operations.
	Manage repositories and contentversions using Subversion.
GEC3NS09 – Numerical Skills	Learn set theory and Matrix operationconcepts.
	Theory of equations and their applications in business problems
	Concepts of Progressions and their representations, Basic financemathematics.
	Learn basic statistics, data collectionmethods and inquiry types.
	Understand and apply measures ofcentral tendency and measures of variation.
	Learn to analyses Time series and indexnumber concepts.

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

SDC3WT09 – Web Programming Using PHP and JavaScript	Identify the fundamental concepts of scripting and its usages to make Webpages more interactive.
	Build capacity in developing web pagevalidation.
	Understand Document Object Modeland its advantages in web design.
	Build capacity to develop dynamic webpages and knowledge of scripting.
	Able to understand the concept of server-side scripting and basics of PHP.
	Understand advanced concepts in PHPand web programming.
	Identify the features of PostgreSQL andconnection of PHP with PostgreSQL.
SDC3WT10 – RDBMS using MySQL	Learn basic database concepts and design appropriate database schema.
	Normalize and streamline databases toreduce anomalies and redundancies.
	Solve Database problems by applying SQL commands to Create, Insert, Update, and Retrieve a simple database.
	Understand and practice using functions and procedures, transaction Processingetc.
	Design and Implement a basic databaseusing MySQL.
	Manage administrator and userprivileges to databases.
GEC4XM11 – Introduction to XML	Understand the application of XML in distributed communications enabling, enterprise systems assurance, web enabling, application enabling, andenterprise data enabling.
	Learn how to create XML documentsand DTD documents.
	XML schema creation, advancedconcepts and their applications.
	Transform XML documents into documents of other types using XSLT.
	Learn DOM concepts and Communicating with the server.

Academic Year (2018-2019)

	Write valid XML documents based on aDTD.
GEC4AV12 – Fundamentals of Audio, Video and Multimedia	Digitize and manipulate analog data.
	Enhance and manipulate images.
	Create, extract and edit short movies.
	Record, overlay, extract and edit audiofiles.
	Repair and synthesize audio files.
	Superimpose and compose animatedclips and apply effects.
SDC4WT13 – Scripting Using Python	Design and program Pythonapplications.
	Break and modify control flows usingloops and functions.
	Access content in various file typesusing Python file handling.
	Implement class inheritance forreusability.
	Increase an application's robustness using exception handling.
SDC4WT14 – Web Server Programming using Django	Understand Django Architecture and its take on MVC (Models, Views & Templates).
	Demonstrate web application usingPython web Framework-Django.
	Integrate applications with RESTfulweb services.
	Unit Test and Debug Django apps.
GEC5SE13 – Introduction to Search Engine Optimization	Understand various algorithms used forsearch results generation.
	Gain familiarity about on-page and off-page optimization techniques.
	Create meta tags for document discovery and cross-referencing.
	Understand the principles of digital andsocial media marketing.

Academic Year (2018-2019)

GEC5QA14 – Quality Assurance in Software	Evaluate standards, models andtechniques for achieving quality assurance in software development environments.
	Propose innovative solutions to softwarequality assurance and measurement problems in software developmentenvironments.
	Prepare a software quality plan for a software project - to include sections on change management, configuration management, defect elimination, validation and verification andmeasurement.
	Master attributes and assessment of quality, reliability and security ofsoftware.
GEC5ED15 – Entrepreneurship Development	Pursue entrepreneurial venturesestablished through the mastery of entrepreneurial skills.
	Discern distinct entrepreneurial traits.
	Know the parameters to assess opportunities and constraints for newbusiness ideas.
	Understand the systematic process toselect and screen a business idea.
	Design strategies for successfulimplementation of ideas.
	Apply the knowledge acquired togenerate a new business plan.
SDC5WT17 – Introduction to Cross Platform Website Applications	Build powerful, fast, user-friendly andreactive web apps.
	Develop web applications usingAngularJS, NodeJS and ReactJS.
	Design, code and publish mobile appsand games using cross-platform tools.
	Implement core concepts ofinformationmanagement, such as data models, database management systems, orparallel and distributed databases.

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Understand the principles of creating an effective web page, including an in-depth consideration of information architecture.
SDC5WT18 – Ruby on Rails	Learn to program in Ruby.
	Learn to install and configure Ruby and Rails.
	Understand the Model-View-Controller framework architecture.
	Learn to build database-driven applications with Ruby on Rails.
	Learn to work with templates.
	Learn to use XML and Ajax in Ruby on Rails applications.
	Learn to test Ruby on Rails applications.

DEPARTMENT OF HINDI

COURSE OUTCOMES
COMMERCE

COURSES	COURSE OUTCOMES
VHD1ACM1 - Prose Forms in Hindi Literature	Develop critical understanding of prose forms in Hindi Literature
	Identify the specificities of various types of prose forms
	Prose of eminent authors of different period
	Appraise selected proses
VHD2ACM2 - Poetry, Correspondence And Translation	Understanding origin and development of Hindi Poetry
	Introduce the students to the basic elements of poetry, including the stylistic and rhetorical devices employed in poetry, and to various genres of poetry.

Academic Year (2018-2019)

	Train students in various perspective readings in poetry Subjects like gender, race, caste, ethnicity, religion, region, environment and nation etc. will be discussed
	Make them understand various types of letters both personal and business. Facilitate the use of translation as a tool for communication between different languages

COURSE OUTCOMES

COMPUTER SCIENCE

COURSES	COURSE OUTCOMES
VHD1ACS1 Prose and One Act Plays	Develop critical understanding different prose forms.
	Acquaint the students with different forms, thoughts and styles used in Hindi prose writing, to make hem able to express their thoughts in these different forms
	Introducing Hindi one act plays to the students for appreciation and critical analysis
	Developing their creative thinking and writing
VHD2ACS2- Poetry and Short Stories	Understanding origin and development of Hindi Poetry and short story
	Introduce the students to the basic elements of poetry, including the stylistic and rhetorical devices employed in poetry, and to various genres of poetry
	Appraise selected short fiction readings

Academic Year (2018-2019)

VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Train students in various perspective readings in poetry Subjects like gender, race, caste, ethnicity, religion, region, environment and nation etc.will be discussed

COURSE OUTCOMES

BA/BSc

COURSES	COURSE OUTCOMES
VHD1A01- Prose And Drama	Develop taste for drama and fiction
	Identify the specificities of various typesof fiction and Drama
	Fiction and Drama of eminent authors ofdifferent period
	Appraise selected fiction and Drama readings. Improve a love of fiction andDrama
VHD2A02- Grammar Correspondence And Translation	Make students able to use Hindilanguage correctly and efficiently
	Make them understand various types ofletters both personal and business
	Facilitate the use of translation as a tool for communication between differentlanguages
	Evaluate the possibilities of translation
VHD3A03- POETRY IN HINDI	Understanding origin and developmentof Hindi Poetry
	Introduce the students to the basic elements of poetry, including the stylistic and rhetorical devices employed in poetry, and to various genres of poetry.
	Train students in various perspectivereadings in poetry
	Subjects like gender, race, caste, ethnicity, religion, region, environment and nation etc. will be discussed
VHD4A04- Novel and Short	Develop critical understanding of fiction

Academic Year (2018-2019)

Stories	Identify the specificities of various typesof fiction
	Fiction of eminent authors of differentperiod
	Appraise selected short fiction readings. Improve a love of fiction