



VIMALA COLLEGE (AUTONOMOUS), THRISSUR



POs, PSO 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 solve problems.
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)



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

6. Obtained problem solving and analytical skills.
7. Explored multidisciplinary domains for proficiency (communication, dependability, team work).
8. Imbided 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



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	Comprehend the works of major poets of the Eighteenth Century
	Analyze the growth of different types of poetry during from Chaucer Eighteenth Century
	Infer the social and political concerns embedded in the plays of eminent playwrights.
VPEG1C02 British Literature: The Nineteenth Century	Outline the history and literary characteristics of the Romantic and Victorian Age
	Comprehend the works of major poets of the Nineteenth Century.
	Infer the social and political concerns embedded in the prose passages and plays
	Evaluate different nuances present in Nineteenth Century fiction writings
ELECTIVE 1 British and Continental Drama	Understand the development of drama in England and the European continent
	Analyse the major developments, continuities and turning point in the history of England
	Evaluate the significant works of the playwrights in England and the European continent
ELECTIVE 2 Writing for the Media	Define basic terminology of media writing
	Compile interviews, documentaries and editorials
	Explain the basics of News writing and reporting
	Develop competency in news collection, news reporting and editing
VPEG2C03 Twentieth Century Literature up to World War II	Understand the literary characteristics of Twentieth Century
	Comprehend the works of major poets of the Twentieth Century.
	Infer the social and political concerns embedded in the plays of eminent playwrights.
	Evaluate different nuances present in Twentieth Century fiction writings
VPEG2C04 Criticism and Theory	Introduction to the evaluation of literary criticism, Movements and schools of thought.



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	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 from17 th to 20 th 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 pronunciation and perceive differenttypes of Grammar
ELECTIVE 1 Postcolonial Fiction and	Understand the nuances of Post ColonialTheory and concepts



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Drama	Analyse literary and cultural texts from a post colonial perspective
	Familiarise with diasporic writing and its peculiarities
	Understand the politics of historiography and representation in the post colonial context
ELECTIVE 2 Film Studies	Classify major movements of world cinema
	Distinguish major film genres
	Analyse selected film texts
	Appraise case studies of classic cinema
	Appraise case studies of classic cinema
VPEG4CO7 Indian English Literature	Understand the history and evolution of Indian English Literature
	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
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 Ethnic Writing	Understand the evolution and history of American Ethnic writing
	Understand the concept of ethnicity and multiculturalism
	Comprehend the different ethnic movements
	Understand the Black, Jewish, Japanese and Amerindian presences in American literatures and their histories
	Perceive the social and political concerns embedded in the ethnic writings



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	Evaluate the religious and cultural aspects prominent in the American writings
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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
VEG1B01 Reading Poetry	Develop taste for poetry with theoretical basis
	Build an awareness about the cultural diversity 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 various prose forms
	Appraise the literary styles of eminent prose writers.
	Relate to various modes of prose writings in relation to their socio-historic and cultural contexts
	Apply critical thinking to examine prose writings from different contexts
VEG3B03 - Reading Drama	Develop taste for drama with theoretical basis
	Infer various kinds of theatres and techniques of drama



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	Build an awareness about the cultural diversity of the world literature with reference to drama
	Construction of attitudes, values and behaviour and creation of roles and relationships to gain an understanding of dramatic experience
	Develop the ability to distinguish between the writing styles of various authors
VEG3B04 - Reading Fiction	Interpret the characteristics of various forms of fiction
	Appraise the literary styles of eminent fiction 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 movements and 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



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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 Methodology of Literature	Identify different traits of literature
	Distinguish between literature and other discourses
	Discover different varieties of English literatures.
	Understand the various textual approaches
	Analyze texts based on certain theoretical frames.
VEG5B10 Informatics	Understand the history and types of computers
	Analyse the function of hardware in computers
	Apply the software tools for better communication skills
	Create multimedia content
	Evaluate the security issues in the digital scenario
VEG5D01 Film Studies	Classify major movements of world cinema
	Distinguish major film genres



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	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 of thought.
	Evaluation of the contribution of Indian Aesthetics to Criticism.
	Develop a critical thinking and appreciation of Literary Works.
	Differentiate between criticism and theory.
VEG6B13 Literatures in English: American & Post Colonial	Understand the nation's cultural identity-ancestry, heritage, language, physical appearance through varied literatures in English.
	Analyze the effects of colonization and imperialism on colonies.
	Identify how new forms of imperialism replace colonization.
	Comprehend the implications of the American 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 various literary genres
	Create an awareness of female subjugation by utilizing literary theory
	Analyze patriarchal norms to enhance critical thinking
VEG6B15 Writing For the Media	Infer the role of journalism, advertising in a democratic society and nature of news
	Compare the difference between print media, electronic media and digital media



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	Develop competency in online writing, blog, social networking sites and technical writing
	Apply media writing skills
VEG6E01 World Classics in Translation	Introduce literatures other than English literature 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 genres of literature

B A FUNCTIONAL 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 in English in various contexts
	Develop confidence to respond in English in various contexts
	Develop speaking skills required for group discussions and formal or extempore speeches in English
	Develop team work and leadership skills for future workplaces



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VFE2B02 Communicative Grammar	Explain the basic concepts of grammar
	Identify the different parts of speech
	Construct different types of sentences
	Understand the relevance of mechanics and stylistic conventions in academic writing
	Make use of MLA style sheet for writing and documentation in academic papers
VFE3B03 English and Communication Technology	Understand the history and types of computers
	Analyse the function of hardware in computers
	Apply the software tools for better communication skills
	Create multimedia content
	Evaluate the security issues in the digital scenario
VFE3BO4 Applied Phonetics	To identify and categorise distinct English sounds, its production and the varied phonetics symbols.
	Classify the various phonemes and explain the realisational differences including allophonic variations.
	Understand the importance of organs of speech in the production and articulation of a speech sound.
	Use phonetic symbols for transcription.
	Illustrate syllable divisions and breath groups.
	Determine stress patterns in given words and sentences.
	List all intonation patterns in English and identify semantic changes due to their 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 Literary Criticism.



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		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 Linguistics	To	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



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VFE5B07 Creative Writing	Understand and appreciate various writing 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 and performance
	Analyse plays in relation to history, theory and culture
	Understand modern theatre practices
	Demonstrate ideas through dramatic forms and theatre conventions
VFE5B10 Contemporary Literary and Cultural Theory	Introduction to the evaluation of literary criticism, Movements and schools of thought.
	Evaluation of the contribution of Indian Aesthetics to Criticism.
	Develop a critical thinking and appreciation of Literary Works.
	Differentiate between criticism and theory.
VFE6B11 English Language Teaching	Understand the scope and potential of English as a universal language
	Analyse the crucial role of the teacher as the facilitator, team player and organiser
	Apply the theories of second language learning in teaching environment



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	Evaluate the approaches, methods and techniques in ELT
	Create lesson plan incorporating teaching aids and activities to develop LSRW
VFE6B12 Functional English for Electronic Media	Detail the history and fundamentals of electronic media
	Script radio talk, interviews, documentaries and drama
	Understand the basics of TV program production
	Develop competency in online writing- Blog, social networking sites, technical writing
VFE6B13 Translation Studies	Get to know literatures of various languages.
	Understand the cultures behind languages.
	Identify various aspects of language skills in an individual.
	Express one's thoughts in different languages.
VFE6B14 Introduction to Film Studies	Classify major movements of world cinema
	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 and procedure involved in advertisement production.
	Identify the role of advertising in the marketing field.
	Comprehend the importance of advertisement in the present scenario.
	Create advertisement copy with proper structure and components
	Analyze the different types of advertisements in terms of creativity.



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 Malayalam Literature
	Introduce and analyze Ancient prose forms.
	Analyze the Ancient manuscripts.
	Understand the structural organization and function of intra cellular organelles
	Analyze the Ancient Gadya writings..
	Modernization of Malayalam language till the period of printing
	Analyze the development of modern prose and the scope of translation.
	Analyze the development of Malayalam computing
VPMLIC02 - Ancient Malayalam Poetry	Understand the origin of Malayalam poetry
	Introduce and analyze Ancient poetry forms
	Analyze the ancient poems
	Analyze the different language patterns that present in ancient poems.
	Understand the influence of other languages in the development of Malayalam poetry



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	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 techniquel 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.



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	Compare 'Keralapanineeyam' and 'Vyakaranamithram' two works in grammar.
	Analyze the discussions on 'Keralapanineeyam', book by A.R.Rajarajavarmma
	Compare different opinions of grammarians about the process of Malayalam grammar
VPML2CO7 Linguistics	Understand the theories in Linguistics
	Analyze the Malayalam on the basis of linguistic theories
	Analyze different discourses of Malayalam language
	Understand the dialectology of Malayalam language
	Understand the development and changing process of Malayalam language
VPML2E/8 Kunchan Nambiar – (special study)	Identify the contributions of a Malayalam poet
	Understand the major contributions of Kunchan Nambiar, Malayalam poet in 18 th century in Kerala
	Cultural background of particular poet in Kerala
	Analyze the language form, way of presentation and the representation of people in Kerala in those poems
	Identify the peculiar characters of one poet especially in the ancient period
VPML3CO9 Ancient Literary Theories	Understand the history of eastern literary theories and literary forms in Kerala literature
	Identify the influence of Indian literary theories in Malayalam criticism
	Understand different Indian literary theories
	Introduce Ancient eastern poets
	Historical analysis of literary criticism



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	Cultural Analysis of different literary forms on the basis of Indian literary theories
	Cultural study through eastern criticism
	Compare eastern and western literary theories and literature
VPML3CO10 Kerala Culture	Understand Ancient history & culture of 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 Kerala history
VPML3E3/12 Popular literature	Understand different stages of culture
	Analyze the history of popular literature in Malayalam
	Development of Malayalam literature through popular culture
	Influence of publishers in the area of popular literature
VPML4CO13 Modern Literary theories	Understand the period of modernity in the basis of literary changes
	Study the influence of western literary theories in Malayalam criticism
	Introduce the western and modern literary theories



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VPML4CO14 Vivarthanam- Thathvavum Prayogavum	Understand the theoretical 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 where translation is applicable
	Understand the different methods and techniques in translation
	To explore different cultures through translation
	Analyze the problems in translation and to show ways and means of solving 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 to morality.
	Identify the 'The Collective Identity'.
	Trace the history and development of folklore studies.
	Understand the origin of folkloristic in academic bodies.
	Understand the different folk genres and its influence in literature.
	Analyze the folk literature.
	Trace the study of Kerala folklore and its origin & development.
	Explore the folk tradition in Kerala culture and collectivity.



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 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.
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



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	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 Novelsahithyam	General awareness about Malayalam novel.
	Introduce the history of Malayalam novel & short stories.
	Understand the history & different stages of Malayalam Novel.
	Introduce Translated Novels
VML5BO7 Malayalam Grammar	Understand The Theories of Malayalam Grammar.
	Analyze Malayalam Language Usages.
	Create Own Conclusions About Malayalam Grammatical Usages
	Compare Different Grammatical Theories with Kerala panineeyam.
VML5BO8 Course Title- – Western Literary Theories	Understand The Western Literary Theories.
	Identify The Greek-Anglo Literary Critics.
	Acquire Critical Skills through Critical Works.
	Historical Analysis of Western Literary Theories.
VML5BO9 Malayalam Sahithyavimarsanam	General awareness about Malayalam Criticism
	Introduce the history of Malayalam Criticism.



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	Understand Different Theories of Criticism.
	Apply the Theories to The Literary Works.
VML5B10 Folklore	Understand the Folk Tradition, Culture, And History.
	Identify the 'The Collective Identity'.
	Trace the History and Development of Folklore Studies.
	Explore the Folk Tradition in Kerala Culture and Collectivity.
VML5D01 Chalachithra Padanam	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 a short film-campus film-documentary
VML6B11 Course Title- Ancient Malayalam Poetry	Understand ancient Malayalam literary periods.
	Introduce Ancient Malayalam Literary 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.



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	Understand the Features of Malayalam Gadyam.
	Understand the Features of Ancient Malayalam Manuscripts.
VML6B13 Course Title- Eastern Literary Theories- Pacheenam	Understand the Eastern Literary Theories.
	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 Background of Literary Works
	Create the ability to criticize different culture of literature
VML6EO2 Vivarthanam	Understand the theoretical 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 where translation 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.



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	Find the job fields in translation as a profession
COURSE CODE – VMLA01,A02,A03 , A04 COURSE TITLE- – MALAYALASAHIT HYAM 1 2 3 4	General awareness about Malayalam literature Introduce the different literary forms Introduce Malayalam e content Inculcate creative skills
MALAYALAM (COMPLEMENTARY COURSE)	
COURSE CODE - VML1CO2,VML2 C O2,VML3CO2,V ML 4CO2 COURSE TITLE- Keralapadanam- Poorvakalakeralam, Madhyakalakeralam, - Adhiniveshakalakeralam, - 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 analyze and 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-cultural scenario.



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PSO6	Acquire the ability to live fruitfully in the society imbibing traditional values and to discharge duties and responsibilities as ideal citizens.
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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 by Kerala Scholars Familiarize the students the main Indian branches like Philosophy, Literature, Ayurveda, Jyotissastra, Ganita and Vastuvidya.
VSK 4 C 04 : PART B Drama and keralasanskrit theatre	To familiarize Sanskrit dramas to the students. To familiarize Bhasa and his plays. To familiarize the enactment of Sanskrit drama 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 the study of Raghuvamsa. Understand the tradition of Sanskrit Lyrics. Cultivate moral values among students through the study of Subhashitas Understand the basic principles of grammar.
VSK 2 A 02 : Prose And Applied Grammar	Attain general prose literature. Understand the history and greatness of Sanskrit prose literature. Evaluate modern Sanskrit prose literature through the study of Mrcchakatika Kathasangraha. Understand the tradition of Sanskrit fables.



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	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.
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BASIC SANSKRIT- II VPML4C15: Drama, Dramaturgy And Poetics	To understand the history and development of Sanskrit Drama. An appreciation of ten Rupakas in general. To familiarize with the dramas of Bhasa. To evaluate Sanskrit poetic style and its major divisions To understand basic grammar.
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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 and Linear 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 linear transformations
	Application of inner product spaces
VPMT1C03 Real Analysis - I	Understand the definition and basic concept Topology
	Analyse limits and continuity of Real numbers
	Apply methods of differentiation
	Analyse Sequences 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 Series Solutions and Special functions



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	Understand Systems of First Order Equations; Nonlinear Equations
	Understand and Analyse the Existence and Uniqueness of Solutions, The Calculus of Variations.
VPMT1C05 Number Theory	Analyse and understand the Arithmetical Functions and Dirichlet Multiplication
	Understand the basic concepts and levels of Congruences, Quadric Residues and Quadratic Reciprocity Law.
	Study of Cryptography, Public Key and apply in real life problems.
VPMT2C06 - Algebra – II	Understand the concept of prime and maximal ideals.
	Understand finite fields and automorphism of fields
	Understand splitting fields and separable extensions
	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 Representation Theorems
VPMT2C08 Topology – I	Understand Topological Spaces
	Understand Continuous Functions among topological spaces and quotient spaces
	Understand The Concept Of Separation Axioms



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	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



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	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 line integrals.
	Understand local equivalence of surfaces and parametrized surfaces
VPMT4E04 Fluid Dynamics	Understand the concepts of equation of motion, 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 of Kutta 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)



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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 of algebra
		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 Geometry	Analytic	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



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	Understand Sequences ,series and convergence and apply in solving problems
	Understand Intervals as subsets of \mathbf{R} and subsets of \mathbf{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



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VMT6B12 Number theory and linear algebra	Understand Division algorithm and apply in problems
	Understand the properties of prime numbers
	Understand the concept of vector spaces
	Understand Linear transformation
	Apply Rank nullity Theorem
VMT6E01 Linear Programming	Understand convex sets and General LPP
	Apply Simplex method
	Understand Duality and apply in solving problems
	Apply Transportation problem
	Apply Assignment problem
MATHEMATICS COMPLEMENTARY	
VMT 1 CO1- Mathematics	Understand Limits, concepts, continuity, derivative and linear approximation of curves
	Analyse Rates of change
	Apply The concepts of graphing
	Analyse determination of Mean value
VMT2C02- Mathematics	Understand hyperbolic functions, its inverse, derivatives and integrals
	Apply the integrals to find area between curves, area of surfaces, volumes, length
	Understand hyperbolic functions, its inverse, derivatives and integrals
	Apply the integrals to find area between curves, area of surfaces, volumes, length
	Understand sequences, series and their convergence.
	Understand polar coordinates.
	Understand functions of several variables.
	Apply chain rule to find the partial derivatives of composite functions of a single variable.
VMT 3 CO3- Mathematics	Understand the category of linear and non-linear Differential equations.
	Apply solution of first order differential equations



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	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 periodic functions.
	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 Statistics and Probability	To understand various approaches to probability & compute probabilities.
VST2B02- Bivariate Random Variable and Probability Distributions	To understand the applications of theoretical discrete distributions



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VST3B03- Statistical Estimation	To equip the students with the theory essential for estimation of unknown parameters
VST4B04- Testing of Hypothesis	Identify a suitable test of significance to test a given hypothesis -large sample test/small sample test for testing different parameters
VST5B05- Mathematical Methods Statistics	in To introduce the mathematical concepts required to learn theoretical statistics.
VST5B06- Statistical Computing	to develop scientific and experimental skills of the students
VST5B07- Sample surveys	To equip students with Sampling Techniques used in conducting sample surveys
VST5B08- Operations Research and Statistical Quality Control	To provide an insight into quality assessment techniques
VST6B09- Time Series and Index 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 to agriculture, biological sciences and industry
VST6B11- Population Studies and Actuarial Science	To impart basic concepts in population studies, actuarial science and vital statistics
VST6B12- Linear Regression Analysis	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 survival time of different real-life systems
BA ECONOMICS PROGRAMME	
ST5 D02- Economic Statistics- open course	To expose statistics students to the areas of time series and index numbers



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VEC3B03- Quantitative Methods for Economic Analysis-I	To enable the advanced mathematical skills in students and expose them to the basics of statistics
VEC4B05- Quantitative Methods for Economic Analysis-I	To impart the basics of probability along with time series, vital statistics and index numbers
VST1C01- Basic Statistics And Probability	To understand various approaches to probability & compute descriptive statistics of data
VST2C02- Probability Distributions	To understand the applications of theoretical discrete & continuous distributions
VST3C03- Statistical Inference	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 Quality Control and Analysis of Variance
VME1C01- Mathematical Economics	To understand the students to identify statistical tools to solve economic problems
VME2C02- Mathematical Economics	To expose statistical tools to students to solve economic problems
VME3C03- Mathematical Economics	To equip the students to identify statistical tools to solve economic problems
VME4C04- Mathematical Economics	To equip the students to identify statistical tools to solve economic problems



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 Lagrangian and Hamiltonian mechanics.
	Understand the classical background of quantum mechanics.
	Understand and analyze the Kinematics and Dynamics of Rigid Bodies:
	Formulation of the problem involving small oscillations
	Understand the concepts of nonlinear equations and chaos
VPPH1C02 Mathematical Physics	Understand different Coordinate Systems and obtain the transformation equations
	Obtain various differential calculus operators in various coordinate systems.
	Understand the concept of matrices and tensors and apply them to various problems in Physical.
	Understand and solve second order differential equations representing different physical problems
	Understand various special functions as the solutions of second order differential equations and evaluate the value of various 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



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	Apply the concept of phasors into em wave propagation in lossless and lossy media
	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 in various electronic application
	Identify the method for solving logical problem
	Understand the working of various logical processing devices
	Understand the internal architecture, instruction sets and machine cycle for operation of Microprocessor and Microcontroller
	Solve the mathematical and logical problems using programming instruction for Microprocessor
VPPH2C05 Quantum Mechanics -I	Understand the basic concepts of linear vector spaces, operators and matrix representation of quantum mechanics
	Understand the fundamental postulates of quantum mechanics and uncertainty principle.
	Understand the quantum dynamics and the evolution of a quantum mechanical system.
	Understand the concepts of angular momentum, addition of angular momentum and Pauli's spin matrices.



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	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 evaluate periodic 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 knowledge of quantum statistical mechanics.
	Solve problems in classical and quantum statistical mechanics.
	Understand the thermodynamics of black body radiation and sound waves from the thermodynamics of ideal Bose system .



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	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 functions in Python
	Understand the iterations and looping in Python
	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 and helium atom problems.
	Understand time dependent perturbation theory and apply it in problems.
	Understand the relativistic formulation of quantum mechanics.
	Understand canonical quantization of fields.
VPPH3C10 Nuclear and Particle Physics	Understand the basic static nuclear properties and their measurement techniques



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	Understand the characteristics from deuteron theory and theory of nucleon nucleon scattering
	Apply the single particle shell model and collective 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 in detail
	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 lattice and 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 Debye model of specific heat capacity.
	Understand how electrons and holes behave in semiconductors
	Understand the dielectric, ferroelectric properties
	Understand the magnetic behaviour of crystals.
	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



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	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 for measurement of low temperature
	Understand the principle, working and merits and demerits of various particle accelerators
	Learn about various ion sources, the ion implantation 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 electric field on atomic spectra.
	Characterize materials using spectroscopic techniques.



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	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 and activation energy of diffusing atoms using the laws and theory of atomic diffusion.
	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 and applications 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 quantum well, quantum wire and quantum dot structures to the field of quantum electronic devices.
VPPH4E31 Modern Optics	Understand the electric field interaction with 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 Fraunhofer diffraction using Fresnel Kirchoff formula
	Understand the basic theory of multilayer films



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	Represent optical phenomena in matrices using Jones's calculus
	Understand the use of Fourier transform 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 of Newtonian mechanics
	Understand the equations and concepts regarding motion, work and energy
	Solve problems in work and energy.
	Understand the concepts of angular momentum and torque in Mechanics.
	Solve numerical problems in angular momentum
	Determine the elastic constants of a solid material.
VPH2 B02 Core Course II - Properties of Matter, Waves and Acoustics	Determine the elastic constants of a solid material.
	Understand the concepts harmonic, anharmonic and forced oscillations.
	Solve problems related to oscillations
	Understand the equations and concepts

Academic Year (2018-2019)



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	regarding wave motion transverse and longitudinal waves
	Solve problems in wave motion using wave equations.
	Understand the properties of sound waves, production of ultrasonic waves and 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 inertial and non-inertial frames of reference
	Understand the concepts of conservation laws 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 special theory of relativity, transformation equations, length contraction ,time dilation and four vector space
	Solve problems using relativistic concepts
VPH4 B04 Core Course IV – Electrodynamics I	Solve electrostatic problems using fundamental theorems and laws in electrostatics
	Understand the principle of capacitors ,dielectrics , interaction of electric field and matter



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	Understand the concepts Laplace's equation and the problem of electrostatic images
	Solve the problems involving charges in motion and steady currents using principles of magnetostatics.
	Understand the concept scalar and vector 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 associated with electromagnetic induction
VPH5 B05 Core Course V - Electrodynamics II	Understand Maxwell's 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 principles in various AC bridges for the measurement of Inductance, Capacitance etc.
	Understand various network theorems
	Apply network theorems to solve complex circuits
VPH5 B06 Core Course VI - Quantum Mechanics	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.



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	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 geometrical optics are outcomes of variational principle
	Apply matrix algebra to solve problems in optics
	Understand the basic theories of interference, diffraction and polarization
	Understand the major applications of interference, diffraction and polarization
	Understand the fundamentals of practical applications such as lasers and optical fibres
	Understand the fundamental aspects of non-linear optics
VPH5 B08 Core Course VIII Electronics	Design rectifier, filter and regulator circuits using semiconductor diodes
	Understand the functioning of CE, CB and CC configurations of transistor
	Design transistor amplifier circuits using circuit analysis
	Design oscillators using principle of positive feedback
	Understand basic principles of analog and digital communication
	Understand the basic working principles of LED, FET and MOSFETS and op-amps.
	Understand number system and arithmetic.
	Design simple digital circuits using logic gates
VPH6 B09 Core Course IX - Thermal and	Understand the fundamental laws of thermodynamics
	Understand the basic theories of various thermodynamic processes



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Statistical Physics	Understand the theory of heat engines and other practical engines
	Understand the concept of entropy for irreversible and reversible processes
	Understand the theory and application of phase transitions
	Understand Maxwell's thermodynamical relations and its various 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 crystal structure.
	Identify the symmetry elements in a cubic crystal
	Understand X ray diffraction phenomenon.
	Solve problems based on superconductivity
	Understand the basic elements of practical spectroscopy
	Understand the ideas of Microwave, infrared and Raman Spectroscopy
	Understand the principle and working of different types of lasers.
VPH6 B11 Core Course XI – Nuclear Physics, Particle Physics and Astrophysics	Understand the static and dynamic properties of nucleus.
	Understand the different radioactive decay and theory of gamma decay.
	Understand the characteristics of Nuclear fission & fusion and nuclear reactors
	Understand working principle of Nuclear detectors, counters and accelerators .
	Understand the nature properties and effects 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 particle interactions.
	Understand the introductory concepts on astronomy and astrophysics .



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VP6 E01 - Computational Physics	Understand the basic functioning of programming languages
	Understand the operators data structures of PYTHON language
	Understand the user defined and built in functions in PYTHON
	Understand the iterative methods in PYTHON
	Understand the various mathematical tools used in numerical analysis
	Understand the advantages and disadvantages of numerical methods over analytical methods
	Apply computational methods to solving physics problems
	Apply PYTHON programming language to solve physics problems
VP5 D01 : Non-Conventional Energy Sources	Understand the physical principles of solar energy conversion to heat and electricity
	Understand the working of solar cookers, furnace and green house
	Understand the process of wind energy conversion to electrical energy
	Understand the geothermal energy sources and their applications
	Understand the significance of biomass as source of energy
	Understand the techniques of power generation from tides and waves
	Understand the significance of batteries in power storage
VP4 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.



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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 Interference and 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 using LED’s
	Determine the frequency of ac using Sonometer
	Determination of B_h , magnetic moment of a magnet using Circular coil apparatus
VPH6 BPL3 Core Course Practical VIII – Practical III	Verify the characteristics of diode, Zener diode and CE configuration of transistors
	Construct rectifiers ,voltage multipliers ,voltage regulators ,clipping and clamping 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’s Theorem ,JK & RS flip flops and half adder using IC’s.
	Design low pass and high pass RC filter circuits
	Execute Python programme of Taylor series and solution of equations by numerical methods.
	Execute Python programme for Numerical differentiation and Numerical Integration .



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	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 a solid material.
	Understand the concepts of Surface tension
	Understand the Viscosity of fluids
	Solve problems related to elastic constants, 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 concepts of interference.
	Understand the concepts of diffraction and polarization.
	Solve problems related to interference, diffraction and polarization.



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	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 quantum mechanics
	Acquire knowledge about the systems 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)



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	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 and synthesis of P-N, P-S, S-N compounds
	Draw the Ellingham, Latimer, Frost and Poubaix diagrams
	State the various theories to explain the structure of nucleus
	Describe the interaction of radiation with matter
VPCH1CO3- Structure and Reactivity of Organic Compounds	Understand about hydrogen bonding and its 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



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	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 to theory of diffusion
	Summarise the kinetics of chain reactions, fast reactions and solution kinetics
	Understand molecular reaction dynamics using molecular beams
	Study Langmuir theory of adsorption, BET equation and experimental methods for topology analysis
	Compare homogenous and heterogeneous catalysis
VPCH2CO5- Applications of Quantum Mechanics and Group Theory	Analyse approximate methods of quantum mechanics.
	Summarise many electrons system and antisymmetry principle.
	Compare the elementary concepts of MO and VB theories.
	Illustrate Huckel theory for conjugate π -electron systems
	Understand the hybridization in molecules.
	Construction of SALC using projection operator
	Classify atomic orbitals involved into symmetry species.
	Evaluate IR and RAMAN active modes of molecules
VPCH2CO6- Coordination Chemistry	Understand the basic factors that affect the stability of coordination compounds.
	Study the bonding in coordination complexes by VBT, CFT, MOT
	Draw the MO diagram of several complexes



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	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 coordination complexes
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.
	Summarise 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 electrochemical cells with heat engines.
	State the different theories of hydrogen overvoltage
	Acquire knowledge about polarography and 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



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	Compare M-B, B-E and F-D statistics
VPCH3CO9- Molecular Spectroscopy	Understand the basic fundamentals of microwave spectroscopy
	Analyse the vibrational spectra of polyatomic molecules
	Compare the classical and quantum theory of Raman effect
	Evaluate Kramer'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 by neutral 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 of linear and cyclic pi systems
	Understand about oxidative addition, reductive elimination, insertion reactions
	Compare homogenous and heterogeneous catalysis by organometallic compounds
	Analyse metal-metal bond and metal clusters
	Describe oxygen transport by heme proteins
	Summaries metallo enzymes and electron 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 in inorganic chemistry
	Analyse several reactions for the formation of carbon-carbon bond
	Study the structure, synthesis and reactions of heterocyclic compounds



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	Understand several molecular rearrangements and transformation
	Study the mechanism of different rearrangement reaction
	Understand the structure and synthesis of 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 reactivity of carbonyl compounds
	Study the mechanism and synthetic applications 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 to pharmacologic activity
	Explain the tools of combinatorial chemistry.
	Use TPD method for determination of surface acidity
	Describe renewable and conventional energy resources
VCH4E22-	Compare physisorption and chemisorption



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Industrial (Elective)	Catalysis	Analyse kinetics of heterogeneous catalysis.
		Explain Langmuir, BET and Freundlich isotherms
		Describe the different methods for the preparation and deactivation of catalysts.
		Understand the basic principles of phase transfer catalysed reactions.
		Discuss the biocatalysts and their immobilization.
		Built knowledge on the catalysts used for environmental protection
		Describe the role of heterogeneous catalysts
VCH4C13- Instrumental Methods of Analysis		Acquire proficiency in statistical analysis and error estimation
		Analyses how health, disease and modern medicine are all rooted in biological chemistry
		Explain the principles of gravimetric inorganic precipitating agent like NH_3 , H_2S , $(\text{NH}_4)_2\text{MoO}_4$ and NH_4SCN
		Describe neutron activation analysis with quantitative analysis
		Understand the capabilities and limitations of optical instrumental methods
		Explain the instrumental component and principles of operation
		Built knowledge on chromatographic method, detectors and CHN analysis by GC
		Describe TGA, DTA, DSC and their instrumentation
		Describe amperometry, coulometry, chronopotentiometry, anodic stripping voltametry



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 of chemistry 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 to particle in 1D and 3D boxes
	Understand Schrodinger wave equation for H atom, quantum numbers and shape of orbitals
	Understand modern periodic law and periodicity in properties



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	Recognize different electronegativity scales
	Understand ionic bonds and BornHaber cycle
	Apply VSEPR theory to predict the shapes 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 given set 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 Clausius-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 and chemical processes
VCH4B04- Organic Chemistry - I	Recognize the uniqueness of Carbon and historical development of organic chemistry
	Understand the types of representations of organic molecules
	Distinguish conformational and configurational isomerism
	Understand optical isomerism and geometrical isomerism
	Identify different electron displacement effects in organic molecules and reaction mechanisms
	Comparison of reactivity based on orientation effects



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	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 in inorganic preparations



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 its applications
	Understand the principles behind different chromatographic techniques and its applications
	Characterize molecules based on spectral data
	Apply symmetry operations to classify different molecules
VCH5D01- Chemistry in Daily Life	Recognize common classes of drugs and their applications in pharmaceutical industry
	Understand food additives and modern food habits
	Understand the basics of polymer chemistry
	Understand different types of fuel and understand pollution due to burning of fossil
	Recognize the use of pesticides and fertilizers and their impact on the environment
	Understand the function of cleansing agent and cosmetics
	Understand potential applications of Nanomaterials and conducting polymers
VCH6B08- Inorganic Chemistry - IV	Understand the processes of metallurgy and 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 metal carbonyls



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 polymers and importance of glass transition temperature
	Appreciate the importance of polymer processing techniques
	Understand the preparation and role of various commercial polymers



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	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 development of 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 MO theories
	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 concepts of organic chemistry
	Distinguishes electron displacement effects
	Identifies reaction intermediates
	Understand the concepts of stereo chemistry



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	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 functions of 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 for purification of colloids
	Understand basics of kinetics
	Recognize homogeneous and heterogeneous catalysis and theories of catalysis
	Understand different spectroscopic methods
	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 conducting 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



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

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 on taxonomic disciplines.
	Develop the skill of scientific imaging of plants.
	Realize importance of field study
VPBO3C09- Biotechnology and Bioinformatics	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 biodiversity conservation	Understand the types of interactions and concepts of habitat in ecosystem
	Understand biodiversity and its conservation
	Develop and apply knowledge and skills on climate change, soil quality and disaster management
VBO4E02- Plant tissue culture	Hands on experience in the preparation of culture medium from stock solutions prepared using reagent grade chemicals
	Empowering students in culture initiation, clonal multiplication, rooting, hardening and field transfer of plants
VPBO4E03- Genetics and crop improvement	Create an awareness 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.
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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.



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VBO5B05 Gymnosperms, Palaeobotany, Phytogeography and Evolution	Understand the role of gymnosperms as a connecting link between pteridophytes and angiosperms
	Appreciate the process of organic evolution.
	Realize the importance of fossil study.
	Understand the climatic conditions of the past and realize the changes happened
VBO5B06 Angiosperm Morphology & Systematics	Appreciate the diverse morphology of angiosperms.
	Identify and classify plants based on taxonomic principles.
	Make scientific illustrations of vegetative and reproductive structures of plants.
	Develop the skill of scientific imaging of 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 in the field.
	Experiment on the subject and try to become entrepreneurs.
	Identify the economically important plants
VBO5B08 General & Bioinformatics, Introductory Biotechnology and Molecular Biology	Analyze the role of biotechnology in daily life.
	Understand the basic aspects of bioinformatics.
	Explain the concepts in molecular biology.
VBO5D01 Basic Tissue Culture	Understand plant tissue culture as a rapid propagation method.
	Explain the steps involved in tissue culture.
	Realize the applications of plant tissue culture
VBO6B09 Genetics and Plant Breeding	Appreciate the facts behind heredity and variations.
	Understand the basic principles of inheritance.



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	Solve problems related to classical genetics.
	Predict the pattern of inheritance.
	Understand various plant breeding techniques.
	Realize the role of plant breeding in increasing crop productivity
VBO6 B10 Plant Physiology and Metabolism	Identify the physiological responses of plants.
	Analyze the role of external factors in controlling the physiology of plants.
	Explain the metabolic processes taking place in each cell.
	Appreciate the energy fixing and energy releasing processes taking place in cells
VBO6 B11 Cell Biology and Biochemistry	Appreciate the ultra-structure of a plant cell.
	Enumerate the functions of each cell organelle.
	Draw and explain the structure of biomolecules
VBO6 B12 Environmental Science	Realize the importance of ecological studies.
	Develop environmental concern in all their actions and practise Reduce, Reuse and recycle.
	Try to reduce pollution and environmental 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 change and find out ways to combat it
Elective - VBO6E02 Genetics and Crop Improvement	Understand various techniques employed for increasing crop productivity.
	Identify diseases affecting crop plants.



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Attain general awareness on various crop research stations of the country
B.Sc Botany(Complementary Courses)	
VBO1C01 Angiosperm Anatomy and Micro technique	Explain the types, structure and functions of plant tissues.
	Explain primary and secondary (normal and anomalous) structures of plant organs.
	Identify plant organs by observing anatomical features.
	te primary and secondary (normal and anomalous) structures of plant organs.
VBO2C02 Cryptogams, Gymnosperms and Plant Pathology	Analyze the role of the lower plants in the process of evolution.
	Explain the ecological significance of lower 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 of angiosperms.
	Identify and classify plants based on taxonomic principles
	Make scientific illustrations of vegetative and reproductive structures of plants
	Identify the economically important plants
	Understand the basic principles of plant breeding
	Apply various horticultural practices in the field.
VBO4C04 Plant Physiology, Ecology and Genetics	Explain the physiological processes in plants.
	Understand the basic principles of heredity and variation.
	Realize the importance of ecology.



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

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



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	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
VPZO1C03 - 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 function 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.



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	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 and transposable genetic elements
	Understand eukaryotic and organelle genome
	Understand the molecular mechanism involved in eukaryotic genome and cancer
VPZO3CO8 - Immunology	Explain the role of molecules involved in immune mechanism
	Understand maturation of immunological cells leading to immune response.
	Understand the role of mhc in immune response
	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



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VPZO4E21 - Fishery Science II	Understand the capture and culture fishes, Designing of aqua farms
	Understand the nutrition of fishes and water 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 and spoilage.
	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, adaptations and functional anatomy of protists, cnidarians, Platyhelminthes, aschelminths and minor phyla
	Study of classification of animals



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	Identification of animal specimens based on theoretical knowledge and gaining 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 and gaining procedural skills
VZO3B03 - Animal Diversity, Chordata - PART I	Classification and study of protochordates, Pisces, amphibia and reptiles
	Describe the morphological, anatomical and ecological adaptations of protochordates, Pisces, amphibia and reptiles
	Examine morphological and osteological aspects of study specimens and 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 sustainable resource usage, conservation of endangered biota, preservation of biodiversity
	Understand the transnational character of environmental problems
	Understand the interdisciplinary nature of ecosystem.
	Knowledge of fundamental principles of toxicology.
	Understands biological diversity at gene, population and species level
VZO5B06 - Ethology, Evolution and Zoogeography	Describe the patterns of behavior and biological clocks in animals



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	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



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VZO5D01- Reproductive Health and Sex Education	Study the factors affecting health
	Apply the knowledge to lead a healthy lifestyle
	Understand various contraceptive methods
	Study various lifestyle diseases
	Redress problems associated with health and sex thereby promoting fitness and wellbeing
VZO6B09- Biochemistry	Understands the fundamental biochemical principles, such as the structure/function of biomolecules, metabolic pathways, and the regulation of biological/biochemical processes
	Accure proficiency in basic laboratory techniques in both chemistry and biology, and be able to apply the scientific method to the processes of experimentation and hypothesis testing
VZO5B10 - Physiology Endocrinology	and Understand the function of various systems
	Study of endocrine systems, its functions and diseases due to endocrine disorders
VZO6B11- Molecular Biology and Bioinformatics	Understand the gene, dna sequences , genetic code and human genome project
	Understand the process of protein synthesis and regulation of gene action
	Knowledge of awareness on the pros and cons, major databases and search engines in bioinformatics
	Understand the application of bioinformatics in sequence similarity search, genomics, proteomics and metabolomics
VZO5B12 - Reproductive Biology,	Understand the reproductive system in human beings



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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 finfishes and shell fishes
	Study of crafts, gears, fish products, by products, nutrient value, preservation techniques and fish diseases
	Understand white revolution, dairy 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.



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VZO1C01 - Complementary Course I - Animal Diversity and Wild life	Study of classification of animals
	Study of animal phyla
	Explain the wild life and conservation aspects
	Identification of animal specimens based on theoretical knowledge and gaining procedural skills
VZO2C02- Complementary Course II - Economic Zoology	Study of human parasites and mode of infection
	Study of pest and vectors and control measures
	Study of aquaculture, poultry and animal husbandry
	Identification of human parasites and vectors, pest, economically important fin fish and shell fish based on theoretical knowledge
VZO3C03 - Complementary Course III - Physiology, Toxicology and Ethology	Understand the function of various systems
	Study of animal behaviour
	Study of toxicants and public health issues
	Dissections of animal specimens and gain practical knowledge and skill
VZO4C04 - Complementary Course IV - Genetics and Immunology	Study of human genetics and cytogenetics of cancer
	Study of gene, gene action, genetic engineering and biological techniques
	Study of immune system and its action in health and diseased conditions
	Identify karyotype and genetic disorders

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 use performance
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 from middle age period
	Understand and discuss the garments and, accessories including headgear and foot wear of various regions
	Analyze the fashion trends in 18 th century
	Explain the evolution of costumes
	Understand the information regarding the costumes origin, fabrics, colours and accessories

Academic Year (2018-2019)



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

HTC1C02 Fashion Marketing	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 overall business operations and strategy
	Assess social, cultural and economic factors and their impact on the global consumer and market place
	Perceive the skill of inspirational and innovative techniques to implement in apparel merchandise
	Plan and budget sales for a seasonal range
	Determine a commercially appropriate product range for a retailer
	Create a sales forecast for a retail store
	Analyze the fashion industry's activities to develop/implement a marketing strategy
HTC1C03 Costume Design and Illustration	Adapt their artistic abilities to support their future design careers
	Develop sketching skills
	Build the practical knowledge of fashion sketches, illustration, mediums, rendering, fashion details
	Design costumes according to various body 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 effectively in their design process.
	Identify and discuss concepts related to the historical background of textiles and fashion.
	Identify and discuss concepts related to the design, production and evaluation of textiles and apparel products.



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	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 industry environment
HTC1C05 Research Methodology and Statistics	Outline of research concepts
	Compare different types of research methods
	Construct research design or proposal for future project works
	Examine various sampling techniques and measurement scales
	Develop report writing or presentation skills
	Choose right statistical techniques to be used with various research methods
	Interpret statistical literature, research articles, the claims made on the basis of statistics
HTC2C06 Quality Assurance and Textile Testing	Understand the method of testing textile fibers, yarns and fabrics
	Analyze and interpret the results of fabric testing from testing equipment's
	Apply statistical techniques for analyzing test results
	Identify various fabric defects and their causes and remedies
	Explain the principle of total quality management of textiles (TQM)
	Develop innovative tools to implement TQM in the textile industry
	Measure the quality particulars of textile material at different stages of production and know the standards



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	Identify quality deviations of fabrics
	Understand and evaluate quality assessment of final product
	Identify aspects of quality in the design and construction of textile items
HTC2L01 Fashion Draping (P)	Develop skills to build up the basic dress foundation
	Develop skills to design the bodice style
	Analyze and understand the dart equivalents and dart manipulations
	Develop skills to adapt the different neckline variations
	Explain the draping principles and techniques
	Develop skills to create skirt variations



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



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HTC2 C08 Technical Textiles	Identify the opportunities to develop a product 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 the textile 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, denting order
	Analyze the weaving calculations and different types of weave pattern
	Create different weave effects in weaving
	Understand basic weaves & fancy weaves
	Identify different woven samples
HTC3C11 Textile Chemistry	Recall fundamental organic chemistry
	Estimate different types of chemicals used in textile wet processing
	Identify dyes and estimate purity of dye solution and explain the mechanics of dyeing
	Identify various machinery used for
	printing & finishing of fabrics which would help them in working in dyeing/printing industry



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	Understand color theories, different measures of color and specifications
	Understand the coloration of synthetic/natural fibers
	Infer the principle and method of application of various types of special finishes on textile fabrics
	Recommend eco-friendly practices in textile processing
	Apply sustainable practices related to textile issues
	Propose research and development in the field of textile auxiliaries/dyeing/printing
ELECTIVE COURSES HTC3E01 Fashion Choreography	Understand various steps in planning a show
	Understand the technical framework and sound 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 in communication
	Understand the technical framework and need for fashion communication
	Develop skills in fashion writing
	Understand different techniques of visual communication
	Develop the fashion communication skill
	Identify the media ethics for better work culture
ELECTIVE COURSES HTC3E01 Sociology Of Clothing	Categorize the evolution of clothing through the theories



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		Discover the sociological aspects of clothing
		Compare the personality factors and choices of clothing
		Develop the skills in selecting clothing for different age group
		Distinguish the fashion and social visibility and Outlining the theoretical perspectives of fashion
ELECTIVE COURSES HTC3E02(1) Textiles Environment	And	Identify the Indian textile industry
		Analyze the environmental impacts of Indian textile Industry
		Explain the use of Biotechnology in textile wet processing
		Classify the types of Eco labels
		Identify the ecofriendly fibres and analyze the ecofriendly practices for fabric care
		Understand the various novel fibres
		Compare the difference between organic and conventional textile fibres
ELECTIVE COURSES HTC3E02(2) Science Of Clothing Comfort		Understand the importance of clothing comfort
		Understand the factors affecting clothing comfort
		Identify the neuropsychological factors related to clothing comfort
		Establish the relationship between garment fit and clothing comfort
		Develop a scientific approach towards selection of clothing
		Understand the psychological aspects of clothing in relation to its comfort



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ELECTIVE COURSES HTC3E02(3) Testing Of Functional and Technical Textiles	Understand the properties of functional and technical textiles
	Understand the objectives of testing functional textiles
	Understand the finishing procedures used to treat technical textiles
	Understand the various test methods used for technical textiles
	Identify the end use of functional textiles
	Understand the principles of testing
ELECTIVE COURSES HTC4E03(1) Home Textiles	Understand various types of Home Textiles
	Understand the need of Home Textiles in different settings
	Identify the recent trends in Home Textiles
	Understand the properties of home textile products
	Develop innovative home textile products
	Develop entrepreneurial skills in this field
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 visual communication of designs
	Design and produce innovative designs using CAD softwares
	Determine suitable file formats for digital outputs



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

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)



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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 origin of clothing
	Understand the material content of various ages
	Understand the basic functions and uses of clothing
	Discuss the global perspective of costumes and accessories
	Identify the diversity of Indian costumes
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 overall business operations and strategy
	Assess social, cultural and economic factors and their impact on the global consumer and market place
	Perceive the skill of inspirational and innovative techniques to implement in apparel merchandise
	Plan and budget sales for a seasonal range
	Determine a commercially appropriate product range for a retailer
	Create a sales forecast for a retail store



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Analyze the fashion industry's activities to
	develop/implement a marketing strategy
HTF3B03 Computer aided fashion design	Illustrate accurate representations of garment specifications for communication purposes
	Develop skills to choose a variety of design software for visual communication of designs
	Design and produce innovative designs using CAD software
	Determine suitable file formats/outputs
	Develop skills to Construct digital files using appropriate processes and techniques
	Make use of audio/visual aids to popularize the work done in designing
	Construct innovative garment designs
	Infer the advantages of 3D techniques in designing and production processes
HTF4B04 Garment construction and pattern making	Interpret a design with practical understanding of garment construction
	Develop designs prior to production of garments
	Analyze the designs by draping different fabrics to achieve the difficult designs.
	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 fit a person



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	Develops skills to create patterns for garments
HTF5B05 Garment costing	Develop the elements of basic cost sheet of garment.
	Discover the control of cost when decided to start a business.
	Make a use of proper decision in the production of garment
	Organize a budget for an industry.
	Explain the productivity of material and labour in a garment industry.
	Determine the budgeting principles for the apparel industry
	Construct the cost-plus pricing method
	Analyze the accounting for factory overhead
HTF5B06 Fashion presentation	Apply designing and illustrating using various mediums
	Distinguish the fashion accessory designing
	Build the theme-based illustrations
	Examine the basic aspects of fashion show
	Categorize the survey boards
	Explain creating lines
	Design a portfolio
	Evaluate designing skills
HTF5B07 Traditional Indian textiles and surface ornamentation	Develop the different hand and machine embroidery stitches.
	Develop creative designs in embroidery and prepare garments by using this embroidery.
	Identify the various color schemes and their applications in surface ornamentation.
	Identifying new opportunities in craft, art, Fashion and markets.
	Understand the richness of the Indian embroidered textiles.



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	Create unique design using traditional embroidery patterns and stitches.
	Build operation of tools and instruments.
HTF5B08 Concepts of fashion design	Analyze basic elements of design.
	Analyze the designing principles in a garment.
	Assess body figures and dress details
	Categorize the use of elements and principles of design in designing garments
	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 and principles of design to create harmonious and balanced interior
	Explain the properties of colour and its effects on the intended style
	Discover the effect of natural and artificial light on colour and surface texture
	Discover the importance of ensuring quality finishes on floor and walls to create professional and enduring interior space
	Create striking and functional backdrop for furnishings and window treatments
	Apply knowledge of design elements to the reality of placing objects in perfect manner
	Create visual ideas about functional aspects of housing



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	Plan creative kitchen design by adapting principles
	Summarise the elements of design in floral 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 human body
	Explain how to cope with disorders and other environmental factors
	Elaborate on common tests used to analyze different disorders
	Outline the role of central nervous system in controlling voluntary and involuntary activities of the human body
	Illustrate the role of endocrine system in the regulation of body activities

Academic Year (2018-2019)



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Identify the causes of Infertility and Methods of contraception
	Comprehend blood group system and common facts related to the same
	Apply resuscitation methods in emergency situations
	Illustrate the mechanism to maintain
	normal water, electrolyte and pH balance
	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 in different age groups.
	Understand nutrition related problems in life cycle.
	Understand national and international health programmes to prevent malnutrition.
	Plan balanced diets for different age groups.
	Develop competency in planning diets to meet the nutritional requirements of different socio-economic levels.
	Understand the need of nutrition in special events.
	Understand Growth monitoring and immunization schedule.
HND1 C03 Advanced Food Science	Understand the structure and composition of different foods
	Assess the functional properties of food
	Compare the methods of cooking
	Analyse the reasons and prevention of browning in vegetables and fruits
	Develop different nutritious recipes with different foods
	Judge the organoleptic evaluation of foods



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	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 standardsrelated to protocol and promotion in the food service industry



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	Develop organization chart to change and enhance wellness in diverse individuals 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 and interpret financial data
	Use effective and professional oral and written communication and documentation.
	Study hygiene and sanitation in the foodservice industry
	Build a kitchen layout using the available physical facilities
	Ensure the patients receive their best possible nutritional intake whilst in hospital
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, metabolism and special requirements of critically ill patients.
	Explain different types of Food allergy and intolerance and provide information on diagnosis, clinical symptoms and appropriate dietary modifications
	Develop professional ethics of dietitian in different situations



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Demonstrate sufficient problem –solving skills to assess multifactorial aspects of nutritional care and organize and prioritize necessary tasks withintime constraints
	Illustrate the effect of various metabolic disorders on nutritional status and itsdietary adjustments.
HND2 C09 Nutritional Management in Life Style Diseases	Understand the risk factors associatedwith life style diseases
	Understand the symptoms associatedwith life style diseases
	Explain the management of life style disorders
	Develop skills to plan appropriate dietfor 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 toreduce degenerative diseases
	Discuss modification in life style with patients to reduce the complications infuture
HND3 C10 Vitamins And Minerals	Understand the chemistry of minerals &vitamins
	Understand the food sources and factors affecting absorption of vitamins andminerals
	Understand the functions of vitaminsand minerals
	Understand the metabolism of vitaminsand minerals
	Understand the nutritional requirementof various vitamins & minerals
	Study the states of deficiency & toxicityof vitamins & minerals
	Understand the interrelationshipbetween various micronutrients



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	Estimate the levels of nutrients in various 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 of nutrition education programmes
	Recall various food production methods
	Understand the role of various organizations in combating malnutrition
HND3 E01 Paediatric Nutrition	Demonstrate a thorough knowledge of the theory of human nutrition and dietetics as it applies to paediatrics.
	Understanding the aetiology, pathophysiology and clinical features of paediatric diseases and conditions that require dietary modifications.
	Apply knowledge of food, health, nutrition and dietetics to the nutritional care of children.
	Identify resources for promoting good nutrition for children in the community.
	Identify newborns with abnormalities.
	Understand the need for immunization during various life stages.
ELECTIVE COURSES HND3 E03 Functional Foods And Nutraceuticals	Understand the concept of nutraceuticals, probiotics and prebiotics
	Discover different foods which have nutraceutical properties
	Identify nutraceuticals that have effect on human health
	Discuss marketing and regulatory issues for Nutraceuticals
	Analyse the opportunity for functional food market growth



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ELECTIVE COURSES HND3 E06 Nutritional Counselling and Education	Define counseling and nutritional counselling
	Classify types of counselling
	Interpret different theories of counselling
	Identify the person who needs counselling
	Take part in nutrition education
	Interview persons who need counselling
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 disorders with special references.
	Discuss the influence of dietary factors on the developments of diseases and methods of detection.
	Predict how metabolic changes in both physiological and pathological states may affect human nutritional requirements.
	Analyze information from relevant scientific literature on the applications of biophysics relevant to nutrition.
	Estimate clinical diagnosis methods for endocrinological abnormalities by examining mode of action, enzymes and hormones.
ELECTIVE COURSES VPND 4 E07 Diabetic Care and Management	Understand the prevalence of Diabetes Mellitus
	Understand the anatomy and physiology of pancreas
	Understand the pathological changes in Diabetes Mellitus



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	Understand the symptoms and diagnosis of Diabetes Mellitus
	Understand the micro and macro vascular complications of Diabetes Mellitus
	Understand the co-morbid conditions of Diabetes Mellitus
	Understand the management of Diabetes Mellitus
	Plan diets according to the insulin requirement

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 and nutritional classification of foods
	Summarize the ICMR Recommended Allowances for Indians (RDA)



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	Understand the classification, functions, digestion, absorption, metabolism, sources, requirements and deficiency of macronutrients
	Understand the functions, sources, deficiency and requirements of fat soluble vitamins and water-soluble vitamins
	Understand the functions, sources, deficiency and requirements of minerals like 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 human development.
	Understand the needs and problems of exceptional children.
	Develop skills in organizational behaviour and generate solutions to situational 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 research methods
	Construct research design or proposal for future project works
	Examine various sampling techniques and measurement scales
	Develop report writing and data presentation skills
	Outline of bioinformatics and statistics
	Enable students to reflect knowledge & skills in bioinformatics and to apply it in various aspects of Home Science



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 and compare different methods of cooking
	Understand food additives and different preservation methods for food processing
	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 evaluate its nutritional content
	Understand structure, functions and classification of foods and different foodgroups
FCS5B05 Human Physiology and Microbiology	Understand about the anatomy of human body
	Understand the various organ systems and its functioning
	Understand the morphology of microorganisms and their role in health and diseases
	Understand the factors affecting growth of microorganisms and mode of transmission
	Understand the types of immunity and methods of sterilization
	Understand the mechanism of spoilage of food and etiology of food infections
FCS5B06 Diet In Health	Understand the role of food in daily life.
	Compare the nutritional requirement in different age groups.
	Understand nutrition related problems in life cycle.
	Understand national and international health programmes to prevent malnutrition.



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Plan and prepare balanced diets for different age groups.
	Develop competency in planning diets to meet the nutritional requirements of different socio-economic levels.
	Understand the need of nutrition for sports persons.
FCS5B07 Family Management Resource	Understand the process of management in family living
	Develop wise decisions in personal life and make use of given resources
	Apply the principles of Ergonomics after critically analyzing one's work habits
	Understand the functions of house and the 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 utilizing family resources
FCS5B08 Textile Science	Develop strong knowledge base in the production of fibres and yarns
	Identify textile fibres and apply it to various end uses
	Understand about woven and nonwoven fabrics
	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 of dietitian
	Understand the principles of diet therapy
	Understand and plan the routine hospital diets
	Understand the various deficiency diseases
	Understand the risk factors of various therapeutic conditions



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	Plan and prepare diet during various deficiency diseases
	Plan & prepare diet for therapeutic conditions
	Understand the management of various lifestyle diseases
FCS6B10 Fabric Care and Apparel Designing	Explain different laundering techniques
	Apply principles of laundering on different fabrics
	Understand traditional Indian textiles and embroideries of India
	Design garments keeping the elements and principles of design
	Find out latest fashion trends in India
	Create flat patterns and adapt them to specific styles
FCS6B11 Concepts in Family Relation	Develop healthy attitude towards marriage 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 methods of family planning
	Improve the knowledge regarding legal issues concerning women
VI FCS6B12 (E2)- Quantity Food Preparation Techniques	Identify the scope of food service industry
	Using different types of menus
	Analyze menu pricing and evaluation
	Apply different techniques in food purchasing
	Identify and develop receiving procedure and storage of food items
	Build standardized recipes and portion control techniques
	Understand the product standards for purchasing and selling food items
	Construct different styles of food service system



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	Evaluate budget, food cost control and interpret financial data
	Ensure the patients receive their best possible nutritional intake whilst in hospital
FCS5D02 Interior Decoration (Open Course)	Understand the elements and principles of design to create harmonious and balanced interior
	Explain the properties of colour and its effects on the intended style
	Discover the effect of natural and artificial light on colour and surface texture
	Discover the importance of ensuring quality finishes on floor and walls to create professional and enduring interior space
	Create striking and functional backdrop for furnishings and window treatments
	Apply knowledge of design elements to the reality of placing objects in perfect manner
	Create visual ideas about functional aspects of housing
	Plan creative kitchen design by adapting principles
	Summarise the elements of design in floral 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
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Academic Year (2018-2019)



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

VPEC1C01 Micro economics: Theory and Applications I	Explain consumer behavior under uncertainty
	Examine choice under risk
	Discuss the recent developments in demand theories
	Distinguish between CD and CES production function
	Examine modern theories of cost
	Differentiate collusive and noncollusive models of oligopoly
	Discuss different concepts of game theory
	Discuss different managerial theories
	Explain Limit pricing models
VPEC1C02 Macro-Economic Theories and Policies I	Discuss the Micro foundations of Monetary Theory
	Explain the Neo classical, Keynesian and post Keynesian theory of Demand for money
	Explain Money supply, its measure and Money multiplier
	Explain the Law of consumption and theories of Consumption function
	Discuss theories of Investment
	Discuss the IS LM General Equilibrium, Neo classical and Keynesian version
	Examine the objectives of macroeconomic policies
	Discuss the implications of Fiscal and Monetary policy instruments
VPEC1C03 Indian Economy: Problems and Policies	Examine the contribution of different sectors to GDP and employment
	Discuss the major developmental issues and Environmental Degradation
	Explain the implications of economic Planning in India



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Examine the Demographic changes under planning and five-year plans
	Discuss the Implications of Economic reforms in India
	Explain the structural Changes of Kerala Economy
	Discuss about the Decentralization and state finances
VPEC2C05 Microeconomics: Theory and Applications II	Explain General equilibrium of Exchange and Production
	Discuss theories in welfare economics
	Distinguish between negative and positive externalities in consumption and production
	Examine theories related to public goods 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 problem using graphical and simplex methods
VPEC2C06 Macroeconomics: Theories and Policies II	Explain Keynesian, Monetarist and Structural theories of inflation
	Discuss implications of inflation including cost of inflation, anti- inflationary measures and inflation targeting
	Explain Neo Classical and Keynesian Labour market theories
	Examine DMP model of job search theory



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	Discuss theories of business cycles including monetary, Keynesian, RBC theory, PBC theory and current global recession
	Distinguish between New Classical Macro Economics and Supply side Macro Economics
	Explain modern developments in post Keynesian macro economics
	Discuss new Keynesian explanations for real wage rigidity
	Describe Monetary and Fiscal policy effects in fixed and flexible exchange rates
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 equilibrium theories of taxation
	Explain theories of public expenditure including Wagner's, Wiseman-Peacock and Critical limit hypothesis
	Understand types of public expenditure and its control and management
	Discuss public debt management and its macro-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 reports of finance Commissions in India



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 affects 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



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	Theoretical and practical knowledge about policies of Reserve Bank of India
	An understanding about specialized financial and investment institutions
	An awareness on the banking sector reforms in India since 1991
	An understanding about international banking and multinational banking
	Knowledge about the structure and functions of commercial banks
	Knowledge about the structure and functions of cooperative banks
VPEC3C12 Basic Econometrics	Understand methodology of Econometrics
	Estimate Econometric models of different functional forms
	Explain econometric problems and remedial measures
	Explain the importance of lagged models in Economics
	Estimation of lagged models'
	Estimation of Simultaneous equation models
	Forecasting using estimated models
	Policy analysis using econometric models
VPEC4C13 International Finance	Understand different approaches to BOP and currency convertibility
	Compare fixed and flexible exchange rates
	Discuss theories of exchange rate including purchasing power parity theory, Monetary approach and portfolio balance approach



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	Understand foreign exchange market and related concepts
	Discuss policy adjustments models for balancing foreign exchange market
	Understand International capital flows
	Evaluate the role of working of MNC's
	Understand the evolution of IMS
	Explain present International monetary system
VPEC4C14 Financial Markets	Understand various aspects of financial market including the functions, types, participants and intermediaries
	Explain the concepts of financial inclusion and inclusive growth
	Differentiate instruments of money market
	Evaluate the structure and reforms occurred in the Indian money market
	Understand capital market instruments and institutions
	Analyses the capital market reforms and the role of SEBI in capital market
	Analyse the trading mechanism in stock exchange
	Identify the various types of derivatives and trade mechanism in derivatives market.
	Differentiate options and future market
VPEC4E01 Advanced Econometrics	Understand dummy regression models
	Understand basic concepts of time series econometrics
	Explain tests of stationarity
	Estimation and forecasting of stochastic process models



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	Estimation and forecasting of ARCH and GARCH models
	Differentiate fixed effects, Random effects and random coefficient regression models in the context of panel data
	Analyse monetary, macroeconomic and international economic theories using econometric methods
	Analyse agriculture and industry performance using econometric methods
VPEC4E02 Research Methodology and Computer Applications	Understand different approaches in Social Science Research
	Explain formulation of hypothesis in Research
	Explain research design based on different methods of research
	Describe data collection methods and tools
	Describe data compilation, coding and analysis techniques
	Understand Report Writing procedures
	Analyse data using different statistical methods with the help of excel package
	Tabulation and analysis of data using SPSS
VPEC4PR Dissertation	Understanding Research Methods
	Application of Research Methods
	Analysing Socioeconomic Issues



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 and methodology of micro economics
	Determine market equilibrium based on demand and supply curves
	Determine elasticity of demand and supply
	Determine consumer equilibrium under cardinal and ordinal utility theories
	Application of indifference curves
	Differentiate price and substitution effects in Hicksian and Slutsky methods
	Understand the concept of consumer surplus
	Understand the concept of production function and explain the properties of CD and CES production functions
	Determine producers equilibrium using isocost line and isoquants
VEC2B02 Microeconomics II	Understand the various concepts of cost
	Examine the traditional and modern theories of cost



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	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 mail merging



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	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 its basic terminologies
	What are the uses of internet in modern era
VEC5B07 Macroeconomics I	Understand scope, basic concepts and models of macroeconomics
	Understand definition concepts and methods of computation of National Income
	Explain classical theories and concepts of Macro economics
	Understand Keynesian theories, concepts and computation of variables
	Examine income determination through 2 sectors 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 of employment 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 since 1991



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	Explain the sectoral contribution of Agriculture and Industry
	Explain the trend in agriculture and industrial sector in India
	What are the challenges facing Indian Economy?
	Examine the remedial measures to overcome the challenges
	Explain the structural development of Kerala Economy
	Examine the Kerala Model of Development
VEC5B09 Economics of Capital Market	An understanding about the characteristics of different financial assets
	Knowledge about the basic concepts, structure and functions of capital market
	An understanding about the capital market instruments and institutions
	To study the role of SEBI in capital market
	Knowledge about the functions of primary market and its intermediaries
	Identification of the methods of issue in the new issue market and its applications
	Analysis about the secondary market and the stock market indices
VEC5B10 International Economics	Understand the importance of internal and international trade
	Explain the superiority of Modern theory of trade by comparing other theories.



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	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



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	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



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VEC6B14 Development Economics	Understand concepts of growth and Development and different measures of Development
	Examine evolution of theories of Development
	Understand different approaches to Growth theory
	Understand development of Indian Economy through five-year plans
	Understand the fundamentals of different plan models
	Understand concepts of poverty and measurements
	Examine Gender issues and related concepts
	Examine the concepts of sustainable development, models and issues of environment
VEC6E01 Environmental Economics	Understand Environment concepts and importance
	Explain theories of environmental economics
	Understand concepts of externalities and its measurement
	Recognize the environmental issues connected with urbanization and population
	Examine different concepts of sustainable development and approaches
	Explain different methods of evaluating environmental benefits and approaches to sustainable development
VEC6B15(PR)	Understanding basics of research



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Project Work	methodology
	Analysing Socioeconomic issues

Complementary Course for BA Sociology

COURSE OUTCOMES

COURSES	COURSE OUTCOMES
VPY1C01- Psychological Processes I	Understand the definition, nature and scope of Psychology
	Identify the schools of Psychology
	Understand the methods of Psychology
	Understand the structure and function of neuron
	Identify the aspects of attentional processes
	Evaluate the theories of colour perception and perceptual organisation principles
	Analyse the learning principles
	Understand the process of memory
VPY2C02- Psychological Processes II	Analyse the theories of forgetting
	Understand the cognitive processes
	Understand the motivational processes and types of motives
	Analyse the theories of emotion
	Evaluate the theories of intelligence
	Understand the assessment of intelligence
	Understand the emotional intelligence
	Understand the nature and determinants of personality
Evaluate the theories of personality	
Understand the assessment of personality	



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VPY3C03- Abnormal Psychology	Understand the meaning and classification of mental disorders
	Identify the clinical features and types of anxiety disorders
	Identify the clinical features and types of somatoform disorders
	Identify the clinical features and types of dissociative disorders
	Identify the signs, symptoms and clinical 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 and scope of social psychology
	Identify the components and characteristics of attitude
	Identify the factors influencing attitude formation and attitude change
	Understand the aspects of social perception-nonverbal communication, attribution, impression formation and impression management
	Understand the aspects of social cognition-schema, heuristics, priming, automatic and controlled processing
	Evaluate the potential sources of error in social cognition
	Understand the nature, functions and concepts of group –social facilitation, social loafing, deindividuation
	Understand the process of decision making in groups
	Understand the aspects of social influence-conformity, compliance techniques, obedience to authority
	Understand the theoretical perspectives and features of prosocial behavior
	Understand the theoretical perspectives, features, prevention and control of aggression



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 European powers to India
	Identify the modes of expansion and consolidation of East India Company Rule
	Understand and Analyze the modes of resistance 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 of nationalism among Indians
	Identify the features of early phases of national movement
	Analyse the economic critique of colonialism
	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 Gandhian methods
VHY4C04 - Modern Indian History (1857 TO THE PRESENT): Selected Themes in Contemporary India	Identify the foundations of Indian republic
	Analyze the changes in economy in post-independent India
	Study the forms of violence against environment in contemporary India



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	Understand the issue of communalism in India after independence.
B A English	
VHY1C05 - Social and Cultural History of Britain: Ancient and Medieval Period	Identify the early invasions of groups to British Isles
	Understand and analyse the nature of Anglo-Saxon life
	Analyze the medieval social formations and institutions
	Understand the early literature in Old and Middle English language
VHY2C06 - Social and Cultural History of Britain: History of Tudors and Stuarts	Understand the rise of Stuart dynasty in England
	Identify the changes in economy and society in early modern Britain
	Analyze the nature of literary works produced 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 new trends in literature
	Analyze the emergence of Britain as a colonial power
VHY4C08 - Social and Cultural History of Britain: History of Victorian and Post-Colonial Developments	Understand the aspects of life in Victorian and post-Victorian England
	Analyze the role of Britain in the post-colonial world
	Identify the various literary trends of the late nineteenth and twentieth century.



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Complementary course for BA Sociology and BA ENGLISH LITERATURE

COURSE OUTCOMES

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



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	High Court
	Appraise the concept of Judicial Review and Judicial Activism
VPS3C03- Indian Constitution and Politics –: Political Dynamics	Explain the features of the Indian Party System
	Analyze the growth, ideology and Programmes of 7 National Parties
	Scrutinize the reasons for the growth of Regionalism
	Examine ideology and programme of Major Regional Parties
	Assess the electoral process, composition and functions of the Election Commission
	Identify the need for Electoral Reforms
	Explain the methods and procedure for amending the Constitution
	Identify the three types of services in India
	Illustrate the composition, power and functions 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 of Indian Federalism
	Examine the Legislative, Administrative and Financial Relations between Centre and State
	Study the constitutional impact of National, State and Financial Emergency
	Discover the significance of the 73 rd and 74 th Amendment
	Determine the merits and demerits of Reservation policy in India
	Investigate the challenges to Indian Democracy- Communalism, Religious fundamentalism, Criminalization of politics
	List the composition and functions of Finance Commission, NITI AYOOG, 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 of functionalist thinkers
	Understand the functionalist analysis of Emile Durkheim, Malinowski, Radcliffe-Brown, Robert K Merton, and Talcott Parson
	Critically Evaluate the views of Exchange theorist George .C. Homans and Peter M Blau
	Differentiate the Theories of various interactionist thinkers like G.H Mead, C.H Cooley, Herbert Blumer and Ervin Goffman
	Analyse Critical school of thought with special reference to Marx and Weber



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Critically Evaluate the theories of Lewis A Coser, Ralf Dahrendorf and Randall Collins.
Course Code :VPSO2C06 CourseTitle : Research Methodology II	Apply measures of relation and association
	Differentiate between parametric and non-parametric tests
	Understand the measurement and scaling process in social research
	Differentiate between the important scaling techniques
	Understand the important qualitative methods in social research
	Understand the different styles of writing report
	Prepare the technical formats for research
Course Code : VPSO2C07 Course Title Family and Society	Understand the Family, Family and household, Family structure and composition, Life cycle of family, Stages of family life.
	To give awareness about Functionalist perspective of family: Murdock, Parsons, Wogel and Bell
	Provide the main theoretical ideas/critical views on family: Edmund leach, R.D. Laing, David cooper
	Understand Marxian perspective Family.
	Transformations in the institution of family: Functions of family & Emerging trends in the institution of family modern industrial society.
	Clear the major concepts- Marital breakdown & its Causes, Legislations for compensations & Future of family



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Provide detailed information regarding Household dimensions of family & Structural and functional changes in family in India
	Provide information about Legislations on family and marriage in India & The problem of dowry and divorce
	Examine Nature and Types of Family in Kerala & Factors influenced to make changes in Family.
	Provide new ideas about Role of Family Courts and Family Counselling Centres.
Course Code : VPSO2C08 Course Title : Urban Sociology	Understand the origin, and development of Urban Sociology
	Identify the nature, scope and fields of Urban Sociology.
	Examine the significance of urban sociology and urban sociology in India.
	Understand the historical aspects of urbanization in India
	Understand the term rural –urban Continuum and urbanism as a way of life.
	Identify the major issues and problems of Urbanisation in India
	Understand the major Theories of Urban development
	Identify the factors affecting Urban planning
	Examine the role of new trends in urban Planning
	Evaluate major urban pathology in our society and to provide knowledge about the current problems of society.
Course Code : VPSO4C11 Course Title : Current Debates in	Understand neofunctionalism and its major premises by Alexander. And to analyse 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 contemporariesystems 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.



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	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 Course Title : 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.



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Provide a detailed explanation on process 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 addiction counselling in the changing society.
	Identify the role of voluntary and Non Voluntary agencies in problem solving in counselling.
	Understand the modern trend of counselling.

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 ,scope and 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 basic concepts
	Understand the meaning and importance of socialization and also learn different stages, types and agencies of socialization
	Understand and identify the different types Norms, Deviant behaviours and social control
	Understand the meaning, nature, types and importance of culture and able to find out the relationship between culture, personality and society.
	Understand the meaning, types and nature of social interaction and able to
	identify and distinguish between associative and Dissociative social process
Course Code : VSO1 B01 Course Title : Methodology and Perspectives of Social Sciences	Identify the main concerns of social science disciplines
	Articulate the basic theories prevalent across disciplines
	Understand qualitative and quantitative models within the social sciences
	Apply the methods and theories of social sciences to contemporary issues
	Critically read popular and periodical literature from a social science perspective
Course Code : VSO2B03 Course Title : Social Informatics	Review the basic concepts and functional knowledge in the field of informatics
	Functional knowledge in a standard office package and popular utilities
	Awareness about social issues and concerns related to informatics
	Skills to enable students to use digital knowledge resources in learning



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 Indian Society.
	Assess the Bonds of Unity in India like Geographical, 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 Indian Society
	Define Caste and examine its features. Discuss the Changes in Indian Caste System
	Discuss Rural and Urban Economy in Indian Society (Pre and Post Independent Period)
	Provide a sociological perspective for understanding the Indian Society. Clear the idea about the features and the different forms of Diversity in Indian Society.
	Assess the Bonds of Unity in India like Geographical, 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 Indian Society
Course Code : V SO4B05 Course Title : Social Research Methods	Understand the fundamentals of social research
	Trace the history and recent developments in social research methods
	Understand the differences between basic, applied and action types of research.
	Design a research proposal
	Differentiate between the important quantitative and qualitative research methods of data collection.



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	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 course approach: (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 group communication: 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



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

Course Code : VPY4CO4 Course Title : Sociology of Mass Communication	Understand the definition, Nature and Relevance 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 and society.
	Examine the difference between Popular Culture, High Culture and Low Culture
	Discuss the role of Films, T.V. and Internet in our society.
	Understand the importance of Media and Globalization in present society.
	Examine the Impact of Media on Developing 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 of thought.
	Understanding on intellectual roots of modern Sociological theories and major contributors in different Schools of thought.
Course Code : VSO5B09 Course Title : Social Anthropology	Get introduced to the basic concepts of Anthropology



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Familiarize with Anthropological studies in India by focusing on Tribal
	Ethnographic descriptions of tribal life
	Experiencing the tribal life through tribal visit
Course Code : VSO6B011 Course Title : Environment and Society	Basic knowledge of environmental sociology
	Awareness of the various environmental issues
	Ecological sensitivity & ambassadoring environmental sustainability
	Exposure to sensitive ecologies
Course Code : VSO6B013 Course Title : Women and Society	Provide basic understanding of the importance 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 affecting business decisions.
	To understand government policies and regulations affecting business operations



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 the findings 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 and uncertainty in decision-making.
	Understand the nature of standard costing and demonstrate the necessary skills to calculate advanced variances.
	Understand and critique both the theoretical issues and influences on practical decisions associated with cost volume analysis.
VPMC1C04- IT Applications in Commerce	Understand the applications used in the business platform especially MIS
	Practical Knowledge in spreadsheet modeling 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 complexities associated 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 the corporate entities.



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Understand the basic accounting standards relating to revenue and leases
	Familiarize with modern concepts in accounting
VPMC2C08- Business Communication	Understand the process of business communication
	Practical skill to manage business communication
VPMC2C09- Management Science	Translate a problem into a simple mathematical model to allow easier understanding and to aid problem solving
	Employ appropriate mathematical tools to solve problems
VPMC2C10- Strategic Management and Corporate Governance	Understand the basic concepts and principles of strategic management to analyze the internal and external environment of business
	Develop and prepare organizational strategies that will be effective for the current business environment
VPMC3C11- Financial Markets & Institutions	Sound knowledge of the broad framework of financial markets and institutions.
	Better understanding of the characteristics of various financial market instruments and the regulatory environment in India.
VPMC3C12- Income Tax Law and Practice	To explain different types of incomes and their taxability and expenses and their deductibility
	To learn various direct and indirect taxes and their implication in practical situations
	To state the use of various deductions to reduce the taxable income
VPMC3C13- Research Methodology	Search for, select and critically analyse research articles and papers
	Gain experience with instrument development and data collection methods



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, financing decisions and dividend decisions
VPMC3EF02- Security Analysis and Portfolio Management	Better understanding to establish a conceptual framework for the study of security analysis and portfolio management
	Ability to understand and utilize the skill of optimizing returns
VPMC4C14- Financial Derivatives and Risk Management	Analyze and price diverse derivatives products to generate an optimal risk management strategy
	Demonstrate critical thinking, analytical and problem-solving skills in the context of derivatives pricing and hedging practice
	Explain the binomial model and its extension in continuous time to the Black-Scholes model
	Demonstrate an understanding of pricing forwards, futures and options contracts
VPMC4C15- Cost Management	To understand the applications of cost accounting tools, techniques and concepts in managerial decision making
	To understand emerging cost concepts and 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 skills to apply financial principles relevant to strategic financial management in organizational context
VPMC4EF04- Tax Planning and Management	To describe how the provisions in the corporate tax laws can be used for tax planning



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)



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	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 the student an awareness of legal principles involved in economic relationships and business transactions.
	Students will be aware about the latest provisions 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 recommendations to improve the operations of organisations through the application of management accounting techniques.
VCO5B08 Business Research Methods	Evaluate and conduct research.
	Demonstrate knowledge and understanding of data analysis and interpretation in relation to the research process.
	Formulate and present effective research 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.



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	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 for financial 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 of finance knowledge.
	Explain time value of money and determine the present and future values of 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 the different loopholes within the law, which will be the main demand by the companies.
VCO6B11 Auditing	Demonstrate the basic knowledge in auditing practices.
	Interrelate the legal, ethical and societal role and responsibilities of the auditor.
VCF6E03 Financial Markets & Services	Identify legal issues that impact affecting financial and other risks business.
	Interpret statutory law for purposes of risk avoidance, and to establish control mechanisms.



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VCF6E04 Fundamentals of Investments	Define the major avenues of investment, various financial securities and features of those securities.
	Calculate and compare various measures of risk and return.
	Calculate bond values and yields and explain various bond investment strategies.
	Calculate equity values using alternative valuation models.
	Explain how financial securities are traded.

COURSES	COURSE OUTCOMES
VCO1CM1 - Complementary Course I - Managerial Economics	Design competition strategies, including pricing, 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 dynamic nature of the environment in which marketing decisions are taken and appreciate the implications for marketing strategy determination and implementation.
	Analyze an organization's activities to develop/implement a marketing strategy.
VCO3CM3 - Complementary Course III - E- Commerce Management	Students will be equipped to perform online transactions.
	Students will be aware about security issues and solutions in respect of online payment.



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Provide basic knowledge in the field of IT 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 act as basis for higher studies
	Students will easily be able to complete their project design and analysis using the 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 these security issues and their solutions
VG4CM03 Entrepreneurship Development	Demonstrate a fundamental comprehension of business opportunity evaluation, from the perspective of a prospective 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 and structure 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 of banking concepts;



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Demonstrate knowledge of the operation and management of insurance entities, and the economic implications of organizational design and structure.
	Develop skills to facilitate insurance product cost and pricing, marketing, and distribution.

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 and partnership units.
	Understand the concept of management, principles and functions of 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 1 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



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Explain the concept of economic planning for development
	Determine the impact of the New Economic Policy on the Indian economy
	Analyze the challenges faced by the Indian economy
SOW1 C 03: Human Growth and Development (Core Paper)	Understand the definition, nature and scope of Psychology
	Understand the structure and functions of nervous and endocrine system
	Understand the process of genetic transmission
	Understand the definition, nature and scope of Social Psychology
	Evaluate the theories and principles of development
	Understand the life span approach
	Understand the prenatal period
	Understand the infancy, early childhood and late childhood period
	Understand the personal, vocational, marital and vocational adjustments of early adulthood
	Understand the personal, vocational, marital and vocational adjustments of middle age
	Understand the personal, vocational, marital and vocational adjustments of old age
	Evaluate the dying process
SOW I C 04: Professional Skills for Social Workers (Core Paper)	Understand the concepts of self
	Study the various techniques of understanding oneself
	Understand the relationship skills required for Social Workers



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	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 inthe 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.



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Develop sensitivity towards the needs and problems of different target groups.
	Develops the skills of Observation, reporting and presentation of observed realities.
SOW2 C07:	Understand the theoretical framework and core values for the practice of social case work
Social Case	
Work (Core	Acquire knowledge to assess and diagnose the problems of individuals
Paper)	Develop skills to plan intervention for individuals with problems
	Develop competence to provide
	intervention for the management of interpersonal problems
	Acquire ability in Liaisoning, networking and mobilizing resources for the rehabilitation of individuals with problems
	To understand the various tools to assess individuals with problems
	Develop competence to provide
	intervention for the management of interpersonal problems
	Acquire ability in Liaisoning, 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:	Develop an understanding of various types of groups, their processes and dynamics, stages of development and models of interventions
Social Group	
Work (Core Paper)	Learn theoretical approaches that inform group work practice



VIMALA COLLEGE (AUTONOMOUS), THRISSUR

	Gain insight into dimensions of group processes and group work practice
	Develop skills to work with different stages and record the process
	Understand of group work as a method of professional social work
SOW2 C 09: Community Organisation and Social 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 of social 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 community organization and social action
	Practice community organization in different contexts
	Understand the values and process of social action as a method of social work
SOW2 C 10: Psychology for Social Work (Core Paper)	Understand the definition, nature and scope of Social Psychology
	Identify the components, characteristics, formation and modifiability of attitude
	Understand the aspects of social perception-Nonverbal communication, Attribution, Impression formation and Impression management
	Understand the aspects of social cognition-Schema, Heuristics, Priming, Automatic and Controlled Processing
	Understand the aspects of social cognition-Schema, Heuristics, Priming, Automatic and Controlled Processing and sources of error in social cognition



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	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.



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	Learn to conduct, practice and record the 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 and characteristics of social work research
	Understand the process of social work research
	Differentiate quantitative research from qualitative research
	Demonstrate the ability to use various quantitative and qualitative research methods
	Understand the meaning of descriptive and inferential statistics
	Determine the application of statistical techniques 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 preparing developmental projects
	Develop scientific temperament in preparation and management of projects at micro and macro levels
	Develop skills in designing and implementing participatory training programmes



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



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Elective II – Rural and Urban Community Development	Analyse the challenges faced by the rural 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 functions of PRIs in community development
	Analyse the role of PRIs in bringing about transformation in rural and tribal communities
	Understand the scope of social work interventions in rural communities
SOW3 E102: Social Work in Mental Health Settings Elective I -Medical and Psychiatric Social Work	Learn psychiatric interviewing and assessment in Psychiatry
	Learn Classification in Psychiatry
	Understand Epidemiology, Clinical Manifestation, treatment and outcome of major psychiatric disorders
	Understand the role of psychiatric social worker in psycho social interventions
	Learn Psycho Social Interventions and Multidisciplinary team approach in the field of mental health
	Understand the significance of psycho social interventions in psychiatric rehabilitation.
	Learn programmes and policies for mental health in India
	Develop the skills to apply social work methods 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



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<p>Governance Elective II – Rural and Urban Community Development</p>	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 and institutions for urban governance
	Understand the scope of social work interventions in rural communities
<p>SOW3 C 16: Concurrent Field Work(Core Paper)</p>	Learn practice of social work in medical 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 reporting skills
<p>SOW4 C 17 : Administration of Human Service Organizations (Core Paper)</p>	Understand the concepts in administration and administration as a method of Social work
	Understand the procedure of registering trust, 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 social welfare board.
	Understand HRM and its process



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	Understand and use the concept of organizational behavior and theories of motivation and leadership.
	Understand the problems in organizations and use grievance redressal 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 and vulnerabilities faced by women and the
	policies and programmes for women's welfare
	Practice women centered social work to address the vulnerabilities experienced by women
	Understand the major vulnerabilities faced by elderly and the policies and programmes for elderly
	Practice social work for enabling active ageing 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 in working with them
	Understand the vulnerabilities and oppressive practices faced by the Scheduled Caste and Scheduled Tribe communities, policies and welfare programmes and the approaches and strategies of social work with them
SOW E 1 03 : Therapeutic Approaches in Medical and Psychiatric settings Elective 1 - Medical and Psychiatric Social	Understand the concept of psychotherapy and different types of therapies
	Understand Cognitive and behaviour therapies and techniques



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work	Understand the Humanistic and existential therapies and techniques of practice
	Understand Family Therapy and techniques of practice used in family therapy
	Understand Other psychosocial therapies like
	Occupational therapy, Play therapy, Crisis intervention, Therapeutic community, 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 in environment studies.
	Understand the policies and approaches in the management of natural resources
	Learn the problems in the management of natural resources and efforts in sustainable natural resource management
	Understand the environment problems and impact of development initiatives.
	Understand the national and international measures to deal with environment issues
	Understand the process of disaster management
	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 framework related to marriage and family
	Understand characteristics of family lifecycle



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and Psychiatric Social work	Identify models of family dynamics and family assessment
	Understand the process of family social work
	Understand the history, concepts and techniques of family therapy
	Practice family therapy in contexts including Family Counselling Centres, Family Courts, Family welfare Clinics,
	Adoption and Foster Care Agencies, and Family Violence
SOW4 E2 04 : Social Work Practice and Gender Elective 2 - Rural and Urban Community Development	Understand concepts and theories related 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, and measures to combat violence
	Analyse gender issues using gender analysis frame works
	Understand the theoretical frame work for 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 in specialized settings.
	Skill in documentation, dissemination and recording of social work intervention
	Develop innovative models for social work interventions



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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.
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Academic Year (2018-2019)



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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 computing systems over time.
	Understand the basics of computer organization and flow of control and information.
	Acquire knowledge about various operating systems and their implementation.
	Identify different categories of networks, examine their merits and recognize challenges.
	Define Cloud Computing and differentiate various cloud services and deployment models.
	Assess cloud storage systems and cloud security, the risks involved..
SDC1WT01 – Introduction to Adobe Photoshop and Illustrator	Edit and overlay multiple image objects to create aesthetic images.
	Perform touch-ups, restoration and color correction on old images.
	Familiarize with basic object manipulation and transformation.
	Create posters, notices, brochures and other graphic designs.
	Construct logos and clipart objects for advertising.
SDC1WT02 – Basics of HTML	Understand the use of various tags and attributes in HTML.
	Cross-reference web pages by way of hyperlinks.



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



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	Enable your web application to collect information from users to Server-side using Html forms with Get and Post methods.
	Divide the webpage into multiple sections using frames.
	Style web pages using CSS box model and CSS properties.
	Effectively incorporate JavaScript in a web page for validation.
	Use fundamental skills to maintain web server services required to host a website.
GEC3VC08 – Theory of Version Control	Understand the principles of software configuration management.
	Understand the best practices and guidelines while working on a software development project.
	Understand the architecture and components of a Version Control System.
	Evaluate the requirements of a project and determine appropriate versioning models.
	Familiarize oneself with various repository operations.
	Manage repositories and content versions using Subversion.
GEC3NS09 – Numerical Skills	Learn set theory and Matrix operation concepts.
	Theory of equations and their applications in business problems
	Concepts of Progressions and their representations, Basic finance mathematics.
	Learn basic statistics, data collection methods and inquiry types.
	Understand and apply measures of central tendency and measures of variation.
	Learn to analyse Time series and index number concepts.



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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.



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	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.



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



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	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 periods
	Appraise selected prose
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.



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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



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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 types of fiction and Drama
	Fiction and Drama of eminent authors of different period
	Appraise selected fiction and Drama readings. Improve a love of fiction and Drama
VHD2A02- Grammar Correspondence And Translation	Make students able to use Hindi language correctly and efficiently
	Make them understand various types of letters both personal and business
	Facilitate the use of translation as a tool for communication between different languages
	Evaluate the possibilities of translation
VHD3A03- POETRY IN HINDI	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.
	Train students in various perspective readings 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



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Stories	Identify the specificities of various types of fiction
	Fiction of eminent authors of different periods
	Appraise selected short fiction readings. Improve a love of fiction