HSNC Board's

Smt. Chandibai Himathmal Mansukhani College, Ulhasnagar – 3

LEARNING OUTCOMES

FACULTY OF ARTS

Link to Syllabus Page on the University of Mumbai Website: https://mu.ac.in/syllabus#1548829931199-d8403820-647e

(Note: This compilation is based on the information provided by the Head of the Departments.)

DEPARTMENT OF ECONOMICS AND BUSINESS ECONOMICS

• Programme Specific Outcomes:

- Learning & reading Economics critically.
- Understanding why economic phenomenon occurs & how economic performance can improve.
- Enhancing the skills through problem solving & critical thinking.
- Reasoning skills develops by understanding the economic phenomenon.
- Employability skills develop.

Course code	Title of the course	Course credit	Course outcome
1.FYBA		03 per sem	1.Helps to understand the economic
UBA 1.35	Micro Economics I		Behaviour of the people in the society
UBA 1.36	Micro Economics II		
SYBA Paper III SEM III- 4.25	Macro Economics I	03	http://mu.ac.in/syllabus#1548829931199-d8403820-647e Enables the students to understand the Macroeconomics 2. Helps the students to understand the working of economy as a whole
SYBA Paper III SEM IV- 4.26	Public Finance	03	1.The paper exposes the students to public budget through the issues of taxation, public expenditure, debt & concepts of deficits.2. Enables the students to understand the Indian Public Finance
SYBA Paper IV SEM V- 4.27	Macro Economics II	03	1. Students become aware of Macro Economic Terminologies 2.Helps the students to understand the Macro Economics at an aggregate level.
SYBA Paper IV SEM VI- 4.28	Indian Economy	03	1.The learners are able to understand the problems & prospects of Indian Economy.2.The content orients the learners about recent development in the economy

Course code	Title of the course	Course credit	Course outcome
TYBA	SEM V		
Economics 1.ECOMIE501	Microeconomics III	4	1.To provide an understanding in Micro economic theory2.To understand the concepts related to economic growth
	Economics of	4	
2.ECODEV502	Development		3. To equip the students with the knowledge about the fundamentals of

			Industrial economics & also the
3.ECOILE503	Industrial & Labour	3	changing policies related to the Indian
	Economics	-	Industry in the globalized era.
			4.To introduce the concepts, principles
			& methods of economic research based
4.ECORMB504	Research Methodology	4	on qualitative & quantitative data
			5. To understand the economic causes of
			environmental problems &
5.ECOENV505	Environmental	4	environmental improvements.
	Economics		6. It provides the basic understanding
			about the celebrated economists & their
6.ECOHET506	History of Economic		contribution starting from classical
	Thought	3	period & recent period too.
	SEM VI		1. Helps to understand the formal
1.ECOMA601	Macro Economics III	4	modeling of macro-economic theory
			with analytical tools.
2. ECOINT602	International	4	2.Helps to develop a systematic
	Economics		exposition of models of international
3. ECOILE603		3	trade
	Industrial & Labour		3. Helps to understand the issues in
	Economics		labour markets. Wage policy, trade
4.ECORMC604		4	unions & amicably solutions to
	Research Methodology		industrial disputes.
5.ECODTE605		4	
	Development theory &		4. Strengthen the critical thinking and
	Experience		listening skills in conducting economic
6.ECOITPP606		3	research and to device research
	International Trade,		outcomes.
	policy & Practice		5. The course helps to understand the
			economic development sequence.
			6. The course helps to understand the
			changing phase of International Trade
			Policy & Practice.

Business Economics

Course code	Title of the course	Course credit	Course outcome
UBCOMFSI	Business Economics I	03	To equip the students to understand the
			working of a business unit in the
UBCOMFSI	Business Economics II	03	economy
UBCOMSSI	Business Economics II	03	
			Helps the students to understand Macro
UBCOMSSI	Business Economics	03	Economic Theories
	III		
UBCOM	Economics		Helps the students to understand
	Systems(App. Comp)	03 Per sem	Economic Systems
UBCOMTSI	Business Economics	03	
	IV		Helps the students to understand policy
UBCOMTSI	Business Economics	03	changes in India
	V		
	Labour Welfare &	03 Per sem	Understands the labour policies & Acts
	Practices		

DEPARTMENT OF ENGLISH

• Program Specific Outcomes:

After completing the programme student will be able to

- PSO1: Students will be able to apply critical and theoretical approaches to the reading and analysis of literary and cultural texts in multiple genres by understanding the evolution of criticism and its application in language and literature
- PSO2: Students will be able to comprehend variety of prose and poetry in English Literature to enrich their understanding through various textual perspectives
- PSO3: A greater understanding of the human communicative action through an objective study of language will help the students to apply their knowledge of English language to improve active listening, speaking, reading and writing skills.

Course	Title of the	Objective	Outcome
Code	Course		
FYBA UAENG- 101	English (Optional) Introduction to Literature	 To acquaint students with the characteristics of various literary genres To develop analytical skills and critical thinking through close reading of literary texts To cultivate appreciation of language as an artistic medium and to help them understand the importance of forms, elements and style that shape literary works To enable students to understand that literature is an expression of human values within a historical and social 	 To write clearly, coherently and effectively about various genres of literature To recognize the culture and context of the work of literature To develop sensitivity to nature and fellow human beings
FYBA UACS101	Communicat ion Skills in English	context 1) To enhance language proficiency by providing adequate exposure to reading and writing skills 2) To orient the learners towards the functional aspects of language 3) To increase the range of lexical resource through a variety of exercises	 Students will be able to Understand the process of communication and its effect on giving and receiving information They will learn to apply effective communication skills in a variety of public and interpersonal settings They will be able analyse the technical data such as pie charts, maps, graphs Learners will become well versed with changing communication methods and digitalization of communication system Become aware of the numerous

		career opportunities within the
		field of communication.
SYBA UAENG- 301	Indian Literature in English	 To introduce learners to the uniqueness of Indian Literature in English To acquaint learners to the pluralistic dimensions of Indian Literature in English To help them understand the different genres of Indian Literature in English To familiarize learners with different perspectives of approaching this literature To make learners aware of prominent Indian Writers in English Broadens the origin of English education during British Empire in India. They will be acquainted with the Dalit/ marginal/ partition and Diasporic Literatures in India They will understand the glory of Indian writings in English It will Inculcate the interest of Indian writing in translations They will be well versed with the prominent Indian writers They will be well versed with the prominent Indian writers They will be well versed with the prominent Indian writers
SYBA UAENG- 302	American Literature	English 1. To acquaint the learners of literature with the various genres and literary terms of twentieth century American Literature 2. To sensitize them to the themes and styles of American Literature 3. To introduce them to the socio-cultural milieu of twentieth century America through literary texts 4. To enhance their understanding of American, African American and Multicultural sensibilities by introducing them to the literary works representing them 5. To facilitate cross-cultural perspectives and discussions on American Literature 1) Students will be well versed with the various genres of American Literature 2) Learners will be able to understand the significance of American Dream and American life style 3) They will know the brief history of American Literature- Poetry, Drama and Fiction/short story 4) Students will understand culture, language and society through literature 5) Kindles to compare American writings with Indian writings in English 6) Inculcates interests among youth to study abroad, the need of the hour
SYBA UABC:30 1	Business Communicat ion	1) To develop an awareness about the complexity of communication in a dynamic business environment. 2) To develop effective oral, writing and listening skills among learners. 3) To demonstrate the effective use of communication technology. 1) After of successful completion of the course, the learner should have enhanced Listening, 2) Speaking, Reading and Writing skills and should be prepared 3) To meet the challenges of Communication in the business world
SYBA UAMASS COM -	Mass Communicat ion	1) To introduce the students to some major aspects of communication 1) By the end of the course the students should be able to receive and analyse various

301		and mass communication.	media products critically and
201		2) To develop among the	become interested in jobs or
		students a broad	career in Media Industry.
		perspective of the past	
		and the present status	
		of Mass Media in India.	
		3) To develop among the	
		students a critical	
		understanding of the Mass	
		Media with regard to their	
		presentation formats, roles	
		and audiences in Indian	
		context.	
		4) To develop among the	
		students a critical	
		understanding of some	
		special roles of different	
		Mass Media in India.	
		5) To help the students to	
		assess the contribution of	
		Indian mass media to	
		national development.	
		6) To acquaint the students with some issues and laws	
		related to mass media in	
		India.	
		7) To introduce the students to	
		various job and career	
		opportunities in media	
		industry.	
FYBCOM	Business	1) To develop an awareness	1) After successful completion
UABC:	Communicat	about the complexity of	of the course, the learner
301	ion	communication in a dynamic	should have enhanced
		business environment.	Listening,
		2) To develop effective oral,	2) To develop Speaking,
		writing and listening skills	Reading and Writing skills
		among learners.	3) To meet the challenges of
		3) To demonstrate the effective	Communication in the
		use of communication	business world
TYBA	16 th to	technology 1. To introduce students to	1) To understand the distinctive
UAENG:	18 th Century	1. To introduce students to English Literature of the 16 th ,	1) To understand the distinctive features of English literature of
501	English	17 th and 18 th centuries.	the 16th, 17thand 18thcenturies
301	Literature	2. To show them how	2) To comprehend how background
	Literature	background influences	influences shaped the writer's
		shaped the writer's thinking.	thinking.
		3. To present them to the	3) To recognize and appreciate the
		literary masters who	literary masters who dominated
		dominated the scene	the scene.
		4. To familiarize students with	4) To grasp the different writing
		different writing styles that	styles that each age adopted.
		each age adopted.	
TYBA	Literary	1) To introduce the learners to	1) use some important critical terms

	Criticism		important critical terms	2)	become aware the nature and
UAENG:		2)	To make them aware of the		function of literature and
502			nature and function of	2)	criticism
		2)	literature and criticism	3)	impart the technique of close
		3)	To impart the technique of	4)	reading of literary texts understand the various literary
			close reading of literary texts	4)	theories and critical approaches
		4)	To enable them to	5)	be familiar with the tenets of
		1)	understand various literary		practical criticism
			theories and critical		praetical criticism
			approaches		
		5)	To familiarize the learners		
			with the tenets of practical		
			criticism		
TYBA	Grammar	1)	To develop amongst learners	1)	9
UAENG:	and the Art		an insight into the process of		phonetics, morphology and word
503A	of Writing		word formation and transformation	2)	transformation Have improved speaking skills
		2)	To develop amongst them an	2) 3)	1 1
		2)	insight into the sounds,	3)	knowledge of the rules of
			stress patterns and		grammar, grammatical analysis
			intonations in the English		and sentence transformation.
			language to improve their	4)	Write effectively in various
			speaking skills		domains.
		3)	To develop among them		
			insight into the structure of		
			the English language and to		
			provide knowledge of the		
		4)	rules of grammar		
		4)	To help them learn grammatical analysis and		
			description and the skills of		
			sentence transformation		
		5)			
			of writing for effective		
			writing for various domains		
TYBA	19thCentury	1)	To introduce to students the	1)	To view literary works in their
UAENG:	English		major trends and ideas in the		dynamic interface with the
504	Literature		literature and culture of the	2)	background
			Romantic and Victorian Eras	2)	
		2)	To help students		the 19 th century as a complex outcome of artistic, intellectual
			understand the texts in the		and socio-political cross-currents
			context of prevailing	3)	-
			socio-cultural conditions &		mirroring private personality,
			their historical, political		protest and subsequently,
			location		public concerns
		3)	To impress upon students	4)	-
			the characteristically		the Victorian Novel as
			rebellious/ radical nature		informed by Victorian
			of British Romanticism and		morality as well as by larger
			the stupendous range of changes in the socio-	5)	democratic processes To contextualize the impulses
			changes in the socio-	3)	10 contextualize the impulses

		political conditions of Early (1837-1851), Middle (1851-1870) and Late (1870-1901) Victorian Era 4) To familiarize and highlight major representative texts, genres, thematic concerns and select key concepts/terms pertaining to the respective periods 5) To help students apply a variety of critical, historical, and theoretical approaches to prescribed literary texts 6) To sensitize students to diverse sensibilities and humanitarian concerns through literature of the nineteenth century
TYBA UAENG: 505	20th Century British Literature	1) To expose students to literary genres, trends, and literary movements of Britain in the 20thCentury. 2) To enable students to create linkages between social and historical contexts and literary texts 3) To train students to develop skills for a critical and analytical understanding of the text. 2) Students will be equipped with comprehensive understanding of literary genres, trends and movements in 20thCentury British Literature; thereby ,enabling them to understand the valuable correlation between the sociocultural ,economical and historical contexts; behind the literary production. 2) Students will acquire the discipline to become reflective and imaginative thinkers through a close, critical and analytical reading of the prescribed texts.
TYBA UAENG: 506B	Drama and Theatre	1) To acquaint the learners of literature with various types of drama. 2) To sensitize them to the techniques and types of theatre. 3) To identify and discuss the theoretical and practical elements of drama. 4) To introduce them to drama as a performing art. 5) To enhance their understanding of the elements of theatre. 6) To enable the learners to critically watch a play, write

		a review and to put up a play.
MA-I	Literary	1) To introduce the learners to a 1) Introduces to the basics of
	Theory and	wide range of critical Literary Criticism
PAENG:	Criticism	methods and literary theories 2) Widens the knowledge of literary
101		2) To enable them to use the theories and focuses on their
		various critical approaches importance
		and advanced literary 3) Helps to write a critical
		theories appreciation
		3) To enhance their analytical 4) Provides an insight of practical
		skills criticism
		4) To enable them to mobilize 5) Ingrains the mind towards
		various theoretical creative writing, appreciation,
		parameters in the analysis of critical thinking and critical
		literary and cultural texts analysis
		5) To familiarize the learners 6) Accentuates expression of
		with the trends and cross- thoughts and views for critical
		disciplinary nature of literary appreciation and judgmental
		theories reviews
		6) To introduce them to the 7) Enhances fluency of languages,
		conventions of research presentation skills and creative
		papers writing
MA-I	Linguistic	1) To understand the concept of 1) To expose to a range of
PAENG:	and Stylistic	style in literature. contexts where the language is
102	Analysis of	2) To understand the linguistic used to meet a variety of real
102	Texts	basis of literary criticism life communication needs.
	TOALS	(stylistics as an input to 2) To equip with the practical,
		literary criticism).
		3) To understand the concept of creative aspects of language
		discourse and the principles by integrating knowledge and
		of discourse analysis. skills.
		4) To understand the use of 3) To focus on readability, teach-
		stylistic approach in teaching ability and testability -to think
		literature. beyond the text.
		5) To understand the impact of 4) To enhance practice in objective
		stylistic analysis on academic and subjective writing.
		writing 5) To make them aware of British
		6) To understand some major and American Vocabulary
		concepts in narratology
MA-I	Fiction	1) To familiarize learners with 1) Conceptualize the Genre of Novel
PAENG:	11011011	different genres in fiction. Conceptualize the Genre of Novel and its types viz. Allegorical,
103		2) To familiarize them with Gothic, Historical, Epistolary,
		different types of fictional Picaresque, and Psychological.
		narratives. 2) Gain knowledge in the
		3) To provide the learners with development of English Fiction
		an idea of the growth of from the 17th Century to the 21st
		fiction over the period of the century from man's physical
		last three centuries. adventures to social and
		4) To make the learners aware psychological journeys.
		of the social, cultural and 3) Learn the elements of fiction
		psychological implications of Narrative Technique, Setting,
		fiction Point of view, Style and
		Detective fiction.
		4) Become well acquainted with
	l	The become wen acquainted with

				the literary genre of Novel and Short Story and literary devices of allegory and metaphor, satire, and stream of consciousness technique
			5)	Enhance Reading skills and understand how to represent their experience and ideas critically, creatively, and persuasively through the medium
			6)	of language. It will help to Understand the social, historical and political backgrounds of the world of the novelists and short story writers through the elaborate and allegorical descriptions in the
			7)	prescribed novels. Get a wide exposure of eminent writers like George Orwell, Jane Austen and Daniel Defoe, Thomas Hardy, Jonathan Swift, and Mary Shelly.
			8)	Their unique styles of writing and imagination help to enhance their creative writing skills
MA-I PAENG: 303	Drama	 To introduce the learners to a wide range of theatrical practices around the world. To introduce the learners to various theories of drama To enable them to understand the elements of drama and theatre To introduce them to the conventions of research papers 	1) 2) 3) 4) 5)	Interpret literary texts in English by nurturing and utilizing their ability to understand drama in a skilled, knowledgeable, and ethical manner. Conceptualize various types of drama viz. Tragedy, Comedy, Farce, Melodrama, Historical Plays through the prescribed texts and analyze the effect they create in the audience or readers. Gain knowledge in the development of English drama from 16th Century to 21st century viz. Shakespearean drama, Sentimental Comedy, Romantic Comedy, Shavian plays and One-act plays

			social aspects
MA-II PAENG: 301	Poetry from Chaucer to the Present	 To familiarize the students with the major representative poets of every age and movements therein. To help them study different genres of poetry in the context of socio- cultural background of the age 	 Will be acquainted poetry from a variety of historic periods understand and appreciate poetry as a literary art form They will be able to analyse various elements of poetry, such as diction, tone, form, genre, imagery, figures of speech, symbolism, theme, etc. They will recognize the rhythms, metrics and other musical aspects of poetry To broaden their vocabularies and to develop an appreciation of language To kindle their critical thinking skills To inculcate a deeper appreciation of cultural diversity by introducing them to poetry from a variety of cultures throughout the world To enhance their own creativity
MA-II PAENG: 302	Gendered Perspectives on Literature	1) To open up avenues in gender studies, including women's studies, by acquainting learners with their complexities and diversity, especially in the constructs of gender and sexuality 2) To encourage learners to interrogate rigid frameworks of gender construction while sensitizing them to the process of socialization and naturalization of gender 3) To enable learners to critically evaluate literary texts from a multivalent gender perspective 4) To explore the thematic and aesthetic concerns in identifying subversive strategies employed by literary writers	<u> </u>

MA-II PAENG: 303	Twentieth Century	1) To acquaint the learners of	feminist theories and methodologies.
PAENG:		1) To acquaint the learners of	methodologies.
PAENG:		1) To acquaint the learners of	
	American Literature	literature with the various genres and literary terms of twentieth century American Literature 2) To sensitize them to the themes and styles of modern and postmodern American Literary works 3) To introduce them to the socio-cultural milieu of twentieth century America through literary texts 4) To enhance their understanding of multicultural sensibilities by introducing them to the literary works representing them 5) To facilitate cross-cultural perspectives and discussions on American Literature of multiple ethnicities 6) To enable them to write projects and research papers	 Instils the background of civil war and Transcendentalism. Emphasizes on the meaning and the significance of American Dream, then and now Aids to comprehend the effects of racism Extends an opportunity to study a brief history American Literature –Poetry, Drama and Fiction Paves way to know the life, culture language and society through literature Kindles to compare American writings with Indian writings with English Inculcates interests among youth to study abroad, the need of the hour
MA-II PAENG: 304	Shakespeare	on American literature 1) To familiarize the learner with timeless dimensions of Shakespeare's works. 2) To help the learner understand the contemporary relevance of Shakespeare with reference to modern versions and films based on his plays. 3) To sensitize the learner to development of the genres of comedy, tragedy and history plays in the Elizabethan era. 4) To acquaint the learner with changing responses to Shakespeare's plays	 Will be acquainted with the intellectual and socio-economic climate of Shakespeare's age They will gain an insight into the contemporary relevance of Shakespeare's work Students will be able to analyze Shakespeare's works critically They will be able to identify the manner in which Shakespeare differed from his fellow dramatists and poets
MA-II PAENG: 305	Indian Writing in Translation	1) To offer an exhaustive study of Indian literatures in the various Indian languages through English translation. 2) To acquaint the students with major movements,	 Comparative & Translations study broadens the horizon of knowledge Deepens knowledge in English literature for higher studies Kindles creative mind with innovative thoughts

MAJI	Rasaarah	beside major authors and literary texts in multiple languages in India through English translation. 3) To equip the students with enough knowledge about literary translations in English from Indian languages and help them understand and overcome the problems and issues of literary translation. 4) To familiarize the students with the history of translation in India from the Post-Independence 5) To contemporary times and enable them to writer research papers in the same with new views and perspectives.
MA-II PAENG: 306	Research Methodolog y	 To introduce the learners to the concept of 'research' To acquaint them with the stages of research To familiarize them to the procedures involved in research To introduce them to the conventions of writing research paper To acquaint them with the techniques and conventions of documentation in research To acquaint them with the techniques and conventions of documentation in research Will help to understand the basic framework of research process and develop understanding on various kinds of research, objectives of doing research, research process, research designs and sampling. It will help students to develop an understanding of various research designs and techniques Learners can be well versed with various sources of information for literature review and data collection. Will help to understand the ethical dimensions of conducting applied research. They will learn to appreciate the components of scholarly writings and evaluate its quality.
MA-II PAENG: 307	Cultural Studies	1) To familiarize the learner with terms, analytical techniques, and interpretive strategies commonly employed in cultural studies 2) To introduce the learner to a wide range of texts from many different critical perspectives 3) To familiarize the learners with basic concepts of 1) Develop an understanding and appreciation of the varying perspectives that one can bring to bear on cultural texts 2) It will help learners to discuss and analyze cultural texts using a wide range of theoretical approaches, in particular those that consider how class, gender, sexuality, nationality and race are represented in popular texts.

		cultural studies: for instance, power, agency, identity ideology, and representation 4) To enable an understanding of key approaches to the study of culture for better understanding of social and cultural changes 5) To guide the learners to the ways in which understandings and ideas about culture emerge from historical as well as theoretical perspectives 6) To orient the learner with an understanding of how are race, gender, and class produced and consumed in the mass market 7) To equip the learner with an understanding of interdisciplinary approaches in exploring how cultural products are produced, shaped, distributed, consumed and responded to 3) Learners will recognize cultural studies is an interdisciplinary enterprise that draws on a wide range of disciplines (e.g., English, philosophy, history, women's studies) 4) Learners will recognize cultural studies is an interdisciplinary enterprise that draws on a wide range of disciplines (e.g., English, philosophy, history, women's studies is an interdisciplinary enterprise that draws on a wide range of disciplines (e.g., English, philosophy, history, women's studies) 4) Learners will be able to view an individuality, family, education, race, gender, sexuality, class, nationality, age, and religion with cultural context. 5) Students will be able to analyze verbally and in writing Shakespeare as a product of his society. 6) They will be able to compare experiences with themes and issues brought up in Shakespeare's plays, poems, and sonnets. 7) Students will be able to assess reaction to the themes and issues bought up in Shakespeare's plays, poems, and sonnets.
MA-II	Project Based Courses	in diverse ways Iliterary characters in Shakespeare's work. 1) The objective of the Project Based Courses is to evaluate the critical competence, logical reasoning and scholarly composition of the students at the end of the Course students are expected to have sound theoretical knowledge so that they can apply it to a particular area of study selected from the Project Based Course. They should develop the skills of identifying an area of investigation, reviewing literature, analyzing concepts, comparing alternative theories and perspectives, understanding the difference between primary and secondary sources in the area of their

articulating their arguments

DEPARTMENT OF GEOGRAPHY

• Programme Specific Outcomes:

After completing the programme student will be able to

- PSO1: Demonstrate the understanding of various branches of Geography such as Physical Geography, Human Geography and Practical Geography.
- PSO2: Analyse and evaluate logical reasonings and draw conclusions from qualitative & quantitative data.
- PSO3: Acquire the skills of reading maps and making maps of different kinds for different types of datasets and analyse the results effectively.
- PSO4: Make the connections based on scientific learning & experience and bring these to bear in context of social, economic and environmental changes happening in the society.
- PSO5: Contribute to the society through understanding the aspects of Geography such as environmental geography, settlement geography, tourism geography etc.
- PSO6: Carry out Geographical research through formulation of hypothesis, analysis and deriving conclusions.
- PSO7: Avoid unethical practices like plagiarism.
- PSO8: Work in team to generate and disseminate the Geographical knowledge.

Course	Title of the course	Course	Course outcome
code		credit	
FYBA	Human Geography	04	1. Know about meaning, sub-branches, approaches of
(Semester –	(Introduced in		human geography and study various views of man-
I)	2021-2022)		environment relationship.
UAGEO10	https://mu.ac.in/wp-		2. Understand the distribution, density, patterns of
1	content/uploads/202		population along with DTM and causes and effects of
	<u>0/12/4.62-Revised-</u>		population change.
	<u>Syllabus-</u>		3. Understand the characteristics, types, patterns,
	F.Y.B.A.F.Y.B.Sc		classification, site & situation of rural and urban
	in-Geography.pdf		settlements
			4. Understanding fundamentals of maps and map-scale,
			and develop skills of constructing choropleth map and
			population pyramids
FYBA	Environmental	04	1. Know about meaning, nature, scope, importance of
(Semester –	Geography		environmental geography, and study various views of
II)	(Introduced in		man's interaction with environment
UAGEO20	2021-2022)		2. Study meaning, unction, classification of ecosystem,
1	https://mu.ac.in/wp-		and understand the working of biogeochemical cycles
	content/uploads/202		3. Learn concept, causes and effects of various types of
	<u>0/12/4.62-Revised-</u>		pollution, world environmental issues, and also to
	<u>Syllabus-</u>		understand major environmental movements
	F.Y.B.A.F.Y.B.Sc		4. Understand concept, types of natural resources along
	in-Geography.pdf		with the causes for their depletion, and to study issues
			related to biodiversity
			5. Imbibe map-filling skills and learn the skills of
			thematic maps interpretation
SYBA – II	An Introduction to	03	1. Understand the structure and composition of
(Semester –	Climatology		atmosphere.

TTT	/T . 1 11		0 TT 1 . 1 . 1 . 1
III)	(Introduced in		2. Understand pressure belts and planetary winds,
UAGEO30	2017-2018)		regional winds and local winds.
1	http://mu.ac.in/porta		3. Learn about humidity, condensation and precipitation,
	<u>l/wp-</u>		cyclones and anticyclones.
	content/uploads/201		4. Understand the causes and effects of Global warming,
	6/06/4.243-		El Nino and La Nina.
	<u>S.Y.B.A</u>		5. Learn to read weather maps and draw climatic
	Geography-Paper-		diagrams.
	II-Climatology.pdf	0.2	
SYBA – III	Physical Geography	03	1. Understand the physiographic divisions of India.
(Semester –	of India		2. Know about the climate and water resources of India
III)	(Introduced in		3. Learn about richness of forest, soil, energy and mineral
UAGEO30	2017-2018)		resources of India.
2	http://mu.ac.in/porta		4. Acquire skills of map filling of physical features of
	<u>l/wp-</u>		India.
	content/uploads/201		5. Learn to draw map scale.
	6/06/4.235-		
	S.Y.B.AB.Sc		
	Geography-Paper-		
	III-Physical-		
	geography-of-		
CNDA	<u>India.pdf</u>	02	1 17 1 6 1 6
SYBA – II	Introduction to	03	1. Know the features of major oceans.
(Semester –	Oceanography		2. Understand ocean floor relief and physical and
IV)	(Introduced in		chemical properties of sea water.
UAGEO40	2017-2018)		3. Know about the ocean water movements i.e., waves,
2	http://mu.ac.in/porta		currents and tides.
	<u>l/wp-</u>		4. Understand the problems of oceans w.r.t. coral reefs,
	content/uploads/201 6/06/4.244-		pollution and climate change. 5. Acquire skills of world map filling w.r.t. ocean
	S.Y.B.A		features and reading bathymetric maps and hydrographic
	Geography-Paper-		charts.
	II-		Charts.
	Oceanography.pdf		
SYBA – III	Agriculture	03	1. Understand the factors affecting Indian agriculture.
(Semester –	Geography of India	03	2. Know the agro-climatic regions, types of farming and
IV)	(Introduced in		major crops in India, and problems associated with
UAGEO40	2017-2018)		Indian agriculture.
1	http://mu.ac.in/porta		3. Understand the significance of Green Revolution in
1	l/wp-		India.
	content/uploads/201		4. Know the recent trends in agriculture.
	6/06/4.245-		5. Learn to read agriculture related thematic maps and
	S.Y.B.A		draw graphs.
	Geography-Paper-		0r
	III-Agriculture-		
	Geography-of-		
	India.pdf		
TYBA – IV	Geography of	04	1. Understand types of settlements and factors affecting
(Semester –	Settlements	-	their growth and distribution.
V)	(Introduced in		2. Learn types of rural settlements.
97022 /	2018-2019)		3. Know about rural settlements in India.
UAGEO50	http://mu.ac.in/porta		4. Know the origin, growth, types and hierarchy of urban
1	<u>l/wp-</u>		settlements.
			

	content/uploads/201		4. Understand urbanisation in India and need of smart
	6/06/4.28-T.Y		cities.
	B.A-B.Sc Geography-2-5-18-		
	2.pdf		
TYBA – V-	Geography of	04	1. Understand the geographical setting of Maharashtra.
A	Maharashtra		2. Know about the resource base of Maharashtra.
(Semester –	(Introduced in		3. Understand population dynamics in Maharashtra.
V)	2018-2019)		4. Learn about various economic activities in
97054 /	http://mu.ac.in/porta		Maharashtra
UAGEO50	<u>l/wp-</u>		
2-A	content/uploads/201 6/06/4.28-T.Y		
	B.A-B.Sc		
	Geography-2-5-18-		
	2.pdf		
TYBA – V-	Population	04	1. Know about various sources of population data.
В	Geography		2. Understand the distribution, growth and structure of
(Semester –	(Introduced in		population.
V)	2018-2019)		3. Critically study various theories related to population.
97055 / UAGEO50	http://mu.ac.in/porta l/wp-		4. Understand types, causes and consequences of migration; and migration in India.
2-B	content/uploads/201		5. Understand problems related to population such as
2 0	6/06/4.28-T.Y		ageing, gender issues, poverty, unemployment and rapid
	B.A-B.Sc		urbanization.
	Geography-2-5-18-		
	<u>2.pdf</u>		
TYBA – VI	Tools and	03	1. Understand the science of map making, map basics
(Semester –	Techniques in		and map projections.
V) UAGEO50	Geography for Spatial Analysis – I		2. Develop skill in topographical map reading w.r.t. SOI toposheets of India.
3	(Practicals)		3. Learn to draw thematic maps.
3	(Introduced in		4. Learn to use statistical softwares to represent
	2018-2019)		geographical data.
	http://mu.ac.in/porta	i l	υ ο τε το σουσου Ι
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	l/wp- content/uploads/201 6/06/4.28-T.Y B.A-B.Sc		
	l/wp- content/uploads/201 6/06/4.28-T.Y B.A-B.Sc Geography-2-5-18-		
TYBA –	l/wp- content/uploads/201 6/06/4.28-T.Y B.A-B.Sc Geography-2-5-18- 2.pdf	04	
TYBA – VII	l/wp- content/uploads/201 6/06/4.28-T.Y B.A-B.Sc Geography-2-5-18-	04	Understand the concept of regional planning and its relation with geography.
VII (Semester –	l/wp- content/uploads/201 6/06/4.28-T.Y B.A-B.Sc Geography-2-5-18- 2.pdf Regional Planning and Development (Introduced in	04	 Understand the concept of regional planning and its relation with geography. Understand the concept of region in planning.
VII (Semester – V)	l/wp- content/uploads/201 6/06/4.28-T.Y B.A-B.Sc Geography-2-5-18- 2.pdf Regional Planning and Development (Introduced in 2018-2019)	04	 Understand the concept of regional planning and its relation with geography. Understand the concept of region in planning. Understand regional development and disparities.
VII (Semester – V) 97125 /	l/wp- content/uploads/201 6/06/4.28-T.Y B.A-B.Sc Geography-2-5-18- 2.pdf Regional Planning and Development (Introduced in 2018-2019) http://mu.ac.in/porta	04	 Understand the concept of regional planning and its relation with geography. Understand the concept of region in planning. Understand regional development and disparities. Know about five year plans, multi-level planning,
VII (Semester – V) 97125 / UAGEO50	l/wp- content/uploads/201 6/06/4.28-T.Y B.A-B.Sc Geography-2-5-18- 2.pdf Regional Planning and Development (Introduced in 2018-2019) http://mu.ac.in/porta l/wp-	04	 Understand the concept of regional planning and its relation with geography. Understand the concept of region in planning. Understand regional development and disparities. Know about five year plans, multi-level planning, planning regions and planning mechanism of India. Study
VII (Semester – V) 97125 /	l/wp- content/uploads/201 6/06/4.28-T.Y B.A-B.Sc Geography-2-5-18- 2.pdf Regional Planning and Development (Introduced in 2018-2019) http://mu.ac.in/porta l/wp- content/uploads/201	04	 Understand the concept of regional planning and its relation with geography. Understand the concept of region in planning. Understand regional development and disparities. Know about five year plans, multi-level planning,
VII (Semester – V) 97125 / UAGEO50	l/wp- content/uploads/201 6/06/4.28-T.Y B.A-B.Sc Geography-2-5-18- 2.pdf Regional Planning and Development (Introduced in 2018-2019) http://mu.ac.in/porta l/wp- content/uploads/201 6/06/4.28-T.Y	04	 Understand the concept of regional planning and its relation with geography. Understand the concept of region in planning. Understand regional development and disparities. Know about five year plans, multi-level planning, planning regions and planning mechanism of India. Study
VII (Semester – V) 97125 / UAGEO50	l/wp- content/uploads/201 6/06/4.28-T.Y B.A-B.Sc Geography-2-5-18- 2.pdf Regional Planning and Development (Introduced in 2018-2019) http://mu.ac.in/porta l/wp- content/uploads/201 6/06/4.28-T.Y B.A-B.Sc	04	 Understand the concept of regional planning and its relation with geography. Understand the concept of region in planning. Understand regional development and disparities. Know about five year plans, multi-level planning, planning regions and planning mechanism of India. Study
VII (Semester – V) 97125 / UAGEO50	l/wp- content/uploads/201 6/06/4.28-T.Y B.A-B.Sc Geography-2-5-18- 2.pdf Regional Planning and Development (Introduced in 2018-2019) http://mu.ac.in/porta l/wp- content/uploads/201 6/06/4.28-T.Y	04	 Understand the concept of regional planning and its relation with geography. Understand the concept of region in planning. Understand regional development and disparities. Know about five year plans, multi-level planning, planning regions and planning mechanism of India. Study

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VIII-A	Resources		renewable and non-renewable resources.
(Semester –	(Introduced in		2. Understand over exploitation and conservation of
V)	2018-2019)		resources.
97155 /	http://mu.ac.in/porta		3. Understand the problems and conservation of water,
UAGEO50	<u>l/wp-</u>		forest, soil, mineral and energy resources.
5-A	content/uploads/201		4. Know about human resources and the distribution of
	6/06/4.28-T.Y		population and population-resource regions.
	B.A-B.Sc		
	Geography-2-5-18-		
	2.pdf		
TYBA –	Geography of	04	1. Understand Significance of geography of health.
VIII-B	Health	0.	2. Know causes, effects and remedial measures of
(Semester –	(Introduced in		air, water, plastic and radioactive pollution.
V)	2018-2019)		3. Understand geography of diseases.
97156 /			= = = :
	http://mu.ac.in/porta		4. Understand linkage of health with environment.
UAGEO50	<u>l/wp-</u>		5. Know health care facilities in India.
5-B	content/uploads/201		
	6/06/4.28-T.Y		
	<u>B.A-B.Sc</u>		
	Geography-2-5-18-		
	<u>2.pdf</u>		
TYBA –	Geography of	04	1. Understand concepts of Disaster, Hazard,
VIII-C	Disaster Mitigation		Vulnerability and Risks; types of hazards and disasters
(Semester –	and Management		and their impacts.
V)	(Introduced in		2. Know elements of disaster management.
97157 /	2018-2019)		3. Understand methods and approaches of disaster
UAGEO50	http://mu.ac.in/porta		management.
5-C	l/wp-		4. Understand causes, effects and managements of
	content/uploads/201		natural disasters in India.
	6/06/4.28-T.Y		5. Understand causes, effects and managements of
	B.A-B.Sc		anthropogenic disasters in India.
	Geography-2-5-18-		1 0
	2.pdf		
TYBA – IX	Geospatial	03	1. Mapping of Thematic Layers and Visual Image
(Semester –	Technology	0.5	Interpretation of Physical and Manmade Features from
V)	(Practicals)		Satellite Imageries.
97189/	(Introduced in		2. Digital Image Analysis – classification of landforms
UAGEO50	2018-2019)		and 3D viewing using DEM (Digital Elevation Model).
6	http://mu.ac.in/porta		3. Visual Image Interpretation of Physical and Manmade
	l/wp-		Features from Aerial Photographs.
	content/uploads/201		4. Ground Survey and Demarcation of Point, Line and
	6/06/4.28-T.Y		Polygon Features with GPS Device and Transfer GPS
	<u>B.A-B.Sc</u>		Data to Computer with Softwares like Easy GPS.
	Geography-2-5-18-		5. Importing Image into GIS Software and Geo-
	<u>2.pdf</u>		referencing and creating Layers by Digitization of Point,
			Line and Polygon Features
			6. Using Map-Composer for map layout and design and
			preparation of thematic maps.
TYBA – IV	Environmental	04	1. Know the components of environment and understand
(Semester –	Geography		man-environment relationship.
VI)	(Introduced in		2. Understand the types, structure and functioning of
86509 /	2018-2019)		ecosystem.

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UAGEO60	http://mu.ac.in/porta		3. Know about biodiversity hotspots, threats to
	$\frac{1/wp}{1}$		biodiversity and conservation of biodiversity.
	content/uploads/201		4. Study environmental challenges and movements in India.
	6/06/4.28-T.Y B.A-B.Sc		5. Learn about sustainable development, environmental
	Geography-2-5-18-		management and environmental impact assessment.
	2.pdf		management and environmental impact assessment.
TYBA – V-	Geography of	04	1. Study factors affecting tourism development.
A	Tourism and	0-	2. Know about types and impacts of tourism.
(Semester –	Recreation		3. Know types of accommodation and transport in
VI)	(Introduced in		tourism.
86539 /	2018-2019)		4. Understand the need of planning in tourism and role of
UAGEO60	http://mu.ac.in/porta		tourism organizations.
2-A	1/wp-		5. Identify potential tourism sectors in Maharashtra.
	content/uploads/201		
	6/06/4.28-T.Y		
	B.A-B.Sc		
	Geography-2-5-18-		
	2.pdf		
TYBA – V-	Political Geography	04	1. Understand basic concepts in political geography.
В	(Introduced in		2. Know various approaches in political geography.
(Semester –	2018-2019)		3. Understand concepts and disputes related to
VI)	http://mu.ac.in/porta		boundaries w.r.t. India.
86540 /	<u>l/wp-</u>		4. Know geostrategic and geopolitical views.
UAGEO60	content/uploads/201		5. Know basic concepts in electoral geography.
2-B	6/06/4.28-T.Y		
	B.A-B.Sc		
	Geography-2-5-18-		
TYBA – VI	2.pdf Tools and	03	1. Coloulate messages of control tendency and to know
(Semester –	Techniques in	03	1. Calculate measures of central tendency and to know the nature of data
VI)	Geography for		2. Calculate measures of dispersion and deviation
UAGEO60	Spatial Analysis – II		3. Calculate correlation and regression
3	(Practicals)		4. Learn the techniques of hypothesis testing
	(Introduced in		5. Learn various methods of geographic sampling
	2018-2019)		6.Learn collection of geographical data with fieldwork
	http://mu.ac.in/porta		
	<u>1/wp-</u>		
	content/uploads/201		
	6/06/4.28-T.Y		
	<u>B.A-B.Sc</u>		
	Geography-2-5-18-		
	<u>2.pdf</u>		
TYBA –	Economic	04	1. Learn basic concepts in economic geography with
VII	Geography		reference to economy and resources
(Semester –	(Introduced in		2. Understand characteristics and geographical factors
VI)	2018-2019)		affecting economic activities
86609 /	http://mu.ac.in/porta		3. Learn the factors affecting industrial location
UAGEO60	<u>l/wp-</u>		4. Learn major patters of transport routes and international trade
4	content/uploads/201		5. Know concepts and issues related to economic
	6/06/4.28-T.Y B.A-B.Sc		development in India
	Geography-2-5-18-		development in maia
	Ocography-2-3-10-		

	2.pdf		
TYBA – VIII-A (Semester – VI) 86642 / UAGEO60 5-A	Biogeography (Introduced in 2018-2019) http://mu.ac.in/porta l/wp- content/uploads/201 6/06/4.28-T.Y B.A-B.Sc Geography-2-5-18- 2.pdf	04	 Learn basic concepts, approaches and importance of biogeographical studies Understand concepts and components of ecosystem and biosphere Learn concept, classification and formation of plant communities Study specific marine biogeographical areas like ocean, islands and estuaries Learn concepts and issues related to biodiversity and its conservation
TYBA – VIII-B (Semester – VI) 86643 / UAGEO60 5-B	Geography of Transport (Introduced in 2018-2019) http://mu.ac.in/porta l/wp- content/uploads/201 6/06/4.28-T.Y B.A-B.Sc Geography-2-5-18- 2.pdf	04	Learn basic concepts like distance related to transport geography Understand structure and properties of transport network Study the evolution of modes of transport w.r.t. locational factors Learn theories related to connectivity and accessibility Explore various issues related to transport in India
TYBA – VIII-C (Semester – VI) 86644 / UAGEO60 5-C	Social Geography (Introduced in 2018-2019) http://mu.ac.in/porta l/wp- content/uploads/201 6/06/4.28-T.Y B.A-B.Sc Geography-2-5-18- 2.pdf	04	 Study basic concepts and processes related to social geography Learn elements of social geography w.r.t. race, religion, language and tribes with reference to world and India Understand social geography of urban areas Study contemporary social issues in India
TYBA – IX (Semester – VI) UAGEO60 6	Research Methodology in Geography (Practicals) (Introduced in 2018-2019) http://mu.ac.in/porta l/wp- content/uploads/201 6/06/4.19-Final- Sem-VI-paper-VI- and-IXResearch- methodology-in- Geography.pdf	03	 Know significance and types of research methodology. Learn methods of data collection and processing. Analyse data using statistical softwares and hypothesis testing techniques. Analyse digital data in GIS softwares. Acquire practical knowledge of research methodology by doing research project.

Environmental Studies

Course	Title of the course	Course	Course outcome
code		credit	
FYBCom	Environmental	03	1. Understand the components of environment and
	Studies – I		functioning of ecosystem.
	(Introduced in		2. Understand problems associated with natural resources
	2016-2017)		and their management.
	http://mu.ac.in/porta		3. Become aware about various issues related to
	<u>l/wp-</u>		population and development.
	content/uploads/201		4. Comprehend environmental issues in urban areas.
	6/06/FYB.Com-		5. Acquire skills of map reading and world map filling.
	Sem-I-II.pdf		
FYBCom	Environmental	03	1. Understand the role of solid waste management for
	Studies – II		sustainable society.
	(Introduced in		2. Understand environmental problems associated with
	2016-2017)		agricultural and industrial development.
	http://mu.ac.in/porta		3. Understand challenges and impacts of tourism.
	<u>l/wp-</u>		4. Know environmental movements in India and various
	content/uploads/201		aspects of environmental management.
	6/06/FYB.Com-		5. Acquire skills of Konkan and Mumbai map filling.
	Sem-I-II.pdf		

DEPARTMENT OF HINDI

• Program Specific Outcomes:

- Having command over Language: Listen, Speak, Read and Write effectively
- Effective Communication and Expression of their Views.
- Develop Critical and Analytical Thinking for identifications of problem and resolutions.
- Understanding of interpersonal and Social relationships.
- Learned about Human Values and become responsible citizens.
- Learned about rich heritage of Indian Culture.
- Acquainted with Research Skills
- Become eligible for Creative Writing through understanding of Literature.

Course Code	Tittle of the Course	Credit	Course Outcome
UAHINCOM 101	Compulsory Hindi	3	Learners got Knowledge of Hindi Poems, Story,
(FYBA SEM I)			Translation and letter Writing
UAHINCOM 102	Compulsory Hindi	3	Learners got Knowledge of essay writing.
(FYBA SEM II)			Improve their writing skills and grammar
UAHIN 101 FYBA	Ancillary Hindi	3	Learners become familiar with Hindi Story,
SEM I			Essay (Prose) Auto- Biography and memories
UAHIN 201 FYBA	Ancillary Hindi	3	Learners Gained knowledge of evolution of
SEM II	, and the second		Hindi Story and Hindi Novels
UAHIN 301 SYBA	SYBA Hindi Paper	3	विद्यार्थियों में मानवीय संवेदनाओं के विकास के साथ नवीन सामाजिक
SEM III	II		सांस्कृतिक बोध और जीवन मूल्यों का विकास होगा।
			विद्यार्थियों में साहित्य के माध्यम से कलात्मक गुणों की अभिव्यक्ति होगी।
			कला की साहित्यिक विधाओं के प्रति अभिरुचि जागृत होगी तथा रचनात्मक
			कौशल को बढ़ावा मिलेगा।
			विद्यार्थियों में नए वैश्विक मूल्यों के प्रति सजगता को बढ़ावा मिलेगा एवं
			पर्यावरणीय चेतना के प्रति दायित्व बोध उत्पन्न होगा।
UAHIN 401 SYBA	SYBA Hindi Paper	3	विद्यार्थियों में मानवीय संवेदनाओं के विकास के साथ नवीन सामाजिक
SEM IV	II		सांस्कृतिक बोध और जीवन मूल्यों का विकास होगा।
			विद्यार्थियों में साहित्य के माध्यम से कलात्मक गुणों की अभिव्यक्ति होगी।
			कला की साहित्यिक विधाओं के प्रति अभिरुचि जागृत होगी तथा रचनात्मक
			कौशल को बढ़ावा मिलेगा।
			विद्यार्थियों में नए वैश्विक मूल्यों के प्रति सजगता को बढ़ावा मिलेगा एवं
			पर्यावरणीय चेतना के प्रति दायित्व बोध उत्पन्न होगा।
UAHIN 302 SYBA	SYBA Hindi Paper	3	विद्याविथयों को व्यावहारिक हिंदी भाषा -दक्षता की प्रवीणता की प्राप्ति होगी।
SEM III	III		विद्याविथयों का व्यावसायिक रूप से आत्मनिर्भरता के योग्य बनाना।
			विद्यार्थी जनसंचार माध्यमों में रोज़गार के अवसरों व अन्य क्षेत्रों से अवगत
			होंगे।
UAHIN 402 SYBA	SYBA Hindi Paper	3	विद्याविथयों को व्यावहारिक हिंदी भाषा -दक्षता की प्रवीणता की प्राप्ति होगी।
SEM IV	III		विद्याविथयों का व्यावसायिक रूप से आत्मनिर्भरता के योग्य बनाना।
			विद्यार्थी जनसंचार माध्यमों में रोज़गार के अवसरों व अन्य क्षेत्रों से अवगत
			होंगे।
UAHIN 501 TYBA	History of Hindi	4	Learners got Knowledge of History Ancient and
SEM V	Literature Paper IV		Medieval Hindi Literature (Poetry Form)
UAHIN 601 TYBA	History of Modern	4	Learners got knowledge of modern Hindi
SEM VI	Hindi Literature		literature Poetry and Prose in various eras of
	Paper IV		modern times.
UAHIN 502 TYBA	Post-Independence	4	Learners got Knowledge of Play KhandKavya
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SEM V	Hindi Literature (Paper V)		(Epic), sansmarn rekhachitra- Prose
UAHIN 602 TYBA SEM VI	Post-Independence Hindi Literature (Paper V)	4	Learners got Knowledge of various forms of Hindi poetry, definition and elements of GeetKavy, Essays
UAHIN 503 TYBA SEM V	Information Technology in Hindi (Paper VI)	4	Learners got knowledge of translation with use of Computer Information technology, Internet, Print Media etc.
UAHIN 603 TYBA SEM VI	Social Media Paper VI	4	Learners got Knowledge of use of Social Media like Facebook, WhatsApp, Twitter etc.
UAHIN 504 TYBA SEM V	Literary Criticism prosody and rhetoric Paper VII	4	Learners got Knowledge of Definition of Literature, elements of various forms of Literature, Prosody
UAHIN 604 TYBA SEM VI	Literary Criticism prosody and rhetoric Paper VII	4	Learners got Knowledge of Rasa, Shabd Shakti, forms of Prose and rhetoric's
UAHIN 505 TYBA SEM V	Linguistics Hindi Language and Grammar Paper VIII	4	Learners Learned Hindi grammar, evolution of language, Science of Language
UAHIN 605 TYBA SEM VI	Linguistics Hindi Language and Grammar Paper VIII	4	Learners got information about ancient & medieval Indian Aryan Languages, forms of modern Hindi language, dialects and language Khadi boli Hindi
UAHIN 506 TYBA SEM V	Ideological Background of Modern Hindi Literature	4	Learners became Knowledgeable of ideological background of Modern Hindi Literature, impact of Gandhian thoughts etc. on modern Hindi Litrature
UAHIN 606 TYBA SEM VI	Ideological Background of Modern Hindi Literature	4	Learners Learned about impact of psychology, Dalit Chetna and journals, on Hindi Literature
TYBCOM SEM V	Hindi Optional	4	Learners got Knowledge of Modern Poetry and novel
TYBCOM SEM VI	Hindi Optional	4	Learners got Knowledge of short stories of specific author and Hindi Poetry

Course Code	Tittle of the Course	Credit	Course Outcome
PAHIN-101	History of Hindi Literature	3	Learners got Knowledge of tradition of writing
MA-I SEM-I			of History of Hindi Literature and various era
			of Hindi Literature
PAHIN-102	History of Hindi Literature	3	Learners got Knowledge of Characteristics
MA-I SEM-II	(Modern Age)		features of Modern Hindi poetry and Prose
PAHIN-103	Poetics and Literary	3	Learners became familiar of Indian Literary
MA-I SEM-I	Criticism		Criticism
PAHIN-104	Poetics and Literary	3	Learners got Knowledge of Concept of various
MA-I SEM-II	Criticism		theories of Criticism
PAHIN-105	Linguistic and Hindi	3	Learners got Knowledge of Type of linguistics,
MA-I SEM-I	Language		Science of Language etc.
PAHIN-106	Linguistic and Hindi	3	Learners got Knowledge of Roop Vigyan,
MA-I SEM-I	Language		Vakya Vigyan, Aarth Vigyan etc.
PAHIN-107	Ancient and medieval	3	Learners got Knowledge of

MA-I SEM-I	poetry		Ancient and medieval poetry of Kabir, Jayasi, Tulsidas
PAHIN-108 MA-I SEM-II	Ancient and medieval poetry	3	Learners got Knowledge of medieval poetry of Surdas, Meerabai, Bhushan
PAHIN-109 MA-II SEM- III	Modern Prose	6	Learners got Knowledge of Novel, essays and short stories of modern Hindi literature
PAHIN-110 MA-II SEM- III	Modern Poetry	6	Learners got Knowledge of Epic and Special Authors
PAHIN-111 MA-II SEM- III	Various Discourse and literature	6	Learners got Knowledge of issue of Women Dalit and Adivasi through Hindi Novel and poetry
PAHIN-112.3 MA-II SEM- III	Hindi Poetry of Marathi Sant	6	Learners got Knowledge of Poetry of Sant Namdev and Sant Tukaram
PAHIN-113.1 MA-II SEM- III	Special Study Jaishankar Prasad	6	Learners got Knowledge of novel of Jaishankar Prasad along with Stories
PAHIN-114.2 MA-II SEM- IV	Study of Hindi Literature, Translation of Marathi	6	Learners got Knowledge of Marathi Literature translation into Hindi
PAHIN-115.2 MA-II SEM- IV	Functional Hindi	6	Learners got Knowledge of Rajbhasha Hindi Language and its importance at Global Level
PAHIN-116 MA-II SEM- IV	Project Writing	10	Learners got Knowledge of Research Methodology

DEPARTMENT OF HISTORY

• Programme Specific Outcomes:

- B.A History students develop a logical understanding because they have to study causes and effects of events.
- B.A History student develop a greater knowledge of Indian History and World History.
- BA History programme will help the student to appear for the various competitive exams.
- B.A History programme makes the students more employable.

Course code	Title of the course	Course credit	Course outcome
Couc	I. History of Modern India	3	1) To be proficient in History of Modern
	(1857 to 1947)		India.
	Paper I - Sem I & II		2) To be proficient in the Indian National
	_		Movement
			Syllabus link: http://old.mu.ac.in/wp-
			content/uploads/2016/06/4.21-FYBA-History-
			Archeology.pdf
	II. Landmarks in World	3	1. To be proficient in World History
	History(1300 to 1945		2To understand the impact of landmark
	AD)		events in World History
	Paper II. Sem III and IV		Syllabus link: http://old.mu.ac.in/wp-
			content/uploads/2016/06/4.66-SYBA-History-
			<u>History-Archecology-Sem-III-Sem-IV2.pdf</u>
	III. History of Ancient India.	3	1. To be proficient in the history of ancient
	Paper III. Sem III and IV		India.
			2. To acknowledge the influence of ancient
			India on Modern India.
			Syllabus link: http://old.mu.ac.in/wp-
			content/uploads/2016/06/4.66-SYBA-History-
			<u>History-Archecology-Sem-III-Sem-IV2.pdf</u>
	IV. Semester V Core Course	4	1. To be proficient in the History of Medieval
	IV.		India.
	History of Medieval India		2. To have a grasp of Delhi Sultanate
	(1000 CE – 1526 CE)		Syllabus link: http://old.mu.ac.in/wp-
			content/uploads/2016/06/4.1-TYBA-Syllabus-
	77 6 77		History-Archaeology-Sem-V-Sem-VI1.pdf
	V. Semester V Course V.	4	1. To gain insight into the history of Modern
	History of Modern		Maharashtra.
	Maharashtra (1818 CE-		2. To acquaint students with regional history.
	1960 CE)		Syllabus link: http://old.mu.ac.in/wp-
			content/uploads/2016/06/4.1-TYBA-Syllabus-
	VI Comester V Course VI	<u></u>	History-Archaeology-Sem-V-Sem-VI1.pdf
	VI. Semester V Course VI Core Course VI A –	4	1. To understand the basic facets of
	Introduction to		Archaeology.
	Archaeology		2. To evaluate the importance of Epigraphy. Syllabus link: http://old.mu.ac.in/wp-
	Archaeology		content/uploads/2016/06/4.1-TYBA-Syllabus-
			History-Archaeology-Sem-V-Sem-VI1.pdf
			mstory-Archaeology-Seni-v-Seni-v11.pdl

VII. Semester V Core Course VII- History of the Marathas (1630 CE – 1707CE) VIII. Semester V Core Course VIII: History of Contemporary World (1945 CE – 2000 CE)	4	1. To familiarize students with the literary sources of the history of the Marathas. 2. To help students to understand the forces leading to the establishment of Maratha power under Chhatrapati Shivaji Maharaj. Syllabus link: http://old.mu.ac.in/wp-content/uploads/2016/06/4.1-TYBA-Syllabus-History-Archaeology-Sem-V-Sem-VII.pdf 1, To trace some of the major events of post-World War II period. 2 To comprehend the ways in which events of the latter half of the twentieth century have
IX. Semester V	4	influenced the present. Syllabus link: http://old.mu.ac.in/wp-content/uploads/2016/06/4.1-TYBA-Syllabus-History-Archaeology-Sem-V-Sem-VII.pdf 1.To teach students basics of research
Elective Course IX A - Research Methodology and Sources of History		methodology in history with a view to promote historical research. 2. To understand the various kinds of sources of history and its interpretation. Syllabus link: http://old.mu.ac.in/wp-content/uploads/2016/06/4.1-TYBA-Syllabus-History-Archaeology-Sem-V-Sem-VII.pdf
X. SEMESTER – VI Core Course IV History of Medieval India (1526 CE – 1707 CE)	4	1 To acquaint the students with the history of India since the emergence of the Mughal rule. 2. To understand administration of the Mughal Empire. Syllabus link: http://old.mu.ac.in/wp-content/uploads/2016/06/4.1-TYBA-Syllabus-History-Archaeology-Sem-V-Sem-VII.pdf
XI. SEMESTER – VI Core Course V History of Contemporary India (1947 CE- 2000 CE)	4	1.To understand the process of making the Constitution and the Integration and Reorganization of Indian States. 2.To acquaint the students with the political developments in India after Independence. Syllabus link: http://old.mu.ac.in/wp-content/uploads/2016/06/4.1-TYBA-Syllabus-History-Archaeology-Sem-V-Sem-VII.pdf
SEMESTER – VI Core Course VI-A Introduction to Museology and Archival Science	4	1. To inform the students about the role of Museums in the preservation of Heritage. 2. To understand the importance of Archival Science in the study of History. Syllabus link: http://old.mu.ac.in/wp-content/uploads/2016/06/4.1-TYBA-Syllabus-History-Archaeology-Sem-V-Sem-VII.pdf
SEMESTER – VI Core Course VII History of the Marathas (1707 CE – 1818 CE)	4	1.To enable the students to understand the processes that led to the expansion of the Maratha Power. 2.To appreciate the contribution of the Marathas in the national politics of the 18th century.

		Syllabus link: http://old.mu.ac.in/wp-
		content/uploads/2016/06/4.1-TYBA-Syllabus-
		<u>History-Archaeology-Sem-V-Sem-VI1.pdf</u>
SEMESTER – VI	4	1.To acquaint the students with some of the
Core Course VIII		major changes that occurred in Asia after
History of Asia (1945 CE-		World
2000 CE)		War II.
		2.To understand the ways in which Asian
		nations resisted and defied the control of the
		West.
		Syllabus link: http://old.mu.ac.in/wp-
		content/uploads/2016/06/4.1-TYBA-Syllabus-
		History-Archaeology-Sem-V-Sem-VI1.pdf
SEMESTER – VI	4	1. To teach students basics of research
Core Course IX A -		methodology in history with a view to promote
Research Methodology and		historical research.
Sources of History		3. To understand the various kinds of sources
		of history and its interpretation.
		Syllabus link: http://old.mu.ac.in/wp-
		content/uploads/2016/06/4.1-TYBA-Syllabus-
		History-Archaeology-Sem-V-Sem-VI1.pdf

Foundation Course

Course code	Title of the course	Course credit	Course outcome
Couc	F.C I. Semester I	3	 To orient students about social issues. To orient students about the Constitution of India and certain political processes.
	F.C . Semester II	3	 To orient students about Globalization. To orient students about environmental issues.
	F.C. Semester III	3	 Develop a basic understanding about issues related to Human Rights of weaker sections, ecology, and science and technology. Gain an overview of significant skills required to address competition in career choices .Appreciate the importance of developing a scientific temper towards technology and its use in everyday life Syllabus link: http://old.mu.ac.in/wp-content/uploads/2016/06/4.113-SYBA-SYBSC-SYBCOM-Foundation-Course-Sem-III-IV1.pdf
	F.C. Semester IV	3	 Develop a basic understanding about issues related to Human Rights of weaker sections, ecology, and science and technology. Gain an overview of significant skills required to address competition in career choices .Appreciate the importance of developing a scientific temper towards technology and its use in everyday life Syllabus link: http://old.mu.ac.in/wp-content/uploads/2016/06/4.113-SYBA-SYBSC-SYBCOM-Foundation-Course-Sem-III-IV1.pdf

DEPARTMENT OF MARATHI

• Programme Specific Outcomes:

After completing the TYBA programme in Marathi, the Student will be able to:

- PSO1: Understand the history, thoughts related to poetics, linguistics, Grammer, literature and society, new thinkology in Marathi literature & professional use of Marathi language.
- PSO2: Use professional skills in Marathi language like Translation, proofreading, content writing for Media, blog writing etc.
- PSO3: Carry out language research through formulation of criticism, Indian & western thought of poetics, linguistics & Grammer and different types of literature.
- PSO4: Contribute to the society through aspects of literature & Society, Femisnisum studies, Dalit thoughts of literature & Modern Marathi Literature.

Course code	Title of the course	Course credit	Course outcome
1.UAMAR-A-	व्यवसायाभिमुख मराठी	3	1) Occupational Marathi
506/606			Subject for TYBA, which was
			helpful for the students in
			competitive exams,
			administration &
			Communication Skills
2. UAMAR-A-	भाषाविज्ञान आणि मराठी	4	2) Linguistic and Grammar
504/604	व्याकरण		Subject for TYBA, which was
	ञ्चावर्रश		helpful for the students in
			competitive exams, State gov.
			Administration and School
3 UAMAR-A-	भारतीय आणि पाश्चात्य		level Teaching
502/602		4	3)Indian & western Poetics
	साहित्यशास्त्र		Subject for TYBA, which was
			helpful for the students in
	a. c		Philosophical Approach and
MA 1413/1419	सौंदर्यशास्त्र १/२		research
		6	4) Aesthetics studies which
			was helpful for the students in
MA 1438/1411	चित्रपट पटकथांचा अभ्यास		Philosophical Approach,
	माध्यामंताराचा अभ्यास	6	research and film Studies
		6	5) In PG (MA II) Course we
			have subjects script writing &
	संशोधन प्रकल्प		film Adaptation which gave
MA SEM 4 1419			Knowledge to the students
		10	about writing and film Studies.
			6) Miner Research project
			which help student for research
			approach and PHD research
			studies

DEPARTMENT OF BMM

• Program Specific Outcomes:

- Learners will acquire the knowledge and skills required to pursue a career in the specialization of their choice.
- Learners will comprehend the foundations, process, and practices of writing for and about the media, and demonstrate proficiency in writing across platforms.
- Learners will understand mass media as a system of interrelated forces, including historical foundations, technological advances, economic dynamics, regulatory constraints, and ethical concerns.

Sr.	Course Code	Title of the Course	Course	Course Outcome
no.			Credit	
1	BAMMEC-101	Effective		To make the students aware of functional and operational
		communication –I		use of language in media.
				To equip or enhance students with structural and
				analytical reading, writing and thinking skills.
	DANO (FC 102	D 1.1		To introduce key concepts of communications
2	BAMMFC-102	Foundation course –I		To introduce students to the overview of the Indian
				Society.
				To help them understand the constitution of India. To acquaint them with the socio-political problems of
				India.
3	BAMMVC-103	Visual		To provide students with tools that would help them
		communication		visualize and communicate.
				Understanding Visual communication as part of Mass
				Communication
				To acquire basic knowledge to be able to carry out a
				project in the field of visual communication
				To acquire basic knowledge in theories and languages
				of Visual Communication
				The ability to understand and analyze visual
4	BAMMFMC-	Fundamentals of		communication from a critical perspective To introduce students to the history, evolution and the
+	104	mass communication		development of Mass Communication in the world with
	104	mass communication		special reference to India.
				To study the evolution of Mass Media as an important
				social institution.
				To understand the development of Mass Communication
				models.
				To develop a critical understanding of Mass Media.
				To understand the concept of New Media and Media
5	BAMMCA-105	Current Affairs		Convergence and its implications.
)	DAIVIIVICA-103	Current Arrairs		To provide learners with overview on current developments in various fields.
				To generate interest among the learners about burning
				issues covered in the media
				To equip them with basic understanding of politics,
				economics, environment and technology so that students
				can grasp the relevance of related news.
				Twenty minutes of newspaper reading and discussion is
				mandatory in every lecture
6	BAMMHM –	History of Media		Learner will be able to understand Media history through

	106		Iray ayanta in the autumal history
	106		key events in the cultural history
			To enable the learner to understand the major
			developments in media history.
			To understand the history and role of professionals in
			shaping communications.
			To understand the values that shaped and continues to
			influence Indian mass media.
			Learner will develop the ability to think and analyze
			about media.
			To sharpen the reading, writing, speaking and listening
			skills that will help the students to understand the
			development of Media
7	BAMMEC-201	Effective	To make the students aware of use of language in media
		communication -II	and organization.
			To equip or enhance students with structural and
			analytical reading, writing and thinking skills.
			To introduce key concepts of communications.
8	BAMMFC-202	Foundation course –II	To introduce students to the overview of the Indian
1			Society.
			To help them understand the constitution of India.
			To acquaint them with the socio-political problems of
			India.
9	BAMMCW-203	Content Writing	To provide students with tools that would help them
			communicate effectively.
			Understanding crisp writing as part of Mass
			Communication
			The ability to draw the essence of situations and develop
			clarity of thought.
10	BAMMID-204	Introduction to	To provide the students with basic understanding of
		Advertising	advertising, growth, importance and types.
			To understand an effective advertisement campaigns,
			tools, models etc.
			To comprehend the role of advertising , various
			departments, careers and creativity
			To provide students with various advertising trends, and
			future.
11	BAMMIJ-205	Introduction to	To help media students to acquaint themselves with an
1		Journalism	influential medium of journalism that holds the key to
1			opinion formation & to create awareness.
			The subject includes evolution of printing press. The
1			student learns about reporting, editing and how to write
1			an article. It also gives knowledge about qualities of a
			modern journalist.
12	BAMMMGC-	Media, Gender &	To discuss the significance of culture and the media
1	206	Culture	industry.
1			To understand the association between the media, gender
1			and culture in the society.
1			To stress on the changing perspectives of media, gender
			and culture in the globalised era.

Sr. no.	Course Code	Title of the Course	Course	Course Outcome
			Credit	
1	BAMMC TMC- 3012	Theatre and Mass Communication-I		Individual and team understanding on theatrical Arts, Taking ownership of space, time, story-telling, characterization and kinaesthetic, Shaping young students' minds through expression of their perception, creating awareness of their role and place

			in society, their responsibilities and possibilities
2	BAMMC CCPR-302	Corporate Communication and Public Relations	To provide the students with basic understanding of the concepts of corporate communication and public relations. To introduce the various elements of corporate communication and consider their roles in managing media organizations. To examine how various elements of corporate communication must be coordinated to communicate effectively in today's competitive world. To develop critical understanding of the different practices associated with corporate communication with the latest trends and social media tools.
3	BAMMC MS- 303	Media Studies	To provide an understanding of media theories To understand the relationship of media with culture and society To understand Media Studies in the context of trends in Global Media
4	BAMMC IP- 304	Introduction to Photography	To introduce to media learner the ability of image into effective communication. To help the learner understand that media photography is a language of visual communication and is far beyond just point and shoot fun moments. To practice how picture speaks thousand words by enlightening the learner on how. To develop the base of visualisation among learners in using pictures in practical projects. To help learner work on given theme or the subject into making a relevant picture or photo feature.
5	BAMMC FCO- 305	Film Communication-I	To inculcate liking and understanding of good cinema. To make students aware with a brief history of movies; the major cinema movements. Understanding the power of visuals and sound and the ability to make use of them in effective communication. Insight into film techniques and aesthetics.
6	BAMMC CMM-306	Computers and Multimedia-I	To help learners make media industry ready. This will help learners to be aware of the minimum requirement of the software when stepping out in the industry. To introduce the media softwares to make the learners understand what goes behind the scene and help them choose their stream. To prepare learners skilled enough for independency during project papers in TY sem VI. To help learners work on small scale projects during the academic period.
7	BAMMC TMC- 4012	Theatre and Mass Communication-II	Direction and the works, developing an eye for details Deeper understanding of theatre and how it has evolved to create human connections Understanding the role theatre plays as a medium of mass communication in development of society
8	BAMMC WEM-402	Writing and Editing for Media	Provide the ability to understand writing styles that fit various media platforms. It would help the learner acquire information

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	DAMOGNA	M. J., I		gathering skills and techniques. On completion of this course, students will be able to understand similarities and differences in writing for all forms of media including internet and digital. The learner will gather knowledge of different news and copy formats along with appropriate style-sheets and layout. The learner will imbibe the importance of writing clearly, precisely and accurately for different types of audiences Provide acquire basic proficiency in proof-reading and editing.
9	BAMMC MLE- 403	Media Laws and Ethics		To provide the learners with an understanding of laws those impact the media. To sensitize them towards social and ethical responsibility of media.
10	BAMMC MMR-404	Mass Media Research		To introduce students to debates in Research approaches and equip them with tools to carry on research To understand the scope and techniques of media research, their utility and limitations
11	BAMMC FCO- 405	Film Communication II		Awareness of cinema of different regions. To understand the contribution of cinema in society and how to make technically and grammatically good films. The students learn everything from making to marketing of films, Economic aspects of film and careers in films.
12	BAMMC CMM-406	Computer Multimedia II		To help learner be media industry ready. This will help learners to be aware of the minimum requirement of the software when stepping in the industry. To introduce the media soft wares to make the learner understand what goes behind the scene and help them choose their stream. To prepare learner skilled enough for independency during project papers in TY sem.VI. To help learners work on small scale projects during the academic period.
Sr.	Course Code	Title of the Course	Course Credit	Course Outcome
1.	27301	Advertising in contemporary Society	Credit	Students will be taught Ethics and rules that are to be followed while creating and publishing an advertisement in Indian market and Global market. Importance and functioning of different voluntary and non-voluntary organization like AAAI and ASCI and its importance will be taught.
2.	UBMMA505	Advertising Design		Designing of different mediums of advertisements, right and ethical way of creating advertisements will be taught. How to create influential advertisements that appeal people and create an impact on their minds is taught.
3.	27309	Media planning and Buying		A mix of different components and factors that are essential while planning and buying of media (modes of advertisements) and how to increase your reach to a larger target audience in a limited budget will be taught.
4.	27303	Copywriting		Students will be taught how to write a copy for the purpose of publicity or promotion for an

			advertisement. Vocabulary, Skills and word carpentry essential for making a good copy will be taught with the help of various activities.
5.	27307	Consumer Behaviour	The students will learn about buying behaviour of an individual and groups as well, concepts related to emotional and cultural behaviours and how they influence the society and their behaviours are made clear.
6.	27306	Brand Building	Various important factors that create, impact and influence a brand and activities that take place while building a brand/company, how does it deal with its internal public and its external public by being ethical in every aspect will be taught.
7.	55601	Advertising and Marketing Research	In this subject, the learners acquaint knowledge of the research which is mandatory in the contemporary society before implementing the advertising or marketing plan for the clients
8.	55611	Contemporary issues	To sensitise students to the environment around them ¾ Developing a perspective towards issues related to the marginalized sections of the society
9.	55605	Financial Management for marketing & Advertising	To acquaint the students with the knowledge of account settling, managing finances and keeping records of the profits and losses of the company.
10.	55609	The Principles & practice of Direct Marketing	To learn and understand: ¾ What Direct marketing is, including direct marketing terminology ¾ How direct marketing differs from "traditional marketing" ¾ Direct marketing techniques
11.	55603	Legal environment & Advertising ethics	To provide a perspective on the Legal Environment in India. ¾ To guide students of media through the various ethics connected to Advertising. ¾ Maharashtra state centric cases to be discussed in class as the situation demands.
12.	55607	Agency Management	¾ To expose students to the business of advertising ¾ To familiarize students with the different aspects of running an ad agency
13.	55613	Digital Media	Understand digital marketing platform Understand the key goals and stages of digital campaigns Understand the of use key digital marketing tools Learn to develop digital marketing plans

Sr. No.	Course Code	Title of the Course	Course Credit	Course Outcome
1.		Indian regional Journalism		History of Indian media and how it developed, Roots and pioneers of Indian Regional newspapers other than English newspapers will be discussed and students will be taught is detail about the current situation of Indian Regional media and its influence over people and how has it developed over the years.
2.		Journalism and Public Opinion		Impacts of news i.e. journalism on people and different ways in which it influences opinions of an individual or society as a whole and different ways to analyze the impact of the media and public opinion on socio political issues will be taught to students
3.		Features and Opinion		The students will understand the differences between reporting and feature writing. They will also learn various skills necessary for interviewing, writing features, opinion

		and other soft stories.
4.	Reporting	Students will be taught about reporting, its types and importance. Ethics and Fundamentals of reporting will also be taught with respect to various situation that a journalist has to face.
5.	Newspaper and Magazine Making	Students will get familiar to various important aspects like the design, elements of the newspaper & magazine and space distribution while designing it using different software. The process of planning and production of newspaper and magazine will be explained to students with practical activities.
6.	Editing	Importance of Editing, different ways and formats to edit and its usage in modern times will be explained with different activities and projects.
7.	Broadcast Journalism	Students will be explained the importance of regional journalism, the skills and techniques to investigate news stories and use of camera and sound in broadcast format.
8.	Business and Magazine Journalism	tools of business journalism and an overview of the economy will be explained in detail, Different types of magazines and its importance from journalism point will be discussed.
9.	Internet and Issues in Global Media	Students will be taught about the impacts of the global media, its evolution and structure. The role of new media will be taught in detail.
10.	News Media Management	Students will be made aware about the responsibilities, structure and functioning of responsibilities of an organization, Students will have gained a perspective on the evolution of media in the last 25 years and on key current trends.
11.	Press Laws and Ethics	Students will be taught true ethics of Journalism, Laws made for journalism and why is it important to be ethical in this field.
12.	Contemporary Issues	Students will be made familiar to environmental, political, economic and social concerns and issues, they will be guided and explained about human rights and the problems, challenges and its implications on development.
13.	Digital Media	The importance of alternate to media, digitalized media and journalism will be made familiar to students, Challenges to international journalism with increase in digital technology will be discussed.

DEPARTMENT OF POLITICAL SCIENCE

• Programme Specific Outcomes:

On successful completion of the BA in Political Science (BA) program, the student will be able to –

- Demonstrate their understanding of the Constitution of India and Political Process in India.
- Enhance theoretical knowledge in the major theories and concepts of political science
- Demonstrate the understanding about the role and responsibilities of a citizen and the relationship between citizen and state
- Conceptualize various foundational theories in International Relations with special emphasis on foreign policy of India.
- Explain the basic features of Indian and Western political thoughts

Course Code	Title of the	Course credit	Course outcome
Code	FYBA	8 (4 per semester)	 To help the learners to acquaint with the theory and practice of constitutionalism in India. To help the learners to develop constitutional perspective to understand political system of India. To introduce the learners with the history of the making of Indian Constitution. To orient the learners about rights and duties of citizens under the constitution. To familiarize and acquaint with the functioning of executive, legislature and judiciary; and their mutual relationship. To help the learners to understand the changing nature of federal system in India. To understand the party politics and electoral process in India. So, explore social dynamics involving caste, religion and gender behind functioning of Political system in India. To understand and analyze the challenges to national security in India with reference to criminalization, Naxalism and global
	SYBA- PAPER-II	6 (3 Per Semester)	terrorism. 1) To introduce the learners to traditional and contemporary approaches to political theory. 2) To familiarize the learners with theory of State, Nation, Civil Society, Market. 3) Understand the basic concepts of Power, Authority, Legitimacy, Law, Political Obligation and Right to Resist. 4) Understand the discourse on rights in political science. 5) To introduce to political values of liberty, equality and justice. 6) To develop the theory and practice of democracy. 7) Acquaint the students with the contemporary debates across the ideologies of Marxism, Fascism and Feminism.

SYBA- PAPER-III	6 (3 Per Semester)	 To introduce the learner to the discipline of public administration. To acquaint with theories of administration. To study basic principles of organization. Students acquaint with concept of governance and its increasing significance in the era of Globalization To introduce the learner to evolution of Indian administration since British rule. To understand the recruitment system of Indian Administration. To understand the financial administration of India. To understand issues of integrity, corruption and citizen participation in Indian administration.
TYBA- PAPER –IV	8 (4 Per Semester)	 Students help to identify and conceptualize the Major issues in the International Relations Students help to identify the major national/international actors engaged in dealing with these issues at various levels in international Politics Understand to the Nature and emerging trends of India's Foreign Policy. Students acquaint with the domestic and international security concerns Understand of the relations of India with neighboring countries and major powers in the world
TYBA- PAPER –V	8 (4 Per Semester)	 To understand the major western philosophical traditions in study of politics. To study the contribution of Machiavelli, John Locke, J.S. Mill, John Rawls, Karl Marx, Antonio Gramsci, Simon-de-Beauvoir and Will Kymlicka Understand the Political Ideas, views and concerns of leading Indian thinkers. To familiarize with richness of political ideas within discourses on nationalism, democracy and social transformations in pre and post-independence India, their need for modern society.
TYBA- PAPER –VI	6 (3 Per Semester)	 Student familiarize with the historical basic information, analytical framework the formation of Maharashtra State Students understand the changes and the new trends in Maharashtra Politics Understand important issues in Current Maharashtra Politics.
TYBA- PAPER –VII	8 (4 Per Semester)	 To make students aware of interaction and connectedness between society and political system. To understand the analytical categories of caste, class, gender; and theoretical concepts of power, legitimacy and hegemony. To understand the theories of political culture, political socialization and political participation
TYBA- PAPER VIII	8 (4 Per Semester)	 To make students aware about American Political System To make them understand systemic comparison of two constitutional systems To understand influence of Non-State actors on the political system

TYBA-	6	To understand	
PAPER –IX	(3 Per	1) electoral system in the Parliament setup	
	Semester)	2) importance of free and fair election	
		3) Operational challenges of electoral system	
		4) Importance of electoral reforms	

DEPARTMENT OF PSYCHOLOGY

• Programme Specific Outcomes:

- BA Psychology provides immense career options to the students such as consultant psychologist in hospitals, career counsellors, counselling psychologists, Human Resource professionals, Teaching, NGO set up professionals etc.
- Graduation in psychology helps to develop a student's concept knowledge, Psychology as a field and its scope and psychological testing which provides a strong foundation to pursue psychology at PG level and in many other professional courses in psychology like diplomas courses, social work
- Students graduating with a degree in Psychology will know the intricacies of human thought and behaviour thereby making them sensitive, empathic and better humans
- Students with a degree in Psychology will be able to interpret, design and conduct basic psychological research
- Students graduating with a degree in Psychology will know and apply ethical standards in scientific research

Class	Course	Outcomes
FYBA	Paper I Fundamentals of Psychology	 Students develop knowledge and understanding of the basic concepts and modern trends in Psychology. Students develop interest in the subject of Psychology and develop a foundation for further studies in Psychology. Students are aware of the applications of Psychological concepts in different areas of day to day life.
SYBA	Paper II Social Psychology	 Students develop knowledge and understanding of the basic concepts and modern trends in Social Psychology. Students develop interest in Social Psychology as a field of study and research among students. Students are aware of the applications of the various concepts in Social Psychology in the Indian context
SYBA	Paper III Developmental Psychology	 Students develop knowledge and understanding of the basic concepts, principles, perspectives and modern trends in Developmental Psychology Students develop interest in Developmental Psychology as a field of study and research among students. Students are aware of the implications and applications of the various concepts, principles and theories of Developmental Psychology in daily life in the Indian context
SYBA	Health Psychology (Applied component)	 Students develop understanding of the basic concepts and modern trends in Health Psychology. Students develop interest in Health Psychology as a field of study and research among students. Students are aware of the practical applications of the various concepts in Health Psychology in the Indian context.
TYBA	Paper IV Psychological Testing and Statistics:	 a) The learner will – 1. develop knowledge and understanding of the nature, uses, technical features, and the process of construction of psychological tests. 2. develop awareness about measurement of intelligence and

		assessment of personality 3. be equipped with the knowledge about the concepts in Statistics and the various measures of Descriptive Statistics - their characteristics, uses, applications and methods of calculation. b) The learner will build a firm foundation, which will be helpful for advanced learning of Psychological Testing,
		Assessment and Statistics in postgraduate studies.
Paper V A Psycholog		 a). The learner will Develop an understanding of the basic concepts and theories of Abnormal Psychology. develop insight into various forms of Psychological Disorders – their symptoms, causes, along with the process of diagnosis and treatment. become more sensitised and equipped to deal with various issues related to Mental Health in society. b). The learner will build foundational knowledge of Abnormal Psychology which will help the learner for higher education and the transparence are foreigned expensive Chinical Psychology.
		also to pursue a professional career in Clinical Psychology
Paper VI Industrial/O Psycholog	Organizational y:	 Learners will be able to a) describe the scope of I/O Psychology and careers related to I/O Psychology. b) list and describe the basic concepts of I/O Psychology. c) critically discuss issues related to I/O Psychology.
Paper VII	Cognitive	2. Learners will have built a sufficient foundation in I/O Psychology to pursue postgraduate studies and/or careers related to I/O Psychology a). The learner will
Psycholog		 1. develop understanding of the basic concepts and theories of Cognitive Psychology. 2. develop insight into theoretical aspects of cognitive processes b). The learner will build foundational knowledge of Cognitive Psychology which will help the learner for higher education and also to pursue a professional career in any of the several areas of Psychology
Cognitive	Practicals in and cal Testing:	Students will be able to 1. Translate theoretical concepts into application-based experiments. 2. Conduct experiments following standardized procedure. 3. Apply statistical tests and analyze the data collected. 4. Write reports on research conducted using APA format. 5. Make sense of the research papers on any given topic
Paper IX C Psycholog	_	Students will be able 1. identify unique features of Counselling as a profession. 2. understand the process to be followed while helping people and roles and responsibilities of the counselor. 3. identify key ingredients necessary for successful helping. 4. understand micro-skills required to practice Counselling. 5. understand theoretical foundations underlying different counselling and psychotherapeutic approaches and critically evaluate the strengths, limitations associated with each of them. 6.feel motivated to seek further training to practice Counselling

DEPARTMENT OF SINDHI

• Program Specific Outcomes:

- Students will be able to apply critical and theoretical approaches to the reading and analysis of literary and cultural texts in multiple genres by understanding the evolution of criticism and its application in language and literature
- Students will be able to comprehend variety of prose and poetry in Sindhi Literature to enrich their understanding through various textual perspectives
- A greater understanding of the human communicative action through an objective study of language will help the students to apply their knowledge of Sindhi language to improve active listening, speaking, reading and writing skills.

COURSE CODE	TITLE OF THE COURSE	OBJECTIVE	OUTCOME
FYBA UBA 1.48	SINDHI (COMPLUSORY)	 To acquaint students with the characteristics of various literary genres To develop analytical silks and critical thinking through close reading of literary texts To cultivate appreciation of language as an artistic medium and to help them understand the importance of forms, elements and style that shape literary works. 	 To write clearly coherently and effectively about various genres of Sindhi literature. To recognize the culture and context of the work of literature in Sindhi
FYBA UBA1.9	SINDHI (ANCILLARY)	 To enhance language proficiency by providing adequate exposure to reading and writing skills To orient the learners towards the functional aspects of language. 	Students will be able to understand the process of communication and its effect on giving and receiving information.
SYBA UASI301	Classical Poetry & Modern Poetry	 To familiarize the students with the major representative poets of every age and movements therein To help them study different genres of poetry in the context of socio-cultural background of the age 	 Will be acquainted poetry with a variety of historic periods They will recognize the rhymes, metric s and other musical aspects of poetry
SYBA UASI402	Language and its Description & Functions of Language.	 To understand the concept of style in literature and language To understand the concept of discourse and the principles of discourse analysis To understand the impact of stylistics analysis. 	 To expose to range of contexts where the language is used to meet a variety of real life. To focus on readability teach-ability and testability to think beyond the text.
TYBA	Origin and	1. To introduce the learners to	1) To become an effective

97008	Development of Sindhi Language and Grammar	wide range of critical sindhi Literature Tea methods and literary theories. 2. To familiarize the students students to develop S	ture
97038	History of Sindhi Literature from the Beginning up to 1947	with major representative poets of every age and movements therein. 3. To help them study different Communication Skill 3) To help students to go Jobs in Sindhi Lingui Minority Institute.	s. et the
97073	Applied Nature related to core papers	genres of poetry in the context of socio- cultural background of the age. 4) To Understand the Conference of Business by learning Sindhi Literature at the conference of Business by learning Sindhi Literature at the conference of Business by learning Sindhi Literature at the conference of Business by learning Sindhi Literature at the conference of Business by learning Sindhi Literature at the conference of Business by learning Sindhi Literature at the conference of Business by learning Sindhi Literature at the conference of Business by learning Sindhi Literature at the conference of Business by learning Sindhi Literature at the conference of Business by learning Sindhi Literature at the conference of Business by learning Sindhi Literature at the conference of Business by learning Sindhi Literature at the conference of Business by learning Sindhi Literature at the conference of Business by learning Sindhi Literature at the conference of Business by learning Sindhi Literature at the conference of Business by learning Sindhi Literature at the conference of Business by learning Sindhi Literature at the conference of Business by learning Sindhi Literature at the conference of Business B	ng
97108	Principles of Poetry 1798 A.D On Wards And Poet	4. To introduces students to Sindhi Literature since beginning up to 1947 International & National	
97140	Principles of Literary Criticism	5. To introduce the learners to important critical terms.	
97173	Applied Nature)Classical and Modern Poetry	6. To train students to develop skills for a critical and analytical understanding of the text	
TYBCOM 23138	Literature in Sindhi	 To acquaint students with the characteristics of various literary genres To develop analytical silks and critical thinking through close reading of literary texts To cultivate appreciation of language as an artistic medium and to help them understand the importance of forms, elements and style that shape literary works. To write clearly cohe and effectively about genres of Sindhi litera To recognize the culticontext of the work or literature in Sindhi 	various ature. ure and

DEPARTMENT OF SOCIOLOGY

• Program Specific Outcomes:

- After completion of Degree course Students get job in private sector,
- Some students pursue higher education (PG) like MA in sociology& MA in Social work
- Some students try for competitive examinations like UPSC, MPSC, Railway Recruitment Exams

Sr. No.	Paper	Outcomes
1)	Foundations Of Sociology	This Course work will help learners to understand:
		1. The emergence of Sociology and its relationship with other
		sciences
		2. And define the nature and importance of Social Institutions
		3. The influence of Culture on the society 4. The process of
		Socialization in the development of individuals in the society
2)	Fundamentals Of Sociology	This Course work will help you to understand:
		1. The context and theoretical approaches that influences Social
		Interaction
		2. The evolutionary processes and the organizing principles of
		Social Stratification
		3. The nature and forms of deviant behaviour and the methods
CZ/D A		of Social Control
SYBA	Indian Conjetus Character	Outcomes
1)	Indian Society: Structure	1. After learning this course students will understand complex
	And Change	social structure of Indian Society
		2. Students shall develop understanding co-existence of
2)	Emanaina Isawas And	different groups and communities.
2)	Emerging Issues And Concerns In Indian	This course will help the student to understand:
	Contemporary Society	1. The demographic variable that influence structure of the Society.
	Contemporary Society	2. The environmental concerns of the society today.
		3. Sensitization and create awareness with regards to health care
		system.
		4. Critically evaluate the meaning of justice and the role of the
		criminal justice system of the country.
3)	Sociology Of Development	1. Students shall be able to understand what is economic
- /		development and social development.
		2. Students will understand development in Indian Context.
4)	Emerging Fields In	1.To create awareness among the students about various media
	Sociological Studies	challenges.
	-	2. To critically analyze the new trends in Education. 3. To
		provide information to the students about the laws and policies
		of urban governance.
		4. To understand the growing numbers and concerns of the
		ageing community.
TYBA		Outcomes
1)	Theoretical Sociology	1. Students should be able to explain social problems and issues
		in lieu of their Understanding of sociological theory
		2. Theoretical sociological knowledge will help students to
		critically evaluate.

		3. Help students to make theoretically- informed	
		recommendations to address social problems.	
2)	Sociology Of Work	1.The Course will help the students to get proper jobs for themselves and keep in pace with recent developments like automation.2. The students will also understand the values of work ethics, work culture, decent work etc.	
		3. The course further helps the students to respect decent work Agenda and assist the seniors in implementing the same in their organizations.	
3)	Sociology Of Gender	The learner will be able to: 1. An understanding of the debates that have shaped the discourse on gender 2. An enhanced understanding of perspectives both global and local	
4)	Sociology Of Human Resource Development	The learner will be able to: 1. To create an awareness of the various issues involved in the development of human resources with particular emphasis on social and cultural factors. 2. To familiarise students and the recruitment and selection process 3. To understand the importance of network and building an image of the company	
5)	Urban Sociology	The learner will be able to: 1. Students will be able to explain the various concepts nature and dynamics of urbanization in India. 2. Students will be able to reflect on theoretical perspectives in urban Sociology	
6)	Quantitative Social Research	This course will help learners — 1. To appreciate the nature and significance of social research 2. To learn about the basic tools and techniques in social research 3. To equip themselves to conduct and analyse simple research projects	

HSNC Board's Smt. Chandibai Himathmal Mansukhani College, Ulhasnagar – 3

LEARNING OUTCOMES

FACULTY OF COMMERCE

Link to Syllabus Page on the University of Mumbai Website: https://mu.ac.in/syllabus#1548829931222-2e1d42b6-4304

(Note: This compilation is based on the information provided by the Head of the Departments.)

DEPARTMENT OF ACCOUNTANCY

• Programme Specific Outcomes:

After completing the program student will be able to:

- PSO1: get a working knowledge in respected of Financial Accounting, Cost Accounting, Management Accounting, Auditing and Taxation.
- PSO2: learn relevant accounting career skills, applying both quantitative and qualitative knowledge to their future careers in finance.
- PSO3: acquire practical skills to work as tax consultant, audit assistant and other financial supporting services.
- PSO4: demonstrate progressive learning of various tax issues and tax forms related to individuals.
- PSO5: identify, analyze and solve the problems of various issues in accounting and finance through different tools and techniques.
- PSO6: have analytical skills to critically evaluate the scope and importance of accounting information for effective decision making in business.

Course Code	Title of the	Course	Course outcome
	course	credit	
	Fir		mester – I & II)
UBCOMFSI.1	Accountancy and	03	Be proficient in the financial accounting systems with
	Financial		specialized practical knowledge on preparing annual
	Management – I		financial statement of a Manufacturing Organization
			understanding of assets, liabilities, capital and
	Accountancy and		revenue expenditure & Hire purchase system,
	Financial	03	
UBCOMFSII.1	Management - II		
	Sec	cond Year	(Semester – III)
UBMSFSIII.1	Accountancy and	03	Be Proficient in Financial Accounting system of
	Financial		partnership firms also understand the concept of
	Management III		Conversion of Partnership firm into a Company
UBCOMFSIII.2.1	Financial	03	Ability to analyze the financial statements of an
	Accounting and		enterprise using vertical approach and various
	Auditing -		techniques like Comparative statements, common
	Introduction to		size, trend analysis, ratios, and other management
	Management		accounting techniques of working capital
	Accounting		management, cash flow statement and Receivables
			management.
	Sec		(Semester – IV)
UBMSFSIV.1	Accountancy and	03	Understanding Concept of redemption of Preference
	Financial		shares and Debentures and to understating calculation
	Management IV		of claim in case of fire insurance.
UBCOMFSIV.2.1	Financial	03	Ability to understand basic concept of Auditing and
	Accounting and		SAP of Auditing. Understanding of various techniques
	Auditing -		of auditing .
	Auditing		
		hird Year ((Semester – V)
23101	Financial	04	This course aims to enlighten the students on the
	Accounting and		accounting procedures followed by the Companies. To

	Auditing VII - Financial Accounting		enable the students to be aware on the Corporate Accounting in conformity with the provision of the Companies Act.
23107	Financial Accounting and Auditing VIII - Cost Accounting	04	Ability to understand basic concept of cost, various elements of cost and preparation of cost sheet.
23115	Direct & Indirect Taxation Paper I	03	Ability to calculate taxable income of an individual and file the income tax returns independently.
	TI	hird Year (Semester – VI)
83001	Financial Accounting and Auditing IX - Financial Accounting	04	Understanding Concept of Amalgamation, absorption and liquidation in case of companies also understanding of accounting in case of Foreign transaction in convergence with Accounting Standards issued by ICAI.
83007	Financial Accounting and Auditing X - Cost Accounting	04	Ability to understand various techniques of costing like marginal costing, process costing, standard costing and Contract costing.
83015	Direct and Indirect Taxation Paper II	03	Ability to calculate various types of GST and learn to calculate GST of business organization

DEPARTMENT OF BCBI

• Programme Specific Outcomes:

- Students are gaining Professional and depth knowledge about banking industry.
- Students get well-versed knowledge about financial markets also
- This course helps in fostering financial literacy knowledge.

Course code	Title of the course	Course credit	Course outcome
	I	FYBCBI (Sem I)	
UBIFSI.1	EMFS	03	Giving the knowledge about financial
			system of the country.
UBIFSI.2	PRINCIPLES OF	03	Impart knowledge about management
	MANAGEMENT		practices.
UBIFSI.3	FINANCIAL	03	Knowledge about financial accounting
	ACCOUNTING-II		practices
UBIFSI.4	BUSINESS	03	Developing the personality of students by
	COMMUNICATION- II		communication in effective manner
UBIFSI.5	FOUNDATION	02	Sensitize students towards social issues and
	COURSE-I		gender equity.
UBIFSI.6	BUSINESS	03	To study about Indian economics.
	ECONOMICS-I		
UBIFSI.7	QUANTATIVE	03	Developing mathematical skills.
	METHODS-I		
		SEM II	
UBIFSI.1	PPBI	03	Imparting knowledge about principles and practices of B & I
UBIFSI.2	BUSINESS LAW	03	Imparting knowledge about laws governing B & I
UBIFSI.3	FINANCIAL	03	Imparting knowledge about financial
	ACCOUNTING-II		practices relating to business.
UBIFSI.4	BUSINESS	03	Giving knowledge to students about letter
	COMMUNICATION-		writing and communication.
	II		-
UBIFSI.5	FOUNDATION	02	Developing the students knowledge with
	COURSE-II		basics of social values.
UBIFSI.6	ORGANIZATIONAL	03	Imparting knowledge about organisational
	BEHAVIOUR		behaviour
UBIFSI.7	QUNANTATIVE	03	How to apply stastical methods while
	METHODS-II		investment and financial management
		YBCBI (SEM III	Í
UBIFSIII.1	FINANCIAL	03	How to do analysis and interpretation of
	MANAGENT-I		financial statements.
UBIFSIII.2	MANAGEMENT	03	How to represent the financial statements
	ACCOUNTING	_	to make policy decisions by managers
UBIFSIII.5	MUTUAL FUND	03	To give training about awareness about
	MANAGEMENT		capital market and investing in the same.
UBIFSIII.6	IT IN BANKING	-03	To develop technological awareness
	AND INSURANCE		among students.

UBIFSIII.7	FOUNDATION	02	Giving the students knowledge of banking
	COURSE-III		and insurance rules and regulations.
UBIFSIII.8	FINANCIAL	03	Students learn about Indian financial
	MARKETS		system and finance
UBIFSIII.9	DIRECT TAXATION	03	To get knowledge about taxation laws and
			where they are applicable
		SEM IV	
UBIFSIV.1	FINANCIAL	03	Giving knowledge about how to apply
	MANAGEMENT-II		financial practices in business.
UBIFSIV.2	COST	03	How to control over the cost and to find the
IIDIDATI 5	ACCOUNTING		cost per unit of production.
UBIFSIV.5	CUSTOMER	03	Imparting information about how to satisfy
	RELATIONSHIP		the customer by giving offers.
LIDIEGIU	MANAGEMENT	02	m 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
UBIFSIV.6	INFORMATION	03	To develop technological knowledge
	TECHNOLOGY IN		among students
	BANKING &		
UBIFSIV.7	INSURANCE-II	02	Import Impoveled as about different types of
UDIFSIV./	FOUNDATION COURSE-IV	02	Impart knowledge about different types of Insurance in market and how it works.
UBIFSIV.8		03	
UBIFSIV.8	CORPORATE AND SECURITIES LAW	03	Give knowledge about corporate laws.
UBIFSIV.9	BUSINESS	03	Imparting knowledge about national
UDIFSIV.9	ECONOMICS-II	03	Imparting knowledge about national income and its impact on growth and
	ECONOMICS-II		development of nation.
	TV	BCBI (SEM	· ·
44301	INTERNATIONAL	04	Imparting knowledge about the impact of
44501	BANKING&FINANC	04	currency difference on the business
	E		currency difference on the business
44302	RESEARCH	04	To inculcate the knowledge of research and
11302	METHODOLOGY	01	how the research work is done.
44303	FINANCIAL	03	How to make financial statements of
11505	REPORTING &	0.5	Banking & Insurance Co. as per regulation
	ANALYSIS		Act.
44304	AUDITING-I	03	Providing the information about Auditing
			of
44305	STRATEGIC	03	Impart knowledge about management
	MANAGEMENT		practices and strategy formulation
44306	FINANCIAL	03	Impart knowledge about services and
	SERVICES		capital market
	MANAGEMENT		1
		Sem VI	
85501	CENTRAL	04	Impart knowledge about the central
	BANKING		banking system in India and its role
85502	SECURITY AND	03	Impart knowledge about how to do
	PORTFOLIO		practical analysis of securities before
	MANAGEMENT		investment is done by investors
85503	AUDITING-II	03	Imparting knowledge about accountants,
			professionalism, ethics, rules and
			regulations relating to auditing.
85504	HUMAN RESOURCE	03	Imparting knowledge about human
	MANAGEMENT		resource practices and the challenging role

			of HR manager
85505	TURNAROUND	03	How to recover sick company by different
	MANAGEMENT		methods
UBIFSVI.8	PROJECT WORK-I	04	Develop Research abilities

DEPARTMENT OF BFM

• Programme Specific Outcomes:

After completing the programme B.Com. (Financial Markets), the student should be able to:

- PSO1: Acquire skills needed to develop and simulate live market conditions, trading, and investment software so that they are market-ready.
- PSO2: Understand the field of Financial Market by way of interaction, projects, presentations, industrial visits, practical training, job orientation, and placements.
- PSO3: Aspired to make a career in the ever-evolving and growing field of the Financial Market.
- PSO4: Perceive higher professional education and research work related to Financial Market

	FYBFM SEM-I					
Sr.	Sub. Code	Nomenclature	Credit	Course outcome		
1	UFMFSI.1	Financial Accounting – I	point 3	To familiarize the students with the basic accounting principles and techniques of preparing and presenting the accounts This course provides the underlying framework & concepts of financial accounting, in the context of how accounting fits into overall business environment of contemporary society		
2	UFMFSI.2	Introduction to Financial System	3	 To explore knowledge about Financial System. To understand various avenues of investments. 		
3	UFMFSI.3	Business Mathematics	3	 This course prepares students to learn to apply commonly used mathematical concepts and statistical methods in business contexts and how to interpret analyses performed by others To equip the student with a broad based knowledge of mathematics with emphasis on business application 		
4	UFMFSI.4	Business Communication – I	3	1) Get exposure to business writing, preparation of reports and presentations. 2) To develop basic communication skills in the students and enable them to communicate appropriate & responsibly in the corporate and social world		

5	UFMFSI.5.1	Foundation	2	1) To sensitize the students regarding
	01 WII 51.5.1	Course – I	2	numerous social issues
		Course – I		2) The course deals with creating basic
				,
				ϵ
				regarding various social issues ranging
				from gender, religion, caste, social
	LIEMECI C	Daratara	3	justice etc.
6	UFMFSI.6	Business	3	1) To understand how internal and
		Environment		external environment affecting
				business activities.
				2) To know about importance of business
7	LIEMECI 7	Daratara	2	components.
7	UFMFSI.7	Business Economics – I	3	1. To have a grasp over the General
		Economics – 1		Principles of Economics
				2. To prepare students to apply the
				various theories and principles of
				Economics in Business and
				Commercial Environments
		ī	 FYBFM S	
Sr.	Sub. Code	Nomenclature	Credit	Course outcome
No.	Subi Couc	1 (omenetata)	Point	Course outcome
1	UFMFSII.1	Financial	3	1) To provide comprehensive
1		Accounting – II	3	understanding of all aspects relating to
		rice outling in		the presentation of financial statements
				of companies.
				2) This course provides comprehensive
				understanding of corporate accounting
				practices and presentation of financial
				statements as per legal requirements in
				the organizations
2	UFMFSII.2	Principles of	3	1) To introduce the theory and practice of
		Management		management and its development
				phases till date. ¬
				2) To discover, nourish and nurture
				managerial traits and talents among the
				students.
				3) To enable students to learn about
				business management and its
				development
				4) ¬ Inculcating basic management
				principles and application
				5) This course is designed to introduce the
				theory and practice of management&
				business organization
3	UFMFSII.3	Business	3	This course prepares students to learn
		Statistics		to apply commonly used mathematical
				concepts and statistical methods in
				business contexts and how to interpret
				analyses performed by others
				2. Outcomes: To equip the student with a
				broad based knowledge of mathematics
				with emphasis on business application.
	1	İ	Ĩ	with chiphasis on dusiness application.

4	UFMFSII.5.1	Foundation Course – II	2	 To understand human rights To understand concept of liberalization To understand human behaviour Students will be able to understand various concepts and theories of organizational behaviour to apply them in predicting and influencing individual and group behaviour in organizations
5	UFMFSII.4	Business Communication – II	3	 Get exposure to business writing, preparation of reports and presentations. ¬ Get hands on experience of group discussions, personal interview ¬ Basic knowledge of Verbal ability skills to help with competitive exams. Outcomes: To develop advanced communication skills in the students and enable them to communicate appropriately in the corporate and social world
6	UFMFSII.6	Environmental Science	3	 The key issues covered in this course are life supporting resources and role of biodiversity, urbanization and associated problems, sustainable energy resources, environmental protection in Indian legal system, tools for pollution control and striving for a better environment and e- waste and its management. ¬ The students will benefit from this study and practice these in their daily life to make our planet to continue as a safe and healthy place to live in. Outcomes: ¬ The course aims to provide basic environmental awareness and tackle various current issues such as climate change
7	UFMFSII.7	Computer Skills – I	3	 Inculcates computer operating skills Increase knowledge about information technology
	I	S.	YBFM SE	CM-III
Sr. No.	Sub. Code	Nomenclature	Credit Point	Course outcome

1	UFMFSIII.1	Debt Market – I	3	 This course helps to develop the relevant knowledge and understanding of fixed income instruments and interest rate models for students aiming for a career in the fixed income field. The course will provide an overview of the major institutions, organisations and investors, and the recent developments in fixed income, covering both theoretical background and practical implementation. The course will take a closer look at the interdependencies and the roles of the different players in the debt markets.
				 3) In particular, it will examine the role of and the instruments available to the central bank in setting interest rates. 4) The major focus of the course will be on economic intuition and on understanding the products and interrelationships in the fixed income market
2	UFMFSIII.2	Equity Market – I	3	 To learn about basics of capital market. Develop knowledge of primary and secondary market.
3	UFMFSIII.4	Portfolio Management	3	 To gain knowledge of different securities available for investment. To understand the role of portfolio diversification. To know how to measure risk and return of securities.
4	UFMFSIII.6	Business Law-I	3	 This course intends to make the students familiar with the essential laws governing various sectors of our economy. To provide exposure to the students about Business Law To provide them with the fundamental knowledge of the use of Law To understand the various concepts & Acts governing the Indian Judiciary System
5	UFMFSIII.7.1	Foundation Course in Financial Markets FC-III Money Market	2	1) To gain knowledge about Money Markets its instruments and its working 2) Understand the basic principles of Money Market 3) Identify various money market instruments 4) Knowledge about regulatory issues in money market

6	UFMFSIII.8	Management	3	1. This course Provides understanding
		Accounting		about how to measure the performance
				of company.
				2. Helps in understanding the role of
				management accounting
				3. To understand and interpretation of
_				financial performance.
7	UFMFSIII.9	Computer Skills-	3	1. Students able to prepare presentation
		II		and analyze data using excel and other
				tools
				2. Inculcates computer operating skills.
				3. Increase knowledge about information technology
				technology
		S	YBFM SI	L EM-IV
Sr.	Sub. Code	Nomenclature	Credit	Course outcome
No.			point	Course outcome
1	UFMFSIV.1	Debt Market-II	3	1) To learn about fixed income securities.
				2) To gain about valuation of fixed income
				securities.
2	UFMFSIV.2	Equity Market-II	3	1) To understands technical and
				fundamental analysis of equity
				market.
				2) Develop advance knowledge of
				equity market.
3	UFMFSIV.4	Merchant	3	1) To gain knowledge about services
		Banking		provided by merchant banks
				2) To gain knowledge about regulation
4	UFMFSIV.6	Business Law-II	3	related to merchant bank. 1) To understand companies law 2013
4	OTVITSIV.0	Dusiness Law-II	3	2) To gain knowledge about securities
				law
5	UFMFSIV.7.1	Foundation	2	4. Inculcates Forex trading
		Course in		5. Increase knowledge about various
		Financial Market		currencies in forex market.
		FC-IV Foreign		
		Exchange		
		Markets		
6	UFMFSIV.8	Corporate	3	1) To understand importance of finance
		Finance		for corporate.
				2) To learn how to take financial decision
	TIEN AEGUTA O	ъ :	2	with the help of different methods.
7	UFMFSIV.9	Business	3	1) To understand theory and issues of
		Economics-II		International Trade.
				2) To know about the constituents of
				fiscal policy.
		7	TYBFM S	EM-V
Sr.	Sub. Code	Nomenclature	Credit	Course outcome
No.			Point	

1	UFMFSV.1	Marketing of Financial Services	3	 To know role of marketing in financial services. To know the issues in marketing of services. To understand importance of service marketing.
2	UFMFSV.2	Technical Analysis	3	 This course is designed to offer the basic understanding of Technical Analysis. The applicability of Technical analysis from Investment Prospective, its advantage over Fundamental Analysis. The course will acquaint the students with different Charting techniques, indicators and Oscillators. Ability to apply technical analysis to different Asset Classes. Ability to read and analyse- Bar, Line and Candle Stick Charts Ability to analyse the Trend and make investment Decision based on the Chart analysis.
3	UFMFSV.3	Corporate Accounting	3	 To learn about the accounting for redemption of preference shares & debentures. To learn about the incorporation of partnerships into companies.
4	UFMFSV.5	Direct Tax – Income Tax	3	 To understand the provision of determining residential status of individual. To compute taxable income of individuals.

. 5	HEMESU 7	Financial	1	1) This course is designed to offer the
5	UFMFSV.7	Financial Derivatives	4	 This course is designed to offer the fundamental understanding and clear conceptual knowledge of Derivative Dealing. The course will establish a clear understanding about different Derivative products, their Global presence on exchanges and OTC as well, the pricing of derivative products. The course will further enlighten the students on the practical aspect of Trading and settlement of Futures and Options, different entities involved and their roles with Risk management systems. Creates understanding of Derivatives and its applicability. Creates understanding about Derivative trading terminologies and different models. Ability to understand whether a Derivatives contract is overpriced or
				underpriced.
6	UFMFSV.8	Business Ethics and Corporate Governance	4	 To understand the importance of ethics To understand the role of corporate governance
I		Т	VRFM SI	FM-VI
Sr.	Sub. Code		YBFM SI Credit	
Sr. No.	Sub. Code	Nomenclature T	Credit	EM-VI Course outcome
Sr. No.	Sub. Code UFMFSVI.1			Course outcome Understand the stragies of private equity firm. To know about importance of venture
No.		Nomenclature Venture Capital and Private	Credit point	Course outcome 1. Understand the stragies of private equity firm.
No. 1	UFMFSVI.1	Nomenclature Venture Capital and Private Equity Mutual Fund	Credit point 3	1. Understand the stragies of private equity firm. 2. To know about importance of venture capital 1) To learn about the classifications and working of mutual fund. 2) Understand the trading opportunities in
1 2	UFMFSVI.1 UFMFSVI.2	Nomenclature Venture Capital and Private Equity Mutual Fund Management Organisational	Credit point 3	1. Understand the stragies of private equity firm. 2. To know about importance of venture capital 1) To learn about the classifications and working of mutual fund. 2) Understand the trading opportunities in mutual fund. 1) Gain knowledge about different types of personality 2) Understand how to handle stress and
2 3	UFMFSVI.1 UFMFSVI.2 UFMFSVI.3	Nomenclature Venture Capital and Private Equity Mutual Fund Management Organisational Behaviour	Credit point 3 3	1. Understand the stragies of private equity firm. 2. To know about importance of venture capital 1) To learn about the classifications and working of mutual fund. 2) Understand the trading opportunities in mutual fund. 1) Gain knowledge about different types of personality 2) Understand how to handle stress and conflict. 1. To know about how is GST beneficial for the country. 2. To understand what is the need of GST 1) Understand the various trading tools to hedge the risk. 2) To learn how to manage risk
2 3	UFMFSVI.2 UFMFSVI.3 UFMFSVI.5	Venture Capital and Private Equity Mutual Fund Management Organisational Behaviour Indirect Tax — GST	Credit point 3 3	1. Understand the stragies of private equity firm. 2. To know about importance of venture capital 1) To learn about the classifications and working of mutual fund. 2) Understand the trading opportunities in mutual fund. 1) Gain knowledge about different types of personality 2) Understand how to handle stress and conflict. 1. To know about how is GST beneficial for the country. 2. To understand what is the need of GST 1) Understand the various trading tools to hedge the risk.

DEPARTMENT OF BCAF

• Programme Specific Outcomes:

After completing the programme B.Com. (Accounting & Finance), the student should be able to:

- PSO1: Acquire skills needed to develop and simulate financial accounting concepts, cost accounting basics, taxation, management
- PSO2: Understand the field of Financial by way of interaction, projects, presentations, industrial visits, practical training and internships
- PSO3: Aspired to make a career in the finance
- PSO4: Perceive higher professional education and research work related to finance

• Course Outcomes:

FYBAF SEM 1

Course code	Title of the course	Course credit	Course outcome
UA_FFSI.1	Financial Accounting (Elements of Financial Accounting) I	03	Helps in basic concepts of accounts, accounting standards, basics of hire purchase.
UA_FFSI.2	Cost Accounting (Introduction and Element of Cost) I	03	Basic understanding of costs, types of costs, materials, labour and overheads.
UA_FFSI.3	Financial Management (Introduction to Financial Management) I	03	Helps in making investment decisions and raising of funds after considering cost and benefits
UA_FFSI.4	Business Communication I	03	Works towards development of the student with aspects like written correspondence, learning to overcome barriers in communication, listening skills and oral communication, presentation skills, building of confidence, public speaking.
UA_FFSI.5.1	Foundation Course I	02	This course is introduced with the purpose of imparting the importance of values and culture for the development and sustainability of a nation.
UA_FFSI.6	Commerce (Business Environment) I	03	Helps in understanding various aspects associated with business and in starting new venture
UA_FFSI.7	Business Economics I	03	Provides basic concepts of micro economics helps to develop analytical skills useful for students of commerce. It provides insight on production ,demand and cost concepts and behaviours

FYBAF SEM II

Course code	Title of the course	Course credit	Course outcome
UA_FFSII.1	Financial	03	To give overview of specific accounting of branch,
	Accounting		consignment, fire insurance and double entry.
	(Special		

	Accounting Areas) II		
UA_FFSII.2	Auditing (Introduction and Planning) I	03	Provides knowledge of basics in verifying the books of accounts and duties of auditor in the instances of various types of errors and frauds.
UA_FFSII.3	Innovative Financial Services	03	Helps in gaining insights of different financial services that have remained in dim light in the minds of upcoming generation
UA_FFSII.4	Business Communication II	03	This course is more practical based focussing on overall personality development of the student with oral communication, presentation skills, building of confidence, interview skills, and group discussions public speaking.
UA_FFSII.5.1	Foundation Course II	02	The course focuses on making student aware of aspects in practical life regarding Human rights, management of stress, conflicts and impact of globalisation, privatisation and liberalisation
UA_FFSII.6	Business Law (Business Regulatory Framework) I	03	Educates the learner towards the basic laws of the land pertaining to their practical application in the field of commerce. The course is intended to impart basics of Contract Act, Sale Of Goods Act, and Negotiable Instruments Act And Consumer Protection Act, required for a commerce student.
UA_FFSII.7	Business Mathematics	03	The course helps the student develop mathematical skills relating to calculation of ratio and proportion, interest and annuity, shares and mutual funds valuation and also calculation of profit and loss of business.

SYBAF SEM III

Course code	Title of the course	Course	Course outcome
		credit	
UA_FFSIII.1	Financial Accounting	03	It covers basics of partnership accounts,
	(Special Accounting Areas)		amalgamation and conversion of firms, foreign
	III		currency transaction.
UA_FFSIII.2	Cost Accounting (Methods of	03	It covers methods of cost, cost classification,
	Costing) II		cost sheet, contract costing, and process costing.
UA_FFSIII.4	Taxation II (Direct Taxes	03	It covers direct tax, detailed knowledge of heads
	Paper I)		of income, deductions, GTI
UA_FFSIII.6	Information Technology in	03	Provides understanding of various emerging
	Accountancy I		tools and technologies and ease provided to
	-		business due to introduction of electronic
			techniques.
UA_FFSIII.7.1	Foundation Course in	02	The course focuses on the various aspects of
	Commerce (Financial		financial system and its importance in the
	Market Operations) - III		development of an economy. It covers aspects
			regarding all the components of a financial
			system, as well as the contemporary aspects of
			the financial markets.
UA_FFSIII.8	Business Law (Business	03	The course is intended to impart basics of
	Regulatory Framework) II		Partnership Act, LLP Act and Factories Act
			required for a commerce student. Educates the
			learner towards the basic laws of the land

			pertaining to their practical application in the field of commerce.
UA_FFSIII.9	Business Economics II	03	Helps in making economic analysis by providing in-depth knowledge of various aspects of economy like National Income, Demand and Supply, Trade Cycles, Union Budget and more

SYBAF SEM IV

Course code	Title of the course	Course credit	Course outcome
UA_FFSIV.1	Financial Accounting (Special Accounting Areas) IV	03	This gives detailed knowledge related to company accounts, final account of company, redemption, shares, debentures, branches.
UA_FFSIV.2	Management Accounting (Introduction to Management Accounting)	03	Introduces the aspects required by managers in the field of accounts for presentation, tabulation, interpretation and analysis of data for decision making with the help of various tools like, Cash flow analysis, Working capital requirements and Ratio analysis.
UA_FFSIV.4	Taxation III (Direct Taxes II)	03	It covers provisions of TDS, Clubbing, taxation of firm, DTAA
UA_FFSIV.6	Information Technology in Accountancy II	03	Provides understanding of various emerging tools and technologies and ease provided to business due to introduction of electronic techniques.
UA_FFSIV.7.1	Foundation Course in Commerce (Introduction to Management) - IV	02	Provides a deeper outlook of various functions of managing the big sized organisations.
UA_FFSIV.8	Business Law (Company Law) III	03	The course is intended to impart basics of Company's Act 2013 with the objective of helping the learner to know the practical application of the laws in the field of commerce.
UA_FFSIV.9	Research Methodology in Accounting and Finance	03	Provides a base of conducting the research and things to be considered before starting actual research.

TYBAF SEM V

Course code	Title of the course	Course credit	Course outcome
44801	Financial Accounting -V	03	This subject gives an understanding of underwriting of shares debentures, liquidation, internal reconstruction, buy back.
44802	Financial Accounting - VI	03	It covers specific accounting special accounting for banking, insurance company, non banking financial cos, LLP
44803	Cost Accounting III	03	Detailed knowledge of methods of costing, operating costing, Uniform costing, process cost, integrated and non integrated system
44804	Financial Management II	03	Provides knowledge of managing the credit sales in company, planning the capital structure and techniques of selecting the best

			project for investment.	
44806	Taxation IV	04	Understanding of basic concepts of GST, Levy, calculation,	
	(Indirect Taxes II)		registration	
44809	Management II	04	The course is intended to impart skills with a view to help	
	(Management		practical applications of the managerial functions and theories	
	Applications)		professed by various management experts. the course covers	
			Production management, Promotion Management, Financial	
			Management and Human Recourse Management.	

TYBAF SEM VI

Course code	Title of the	Course	Course outcome
	course	credit	
85601	Financial	03	Special accounting for electricity cos, mutual fund,
	Accounting - VII		cooperative society, investment accounting.
85602	Cost Accounting	03	Cost techniques, budgetary, marginal, standard costing,
	IV		decision making
85603	Financial	03	Helps in making decisions of dividend policy, analysis of
	Management III		mutual funds and aspects on foreign exchange management.
85604	Taxation V	03	GST and customs act are covered. GST payment, returns,
	(Indirect Taxes		FTP
	III)		
85607	Economics Paper	04	The course imparts knowledge regarding the current scenario
	III (Indian		of the country in terms of sectors contributing to
	Economy)		development and the policies developed by the government
			for the same. It also studies the role of India in various
			international organisations.
UA_FFSVI.8	Project Work II	04	Project is of 100 marks. To give a experience of research or
			internship. Project can be based on research or internship.

DEPARTMENT OF COMMERCE AND BUSINESS MANAGEMENT

• Programme Specific Outcomes:

- PSO1: Ability of understand the concepts used in Business
- PSO2: Develop Managerial skills to be used in Business
- PSO3: Undertake Marketing research to address various Marketing issues
- PSO4: Apply knowledge and set up business thereby generating employment and contributing to economic growth
- PSO5: Awareness about various ethical concerns to be addressed in the business

Course code	Title of the course	Course	Course outcome
FYBCOM	Commerce I & II (Introduction to Business & Service sector)	credit 03	 To familiarize the students with basic concepts of business & Service sector. To develop knowledge and understanding of business & Service sector. To make students aware of current trends in business & service sector.
SYBCOM	Commerce III & IV	03	 To make the learners aware about conceptual knowledge and evolution of Management & Production Management, Inventory Management & Quality Management To provide basic knowledge of Indian Financial System To familiarize the learners about the functions of Management, the recent trends in Management & Finance
	Advertising	03	 To highlight the role of advertising for the success of brands and its importance within the marketing functions of a company. It aims to orient learners towards the practical aspects and techniques of advertising. To lay down foundation for advanced post-graduate courses in advertising.
	Company Secretarial Practice (CSP)	03	 To provide the learners an insight about Company Secretarial Practices. To make the learners understand the role of Company Secretary towards Company's statutory provisions, rules and regulations. To make the learners understand the various aspects of Company Management, meetings and reports
	Field Sales Management (FSM)	03	 To understand the concept of Field Sales Management To make learners aware about practical implications of Sales Management

TYBCOM Commerce V & VI	03	1. To make the learners aware about conceptual
		knowledge and evolution of Marketing & Human Resource Management
		2. To make the learners understand the various
		aspects of Marketing and Human Resource Management
		3. To familiarize the learners about the functions of Management, the recent trends in
		Marketing & Human Resource Management.
		1. To understand the role of Research in making
Marketing Research	03	marketing decisions 2. To understand the process of marketing research
		3. To be familiar with both print and electronic sources of secondary data
		4. To exhibit an understanding of qualitative and
		quantitative research methods and their application to marketing research
		To acquaint students with India's export
		Marketing potential. 2. To make them aware about the practical
Export Marketing	03	significance of Export Marketing. 3. To give them conceptual understanding and
		clarity of terminology used in Export
		Marketing.
		1. To enable the students to obtain the knowledge and skills required in the field of organization and
BM paper	03	management. 2. To enable the students to understand the
Management and		importance of management, management thoughts and its relevance.
organization development		3. To acquaint students with different concepts of
		management like MBO, MBE, MIS etc.
		1. It enables the students to understand the acquisition and use of funds by business
DM . H	02	organization.
BM paper II Financial	03	2. It enables the students to understand the methods and devices used in analysis of financial
Management Sem V and VI		statements, which can be used by firms depending upon the nature of information required.
Som 7 and 11		3. It makes the students to learn ratio analysis by
		which the relationship of items or groups of items in the financial statements are computed,
		determined and presented. 4. Students would become familiar with the
		techniques used in capital budgeting.
		5. They would understand the need and importance of working capital management.
		6. They would understand the basic principles of

costing.	

Business Law

Course Code	Title of the	Course Credit	Course outcome
	Course		
A) SYBCom. III	Business Law	03 per/sem.	 To impart the basic knowledge of different types of contract. To learn the different Negotiable Instruments for transfer of value in terms of money. To know the sale transaction of moveable property.
B) SYBCom. IV	Business Law	03 per/sem.	 To impart knowledge of different types of business like company, partnership and Limited Liability Partnership. To help students to know the various rights of a consumer and redressal of consumer before District Forum, State Commission and National Commission.

HSNC Board's Smt. Chandibai Himathmal Mansukhani College, Ulhasnagar – 3

LEARNING OUTCOMES

FACULTY OF SCIENCE

Link to Syllabus Page on the University of Mumbai Website: https://mu.ac.in/syllabus#1548848029418-4f01e655-210d

(Note: This compilation is based on the information provided by the Head of the Departments.)

DEPARTMENT OF BIOTECHNOLOGY

• Programme Specific Outcomes:

- Learner should be strong in his/her basic concepts of biotechnology as a science both theoretically and practically.
- Should be aware of the history of science, especially biology, which led to the advancement of the subject.
- Learner should have developed an interest in the subject because of the exposure to subject related competitions, seminars, workshops and conferences
- Learner should have a scientific aptitude and a spark to be able to conceive a promising career in science.

Course Outcomes:

BSc BIOTECHNOLOGY

	SEMESTER I						
COURSE CODE	COURSE TITLE	COURSE CREDIT	COURSE OUTCOME				
USBT101	BASIC CHEMISTRY-I	2	For Sem I and Sem II Strengthen the basic concepts in each of the courses				
USBT102	BASIC CHEMISTRY-II	2	i.e. in chemistry, life sciences and Biotechnology (both theoretically				
USBT103	BASIC LIFE SCIENCES-I : BIODIVERSITY AND CELL BIOLOGY	2	and practically) Also imbibe a social responsibility in them by the social topics covered in the societal				
USBT104	BASIC LIFE SCIENCES-II : MICROBIAL TECHNIQUES	2	awareness course				
USBT105	BASIC BIOTECHNOLOGY-I : INTRODUCTION TO BIOTECHNOLOGY	2					
USBT106	BASIC BIOTECHNOLOGY-II : MOLECULAR BIOLOGY	2					
USBT107	SOCIAL AWARENESS	2					
USBTP101 , USBTP102	PRACTICALS OF USBT101, USBT102, USBT103, USBT104, USBT105, AND USBT106	6					
USBTP103	CSB1103, AND CSB1100						
	SEMESTER-II						
COURSE CODE	COURSE TYPE	COURSE CREDITS	COURSE OUTCOME				
USBT201	CHEMISTRY-I : BIOORGANIC CHEMISTRY	2	For Sem I and Sem II Strengthen the basic concepts in each of the courses				
USBT202	CHEMISTRY-II : PHYSICAL CHEMISTRY	2	i.e. in chemistry, life sciences and Biotechnology (both theoretically				
USBT203	LIFE SCIENCES-I : PHYSIOLOGY	2	and practically) Also imbibe a social				

	AND ECOLOGY	
USBT204	LIFE SCIENCES-II : GENETICS	2
USBT205	BIOTECHNOLOGY-I: TISSUE	2
	CULTURE & SCIENTIFIC WRITING	
	AND COMMUNICATION SKILLS	
USBT206	BIOTECHNOLOGY-II:	2
	ENZYMOLOGY, IMMUNOLOGY	
	AND BIOSTATISTICS	
USBT207	GLOBALIZATION, ECOLOGY, AND	2
	SUSTAINABLE DEVELOPMENT	
USBTP201	PRACTICALS OF USBT201,	6
,	USBT202, USBT203, USBT204,	
USBTP202	USBT205, AND USBT206	
,	·	
USBTP203		

responsibility in them by the social topics covered in the societal awareness course

	SEMESTER	III	
COURSE	COURSE TITLE	COURSE	COURSE OUTCOME
CODE	COURSE TITLE	CREDIT	COOKSE OUTCOME
USBT301	BIOPHYSICS	2	For Sem III and Sem IV Introduce students to the
USBT302	APPLIED CHEMISTRY-I	2	concepts of Cell biology and cytogenetics as well as research
USBT303	IMMUNOLOGY	2	methodology, thus imparting the concept of basic research
USBT304	CELL BIOLOGY AND CYTOGENETICS	2	methodology and introducing the fundamentals of research In sem
USBT305	MOLECULAR BIOLOGY	2	IV, the fundamentals of Biostatistics and Bioinformatics
USBT306	BIOPROCESS TECHNOLOGY	2	is introduced. In addition the students are required to
USBT307	RESEARCH METHODOLOGY	2	understand the concept of entrepreneurship, thus setting the
USBTP101	PRACTICALS OF USBT_301 AND USBT_302		platform for future entrepreneurs
USBTP302	PRACTICALS OF USBT_303 AND USBT_304	2	
USBTP303	PRACTICALS OF USBT_305 AND USBT_306	2	
	SEMESTER-	IV	
COURSE CODE	COURSE TITLE	COURSE CREDITS	COURSE OUTCOME
USBT401	BIOCHEMISTRY	2	For Sem III and Sem IV Introduce students to the
USBT402	APPLIED CHEMISTRY-II	2	concepts of Cell biology and cytogenetics as well as research
USBT403	MEDICAL MICROBIOLOGY	2	methodology, thus imparting the concept of basic research
USBT404	EVIRONMENTAL	2	methodology and introducing the

	BIOTECHNOLOGY	
USBT405	BIOSTATISTICS AND	2
	BIOINFORMATICS	
USBT406	MOLECULAR DIAGNOSTICS	2
USBT407	ENTERPRENEURSHIP	2
	DEVELOPMENT	
USBTP401	PERACTICALS OF USBT_401 AND	
	USBT_40	
USBTP402	PERACTICALS OF USBT_403 AND	2
	USBT_404	
USBTP403	PERACTICALS OF USBT_405 AND	2
	USBT_406	

fundamentals of research In sem IV, the fundamentals of Biostatistics and Bioinformatics is introduced. In addition the students are required to understand the concept of entrepreneurship, thus setting the platform for future entrepreneurs

	SEMESTER	V		
COURSE CODE	COURSE TITLE	COURSE CREDIT	COURSE OUTCOME	
USBT501	CELL BIOLOGY 2.5		Sem V: Advanced knowledge on medical microbiology and cell	
USBT502	MEDICAL MICROBIOLOGY & 2.5 INSTRUMENTATION		biology makes students understand the depth of these subjects. Instrumentation,	
USBT503	GENOMES AND MOLECULAR BIOLOGY	genomics and mol. Biological concepts makes them understand the applications of the subject		
USBT504	MARINE BIOTECHNOLOGY	2.5		
USBTP 501 + 502				
USBTP 503 + 504				
APPLIED COMPONENT	BIOSAFETY	2.0		
APPLIED COMPONENT (P)				
SEMESTER-VI				
COURSE CODE	COURSE TITLE	COURSE CREDITS	COURSE OUTCOME	
USBT601	BIOCHEMISTRY 2.5		Sem VI: Students are exposed to advanced topics like	
USBT602	INDUSTRIAL MICROBIOLOGY 2.5		neurochemistry and pharmacology. Topics of	
USBT603	PHARMACOLOGY AND NEUROCHEMISTRY	2.5	industrial microbiology enables the students to understand the	

USBT604	ENVIRONMENTAL	2.5	actual working in industry.
	BIOTECHNOLOGY		Marine biotechnology and
USBTP 601 +	BIOCHEMISTRY & INDUSTRIAL	3.0	agricultural biotech gives them a
602	MICROBIOLOGY		view of applications and vast
USBTP 603 +	PHARMACOLOGY-	3.0	scope of biotechnology. A live
604	NEUROCHEMISTRY AND		project done individually by
	ENVIRONMENTAL		students exposes them to basics
	BIOTECHNOLOGY (50M) +		of how to define a research
	PROJECT WORK (50M)		problem, do literature search,
APPLIED	AGRIBIOTECHNOLOGY	2.0	write a research proposal, design
COMPONENT			and plan experiments, execute
APPLIED	AGRIBIOTECHNOLOGY	2.0	research projects, interpret and
COMPONENT			analyse results and draw
(P)			conclusions based on which
			scientific discussions and
			deliberations can be conducted.
			They also get trained to presents
			their research work in the form
			of a ppt as well as encouraged to
			publish their work in the form of
			posters or papers

MSc BIOTECHNOLOGY:

• Programme Specific Outcomes:

- 1. The learner will be well versed in all the theoretical and practical concepts of Biotechnology.
- 2. The learner would be equipped for their future be it in research or in other areas like enterpreunership.
- 3. The learner will be also well trained in the practical aspects such that his/her knowledge is in vogue with the current trends in the Indian as well as International scenario.
- 4. The learner would be more confident in communication skills and writing as well as be a mature citizen of the nation, capable of independent decision making, with high moral values and ethics. He/she will be a responsible citizen fully aware of the Biosafety norms essential for product, personnel and environment safety and will strive to keep this world a more safer place.

• Course Outcomes:

SEMESTER I

COURSE	TITLE	COURSE	COURSE OUTCOME
CODE		CREDIT	
PSBT 101	Biochemistry	4	Learner will be knowledgeable about various
			physiological and metabolic aspects of the biological
PSBT 102	Immunology	4	macromolecules
PSBT 103	Cell Biology	4	Learner will know about immunological aspects of the
1021100		•	biological system and would have gained knowledge
PSBT 104	Emerging	4	regarding vaccines and its clinical aspects
	technologies and		Learners will be aware of the dynamics and organization
	molecular		of cell, cellular signaling transport and trafficking,
	diagnostics		Cellular processes and genetic instability leading to
Practicals I,		8	cancer
II, III and			Learner will be conversant with emerging technologies of

IV	genomics, proteomics and microscopy, as well as aware
	of modern and contemporary molecular diagnostic
	methods

SEMESTER II

COURSE CODE	TITLE	COURSE CREDIT	COURSE OUTCOME
PSBT 201	Bioinformatics and	4	Learners get exposed to various aspects of
	Biostatistics		Bioinfromatics tools and Biostatistics for
PSBT 202	Plant and Animal	4	analysis of complex biological data. They
	Biotechnology		also learn about applications of
PSBT 203	Bioprocess Engineering and	4	Biotechnology in the agricultural and
	technology		medical fields. The learner gets knowledge
PSBT 204	Intellectual property rights	4	about industrial processes and
	and Bioethics		manufacturing of Biotech product to make
Practicals I,		8	him industry ready. Finally, the IPR an
II, III and			Bioethics makes the learner a complete
ÍV			Biotechnologist by inculcating values,
			morals, ethics and rights for the inventions
			and innovations in this emerging field

SEMESTER III

COURSE CODE	TITLE	COURSE	COURSE OUTCOME
		CREDIT	
PSBT 301	Applied Virology and	4	Learner will be knowledgeable about the
	Microbiology		new emerging diseases and their
PSBT 302	Environmental	4	diagnosis, emerging environmental
	Biotechnology		threats and problems and the solutions
PSBT 303	Biologics and Regulatory	4	Biotechnology will offer. Learners will
	Affairs		also become aware of the most promising
PSBT 304	Molecular Enzymology	4	future of medical field, Biologics and the
	and Enzyme Technology		future of human treatment.
Practicals I, II, III		8	
and IV			

SEMESTER IV

COURSE CODE	TITLE	COURSE	COURSE OUTCOME
		CREDIT	
PSBT 401	Nanobiotechnolog	4	The learner will be well versed with the
	y		applications and diversity of emerging
PSBT 402	OMICS & Systems	4	technologies like nanobiotechnology, omics. The
	Biology		drug discovery and clinical study chapters will
PSBT 403	Drug Discovery &	4	make the learner aware of the process a drug or
	Clinical Study		molecule goes through before it can be licenced,
PSBT 404	Scientific Writing	4	approved and sold in the market. The learner will
	& Food		be thorough in his scientific writing skill and will
	Biotechnology		be with the least amount of training adaptable to
Practicals I, II, III		8	the industry.
and IV			

DEPARTMENT OF BOTANY

• Programme Specific Outcomes:

- To recognize and identify major groups of non-vascular and vascular plants and their phylogenetic relationships.
- To understand the phylogeny of plants and study various systems of classification.
- To explore the morphological, anatomical, embryological details as well as economic importance of algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms.
- To understand physiological processes and adaptations of plants.
- To provide knowledge about environmental factors and natural resources and their importance in sustainable development.
- To be able to carry out phytochemical analysis of plant extracts and application of the isolated compounds for treatment of diseases.
- To be able to deal with all microbes and the technologies for their effective uses in industry and mitigation of environmental concerns.
- To explain how current medicinal practices are often based on indigenous plant knowledge and to get introduced to different perspectives on treating ailments according to ethnomedicinal principles.
- To understand patterns of heredity and variation among individuals, species and populations and apply principles for improvement of quality and yield.
- To be able to apply statistical tools to gain insights into significantly different data from different sources.
- To acquire recently published knowledge in molecular biology, such as rDNA technology; PTC and bioinformatics and their applications.

Course code	Title of the	Course	Course outcome
	course	credit	
USBO501	PLANT	2.5	The students would be able:
	DIVERSITY –	Credits	To gain knowledge about microbial diversity and
	III		techniques for culturing
			and visualization.
			• To understand the salient features of three major
			groups of algae, their life
			cycle patterns with a suitable example; to be able to
			identify them.
			To learn the general characteristics and
			classification of two major groups of
			fungi along with life cycles of each group; to be able
			to identify them.
			To understand the scope and importance of Plant
			Pathology and apply the concepts
			of various control measures of commonly widespread
			plant diseases.
USBO502	PLANT	2.5	The students would be able :
	DIVERSITY –	Credits	• To acquire knowledge of different fossil forms and
	IV		understand their role in evolution.
			To provide plant description, describe the
			morphological and reproductive structures of seven
			families and also identify and classify
			according to Bentham and Hooker's system.

			• To gain proficiency in the use of keys and identification manuals for identifying any unknown plants to species level.
			• To relate anomalies in internal stem structure with
			function and appreciate the salient features of the root
			stem transition zone.
			• To get exposure to pollen study and learn to apply it
			in various fields.
USBO503	FORM AND	2.5	The students would be able :
	FUNCTIONS-	Credits	To acquire knowledge about two important
	II		organelles and molecular mechanisms of translation
			• To understand water relations of plants, inorganic
			and organic solute transport, and apply the knowledge
			to manage mineral nutrition and survival in
			challenging abiotic stresses.
			• To understand succession in plant communities and
			study remediation
			technologies in order to apply knowledge acquired
			for cleanup of polluted sites.
			To get exposure to principles and techniques of
			plant tissue culture and apply these studies for
			improving agriculture and horticulture and to become
			an entrepreneur.
USBO504	CURRENT	2.5	The students would be able:
	TRENDS IN	Credits	• To get exposure to the technique of mushroom
	PLANT		cultivation and explore the possibility of
	SCIENCES – II		entrepreneurship in the same.
			• To learn ethnobotanical principles, applications and
			utilize indigenous plant
			knowledge for the cure of common human diseases and improvement of agriculture.
			To gain knowledge about the latest molecular
			biology techniques for isolation
			and characterization of genes.
			To learn principles and application of commonly
			used techniques in instrumentation.
			To gain proficiency in the monograph study and
			pharmacognostic analysis of six medicinal plants.
USBO601	PLANT	2.5	The students would be able :
2.5 Credits	DIVERSITY –	Credits	To identify, describe and study in detail the life
2.0 0.1001115	III	010010	cycles of three Bryophytes.
			• To and study in detail classification and general
			characters of three classes of Pteridophytes and
			identify as well as describe the life cycles of one
			example from each class.
			To study evolutionary aspects and economic
			utilization of Bryophytes and Pteridophytes.
			• To identify, describe and study in detail the life
			cycles of three Gymnosperms.
USBO602	PLANT	2.5	The students would be able:
	DIVERSITY –	Credits	• To study contribution of Botanical gardens, BSI to
	IV		Angiosperm study and provide plant description,
			describe the morphological and reproductive

	T	ī	
			structures of seven families.
			• To gain exposure to a phylognetic system of
			classification.
			• To gain insight into the anatomical adaptations of
			different ecological plant groups.
			To understand development plant of male and
			female gametophytes, embryonic structure and
			development.
			• To understand the different aspects and importance
			of Biodiversity and utilize
			them for conservation of species so as to prevent
			further loss or extinction of Biodiversity and preserve
			the existing for future generations.
USBO603	FORMS AND	2.5	The students would be able:
0300003	FUNCTION –		• To study various plant biomolecular structures and
		Credits	* *
	III		appreciate the structures, role, functions and
			applications of enzymes.
			• To gain insight into the Nitrogen and plant hormone
			metabolism with applications of the same in
			agriculture and horticulture.
			• To understand principles of genetic mapping,
			mutations and solve problems based on them, gain
			knowledge of various metabolic disorders and their
			implications.
			• To generate and test hypotheses, make observations,
			collect data, analyze and interpret results, derive
			conclusions, and evaluate their significance within a
			broad scientific context, using suitable statistical
			techniques.
USBO604	Current Trends	2.5	The students would be able:
	in Plant	Credits	• To gain insight into recent molecular biology
	Science – II		techniques for DNA analysis and amplification and
			Barcoding techniques and applications therein.
			• To understand and apply tools of Bioinformatics for
			data retrieval and phylogenetic analysis.
			• To learn about the sources of economically
			important plants in the field of fats and oils and apply
			it for extraction, dealing with entrepreneurship in the
			field.
			To gain knowledge and proficiency in preservation
			of post harvest produce and explore the possibility of
			entrepreneurship in the field.

University syllabus link: http://old.mu.ac.in/wp-content/uploads/2016/06/4.26-T.Y.B.Sc_.-University-Botany-Syllabus-2019-20-WORD-updated.pdf

DEPARTMENT OF CHEMISTRY

• Programme Specific Outcomes:

- 1. To infuse in the learner a spirit of inquiry into the fundamental aspects of the various core areas of Chemistry.
- 2. To make the learner capable of solving problems in the various units of the mentioned course
- 3. To give the learner an opportunity to get hands on experience of the various concepts and process in various branches of chemistry

• Course Outcomes:

Class: FYBSC (Chemistry)

Sr.	Semester	Course	Title of Course	Course	Course Outcome
No.		Code		Credit	
		USCH101	Physical,	2	To introduce learner to some basic aspects
			Inorganic,		in various core branches of Chemistry like
			Organic		Physical Chemistry, Inorganic Chemistry &
1			Chemistry		Organic Chemistry
		USCHP1	Chemistry	2	
	Semester		Practicals		
	I	USCH102	Physical,	2	
			Inorganic,		
2			Organic		
			Chemistry		
		USCHP2	Chemistry	2	
			Practicals		
		USCH201	Physical,	2	
3			Inorganic,		
			Organic		
			Chemistry		
		USCHP1	Chemistry	2	
	Semester		Practicals		
	II	USCH202	Physical,	2	
			Inorganic,		
4			Organic		
			Chemistry		
		USCHP2	Chemistry	2	
			Practicals		

Class: SYBSC (Chemistry)

Sr.	Semester	Course	Title of Course	Course	Course Outcome
No.		Code		Credit	
		USCH301	Physical,	2	
			Inorganic,		The syllabus is designed to retain the
			Organic		interest of the serious learner of Chemistry
1	Compaton		Chemistry		as well as be helpful to non-chemistry
	Semester III	USCHP1	Chemistry	1	learners.
	111		Practicals		
		USCH302	Physical,	2	For those students who would want to
			Inorganic,		pursue other branches of science but would
2			Organic		want to acquire a basic appreciation and

			Chemistry		experience of chemistry, a separate
					Analytical Chemistry Paper is designed.
		USCHP2	Chemistry	1	
			Practicals		
		USCH303	Analytical	2	
3			Chemistry		
)		USCHP3	Chemistry	1	
			Practicals		
		USCH401	Physical,	2	
4			Inorganic,		
			Organic		
			Chemistry		
		USCHP1	Chemistry	1	
			Practicals		
		USCH402	Physical,	2	
	Semester		Inorganic,		
5	IV		Organic		
			Chemistry		
		USCHP2	Chemistry	1	
			Practicals		
		USCH403	Analytical	2	
6			Chemistry		
6		USCHP3	Chemistry	1	
			Practicals		

Class: TYBSC (Chemistry)

Sr. No.	Semester	Course Code	Title of Course	Course Credit	Course Outcome
1		USCH501 USCHP01	Physical Chemistry Physical Chemistry	2	This course will provide an insight into some of the fundamental concepts and Principles those are very essential in the study of chemistry. To learn atomic
			Practicals		structure, basics of thermodynamics and the concept of equilibrium.
		USCH502	Inorganic Chemistry	2	The students will get training for systematic qualitative analysis and
2	Semester	USCHP05	Inorganic Chemistry Practicals	2	preparation & estimation of simple inorganic complexes.
	V	USCH503	Organic Chemistry	2	To understand the basic concepts and mechanism in organic chemistry, To
3		USCHP09	Organic Chemistry Practicals	2	know stereochemistry and various possible conformations of organic compounds and how it affects the reaction outcome, To be familiarize with the important photochemical reactions in Organic Chemistry, To learn the separation and purification of an organic mixture by chemical/physical separation methods.

		USCH504	Analytical	2	This course will provide an insight into
4		USCHP13	Chemistry Analytical Chemistry Practicals	2	some of the fundamental concepts and principles of Analytical Chemistry.
5		USACDD501	Drugs and Dyes	2	In this course, the synthesis and usefulness of different dyes is discussed.
		USACDD5P1	Drugs and Dyes Practicals	2	This course further deals with the structural determination, synthesis and uses of some drugs.
		USCH601	Physical Chemistry	2	To get an overview about the structure and properties of solid crystals and liquid
6		USCHP02	Physical Chemistry Practicals	2	crystals, to know the characterisation of crystals using X-Ray diffraction, to learn the important aspects of gaseous state and electrochemistry, to study the principle, instrumentation and applications of diffraction method, fluorescence spectroscopy, atomic spectroscopy & electroanalytical techniques Enable the students to determine the various physical properties using simple instrumental methods like polarimetry, refractometry etc.
7		USCH602	Inorganic Chemistry	2	To understand the applicability of group theory in coordination chemistry, to know
	Semester VI	USCHP06	Inorganic Chemistry Practicals	2	the utility of spectroscopic methods such as IR, Raman, EPR and Mossbauer techniques for the characterisation of inorganic complexes, to understand the photochemistry of inorganic compounds, to introduce the students the emerging field of nanochemistry and its fascinating aspects, to study the acid –base concept in non-aqueous media and reactions in non-aqueous media
		USCH603	Organic Chemistry	2	To get a brief idea about emerging branches in chemistry like supramolecular
8		USCHP10	Organic Chemistry Practicals	2	chemistry, nanochemistry, medicinal chemistry, polymer chemistry & its applications, to learn the principles of green chemistry and to know the various green protocols in organic synthesis, to study the important stereoselective transformations in organic synthesis, to know the basic aspects of natural product chemistry, to get an overview about research process and to gain the ability to apply various research methods
9		USCH604	Analytical	2	To get a basic idea about

		Chemistry		polarography, its theory and
	USCHP14	Analytical	2	applications
		Chemistry		To get basic knowledge about
		Practicals		amperometry and its applications in
				various titration curves
				To get an outline about the types as
				ligands for chelating agents and
				various types of complex metric
				titrations
				To learn about estimation of hardness
				of water through complex metric
				titrations
				To know about the various radio
				analytical methods for learning the
				reaction rates, the age of the materials, to develop tracers for various organs
				and tissues
				 To obtain a detailed knowledge about
				Atomic absorption spectroscopy for
				studying the concentration of various
				elements
				To study about the stages of thermal
				degradation patterns of materials
				using TGA & DTA techniques
	USACDD605	Drugs and	2	In this course, the synthesis and
		Dyes		usefulness of different dyes & drugs is
10	USACDD6P1	Drugs and	2	discussed. This course further deals with
		Dyes		the synthesis of the same.
		Practicals		

Class: M.Sc. (Chemistry) Sem-I & Sem-II

Sr. No.	Semester	Course Code	Title of Course	Course Credit	Course Outcome
		PSCH101	Physical Chemistry		To learn the concepts of the activity coefficients and
1	Samaatan I	PSCHP101	Physical Chemistry Practicals		electrochemical cell. To learn the determination of IR and Raman activity of vibrational modes in non linear molecules To study selection rules for electronic transitions.
	Semester I	PSCH102	Inorganic Chemistry		To learn about bonding in polyacids, inorganic polymers,
2		PSCHP102	Inorganic Chemistry Practicals		formation, factors that affect stability of complexing stereo isomerism of inorganic complexes and crystal field theory and its limitations.
3		PSCH103	Organic Chemistry		To learn the concept

		PSCHP103	Organic	stereochemistry and its
		150111 105	Chemistry	importance
			Practicals	To know what is aliphatic
			Tracticais	nucleophilic substitution
				To understand the various
				types of aliphatic
				nucleophilic substitution
				To learn what is aromatic substitution reaction
				To familiarize the various
				types of aromatic
				substitution reaction and
				their Mechanism
				To understand the concept
				& various types of
				aromaticity
				To learn the stereochemistry substitution and aromaticity
				To learn familiar name
				reactions, to identify the
				stereochemical notation
		PSCH104	Analytical	To learn about several methods
			Chemistry	of analytical techniques.
		PSCHP104	Analytical	This course gives detail
			Chemistry	knowledge to the student about
			Practicals	the analysis of statistical data
				they got through from different
4				chemical experiment. Data
-				analysis is very important for
				modern chemical sciences. This
				course gives a detail knowledge
				to the student about the analysis
				of statistical data they got
				through from different chemical
		DOCTION	D' ' '	experiment.
		PSCH201	Physical	To study the theory of
		DCCHD201	Chemistry	Debye Huckel rule,
		PSCHP201	Physical	limitations and its
			Chemistry	applications.
			Practicals	To know the structure of
				electrical double layers of
				Helmholtz, perrin-guoy-
_	Companie II			chapman.
5	Semester II			To know the adsorption of electrolyte interface.
				To practice the mechanism
				of hydrogen and oxygen
				evolution reaction.
				To study the Butler Volmer
				equation for one step and
				multi step electron transfer
				reaction
	•			

			 To study symmetry elements and symmetry operations To know the orthogonality theorem and its consequences
6	PSCH202 PSCHP202	Inorganic Chemistry Inorganic Chemistry Practicals	 To know the structure and bonding in molecules / ions and predict the structure of molecules / ions. To learn the periodic properties of the different groups of compounds focusing on production methods and application of selected elements and compounds. To know the different definitions of acids / bases and predict the reactions between acids and bases
7	PSCH203 PSCHP203	Organic Chemistry Organic Chemistry Practicals	 To learn the mechanism of addition and elimination reaction, oxidation of methylene to carbonyl, oxidation of aryl methanes, allylic oxidation of olefins, reduction and coupling reaction. To get a clear picture about the nucleophilic groups To learn the addition reactions which are happening through the nucleophiles and electrophiles To learn about the addition reactions between a hetero atom and double bonded carbon compounds To gain knowledge about some specific compounds like Grignard reagents, nitrenes etc To obtain an outline about elimination reactions To learn about some specific examples of elimination reactions

			 To learn the basic mechanism of oxidation in organic compounds To acquire knowledge about the reagents which causes oxidation in various compounds To learn about the two types of reduction reactions like complete reduction and selective reduction To know the reagents that causes selective and complete reduction
8	PSCH204 PSCHP204	Analytical Chemistry Analytical Chemistry Practicals	 To get a basic idea about polarography, its theory and applications To use the polarographic technique for studying the chemical equilibrium and rates of reactions in solutions To get basic knowledge about amperometry and its applications in various titration curves To study about applications of cyclic voltammetry in electron transfer reactions To get an outline about the types as ligands for chelating agents and various types of complex metric titrations To know about the various radio analytical methods for learning the reaction rates, the age of the materials, to develop tracers for various organs and tissues To obtain a detailed knowledge about Atomic absorption spectroscopy for studying the concentration of various elements To study about the stages of thermal degradation patterns of materials using TGA and DTA techniques

Class: M.Sc. (Chemistry)
Sem-III & Sem-IV

Sr. No.	Semester	Course Code	Title of Course	Course Credit	Course Outcome
1		PSCH301 PSCH3P1	Theoretical Organic Chemistry-I Practicals	220	To impart the students a thorough knowledge about the chemistry of some selected functional groups with a view to develop proper aptitude towards the study of organic
		PSCH302	Synthetic organic		 compounds and their reactions. Synthesis of organic reaction
2		PSCH3P2	Chemistry-I Practicals		is itself involves a large part of organic chemistry. This is called synthetic organic chemistry. This is discussed in a simple way for some simple molecule to the students. This includes fragmentation and retrosynthetic analysis and also finding synthon or reactive starting molecule of
		Da citana			a target molecule.
3	Semester III	PSCH303	Natural Products and spectroscopy		 To impart the students thorough idea in the chemistry of carbohydrates, heterocyclic compounds, amino acids, proteins and nucleic acids. To study the fundamentals of terpenoids, alkaloids, vitamins, lipids and steroids. To determine the structure is very important for organic chemist. Various spectroscopic methods are available like NMR, IR, UV absorption spectroscopies are few of them. The students are given a very preliminary idea on in this course.
4		PSCHOEC-I 304	Medical Biogenesis and Green Chemistry		 To understand the connection at the chemical level between all matter and will develop your inquiry based activities to explore best practices related to organic farming and resource management. □ □ To about the advance technology in green

				chemistry
				 □ □ How they impact the human body, to develop your particular interests on the topic. □ □ To describe how Green chemistry and sustainability developments affect society, the environment and economic development □ □ To explain how Green chemistry and sustainability relates to problems of societal concern
5		PSCHOEC-II 305	Biorganic Chemistry	Not Applicable
6		PSCHO401 PSCHO4P1	Theoretical Organic Chemistry-II Practicals	 To enable the students to understand and study Organic reaction mechanisms.
7		PSCHO402 PSCHO4P2	Synthetic organic Chemistry-II Practicals	Synthesis of organic reaction is itself involves a large part of organic chemistry. This is
				called synthetic organic chemistry. This is discussed in a simple way for some simple molecule to the students. This includes fragmentation and retrosynthetic analysis and also finding synthon or reactive starting molecule of a target molecule.
8	Semester IV	PSCHO403	Natural Products and Heterocyclics	 Heterocyclic compounds are very interesting due to their distinct structure and the availability of this kind of heterocyclic structures in medicinal drugs. So the technique of synthesis of heterocyclic compounds is important in the synthesis of different drugs. This course gives the quantitative ideas about the synthesis, properties and uses of such heterocyclic compounds like pyrole, pyridine qunolene, thiophene, furan etc.
9		PSCHOOC-I 404	Intellectual Prop. Rights and Cheminformatics	Not Applicable

10	PSCHOOC- II 404	Research methodology	To get an overview about research process and to gain the ability to apply various research methods and
			techniques.

DEPARTMENT OF COMPUTER SCIENCE

• Programme Specific Outcomes:

At the end of three year Bachelor of Computer Science the students will be able:

- To formulate, to model, to design solutions, procedure and to use software tools to solve real world problems
- To design and develop computer programs/computer -based systems in the areas such as networking, web design, security, cloud computing, IoT, data science and other emerging technologies
- To familiarize with the modern-day trends in industry and research based settings and thereby innovate novel solutions to existing problems.
- To apply concepts, principles, and theories relating to computer science to new situations
- To use current techniques, skills, and tools necessary for computing practice
- To apply standard Software Engineering practices and strategies in real-time software project development
- To pursue higher studies of specialization and to take up technical employment.
- To work independently or collaboratively as an effective tame member on a substantial software project
- To communicate and present their work effectively and coherently
- To display ethical code of conduct in usage of Internet and Cyber systems.
- To engage in independent and life-long learning in the background of rapid changing IT industry.

Course Outcomes:

Course code	Title of the course	Course credit	Course outcome
USCS101	Computer Organization and Design	02	 To learn about how computer systems work and underlying principles To understand the basics of digital electronics needed for computers To understand the basics of instruction set architecture for reduced and complex instruction sets To understand the basics of processor structure and operation To understand how data is transferred between the processor and I/O devices
USCS102	Programming with Python- I	02	 Students should be able to understand the concepts of programming before actually starting to write programs. Students should be able to develop logic for Problem Solving. Students should be made familiar about the basic constructs of programming such as data, operations, conditions, loops, functions etc. Students should be able to apply the problem solving skills using syntactically simple language i.e. Python (version: 3.X or higher)
USCS103	Free and Open- source Software	02	1) Upon completion of this course, students should have a good working knowledge of Open Source ecosystem, its use, impact and

Course	Title of the	Course	Course outcome
code	course	credit	
			importance.2) This course shall help student to learn Open Source methodologies, case studies with real life examples.
USCS104	Database Systems	02	1) Students should be able to evaluate business information problem and find the requirements of a problem in terms of data.
			2) Students should be able to design the database schema with the use of appropriate data types for storage of data in database.
			3) Students should be able to create, manipulate, query and back up the databases.
USCS105	Discrete Mathematics	02	1) To provide overview of theory of discrete objects, starting with relations and partially ordered sets.
			2) Study about recurrence relations, generating function and operations on them.3) Give an understanding of graphs and trees, which are widely used in software.
			4) Provide basic knowledge about models of automata theory and the corresponding formal languages.
USCS106	Descriptive Statistics and Introduction to Probability	02	 Enable students to know descriptive statistical concepts Enable study of probability concept required for Computer students
USCS107	Soft Skills Development	02	 To know about various aspects of soft skills and learn ways to develop personality Understand the importance and type of communication in personal and professional environment. To provide insight into much needed technical and non-technical qualities in career planning. Learn about Leadership, team building, decision making and stress management
USCSP101	Practical of USCS101 + USCS102	02	This module is to complement and achieve the objectives and outcomes outlined in the course USCS101 and USCS102
USCSP102	Practical of USCS103 + USCS104	02	This module is to complement and achieve the objectives and outcomes outlined in the course USCS103 and USCS104
USCSP103	Practical of USCS105 + USCS106	02	This module is to complement and achieve the objectives and outcomes outlined in the course USCS105 and USCS106
USCS201	Programming with C	02	 Students should be able to write, compile and debug programs in C language. Students should be able to use different data types in a computer program. Students should be able to design programs involving decision structures, loops and functions.

Course	Title of the	Course	Course outcome
code	course	credit	
			4) Students should be able to explain the difference between call by value and call by reference
			5) Students should be able to understand the
			dynamics of memory by the use of pointers.
			6) Students should be able to use different data
HIGGGOOO	D '	02	structures and create/update basic data files.
USCS202	Programming with Python – II	02	1) Students should be able to understand how to
	with Python – II		read/write to files using python. 2) Students should be able to catch their own errors
			that happen during execution of programs.
			3) Students should get an introduction to the
			concept of pattern matching.
			4) Students should be made familiar with the
			concepts of GUI controls and designing GUI
			applications.
			5) Students should be able to connect to the
			database to move the data to/from the
			application.6) Students should know how to connect to
			computers, read from URL and send email.
USCS203	Linux	02	1) Upon completion of this course, students should
			have a good working knowledge of Linux, from
			both a graphical and command line perspective,
			allowing them to easily use any Linux
			distribution.
			2) This course shall help student to learn advanced
			subjects in computer science practically. 3) Student shall be able to progress as a Developer
			or Linux System Administrator using the
			acquired skill set.
USCS204	Data Structures	02	1) Learn about Data structures, its types and
			significance in computing
			2) Explore about Abstract Data types and its
			implementation
			3) Ability to program various applications using
USCS205	Calculus	02	different data structure in Python 1) Understanding of Mathematical concepts like
0303203	Carculus	02	limit, continuity, derivative, integration of
			functions.
			2) Ability to appreciate real world applications
			which uses these concepts.
			3) Skill to formulate a problem through
TIGGGGG		2.2	Mathematical modelling and simulation.
USCS206	Statistical	02	1) Enable students to know descriptive statistical
	Methods and Testing of		concepts 2) Enable study of probability concept required for
	Testing of Hypothesis		 Enable study of probability concept required for Computer students
USCS207	Green	02	Learn about green IT can be achieved in and by
2225207	Technologies	\ <u></u>	hardware, software, network communication
	1 1 6 5 2		and data centre operations.
			2) Understand the strategies, frameworks,

Course	Title of the	Course	Course outcome
code	course	credit	
			processes and management of green IT
USCSP201	Practical of USCS201 + USCS202	02	This module is to complement and achieve the objectives and outcomes outlined in the course USCS201 and USCS202
USCSP202	Practical of USCS203 + USCS204	02	This module is to complement and achieve the objectives and outcomes outlined in the course USCS203 and USCS204
USCSP203	Practical of USCS205 + USCS206	02	This module is to complement and achieve the objectives and outcomes outlined in the course USCS205 and USCS206
USCS301	Theory of Computation	02	 Understand Grammar and Languages Learn about Automata theory and its application in Language Design Learn about Turing Machines and Pushdown Automata Understand Linear Bound Automata and its applications
USCS302	Core Java	02	 Object oriented programming concepts using Java. Knowledge of input, its processing and getting suitable output. Understand, design, implement and evaluate classes and applets. Knowledge and implementation of AWT package.
USCS303	Operating System	02	 To provide a understanding of operating system, its structures and functioning Develop and master understanding of algorithms used by operating systems for various purposes.
USCS304	Database Management Systems	02	 Master concepts of stored procedure and triggers and its use. Learn about using PL/SQL for data management Understand concepts and implementations of transaction management and crash recovery
USCS305	Combinatorics and Graph Theory	02	 Appreciate beauty of combinatorics and how combinatorial problems naturally arise in many settings. Understand the combinatorial features in real world situations and Computer Science applications. Apply combinatorial and graph theoretical concepts to understand Computer Science concepts and apply them to solve problems.
USCS306	Physical Computing and IoT Programming	02	 Enable students to understand System On Chip Architectures. Introduction and preparing Raspberry Pi with hardware and installation. Learn physical interfaces and electronics of Raspberry Pi and program them using practical's

Course	Title of the	Course	Course outcome
code	course	credit	4) Learn how to make consumer grade IoT safe
			and secure with proper use of protocols.
USCS307	Web Programming	02	To design valid, well-formed, scalable, and meaningful pages using emerging technologies. Understand the various platforms, devices, display resolutions, viewports, and browsers
			that render websites 3) To develop and implement client-side and server-side scripting language programs. 4) To develop and implement Database Driven
			Websites. 5) Design and apply XML to create a markup language for data and document centric applications.
USCSP301	USCS302+ USCS303+USCS 304	03	This module is to complement and achieve the objectives and outcomes outlined in the course USCS302, USCS303 and USCS304.
USCSP302	USCS305+ USCS306+USCS 307	03	This module is to complement and achieve the objectives and outcomes outlined in the course USCS305, USCS306 and USCS307.
USCS401	Fundamentals of Algorithms	02	 To understand basic principles of algorithm design and why algorithm analysis is important To understand how to implement algorithms in Python To understand how to transform new problems into algorithmic problems with efficient solutions To understand algorithm design techniques for solving different problems.
USCS402	Advanced Java	02	Understand the concepts related to Java Technology Explore and understand use of Java Server Programming
USCS403	Computer Networks	02	 Student will be able to understand the concepts of networking, which are important for them to be known as a 'networking professionals'. Useful to proceed with industrial requirements and International vendor certifications.
USCS404	Software Engineering	02	 Basic knowledge and understanding of the analysis and design of complex systems. Ability to apply software engineering principles and techniques. Ability to develop, maintain and evaluate large-
			scale software systems. 4) To produce efficient, reliable, robust and costeffective software solutions. 5) Ability to perform independent research and analysis.
			6) To communicate and coordinate competently by

Course	Title of the	Course	Course outcome
code	course	credit	
			listening, speaking, reading and writing English for technical and general purposes. 7) Ability to work as an effective member or leader of software engineering teams. 8) To manage time, processes and resources effectively by prioritizing competing demands to achieve personal and team goals Identify and analyzes the common threats in each domain. 9) Ability to understand and meet ethical standards and legal responsibilities.
USCS405	Linear Algebra using Python	02	 Appreciate the relevance of linear algebra in the field of computer science. Understand the concepts through program implementation Instil a computational thinking while learning linear algebra.
USCS406	.Net Technologies	02	Understand the .NET framework Develop a proficiency in the C# programming language Proficiently develop ASP.NET web applications using C# Use ADO.NET for data persistence in a web application
USCS407	Android Developer Fundamentals	02	1) Understand the requirements of Mobile programming environment. 2) Learn about basic methods, tools and techniques for developing Apps 3) Explore and practice App development on Android Platform 4) Develop working prototypes of working systems for various uses in daily lives.
USCSP401	USCS401+ USCS402+USCS 403	03	This module is to complement and achieve the objectives and outcomes outlined in the course USCS401, USCS402 and USCS403.
USCSP402	USCS405+ USCS406+ USCS407	03	This module is to complement and achieve the objectives and outcomes outlined in the course USCS405, USCS406 and USCS407.
USCS501	Artificial Intelligence	02	This course aims to introduce the student to the interesting areas: 1) Artificial Intelligence (AI) and accompanying tools and techniques bring transformational changes in the world. 2) Machines capability to match, and sometimes even surpass human capability, make AI a hot topic in Computer Science. 3) After completion of this course, student should get a clear understanding of AI and different search algorithms used for solving problems. 4) The student should also get acquainted with

Course	Title of the	Course	Course outcome
code	course	credit	
			different learning algorithms and models used in
			machine learning.
USCS502	Linux Server	02	1) Demonstrate proficiency with the Linux
	Administration		command line interface, directory and file
			management techniques, file system
			organization, and tools commonly found on
			most Linux distributions. 2) Effectively operate a Linux system inside of a
			network environment to integrate with existing
			service solutions.
			3) Demonstrate the ability to troubleshoot
			challenging technical problems typically
			encountered when operating and administering
			Linux systems.
			4) Student will be able to develop Linux based
			systems and maintain.
			5) Student will be able to install appropriate
			service on Linux server as per requirement.
			6) Student will have proficiency in Linux server
USCS504	Information and	02	administration. 1) To provide students with knowledge of basic
USCS304	Network Security	02	1) To provide students with knowledge of basic concepts of computer security including
	Network Security		network security and cryptography.
			2) Understand the principles and practices of
			cryptographic techniques.
			3) Understand a variety of generic security threats
			and vulnerabilities, and identify and analyze
			particular security problems for a given
			application.
			4) Understand various protocols for network
			security to protect against the threats in a
USCS505	Architecting of	02	network 1) Discovering the interconnection and integration
030303	Architecting of IoT	02	1) Discovering the interconnection and integration of the physical world.
	101		2) Student should get knowledge of the
			architecture of IoT.
			3) Students are able to design & develop IoT
			Devices.
			4) They should also be aware of the evolving
			world of M2M Communications and IoT
			analytics.
USCS507	Game	02	1) Student should get the understanding of
	Programming		computer Graphics Programming using DirectX
			or OpenGL.
			2) Along with the VR and AR they should also be aware of GPU, newer technologies and
			programming using most important API for
			Windows.
			3) Student should study Graphics and gamming
			concepts with present working style of
			developers where everything remains on internet

Course	Title of the	Course	Course outcome
code	course	credit	
			and they need to review it, understand it, be a part of community and learn.
USCSP501	Practicals of USCS501 + USCS502	02	This module is to complement and achieve the objectives and outcomes outlined in the course USCS501 and USCS502
USCSP502	Practicals of USCS504 + USCS505	02	This module is to complement and achieve the objectives and outcomes outlined in the course USCS504 and USCS505
USCSP503	Project Implementation	01	This course is the crux of the B.Sc.(Computer Science) program as it makes student realize importance of phase-wise work and deadlines to meet the challenges of real-life situation.
USCSP504	Practicals of USCS507	01	This module is to complement and achieve the objectives and outcomes outlined in the course USCS507
USCS601	Wireless Sensor Networks and Mobile Communication	03	 In this era of wireless and adhoc network, connecting different wireless devices and understanding their compatibility is very important. Information is gathered in many different ways from these devices. Student should be able to conceptualize and understand the framework. On completion, will be able to have a firm grip over this very important segment of wireless network. After completion of this course, student should be able to list various applications of wireless sensor networks, describe the concepts, protocols, design, implementation and use of wireless sensor networks. Also implement and evaluate new ideas for solving wireless sensor network design issues.
USCS603	Cyber Forensics	03	1) To understand the procedures for identification, preservation, and extraction of electronic evidence, auditing and investigation of network and host system intrusions, analysis and documentation of information gathered 2) The student will be able to plan and prepare for all stages of an investigation - detection, initial response and management interaction, investigate various media to collect evidence, report them in a way that would be acceptable in the court of law.
USCS605	Digital Image Processing	03	 To study two-dimensional Signals and Systems. To understand image fundamentals and transforms necessary for image processing. To study the image enhancement techniques in spatial and frequency domain. To study image segmentation and image compression techniques.

Course	Title of the	Course	Course outcome
code	course	credit	
			 5) Student should review the fundamental concepts of a digital image processing system. 6) Analyse the images in the frequency domain using various transforms. 7) Evaluate the techniques for image enhancement and image segmentation. 8) Apply various compression techniques. 9) They will be familiar with basic image processing techniques for solving real problems.
USCS606	Data Science	03	 Understanding basic data science concepts. Learning to detect and diagnose common data issues, such as missing values, special values, outliers, inconsistencies, and localization. Making aware of how to address advanced statistical situations, Modeling and Machine Learning. After completion of this course, the students should be able to understand & comprehend the problem; and should be able to define suitable statistical method to be adopted.
USCS607	Ethical Hacking	02	 To understand the ethics, legality, methodologies and techniques of hacking. Student will know to identify security vulnerabilities and weaknesses in the target applications. They will also know to test and exploit systems using various tools and understand the impact of hacking in real time machines.
USCSP601	Practicals of USCS601 + USCS603	02	This module is to complement and achieve the objectives and outcomes outlined in the course USCS601 and USCS603
USCSP602	Practicals of USCS604 + USCS605	02	This module is to complement and achieve the objectives and outcomes outlined in the course USCS604 and USCS605
USCSP603	Project Implementation	01	This course is the crux of the B.Sc.(Computer Science) program as it makes student realize importance of phase-wise work and deadlines to meet the challenges of real-life situation.
USCSP604	Practicals of USCS607	01	This module is to complement and achieve the objectives and outcomes outlined in the course USCS607

DEPARTMENT OF INFORMATION TECHNOLOGY

• Programme Specific Outcomes:

After completing the programme B.Sc. (Information Technology), the student should be able to:

- PSO1: Expertise to developing robust, extensible and highly maintainable technological solutions to simple and complex problems. This programme will enable them to think analytically, creatively and critically to develop such solutions.
- PSO2: Learners acquire knowledge and skills to be employed and excel in IT professional careers and/or to continue their education in IT and/or related post graduate programmes.
- PSO3: The programme will enable learners to be capable of managing complex IT projects with consideration of the human, financial and environmental factors.
- PSO4: Trained to work effectively as a part of a team to achieve a common stated goal.

Course Outcomes:

Course code	Title of the course	Course credit	Course outcome
USIT101, USIT1P2	Imperative Programming, Imperative Programming Practical	2 2	 Identify situations where computational methods and computers would be useful. Given a computational problem, identify and abstract the programming task involved. Approach the programming tasks using techniques learned and writepseudo-code. Choose the right data representation formats based on the requirements of the problem. Use the comparisons and limitations of the various programming constructs and choose the right one for the task in hand. Write the program on a computer, edit, compile, debug, correct, recompile and run it. Identify tasks in which the numerical techniques learned are applicable and apply them to write programs, and hence use computers effectively to solve the task.
USIT102, USIT1P2	Digital Electronics, Digital Electronics Practical	2 2	 Have a thorough understanding of the fundamental concepts and techniques used in digital electronics. To understand and examine the structure of various number systems and its application in digital design. The ability to understand, analyse and design various combinational and sequential circuits. Ability to identify basic requirements for a design application and propose a cost effective solution. The ability to identify and prevent various hazards and timing problems in a digital design. To develop skill to build, and troubleshoot digital circuits.

USIT103, USIT1P3	Operating Systems, Operating Systems Practical	2 2	 Analyse the structure of OS and basic architectural components involved in OS design. Analyse and design the applications to run in parallel either using process or thread models of different OS. Analyse the various device and resource management techniques for timesharing and distributed systems. Understand the Mutual exclusion, Deadlock detection and agreement protocols of Distributed operating system. Interpret the mechanisms adopted for file sharing in distributed Applications Conceptualize the components involved in designing a
USIT104, USIT1P4	Discrete Mathematics, Discrete Mathematics Practical	2 2	 Creating arguments using logical notation and determine if the argument is or is not valid Demonstrate the ability to write and evaluate a proof or outline the basic structure of and give examples of each proof technique described. Understand the basic principles of sets and operations in sets. Prove basic set equalities. Apply counting principles to determine probabilities. Demonstrate an understanding of relations and functions and be able to determine their properties. Determine when a function is 1-1 and "onto". Demonstrate different traversal methods for trees and graphs. Model problems in Computer Science using graphs and trees.
USIT105, USIT1P5	Communication Skills, Communication Skills Practical	2 2	 Students will be able to understand and apply knowledge of human communication and language processes as they occur across various contexts, e.g., interpersonal, intrapersonal, small group, organizational, media, gender, family, intercultural communication, technologically mediated communication, etc. from multiple perspectives. Students will be able to understand and evaluate key theoretical approaches used in the interdisciplinary field of communication. I.e., students will be able to explain major theoretical frameworks, constructs, and concepts for the study of communication and language, summarize the work of central thinkers associated with particular approaches, and begin to evaluate the strengths and weaknesses of their approaches. Students will be able to understand the research methods associated with the study of human communication, and apply at least one of those approaches to the analysis and evaluation of human communication. Students will be able to find, use, and evaluate primary academic writing associated with the communication discipline. Students will develop knowledge, skills, and judgment around human communication that facilitate their ability to work collaboratively with others. Such skills could include

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USIT201, USIT2P1	Object Oriented Programming, Object Oriented Programming Practical	2 2	 communication competencies such as managing conflict, understanding small group processes, active listening, appropriate self-disclosure, etc. Students will be able to communicate effectively orally and in writing. Able to understand the basics of OOP and Object oriented approach to design software. Able to design and Implement programs using classes and objects, operator overloading. Able to specify the types of inheritance and use them in programs. Able to analyse polymorphic behaviour of objects, details of friend function and virtual base class. Able to understand the command line argument and file related operations. Able to understand the class template, function template and template libraries.
USIT202,	Microprocessor	2	Write programs to run on 8086 microprocessor based
USIT2P2	Architecture,	_	systems.
	Microprocessor Architecture	2	Design system using memory chips and peripheral chips for 16 bit 8086 microprocessor.
	Practical		Understand and devise techniques for faster execution of
			instructions, improve speed of operations and enhance performance of microprocessors.
			 Distinguish between RISC and CISC processors.
			Understand multi core processor and its advantages.
USIT203,	Web	2	Implement interactive web page(s) using HTML, CSS and
USIT2P3	Programming, Web	2	JavaScript.
	Programming		 Design a responsive web site using HTML5 and CSS3. Demonstrate Rich Internet Application.
	Practical		 Build Dynamic web site using server side PHP
			Programming and Database connectivity.
			Describe and differentiate different Web Extensions and Web Services.
			Demonstrate web application using Python web
USIT204,	Numerical and	2	Framework-Django.
USIT204, USIT2P4	Statistical	<u> </u>	 Recognize the error in the number generated by the solution. Compute solution of algebraic and transcendental equation
	Methods,	2	by numerical methods like Bisection method and Newton
	Numerical and		Rapshon method.
	Statistical Methods Practical		Apply method of interpolation and extrapolation for
	iviculous i factical		prediction.Recognize elements and variable in statistics and summarize
			qualitative and quantitative data.
			Calculate mean, median and mode for individual series.
			Outline properties of correlation and compute Karl- Pearson's coefficient of correlation.
USIT205,	Green	2	The student shall give an account of the concept green IT.
USIT2P5	Computing,	2	One shall give an account of environmental perspectives on
	Green Computing Practical		IT use. One shall give an account of standards and certifications
	Tuctical		One shall give an account of standards and certifications

			related to sustainable IT products.
			 One shall describe green IT in relation to technology.
			One shall relate green IT to sustainable development.
			One shall evaluate IT use in relation to environmental
			perspectives.
			One shall discuss how the choice of hardware and software
			can facilitate a more sustainable operation.
			One shall use methods and tools to measure energy
			consumption.
			Describe awareness among stakeholders and promote green
			agenda and green initiatives in their working environments
			leading to green movement.
			Identify IT Infrastructure Management and Green Data
			Centre Metrics for software.
			Recognize Objectives of Green Network Protocols for Data
			communication.
			Use Green IT Strategies and metrics for ICT development.
			Illustrate various green IT services and its roles.
			• Use new career opportunities available in IT profession,
			audits and others with special skills such as energy
			efficiency, ethical IT assets disposal, carbon footprint
			estimation, reporting and development of green products,
USIT301,	Python	2	applications and services.
USIT301,	Programming,	$\frac{2}{2}$	• Describe the Numbers, Math functions, Strings, List, Tuples and Dictionaries in Python.
CSITSIT	Python	2	Express different Decision Making statements and
	Programming		Functions.
	Practical		Interpret Object oriented programming in Python.
			Understand and summarize different File handling
			operations.
			Explain how to design GUI Applications in Python and
			evaluate different database operations.
			Design and develop Client Server network applications using
			Python.
USIT302,	Data Structures,	2	Ability to analyse algorithms and algorithm correctness.
USIT3P2	Data Structures	2	Ability to summarize searching and sorting techniques.
	Practical		Ability to describe stack, queue and linked list operation.
			Ability to have knowledge of tree and graphs concepts.
USIT303,	Computer	2	Independently understand basic computer network
USIT3P3	Networks,	2	technology.
	Computer		Understand and explain Data Communications System and
	Networks		its components.
	Practical		Identify the different types of network topologies and
			protocols.
			• Enumerate the layers of the OSI model and TCP/IP. Explain
			the function(s) of each layer. Lightly the different types of network devices and their
			• Identify the different types of network devices and their functions within a network.
			 Understand and building the skills of sub netting and
			routing mechanisms.
			 Familiarity with the basic protocols of computer networks,
			- 1 animality with the basic protocols of computer networks,

			and how they can be used to assist in network design and implementation.
USIT304, USIT3P4	Database Management Systems, Database Management Systems Practical	2 2	 Describe the fundamental elements of relational database management systems. Explain the basic concepts of relational data model, entity-relationship model, relational database design, relational algebra and SQL. Design ER-models to represent simple database application scenarios. Convert the ER-model to relational tables, populate relational database and formulate SQL queries on data. Improve the database design by normalization Familiar with basic database storage structures and access techniques: file and page organizations, indexing methods including B tree, and hashing.
USIT305	Applied Mathematics	2	 To apply the knowledge of matrices to solve the problems. To know and to understand various types of numerical methods. Ability to interpret the mathematical results in physical or practical terms for complex numbers. Inculcate the Habit of Mathematical Thinking through Indeterminate forms and Taylor series expansion. Solve and analyse the Partial derivatives and its application in related field of engineering.
USIT3P5	Mobile Programming Practical	2	Mobile Application Development.
USIT401, USIT4P1	Core Java, Core Java Practical	2 2	 Knowledge of the structure and model of the Java programming language. Use the Java programming language for various programming technologies. Develop software in the Java programming language. Evaluate user requirements for software functionality required to decide whether the Java programming language can meet user requirements. Propose the use of certain technologies by implementing them in the Java programming language to solve the given problem. Choose an engineering approach to solving problems, starting from the acquired knowledge of programming and knowledge of operating systems.
USIT402, USIT4P2	Introduction to Embedded Systems, Introduction to Embedded Systems Practical	2 2	 Understand what is a microcontroller, microcomputer, embedded system. Understand different components of a micro-controller and their interactions. Foster ability to understand the internal architecture and interfacing of different peripheral devices with Microcontrollers. Foster ability to write the programs for microcontroller. Foster ability to understand the role of embedded systems in industry. Foster ability to understand the design concept of embedded

			systems.
			Become familiar with programming environment used to develop embedded systems.
			 Understand key concepts of embedded systems like IO,
			timers, interrupts, interaction with peripheral devices.
			Learn debugging techniques for an embedded system.
USIT403,	Computer	2	• Recognize the error in the number generated by the solution.
USIT4P3	Oriented		Compute solution of algebraic and transcendental equation
	Statistical	2	by numerical methods like Bisection method and Newton
	Techniques, Computer		Raphson method.
	Oriented		Apply method of interpolation and extrapolation for prediction.
	Statistical		 Recognize elements and variable in statistics and summarize
	Techniques		qualitative and quantitative data.
	Practical		Calculate mean, median and mode for individual series.
			Outline properties of correlation and compute Karl-
T 10 TT 10 1	g c		Pearson's coefficient of correlation.
USIT404, USIT4P4	Software Engineering,	$\begin{bmatrix} 2 \\ 2 \end{bmatrix}$	How to apply the software engineering lifecycle by demonstrating competence in communication, planning,
0311414	Software	2	analysis, design, construction, and deployment.
	Engineering		An ability to work in one or more significant application
	Practical		domains.
			Work as an individual and as part of a
			multidisciplinary team to develop and deliver quality
			software.
			• Demonstrate an understanding of and apply current theories, models, and techniques that provide a basis for the software
			lifecycle.
			Demonstrate an ability to use the techniques and
			tools necessary for engineering practice.
			An ability to identify, formulate, and solve complex
			engineering problems by applying principles of engineering, science, and mathematics.
			 An ability to apply engineering design to produce solutions
			that meet specified needs with consideration of public
			health, safety, and welfare, as well as global, cultural,
			social, environmental, and economic factors.
			An ability to communicate effectively with a range of audiences.
			 An ability to recognize ethical and professional
			responsibilities in engineering situations and make informed
			judgments, which must consider the impact of engineering
			solutions in global, economic, environmental, and societal
			contexts.
			An ability to function effectively on a team whose members together provide leadership, create a collaborative and
			inclusive environment, establish goals, plan tasks, and meet
			objectives.
			An ability to develop and conduct appropriate
			experimentation, analyze and interpret data, and use
			engineering judgment to draw conclusions.
	<u> </u>		An ability to acquire and apply new knowledge as needed,

USIT405,	Computer	2	 using appropriate learning strategies. An ability to use the techniques, skills, and modern engineering tools and processes necessary for software engineering practice. An ability to apply software engineering perspective through software design and construction, requirements analysis, verification, and validation, to develop solutions to modern problems such as security, data science, and systems engineering. To list the basic concepts used in computer graphics.
USIT4P5	Graphics and Animation, Computer Graphics and Animation Practical	2	 To implement various algorithms to scan, convert the basic geometrical primitives, transformations, Area filling, clipping. To describe the importance of viewing and projections. To define the fundamentals of animation, virtual reality and its related technologies. To understand a typical graphics pipeline. To design an application with the principles of virtual reality.
USIT501, USIT5P1	Software Project Management, Project Dissertation	2 2	 Identify the different project contexts and suggest an appropriate management strategy. Practice the role of professional ethics in successful software development. Identify and describe the key phases of project management. Determine an appropriate project management approach through an evaluation of the business context and scope of the project.
USIT502 USIT5P2	Internet of Things Practical	2 2	 Interpret the vision of IoT from a global context. Determine the Market perspective of IoT. Compare and Contrast the use of Devices, Gateways and Data Management in IoT. Implement state of the art architecture in IoT. Illustrate the application of IoT in Industrial Automation and identify Real World Design Constraints.
USIT503 USIT5P3	Advanced Web Programming Practical	2 2	 Design, develop and host a user friendly website. Know the usage of APIs. Layout management in line with current trend. Understand the major areas and challenges of web programming. Distinguish web-related technologies. Use advanced topics in HTML5, CSS3, JavaScript. Use a server-side scripting language, PHP. Use a relational DBMS, MySQL. Use PHP to access a MySQL database. Design and implement typical static web pages and interactive web applications, dynamic web applications, web applications that use asynchronous communication, secure 3-tier data-driven web applications.
USIT505 USIT5P5	Linux System Administration Practical	2 2	 Demonstrate knowledge of the role and responsibilities of a Unix system administrator. Install and configure the Linux operating system.

			 Manage the resources and security of a computer running Linux at a basic level. Make effective use of Unix utilities, and scripting languages. Configure and manage simple TCP/IP network services on a Linux system.
USIT506 USIT5P6	Enterprise Java practical	2 2	 Understand OOPs concepts, Java programming constructs and JVM and byte codes. Able to write Simple java programs using Classes, Inheritance, Exception handling and applets. Develop programs using thread concepts and swings Develop simple Java applications with JDBC connectivity. Demonstrate the advanced J2EE concepts using Servlets, Java RMI and EJB. Understand, analyze and apply the role of languages like HTML, DHTML, CSS, XML, Javascript, VBScript, ASP, PHP and protocols in the workings of the web and web applications Analyze a web project and identify its elements and attributes in comparison to traditional projects. Understand, analyze and create web pages using HTML, DHTML and Cascading Styles sheets. Understand, analyze and build dynamic web pages using JavaScript and VBScript (client side programming). Understand, analyze and build interactive web applications. Understand, analyze and build web applications using PHP. Understand, analyze and create XML documents and XML Schema.
USIT601	Software Quality Assurance	2 2	 The student will be able to identify benefits of and the needs to enforce software quality. The students will be able to differentiate between quality control, quality management and quality assurance. The students will be able to discuss the different components of SQA system. The students will be able to discuss different software quality factors models. The students will be able to understand the rational for the SE code of ethics and discuss them. The student will be able to understand and discuss the benefits, needs and techniques of software reviews, software testing, configuration management and software metrics. The students will be able to understand and discuss the needs for software process assessment and improvement and discuss the main SPI models: CMMI, ISO 15504 as well as process model ISO 12207. The students will be able to initiate an assessment process.
USIT602 USIT6P2	Security in Computing Practical	2 2	 To master information security governance, and related legal and regulatory issues. To be familiar with how threats to an organization are discovered, analysed, and dealt. To be familiar with network security threats and countermeasures. To be familiar with network security designs using available

USIT603 USIT603 Business USIT603 Business USIT604 Practical Business USIT605 Business USIT606 Business USIT606 Business USIT607 Business USIT607 Business USIT608 Business USIT609 Cyber Laws Business Usitable was and read was analytic decision and creation and creation of GIS career options and how to pursue them. USIT607 Cyber Laws Business Usitable was apply diverse viewpoints to tethical dilemmas in the Usiness and procession of Computing Comp				secure solutions (such as PGP, SSL, IPSec, etc.
USIT603 USIT603 USIT603 USIT603 USIT603 USIT603 USIT603 USIT603 USIT604 USIT605 UTIAL A BABBER A B				· · · · · · · · · · · · · · · · · · ·
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USIT603 USIT693 USIT694 USIT694 USIT695 USIT695 USIT696 USIT696 USIT696 USIT696 USIT697 USIT698 USIT698 USIT698 USIT698 USIT699 USIT69				_
USIT693 Intelligence Practical 2	USIT603	Rusiness	2	
DSS, data analytics and BI. List the definitions, concepts, and architectures of data warehousing. Demonstrate the impact of business reporting, information visualization, and dashboards. Explain data mining, neural networks, support vector machines, text analytics, text mining, sentiment analysis, web mining, web analytics, social analytics, social network analysis. Outline the definitions, concepts, and enabling technologies of big data analytics. Apply big data technologies in business intelligence using geospatial data, location-based analytics, social networking, Web 2.0, reality mining, and cloud computing. Identify the major ethical and legal issues of analytics. Describe how analytics are powering consumer applications and creating a new opportunity for entrepreneurship for analytics. Effectively communicate course work in writing and oral presentation. USIT604 USIT604 USIT604 Principles of 2 Have a basic, practical understanding of GIS concepts, techniques and real world applications. Have an understanding of the technical language of GIS. who how GIS is utilized in the larger context of business needs and IT strategies. Understand the basic concepts of geography necessary to efficiently and accurately use GIS technology. Understand basic GIS data concepts. Have an ablity to perform basic GIS analysis of concepts. Have analytic accurately use GIS technology. Have an understanding of GIS and its relationship to mapping software development. Have an understanding of GIS and its relationship to mapping software development. Have an understanding of GIS career options and how to pursue them. Students identify and analyse statutory, regulatory, constitutional, and organizational laws that affect the information technology professional.		Intelligence		support: decision support systems (DSS), data analytics and business intelligence (BI).
warehousing. Demonstrate the impact of business reporting, information visualization, and dashboards. Explain data mining, neural networks, support vector machines, text analytics, text mining, sentiment analysis, web mining, web analytics, social analytics, social network analysis. Outline the definitions, concepts, and enabling technologies of big data analytics. Apply big data technologies in business intelligence using geospatial data, location-based analytics, social networking, Web 2.0, reality mining, and cloud computing. Identify the major ethical and legal issues of analytics. Describe how analytics are powering consumer applications and creating a new opportunity for entrepreneurship for analytics. Effectively communicate course work in writing and oral presentation. Have a basic, practical understanding of GIS concepts, techniques and real world applications. Have an understanding of the technical language of GIS. Know how GIS is utilized in the larger context of business needs and IT strategies. Understand the basic concepts of geography necessary to efficiently and accurately use GIS technology. Understand the basic concepts of geography necessary to efficiently and accurately use GIS technology. Understand the basic concepts of geography necessary to efficiently and accurately use GIS technology. Have an analytics, social natlytics, social networking, web 2.0, reality mining, and cloud computing. Have an understanding of GIS analysis of concepts. Have an understanding of GIS and its relationship to mapping software development. Have an understanding of GIS career options and how to pursue them. USIT607 Cyber Laws 2 Students identify and analyse statutory, regulatory, constitutional, and organizational laws that affect the information technology professional. Students locate and apply case law and common law to current legal dilemmas in the technology field.				DSS, data analytics and BI.
visualization, and dashboards. Explain data mining, neural networks, support vector machines, text analytics, text mining, sentiment analysis, web mining, web analytics, social analytics, social network analysis. Outline the definitions, concepts, and enabling technologies of big data analytics. Apply big data technologies in business intelligence using geospatial data, location-based analytics, social networking, Web 2.0, reality mining, and cloud computing. Identify the major ethical and legal issues of analytics. Describe how analytics are powering consumer applications and creating a new opportunity for entrepreneurship for analytics. Effectively communicate course work in writing and oral presentation. Systems Practical Principles of 2 have a basic, practical understanding of GIS concepts, techniques and real world applications. Have an understanding of the technical language of GIS. Know how GIS is utilized in the larger context of business needs and IT strategies. Understand the basic concepts of geography necessary to efficiently and accurately use GIS technology. Understand basic GIS data concepts. Have an ability to perform basic GIS analysis of concepts, thave an appracial experience using basic GIS tools. Have an understanding of GIS and its relationship to mapping software development. Have an appreciation of GIS and its relationship to mapping software development. Have an appreciation of GIS career options and how to pursue them. USIT607 Cyber Laws 2 Students identify and analyse statutory, regulatory, constitutional, and organizational laws that affect the information technology professional. Students locate and apply case law and common law to current legal dilemmas in the technology field.				warehousing.
machines, text analytics, text mining, sentiment analysis, web mining, web analytics, social analytics, social network analysis. Outline the definitions, concepts, and enabling technologies of big data analytics. Apply big data technologies in business intelligence using geospatial data, location-based analytics, social networking, Web 2.0, reality mining, and cloud computing. Identify the major ethical and legal issues of analytics. Describe how analytics are powering consumer applications and creating a new opportunity for entrepreneurship for analytics. Effectively communicate course work in writing and oral presentation. USIT604 USIT604 USIT604 USIT604 USIT605 Principles of Geographic Information Systems Practical Fractical Principles of Geographic Information Systems Practical Understand the basic, practical understanding of GIS concepts, techniques and real world applications. Have an understanding of the technical language of GIS. Know how GIS is utilized in the larger context of business needs and IT strategies. Understand the basic concepts of geography necessary to efficiently and accurately use GIS technology. Understand basic GIS data concepts. Have an ability to perform basic GIS analysis of concepts. Have an understanding of GIS and its relationship to mapping software development. Have an understanding of GIS and its relationship to mapping software development. Have an appreciation of GIS career options and how to pursue them. USIT607 Cyber Laws 2 Students identify and analyse statutory, regulatory, constitutional, and organizational laws that affect the information technology professional. Students locate and apply case law and common law to current legal dilemmas in the technology field.				<u> </u>
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current legal dilemmas in the technology field.				
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• Students apply diverse viewpoints to ethical dilemmas in the				1
information technology field and recommend appropriate actions.				information technology field and recommend appropriate
 Students distinguish enforceable contracts from non- 				

			enforceable contracts.Students demonstrate leadership and teamwork.
USIT6P1	Project Implementation	2	Application of knowledge to develop real time applications.
USIT6P6 USIT6P6	Advanced Mobile Programming	2 2	Mobile Application Development.

DEPARTMENT OF MATHEMATICS

• Programme Specific Outcomes:

- Enabling students to develop positive attitude towards mathematics as an interesting and valuable subject
- Enhancing students' overall development and to equip them with mathematical modeling,
- abilities, problem solving skills, creative talent and power of communication.
- Acquire good knowledge and understanding in advanced areas of mathematics and physics.

• Course Outcomes:

Semester	Course	Course Outcomes
I and II	Calculus I and II	 This course gives introduction to basic concepts of Analysis with rigor and prepares students to study further courses in Analysis. Formal proofs are given lot of emphasis in this course which also enhances understanding of the subject of Mathematics as a whole. The portion on first order, first degree differentials prepares learner to get solutions of so many kinds of problems in all subjects of Science and also prepares learner for further studies of differential equations and related fields.
I and II	Algebra I and Discrete Mathematics	 This course gives expositions to number systems (Natural Numbers & Integers), like divisibility and prime numbers and their properties. These topics later find use in advanced subjects like cryptography and its uses in cyber security and such related fields.
III	Calculus III	 Students will be able to prove convergence and divergence of a sequence in two, three in general in n dimension. Students will be able to compute limits of a vector valued multivariable functions and decide continuity of them. Students will be able to check differentiability of a multivariable function in terms of linear transformation, also can approximate functions by means of tangent planes. Students will be able to approximate multivariable functions by means of polynomials, also can check local maxima, minima. They will also be able to find constrained maxima.
IV	Multivariable Calculus I	 Students will be able to understand theoretical aspects of Riemann integration and can prove standard theorems with their applications. Students will be able to understand integration as an opposite process of derivatives. Students will be able to evaluate improper integrals of type I and type II. Students will be able to prove identities related to beta and gamma functions. As an application of Riemann integration, students will be able to compute surface area of a surface and volume of solid region in three dimension.
III	Linear Algebra I	 Students will be able to solve system of homogeneous and non homogeneous system of linear equations using Gaussian elimination method and Gauss Jordan Elimination method Students will be able to find inverse of a matrix using elementary

IV	Linear Algebra II	 Students will be able to express the given invertible matrix as a product of elementary matrices Students will understand the concept of vector spaces, subspaces and quotient space. Students will be able to compute the basis for the given vector space and find its dimension Students will be able to compute the determinant of given matrix using Laplace Expansion and permutation. Students will be able to compute row space, column space and rank of the given matrix Students will be able to identify when the non homogeneous system of linear equations have no solution or unique solution or infinitely many solutions Students will be able to understand the concept of linear transformation and its elementary properties Students will establish one to one correspondence between linear transformation and matrices for a fixed ordered basis Students will be able to prove Rank-Nullity Theorem Students will learn properties of associated matrix and effect of change of basis Students will prove the equivalence of rank of linear transformation and its associated matrix Students will be introduced to inner product space and norm associated to inner product Students will be able to prove Cauchy Schwarz Inequality, triangle Inequality and Pythagoras Theorem. Students will learn to compute angle between two vectors hence can test orthogonality of vectors Students will learn some geometric Applications of inner product space in R² Students will be introduced to orthogonal sets, orthonormal sets, orthogonalization process to find orthogonal basis of a finite dimensional Inner product space. Students will learn about orthogonal complement, orthogonal
III	Ordinary Differential Equations	 decomposition and orthogonal projection solve simple differential equations and to form equations between two variables, where a differential equation is available. apply differential equations in solving problems related to population growth, electric circuits and radioactive decay. get ideas about the higher order differential equations, converting higher order de to system of first order de and then solving the same.
IV	Statistical Methods and their Applications	 Students will be able to understand the basic concepts and the measures related to Central Tendency and Dispersion, such as Mean, Median, Mode, Range, Quartiles, Mean Deviation, Variance and Standard Deviation. Students will be able to get the basic idea of the concepts of Probability and understand various Probability Distributions, such as, Binomial, Poisson, Normal and they will be able to form and test the hypotheses to verify certain claims, statistically.
V	Multivariable Calculus II	In this course students will learn the basic ideas, tools and techniques of integral calculus.

VI	Complex Analysis (Sem VI)	 Use them to solve problems from real-life applications including science and engineering problems involving areas, volumes, centroid, Moments of mass and center of mass Moments of inertia. Examine vector fields and define and evaluate line integrals using the Fundamental Theorem of Line Integrals and Green's Theorem; compute arc length. Students Analyze sequences and series of analytic functions and types of convergence. Students will also be able to evaluate complex contour integrals directly and by the fundamental theorem Apply the Cauchy integral theorem in its various versions, and the Cauchy integral formula They will also be able to represent functions as Taylor, power and Laurent series Classify singularities and poles, find residues and evaluate complex integrals using the residue theorem.
V and VI	Group Theory(Sem V), Ring Theory, (Sem VI)	Students will have a working knowledge of important mathematical concepts in abstract algebra such as definition of a group, order of a finite group and order of an element, rings, Euclidean domain, Principal ideal domain and Unique factorization domain. Students will also understand the connection and transition between previously studied mathematics and more advanced mathematics. The students will actively participate in the transition of important concepts such homomorphisms & isomorphisms from discrete mathematics to advanced abstract mathematics.
V and VI	Topology of metric spaces (Sem V), Topology of metric spaces and real analysis (Sem VI):	• This course introduces students to the idea of metric spaces. It extends the ideas of open sets, closed sets and continuity to the more general setting of metric spaces along with concepts such as compactness and connectedness. Convergence concepts of sequences and series of functions, power series are also dealt with. Formal proofs are given a lot of emphasis in this course. This course serves as a foundation to advanced courses in analysis. Apart from understanding the concepts introduced, the treatment of this course will enable the learner to explain their reasoning about analysis with clarity and rigour.
V	Graph Theory (Sem V: Paper IV-Elective C)	 Upon successful completion of Graph Theory course, a student will be able to: Demonstrate the knowledge of fundamental concepts in graph theory, including properties and characterization of graphs and trees. Describe knowledgeably special classes of graphs that arise frequently in graph theory Describe the concept of isomorphic graphs and isomorphism invariant properties of graphs Describe and apply the relationship between the properties of a matrix representation of a graph and the structure of the underlying graph Demonstrate different types of algorithms including Dijkstra's, BFS, DFS, MST and Huffman coding. Understand the concept of Eulerian graphs and Hamiltonian

		graphs.
		 Describe real-world applications of graph theory.
VI	Graph Theory and Combinatorics (Sem VI: Paper IV - Elective C)	 Understand and apply the basic concepts of graph theory, including colouring of graph, to find chromatic number and chromatic polynomials for graphs Understand the concept of vertex connectivity, edge connectivity in graphs and Whitney's theorem on 2-vertex connected graphs. Derive some properties of planarity and Euler's formula, develop the under-standing of Geometric duals in Planar Graphs Know the applications of graph theory to network flows theory. Understand different applications of system of distinct representative and matching theory. Use permutations and combinations to solve counting problems with sets and multisets. Set up and solve a linear recurrence relation and apply the inclusion/exclusion principle.
I	FyBCom maths and stats	 Compute a generating function and apply them to combinatorial problems. By learning this course, students will be able to grasp the concepts and calculations related to shares, mutual funds and market fluctuations. obtain the basic statistical parameters, like mean, median, mode, variance, standard deviation of data and (based on that) compare two data sets. get basic knowledge and techniques of deciding the best course
		of action, under different conditions, known as states of nature
II	FyBCom maths and stats	 After this course the students will be able to perform the calculations regarding simple and compound interest, annuity, emi and so on! apply techniques of Calculus to problems in Economics find out correlation between two variables, for which no definite (mathematical) relation may be known.
		obtain regression equation, between the two variables.

DEPARTMENT OF MICROBIOLOGY

• Program Specific Outcomes:

- Training the students with basic skill sets in Microbiology
- Making the students apt for Post graduate Diploma & Degree Course
- Making the student competent for jobs in market.

Course Outcomes:

	FYBSC	
Course code	Title of the course	Course credit
USMB101	Fundamentals of microbiology	3
USMB102	Basic techniques in microbiology.	3
USMB201	Basics of microbiology.	3
USMB 202	Exploring microbiology.	3

Course outcome

FYBSc Microbiology - Microbiology is restructure according to the CBCS pattern for its implementation from 2016-2017. While earlier revision of the syllabus took care of balancing both the basic techniques and some of the advance techniques (as remaining will be introduced phase wise at S.Y.B.Sc. and T.Y.B.Sc level) in Microbiology, the present revision is related to restructuring of syllabus as per CBCS pattern. The concepts of Biosafety, Validation, Calibration and SOPs have been introduced to make the learners aware about:-i. The biological hazards and safety measures ii. Importance of Validation and Calibration of Scientific equipment in industries and laboratories. iii. Writing of SOPs for instruments and their importance at work. The unique chemistry of living systems results in large part from the remarkable and diverse properties of Biomacromolecules. Macromolecules from each of the four major classes may act individually in a specific cellular process, where as others associate with one another to form supramolecular structures. All of these structures are involved in important cellular processes. Since the arrival of information technology, biochemistry has evolved from an interdisciplinary role to becoming a core program for a new generation of interdisciplinary courses such as bioinformatics and computational biochemistry. Hence the module of macromolecules has been included in the revised syllabus to teach students the structure and function of biomolecules at an entry level with an objective to raise the student's awareness of the applicability of microcomputers in biochemistry as they go to the higher classes.

SYBSC					
Course code	Title of the course	Course credit			
USMB301	Biomolecules and Microbial taxonomy	3			
USMB302	Environmental Microbiology	3			
USMB303	Introduction to Clinical Microbiology	3			
USMB401	Metabolism & Basic Analytical Techniques	3			
USMB 402	Applied Microbiology	3			
USMB403	Soft Skills ,Advances & Applications Of	3			
	Microbiology				

Course outcome

SYBSc Microbiology: Objective is to create a curriculum where students are given a chance to learn course of their choice from other subjects, giving them opportunity to choose from a bouquet of Science Courses relevant to their curiosity and future career goal. The process was initiated with restructuring of FYBSc syllabus according to this CBCS pattern and its implementation in year 2016-2017. As a continuation of this theme, the restructured syllabus of SYBSc is prepared as per the CBCS pattern. As a part of this theme, in SYBSc Paper III in all subjects is available to any BSc student irrespective of their subject combination. So students of any subject interested in Microbiology can opt for Paper III of

Microbiology course. Likewise Microbiology Students can opt for Paper III of any subject available in their College. Since this paper is open to all students, 2 options are created to provide diversity of applied topics and choice for student and students can select any one option (provided it is offered by their college) relevant to their curiosity and future career goal.

TYBSC	
Title of the course	Course credit
Microbial Genetics	4
Medical Microbiology & Immunology: Part - I	4
Microbial Biochemistry: Part –I	4
Bioprocess Technology: Part - I	4
DNA Technology, Bioinformatics & Virology	4
Medical Microbiology & Immunology: Part - II	4
Microbial Biochemistry: Part –II	4
Bioprocess Technology: Part – Iiz 1a`	4
	Title of the course Microbial Genetics Medical Microbiology & Immunology: Part - I Microbial Biochemistry: Part –I Bioprocess Technology: Part - I DNA Technology, Bioinformatics & Virology Medical Microbiology & Immunology: Part - II Microbial Biochemistry: Part –II

Course code	Title of the	Course credit	Course outcome
USMB-501	Microbial Genetics	2.5 Credits	The learner will understand the sequence of events, mechanism, enzymes and proteins involved in
			replication of DNA in prokaryotes and eukaryotes. The
			student will know the central dogma of biology its two- step transcription and translation, maturation of RNA.
			The learner will know the concept of mutation, its
			types, causes and their effects.
USMB-502	Medical	2.5 Credits	The students should be able to give details of the
	Microbiology and		virulence factors and other features of the pathogen and
	Immunology		Correlate these virulence factors with the pathogenesis and clinical features of the disease Also they are
	Part - I		Conceptualize how the adaptive immune responses
			coordinate to fight invading pathogens and the organs
			and tissue involved Students are also able to Correlate
			the structure & functions of immunoglobulin.
USMB-503	Microbial	2.5 Credits	Understand the various antigen –antibody reactions The students should be able to understand the
OSMB-303	Biochemistry	2.5 Cicdits	architecture of the membrane and how solute is
	Part - I		transported inside the cell. Also, they can explain the
			electron transport chains in prokaryotes and
			mitochondria and understand the mechanism of ATP
			synthesis. Students can discuss the experimental aspect
			of studying catabolism and anabolism and the various pathways for the breakdown of carbohydrates along
			with reactions in amphibolic pathways. Students can
			apply the concepts of energetics and catabolism in
			biodegradation of various substrates.
USMB-504	Bioprocess	2.5 Credits	The students should be able to describe the applications
	Technology		of microbes and its strain improvement in Industrial
	Part – I		Microbiology. They can apply kinetic formula to
			determine growth and productivity parameters of batch continuous, fed batch and solid substrate fermentations.
			Students can design media, growth conditions and
			Students can design media, growth conditions and

			techniques for producing and recovering different types of products of commercial value. Also, learner will be well –versed with the containment and levels of containment.
USMB-601	rDNA Technology, Bioinformatics & Virology	2.5 Credits	r DNA technology module will make the student understand the methods to construct recombinant DNA molecules, also know the tools required like vectors, restriction enzymes etc. The learner will know about applications of r DNA technology, through bioinformatics the student will understand the use of databases and software tools for understanding biological data. The student will know about gene expression in prokaryotes, operon as a unit of gene regulation, regulation of gene expression in prokaryotes and bacteriophages. The student will also understand about general structure, life cycle and classification of viruses. The learner will understand the basic structure and life cycle of different viruses and their cultivation.
USMB-602	Medical Microbiology and Immunology Part - II	2.5 Credits	Students are able to give details of the virulence factors and morphological and cultural features of the pathogen. They correlate these virulence factors with the pathogenesis and clinical features of the disease. Students understand the structure and role of T and B cells in generating adaptive immunity and thereby study effector responses in both Humoral & Cell Mediated Immunity Acquire an understanding of the role of immune system in disease. Students can apply the concept of immunity to prevention of disease by development of vaccines.
USMB-603	Medical Microbiology and Immunology Part - II	2.5 Credits	At the end of the course in Microbial Biochemistry, the learner will have an understanding of the following metabolic process and their significance. Students can understand metabolism of Lipids, Fatty acids, Nucleotides and Amino acids also catabolism of Protein and aliphatic hydrocarbons. Regulation of metabolic process at various levels and Metabolism of inorganic molecules with special reference to nitrate and sulfate.
USMB-604	Microbial Biochemistry Part - II	2.5 Credits	Students understand the actual process involved in fermentations of important products. To apply the knowledge of applications of animal and plant tissue culture techniques. Learn the applications of immobilized enzymes in various fields. Understand the working of important instruments used in biochemical analysis and bioassay. Learn the salient features of quality management and regulatory procedures.

DEPARTMENT OF PHYSICS

• Program-Specific Outcomes:

- Learners will attain an understanding of core knowledge in physics related to the main streams viz mechanics, optics, thermodynamics and electronics.
- Learners develop the ability of quantitative problem-solving skills.
- The laboratory practicals make them familiar to various equipment which they can skilfully use to make various working projects.
- Learners will demonstrate written and oral communication skills in communicating physics-related topics.
- Learners will demonstrate an understanding of the impact of physics and science on society.

Course Outcomes:

FYB.Sc.: Physics

Objectives:

- To develop analytical abilities towards real world problems
- To familiarize with current and recent scientific and technological developments
- To enrich knowledge through problem solving, hands on activities, study visits, projects etc.

Course code	Title	Learning Outcomes:	
USPH101	Classical Physics	 Understand Newton's laws and apply them in calculations of the motion of simple systems. Use the free body diagrams to analyze the forces on the object. Understand the concepts of friction and the concepts of elasticity, fluid mechanics and be able to perform calculations using them. Understand the concepts of lens system and interference. Apply the laws of thermodynamics to formulate the relations necessary to analyze a thermodynamic process. Demonstrate quantitative problem solving skills in all the topics covered 	
USPH102	Modern Physics	 Understand nuclear properties and nuclear behavior. Understand the type isotopes and their applications. Demonstrate and understand the quantum mechanical concepts. Demonstrate quantitative problem solving skills in all the topics covered. 	
USPHP1	Practical I	 i) To demonstrate their practical skills. ii) To understand and practice the skills while doing physics practical. iii) To understand the use of apparatus and their use without fear. iv) To correlate their physics theory concepts through practical. v) Understand the concepts of errors and their estimation. 	
USPH201	Mathematical Physics	 Understand the basic mathematical concepts and applications of them in physical situations. Demonstrate quantitative problem solving skills in all the topics 	

		covered.
USPH202	Electricity and Electronics	Not Mentioned in syllabus
USPHP2	Practical II	 i) To understand and practice the skills while doing physics practical. ii) To understand the use of apparatus and their use without fear. iii) To correlate their physics theory concepts through practical. iv) Understand the concepts of errors and their estimation.

SYB.Sc.: Physics

Objective:

- 1. a thorough quantitative and conceptual understanding of the core areas of physics, including mechanics, thermodynamics, quantum mechanics, electronics at a level compatible with graduate programs in physics at peer institutions.
- 2. the ability to analyze and interpret quantitative results, both in the core areas of physics and interdisciplinary areas.
- 3. the ability to use contemporary experimental apparatus and analysis tools to acquire, analyze and interpret scientific data.
- 4. the ability to apply the principles of physics to solve new and unfamiliar problems.
- 5. the ability to communicate scientific results effectively in presentations or posters.

Course code	Title	Learning Outcomes:	
USPH301	Mechanics and thermodynami cs	 i) Understand the concepts of mechanics & properties of matter & to apply them to problems. ii) Comprehend the basic concepts of thermodynamics & its applications in physical situation. iii) Learn about situations in low temperature. iv) Demonstrate tentative problem solving skills in all above areas. 	
USPH302	Vector calculus ,Analog Electronics	 Understand the basic concepts of mathematical physics and their applications in physical situations. Understand the basic laws of electrodynamics and be able to perform calculations using them. Understand the basics of transistor biasing, operational amplifiers, their applications Understand the basic concepts of oscillators and be able to perform calculations using them. Demonstrate quantitative problem solving skill in all the topics covered. 	

USPH303	Applied Physics-I	i) Students will be exposed to contextual real life situations. ii) Students will appreciate the role of Physics in 'interdisciplinary areas related to materials, Bio Physics, Acoustics etc. iii) The learner will understand the scope of the subject in Industry & Research. iv) Experimental learning opportunities will faster creative thinking & a spirit of inquiry.	
USPHP3	Practical course-3 (Group A,B,C and Skill)	 i) Understand &practice the skills while performing experiments. ii) Understand the use of apparatus and their use without fear& hesitation. iii) Correlate the physics theory concepts to practical application. iv) Understand the concept of errors and their estimation. 	
USPH401	Optics and Digital Electronics	 Understand the diffraction and polarization processes and applications of them in physical situations. Understand the applications of interference in design and working of interferometers. Understand the resolving power of different optical instruments. Understand the working of digital circuits Use IC 555 time for various timing applications. Demonstrate quantitative problem solving skills in all the topics covered. 	
USPH402	Quantum Mechanics	 Understand the postulates of quantum mechanics and to understand its importance in explaining significant phenomena in Physics. Demonstrate quantitative problem solving skills in all the topics covered. 	
USPH403	Applied Physics-II	 i) Understand the concepts of mechanics & properties of matter & to apply them to problems. ii) Comprehend the basic concepts of thermodynamics & its applications in physical situation. iii) Learn about situations in low temperature. iv) Demonstrate tentative problem solving skills in all above areas. 	
USPHP4	Practical course -4 (Group A,B,C and Demo)	 i) Understand & practice the skills while performing experiments. ii) Understand the use of apparatus and their use without fear & hesitation. iii) Correlate their physics theory concepts to practical application. iv) Understand the concept of errors and their estimation. 	

TYB.Sc.: Physics

Course code	Title	Learning Outcomes:

USPH501	1. Mathematical Methods in Physics 2.Thermal and Statistical Physics	From this course, the students are expected to learn some mathematical techniques required to understand the physical phenomena at the undergraduate level and get exposure to important ideas of statistical mechanics. The students are expected to be able to solve simple problems in probability, understand the concept of independent events and work with standard continuous distributions. The students will have idea of the functions of complex variables; solve nonhomogeneous differential equations and partial differential equations using simple methods. The units on statistical mechanics would introduce the students to the concept of microstates, Boltzmann distribution and statistical origins of entropy. It is also expected that the student will understand the difference between different statistics, classical as well as quantum.	
USPH502	Solid State Physics	 Understand the basics of crystallography, Electrical properties of metals, Band Theory of solids, demarcation among the types of materials, Semiconductor Physics and Superconductivity. Understand the basic concepts of Fermi probability distribution function, Density of states, conduction in semiconductors and BCS theory of superconductivity. Demonstrate quantitative problem solving skills in all the topics covered. 	
USPH503	Atomic Physics	the application of quantum mechanics in atomic physics the importance of electron spin, symmetric and antisymmetric wave functions and vector atom model Effect of magnetic field on atoms and its application Learn Molecular physics and its applications. This course will be useful to get an insight into spectroscopy.	
USPH504	Electrodynam	1) Understand the laws of electrodynamics and be able to perform calculations using them. 2) Understand Maxwell's electrodynamics and its relation to relativity 3) Understand how optical laws can be derived from electromagnetic principles. 4) Develop quantitative problem solving skills.	
USPH601:	Classical Mechanics	This course will introduce the students to different aspects of classical mechanics. They would understand the kinds of motions that can occur under a central potential and their applications to planetary orbits. The students should also appreciate the effect of moving coordinate system, rectilinear as well as rotating. The students are expected to learn the concepts needed for the important formalism of Lagrange's equations and derive the equations using D'Alembert's principle. They should also be able to solve simple examples using this formalism. The introduction to simple concepts from fluid mechanics and understanding of the dynamics of rigid bodies is also expected. Finally, they should appreciate the drastic effect of adding nonlinear corrections to usual problems of mechanics and nonlinear mechanics can help understand the irregularity we observe around us in nature.	

USPH602:	Electronics	 Understand the basics of semiconductor devices and their applications. Understand the basic concepts of operational amplifier: its prototype and applications as instrumentation amplifier, active filters, comparators and waveform generation. Understand the basic concepts of timing pulse generation and regulated power supplies Understand the basic electronic circuits for universal logic building blocks and basic concepts of digital communication. Develop quantitative problem-solving skills in all the topics covered. 	
USPH603:	Nuclear Physics	Upon successful completion of this course, the student will be able to understand the fundamental principles and concepts governing classical nuclear and particle physics and have a knowledge of their applications interactions of ionizing radiation with matter the key techniques for particle accelerators the physical processes involved in nuclear power generation. Knowledge on elementary particles will help students to understand the fundamental constituents of matter and lay foundation for the understanding of unsolved questions about dark matter, antimatter and other research oriented topics.	
Theory of Relativity failure of the existing theories to expendence of post Lorentz transformation equations are at space and time, Absolutism and refinstein concept of Space and time. 3. Understand the transformation equations are at space and time, and refined the transformation equations are at space and time, and refined to the transformation equations are at space and time, and the transformation equations are at space and time, and the transformation equations are at space and time, and the transformation equations are at space and time, and the transformation equations are at space and time, and the transformation equations are at space and time, and the transformation equations are at space and time, and the transformation equations are at space and time, and the transformation equations are at space and time, and the transformation equations are at space and time. 3. Understand the transformation equations are at space and time, and the transformation equations are at space and time. 4. Solve problems based on length of the transformation equations are at space and time.		 Understand the significance of Michelson Morley experiment and failure of the existing theories to explain the null result Understand the importance of postulates of special relativity, Lorentz transformation equations and how it changed the way we look at space and time, Absolutism and relativity, Common sense versus Einstein concept of Space and time. Understand the transformation equations for: Space and time, velocity, frequency, mass, momentum, force, Energy, Charge and current density, electric and magnetic fields. Solve problems based on length contraction, time dilation, velocity addition, Doppler effect, mass energy relation and resolve paradoxes in relativity like twin paradox etc. 	

DEPARTMENT OF ZOOLOGY

• Program Specific Outcomes:

- Develop interest in the subject of Zoology.
- Gain knowledge of the basic and modern concepts of Zoology through theory practical and field visits.
- Analyse the relationship among animals, plants, microbes and other factors of environment and learn their conservation.
- Develop good laboratory practices and become trained in scientific handling of important instruments.
- Work safely and effectively in the field and in laboratories.
- Students learn the new developments in embryology and its relevance to human.
- Understands the importance of Intellectual property Rights and Ethics
- Broad and deep understanding on environment and influence of man on environment
- Learn the various aspects of life sciences, cell biology, genetics, taxonomy, physiology, applied zoology, general embryology and public health.
- Understands and safely, perform experimental techniques and methods of Physiology, Cell biology, pathology, Genetics, Applied Zoology, Biological techniques, Toxicology, Biochemistry and microtomy.
- Gain knowledge of communicable and non-communicable diseases and nutrition and lifestyle related diseases to improve personal and public health.
- Gain knowledge about research methodologies, data collection, statistical analysis of data, effective communication and skills of problem solving methods
- Gain computation knowledge and understands the applications of various techniques in the field of bioinformatics.
- Expose the learners to the emerging field of research and equip them the various research methodologies.
- Develop research-oriented skills and contributes the knowledge for Nation building.

Course Outcomes:

Course code	Title of the	Course	Course outcome
	course	credit	
USZO101 (Course 1)	Wonders of		 Curiosity will be ignited in the mind
	Animal World,		of learners, to know more about the
http://old.mu.ac.in/wp-content/uploads/2016/06	Biodiversity and	02	fascinating world of animals which would
/4.70 Zoology_fybsc.pdf	its Conservation		enhance their interest and love for the
			subject of Zoology.
			 Learners would appreciate treasure of
			Biodiversity, its importance and hence
			would contribute their best for its
			conservation.
			 Minds of learners would be impulse to
			think differently and would be encouraged
			ipso facto to their original crude ideas from
			the field of biological sciences.

http://old.mu.ac.in/wp-content/uplnads/2016/06//470_Zoology_fybsc.pdf	Instrumentation and Animal Biotechnology	02	 Learners would work safely in the laboratory and avoid occurrence of accidents (mishaps) which will boost their scholastic performance and economy in use of materials/chemicals during practical sessions. Learners would understand recent advances in the subject and their applications for the betterment of mankind; and that the young minds would be tuned to think out of the box. Students will be skilled to select and operate suitable instruments for the studies of different components of Zoology of this course and also of higher classes including
USZO201 (Course 3) http://old.mu.ac.in/wp-content/uploads/2016/06/470_Zoology_fybsc.pdf	Ecology and Wildlife Management	02	 This unit would allow learners to study about nature of animal population, specific factors affecting its growth and its impact on the population of other life form. Learners will grasp the concept of interdependence and interaction of physical, chemical and biological factors in the environment and will lead to better understanding about implications of loss of fauna specifically on human being, erupting spur of desire for conservation of all flora and fauna. Learners would be inspired to choose career options in the field of wild life conservation, research, photography and ecotourism.
USZO202 (Course 4) http://old.mu.ac.in/wp-content/uploads/2016/06/470_Zoology_fybsc.pdf	Nutrition, Public Health and Hygiene	02	 Healthy dietary habits would be inculcated in the life style of learners in order to prevent risk of developing health hazards in younger generation due to faulty eating habits. Promoting optimum conservation of water, encouragement for maintaining adequate personal hygiene, optimum use of electronic gadgets, avoiding addiction, thus facilitating achievement of the goal of healthy young India in true sense. Learners will be able to promptly recognize stress related problems at initial stages and would be able to adopt relevant solutions which would lead to psychologically strong mind set promoting positive attitude important for academics and would be able to acquire knowledge of cause, symptoms and precautions of infectious diseases.

USZO301 (Course 5) http://cld.mu.ac.in/wp-content/uploads/2016/06/4.31- Fnal-Copy S. V. B. ScZoology Syllabus.pdf	Fundamentals of Genetics, Chromosomes and Heredity, Nucleic acids	02	 Learner would comprehend and apply the principles of inheritance to study heredity. Learner will understand the concept of multiple alleles, linkage and crossing over. Learner will comprehend the structure of chromosomes and its types. Learner will understand the mechanisms of sex determination. Learner would be able to correlate the disorders linked to a particular sex chromosome. Learner will understand the importance of nucleic acids as genetic material. Learner would comprehend and appreciate the regulation of gene expressions.
USZO302 (Course 6) http://dd.mu.ac.in/wp-content/uploads/2016/06/4.31- Final-Coop-S-Y-B-Sc-Zoology-Syllabus.cdf	Nutrition and Excretion, Respiration and Circulation, Control and Coordination of Life Processes, Locomotion and Reproduction	02	 Learner would understand the increasing complexity of nutritional, excretory and osmoregulatory physiology in evolutionary hierarchy. Learner would be able to correlate the habit and habitat with nutritional, excretory and osmoregulatory structures. Learner would understand the increasing complexity of respiratory and circulatory physiology in evolutionary hierarchy. Learner will be able to correlate the habit and habitat of animals with respiratory and circulatory organs. Learner would be amazed by various locomotory structures found in the animal kingdom. Learner would be acquainted with various reproductive strategies present in animals.

OE1303 (Course 7A) Elective 1 http://cld.mu.ac.in/wp-content/ucloads/2016/06/431- Fnal-Copys.Y-8-Sc-Zoology-Sylabus.pdf	Ethology, Parasitology, Economic Zoology	02	 Learner would gain insight into different types of animal behaviour and their role in biological adaptations. Learner would be sensitized to the feelings which are instrumental in social behaviour. Learner would understand the general epidemiological aspects of parasites that affect humans and take simple preventive measures for the same. Learner would comprehend the life cycle of specific parasites, the symptoms of the disease and its treatment. Learner would gain knowledge on animals useful to mankind and the means to make the most of it. Learner would learn the modern techniques in animal husbandry. Learner would pursue entrepreneurship as a career.
USZO401 (Course 8) http://old.mu.ac.in/wp-content/ucloads/2016/06/4/31- Final-Copy S. Y. B. Sc. Zoology Syllabus pdf	Origin and Evolution of Life, Population Genetics and Evolution, Scientific Attitude, Methodology, Scientific Writing and Ethics in Scientific Research	02	 Learner will gain insights into the origin of life. Learner will analyse and critically view the different theories of evolution. Learner would understand the forces that cause evolutionary changes in natural populations Learner would comprehend the mechanisms of speciation. Learner will be able to distinguish between microevolution, macroevolution and mega evolution. The learner would develop qualities such as critical thinking and analysis. The learner will imbibe the skills of scientific communication and he/she will understand the ethical aspects of research.
USZO402 (Course 9) http://old.mu.ac.in/wp-content/ucloads/2016/06/4.31-Fina-Copy-SYBScZoology-Syllabus.pdf	Cell Biology, Endomembrane System and Biomolecules	02	 Learner would acquire insight into the composition of the transport mechanisms adopted by the cell and its organelles for its maintenance and composition of cell. Learner would appreciate the intricacy of endomembrane system. Learner would understand the interlinking of endomembrane system for functioning of cell. The learner will realize the importance of biomolecules and their clinical significance.

USZOE1403 (Course- 10A) Elective 1 http://dx.mu.ac.in/wp-content/up/dats/2016/05/431- Final-CopyS-V-E-Sc-ZoologySyllabus.odf	Comparative Embryology, Aspects of Human Reproduction, Pollution and its effect on organisms	02	 Learner will be able to understand and compare the different types of eggs and sperms. Learner will be able to understand and compare the different pre- embryonic stages. Learners will able to understand human reproductive physiology. Learners will become familiar with advances in ART and related ethical issues. The learners will be sensitized about the adverse effects of pollution and measures to control it.
USZO501 (Course 11) http://od.mu.ac.in/wp-content/upleads/2016/06/4.32- IY3S:Sem-V-VI-Syllabus-Final-97r-April-2018-26-April- 2018-1-4-pdf	Taxonomy - Invertebrates and Type Study	2.5	 Learners will apprehend the basis of classification and modern classification up to class of the lower invertebrate animals. The learners will be familiarized with classification up to phylum ANNEXURE 1 Nematoda along with their examples. Learners will get an idea of higher groups of invertebrate animal life, their classification and their peculiar aspects. Learners will get an idea of general characteristics and details of invertebrate animal systems.

http://dd.mu.ac.in/wp-content/uploads/2016/06/4-32-TYSS-Sem-VY-Syllabus-Final-9th-April-2016-26-April-2016-1-4-pdf	Haematology and Immunology	2.5	 The learner shall comprehend basic haematology. The learner will be able to identify various components of haemostatic systems. The learner will become familiar with the terminology used and diagnostic tests performed in a pathological laboratory. The learner shall be acquainted with diagnostic approaches in haematological disorders. The learner will be better equipped for further pathological course or working in a diagnostic laboratory. The learner shall comprehend the types of immunity and the components of immune system. The learner will realize the significant role of immune system in giving resistance against diseases. The learner shall understand immunopathology and the principles and applications of vaccines. The learner will develop basic understanding of immunology of organ transplantation.
USZO503 (Course 13) http://oid.mu.ac.in/wp-content/uploads/2015/06/4.32- TY83:Sam-V-VFSylabus-Final-91-April-2018-25-April- 2018-1-4-pdf	Histology, Toxicology, Pathology and Biostatistics	2.5	 Learner would appreciate the well planned organization of tissues and cells in the organ systems. The course will prepare learner to develop broad understanding of the different areas of toxicology. It will also develop critical thinking and assist students in preparation for employment in pharmaceutical industry and related areas. Learner will be familiar with various medical terminologies pertaining to pathological condition of the body caused due to diseases. The learner will be able to collect, organize and analyse data using parametric and nonparametric tests. They will also be able to set up a hypothesis and verify the same using limits of significance.

USZO504 (Course 14) http://oid.mc.ac.in/wp-content/upleats/2015/05/4/32-TY85:Sem-V-VI-Sylabus-Firal-9th-4pril-2018-25-April-2018-1-4.pdf	Anatomy and Developmental Biology	2.5	 Learner will be able to understand the: importance of various types of epidermal and dermal derivatives along with their functions. structure, types and functions of human skeleton. types of long limb muscles, its arrangement and their role in body movements. processes involved in embryonic development and practical applications of studying the chick embryology.
USZO601 (Course 15) http://od.mu.sc.n/wp-content/uploads/2015/06/432- 1Y85cSem-V-VI-Syllabus-Engl-9th-April-2018-25-April- 2018-1-4-pdf	Taxonomy - Chordates and Type Study	2.5	 Learners will get an idea of origin of Chordates, its taxonomy up to class with reference to phylogeny and their special features. Learners will understand the characteristic features and examples of class of Reptilia, Aves and Mammalia. Learners will get an idea of vertebrate animal life after studying one representative animal - shark.
USZO602 (Course 16) http://oid.mu.ac.in/wp-content/uplcade/2016/06/4/32- TY38:Sem-V-VI-Syllabus-Final-9:1-April-2018-25-April- 2018-1-4-pdf	Physiology and Tissue Culture	2.5	 The learner shall understand fundamentals of enzyme structure, action and kinetics. The learner shall appreciate the enzyme assay procedures and the therapeutic applications of enzymes. The learner shall comprehend the adaptive responses of animals to environmental changes for their survival. The learner shall understand the types and secretions of endocrine glands and their functions. The learner shall understand the significance of tissue culture as a tool in specialized areas of research. The learner will appreciate its applications in various industries.

USZO603 (Course 17) http://old.mu.ac.in/wp.content/uploads/2016/06/4.32-TY88cSem-VVI-Syllabus-Final-9th-Acril-2018-26-Acril-2018-1-4.pdf	Genetics and Bioinformatics	2.5	Learner shall get an insight into the intricacies of chemical and molecular processes that affect genetic material. • The course shall prepare learner to recognize the significance of molecular biology as a basis for the study of other areas of biology and biochemistry. • Learner shall also understand related areas in relatively new fields of genetic engineering and biotechnology. • The learner shall get acquainted with the vast array of techniques used to manipulate genes which can be applied in numerous fields like medicine, research, etc. for human benefit. • The learner shall become aware of the impact of changes occurring at gene level on • human health and its diagnosis. • Learner shall become aware of the computational point of view of studying the genomes.
USZO604 (Course 18) http://dd.mu.ac.in/wp-content/uploads/2016/06/432- TYBScSem-V-V-Syllabus-Final-9th-April 2018-26-April- 2018-1-4.pdf	Environmental Biology and Zoo pharmacognosy	2.5	 Learner will understand the different factors affecting environment, its impact and environment management laws. Learner will be able to understand various methods for wildlife conservation. Learner will be able to apply knowledge to overcome the issues related to wildlife conservation and management. Learner will understand the paradigms of discovery and commercialization of biological resources and knowledge gained from self-medication observed in animals. The learners will become acquainted with how and why different animal species are distributed around the globe.

HSNC Board's Smt. Chandibai Himathmal Mansukhani College, Ulhasnagar – 3

LEARNING OUTCOMES

FACULTY OF MANAGEMENT

Link to Syllabus Page on the University of Mumbai Website: https://mu.ac.in/syllabus#1548848059557-d934ffef-898d

(Note: This compilation is based on the information provided by the Head of the Departments.)

DEPARTMENT OF BMS

• Programme Specific Outcomes:

- Ability to apply knowledge of management functions and theories to solve business problems.
- Ability to understand, analyze and communicate regional, national, global economic, legal, and ethical aspects of business.
- Comprehend, Develop and Apply a broad range of managerial capabilities, the capacity for critical thinking, communication and problem-solving skills.

• Course Outcomes:

Course Code	Title of the	Course	Course outcome
	course	credit	
First Year (Seme	ster-I)		
UBMSFSI.1	Introduction to Financial Accounts	03	Be proficient in the financial accounting systems with specialized practical knowledge on preparing annual financial statement of a corporate body and all its facets and understanding of assets, liabilities, reconciliation, capital and revenue expenditure, depreciation and maintenance of various financial documents.
UBMSFSI.2	Business Law	03	Understand business situations from a legal perspective and apply knowledge of legal procedures related with routine business operations of an enterprise.
UBMSFSI.3	Business Statistics	03	Ability to design data collection plans, analyze data appropriately and interpret and draw conclusions from those analyses and thus employ and build a reliable platform for decision making
UBMSFSI.4	Business Communication – I	03	Have abreast knowledge of forms, Process and Principles of Communication that enable students to demonstrate the ability of evaluating, analyzing and interpreting information to make reasoned business decisions.
UBMSFSI.5	Foundation Course – I	02	Comprehend various dimensions of Indian society, knowledge regarding disparities, Philosophy of the constitution and significant aspects of political processes.
UBMSFSI.6	Foundation of Human Skills	03	Have self-knowledge and the ability to apply this knowledge to enhance effectiveness; understand and apply leadership skills, team-based knowledge, conflict management and negotiation skills required to achieve individual and institutional

			objectives.
UBMSFSI.7	Business	03	Relate the basic economic theory and
	Economics - I		principles to current microeconomic issues
			and Use economic models to analyze a
			situation in terms of economics
First Year (Seme	ester – II)	1	
UBMSFSII.1	Principles of	03	Ability to formulate general marketing
	Marketing		strategy using 4Ps model and STP
UBMSFSII.2	Industrial Law	03	Understand business situations from a legal
			perspective and apply knowledge of legal
			procedures related with routine industrial
			operations of business.
UBMSFSII.3	Business	03	Solve problems in the areas of financial and
	Mathematics		economics functions, derivatives, simple and
			compound interest, EMI calculations,
			annuity, trend line and time value of money.
UBMSFSII.4	Business	03	Ability to apply business concepts of written
	Communication		communication in various related business
	- II		issues
UBMSFSII.5	Foundation	02	Ability to comprehend the concept of LPG,
	Course - II		growth and evolution of human rights,
			ecology and ability to understand causes and
LIDMOEGII (D .	02	management of stress.
UBMSFSII.6	Business	03	Ability to analyse the changes introduced in
	Environment		the components of environment of business
			and understanding their impact on the enterprise.
UBMSFSII.7	Principles of	03	Understand and apply the knowledge of
ODIVISI SII.	Management	03	management theories, functions and process
	Management		in day to day business activities of an
			enterprise.
Second Year (Se	mester – III)	<u> </u>	enterprise.
UBMSFSIII.5	Accounting for	03	Ability to analyze the financial statements of
	Managerial		an enterprise using vertical approach and
	Decisions		various techniques like Comparative
			statements, common size, trend analysis,
			ratios, and other management accounting
			techniques of working capital management,
			cash flow statement and Receivables
			management.
UBMSFSIII.6	Strategic	03	Ability to analyse strategic micro and macro
	Management		environmental issues, analyse industry
			factors and identify their impact on strategic
			positioning, evaluate SBU strategies and
			analyse and implement strategies at the
1101 (000000000000000000000000000000000	TID C D :	0.2	business unit level.
UBMSFSIII.2	IT for Business -	03	Ability to use the MS office software and
	I		also email, internet, websites domains and
LIDMODOIII 4	Deseive	02	security therein.
UBMSFSIII.4	Business	03	Ability to apply the knowledge of preparing

	D1 . 0	1	
	Planning &		project report and setting up of own business
	Entrepreneurship		enterprise and thus exploring the
	Management		opportunity of self-employment.
UBMSFSIII.3.01	Foundation	02	Understand the impact of environmental
	Course – III		issues and to apply the legal norms
	(Environment		concerning environment into the business.
	Management)		concerning on vironment into the outsiness.
UBMSFSIII.1.01	Basics of	03	Conceptualizing the framework of finance
ODMSFSIII.1.01	Financial	03	I = = = = = = = = = = = = = = = = = = =
			function and getting acquaint with the tools,
	Service		types, instruments of financial system in the
			realm of Indian financial market.
UBMSFSIII.1.04	Corporate	03	Conceptualizing the framework of finance
	Finance		function and getting acquaint with the tools
			and techniques and process of financial
			management in the realm of financial
			decision making.
UBMSFSIII.1.0	Advertising	03	Getting acquainted with the theories of
021/101 0111/1/0	110,010101118		advertising and latest tools for the
			construction of an effective advertisement
			and exploring opportunities of career in
LIDMOEGIII 1 0	0	02	advertising.
UBMSFSIII.1.0	Consumer	03	Ability to understand the consumer decision
	Behavior		making process and its applications in
			marketing function of firms, and analyzing
			consumer information for using it to create
			consumer-oriented marketing strategies.
Second Year (Sem	nester – IV)		
UBMSFSIV.4	Research	03	Demonstrate knowledge of research
	Methods		processes, perform literature reviews,
	Wiemous		compare and contrast quantitative and
			qualitative research paradigms, describe,
			compare, and contrast descriptive and
			inferential statistics, describe sampling
			methods, measurement scales and
			instruments, and appropriate uses of each
			and finally to conduct the research
			independently.
UBMSFSIV.5	Business	03	Ability to understand the concepts of
	Economics – II		national income, calculate methods of
			national income, and concepts related to
			national income and interprets
			macroeconomic issues such as money,
			foreign exchange, inflation, unemployment,
TIDMCECIA C	Dec du sti se 1	02	economic growth and foreign trade.
UBMSFSIV.6	Production and	03	Getting acquainted with the basic
	Total Quality		management decisions with respect to
	Management		production and quality management, and
			1 7 9
			understand the designing aspects of
			1 7 9

	T	T	
	II		technologies like ERP, CRM, SCM and trends in enterprise applications, Understanding relationship between database management and data warehouse approaches and to understand the concepts of Outsourcing as well as cloud computing.
UBMSFSIV.3.01	Foundation Course – IV (Ethics and Governance)	02	Be aware of the concepts and principles of ethical reasoning which have been developed in ethical theory, and to be able to apply these concepts and principles to specific ethical issues and ability to describe and analyze the primary parts of corporate governance frameworks
UBMSFSIV.1.01	Financial Institutions and Markets	03	Understanding basic knowledge about the structure, role and functioning of financial institutions and markets in the financial system.
UBMSFSIV.1.04	Corporate Restructuring	03	Getting acquainted with legal, accounting and practical implementation of corporate restructuring and understand the complex facets of corporate restructuring process.
UBMSFSIV.1.0	Integrated Marketing Communication	03	Ability to use the various tools of IMC to develop effective marketing communication programme.
UBMSFSIV.1.0	Rural Marketing	03	Ability to frame marketing strategies with 4Ps model and STP for the rural markets.
Third Year (Seme	ster - V)	<u> </u>	The strong was a strong
46001	Logistics & Supply Chain Management	03	Understand fundamental logistics and supply chain management concepts, apply knowledge to evaluate and manage an effective supply chain, Understand the foundational role of logistics as it relates to transportation and warehousing and other functions of logistics.
46002	Corporate Communication and Public Relations	03	focus on the role of public relations in the organization and the application of communication strategies and tools for communications planning. And Be aware of and comply with law and regulations in the field of public relations, advertising, brand communication, marketing communication, persuasive communication, communication management, corporate communications.
46003	Investment Analysis and Portfolio Management	03	Apply understanding of different avenues of investments and learning to apply the decision for making portfolios with risk and returns profile of investors.
46009	Wealth Management	03	Understanding various aspects of wealth management including insurance planning, retirement planning, real estate management

			and taxation.
46018	Direct Tax	03	Ability to calculate taxable income of an
			individual and file the income tax returns
			independently.
46015	Risk	03	Understand the risks associated with finance
	Management		in business and the ways to mitigate and
			manage the same by applying various risk
			management tool and techniques.
46010	Sales and	03	Getting acquainted with the concepts of
	Distribution		market analysis and selling, managing
	Management		distribution channels and evaluation of
			marketing distribution channel performance.
46004	Service	03	Ability to plan and implement marketing
	Marketing		strategies for service industries based on 7Ps
	1/1/20110		model, Demand and capacity management
			and productivity issues in services.
46013	Customer	03	Getting acquainted with the CRM strategy
10015	Relationship		and tools that reinforces relationship
	Management		management strategy of an enterprise
	Withingement		leading to customer satisfaction and delight.
46007	E-Commerce &	03	Enables the learners to apply digital
40007	Digital	03	marketing tools to plan and implement
	Marketing		ecommerce and digital marketing solutions
	Warketing		of a business unit.
Third Year (Sen	${mostor-VI}$		of a business unit.
86001	Operations	03	Ability to derive optimum solutions in the
00001	Research		area of operations using Linear
	rescuren		programming (Graphical and Simplex
			methods), Transportation model,
			Assignment models, Game theory, Decision
			making and Networking with the use of
			CPM and PERT models.
UBMSFVI.5	Project Work	03	Ability to carry out the research project
CDIVISI VI.S	Troject Work		independently.
86002	International	03	Ability to deal in foreign exchange markets
00002	Finance		through forex arithmetic and understand
	1 mance		various dimensions of international finance
			like BOP, monetary systems, International
			equity markets, bond markets, Foreign
			capital, Tax havens, Risk management,
			Project appraisal,
86005	Innovative	03	Have abreast knowledge of innovations in
80003	Financial	0.5	the BFS sector and applications of
	Service		knowledge to start the financial services
	DCI VICC		industry independently.
86008	Project	03	Ability to understand the project finance, its
00000	•	03	
	Management		1
			planning and controlling of projects, and
			application of capital budgeting tools to
			appraise the project proposals in terms of

			risk and returns associated with them.
86011	Strategic Financial Management	03	Ability to apply financial decision-making tools in order to achieve the strategic objectives of a business unit including dividend distribution models, working capital management and appraisal of investment proposals.
86009	International Marketing	03	Getting acquainted with the knowledge of marketing in the global world including areas like international branding, pricing, advertising, distribution and market entry strategies.
86003	Brand Management	03	Ability to plan and implement brand marketing programme, measuring and interpreting brand performance and growing brand equity.
860012	Media Planning	03	Getting familiar with the concepts of media mix and media strategy, media budgeting, buying and selling and media measurement and evaluation.
86006	Retail Management	03	Understand the behavior of retails consumer, framing of retail strategy, merchandise management and pricing and managing and sustaining the retail business in the contemporary times.

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Coordinator, IQAC

IQAC Coordinator