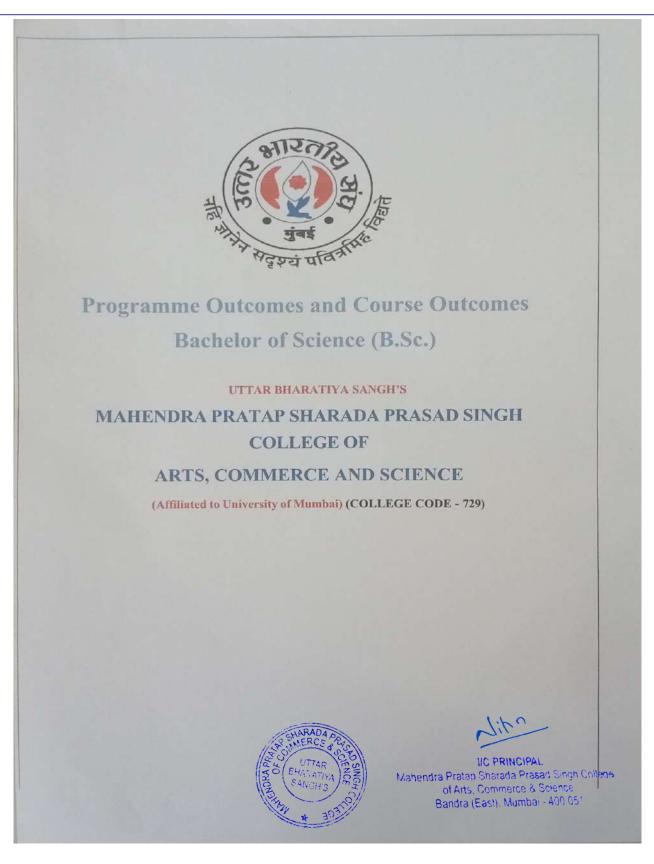


MAHENDRA PRATAP SHARADA PRASAD SINGH COLLEGE OF COMMERCE & SCIENCE

(Affiliated to University of Mumba)i





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(Affiliated to University of Mumba)i

(COLLEGE CODE - 729)

PROGRAMME NAME: B.Sc. (CBZ)

B.Sc. - PROGRAMME OUTCOMES

PO1: To nurture interest in the students for the subject of Botany, Chemistry & Zoology.

PO2: Learners will gain awareness of the basic and modern concepts of Biology.

PO3: To orient the students about the recent environmental issues, challenges, its protection and conservation.

PO4: To impart knowledge about the importance of nutrition and health aspects in man's life.

PO5: To provide the students with practical knowledge along with the theoretical understanding of the topics

B.Sc. - PROGRAMME SPECIFIC OUTCOMES

PSO1: To make the learners aware about the impact of the plant diversity in societal and environmental contexts.

PSO2: To Inculcate good laboratory practices and precautions among students to train them about scientific handling of research equipment & instruments

PSO3: To apply the knowledge of basic science, life sciences and fundamental process of plants to study and analyse any plant form

PSO4: To understand importance of plant diversity for society, health, safety, legal and environmental issues.

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of Arts, Commerce & Science
Bandra (East), Mumbai - 400 051



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COURSE OUTCOME FOR BACHELOR OF SCIENCE (B.Sc.)

F.Y. B.Sc. - SEMESTER I

BOTANY-I Plant Diversity-I (Theory and Practical)	USBO101	CO1: To understand the diversity among
	USBOP1	Algae. Characters, systematic position structure, morphology, anatomy and economic position of Algae. To learn about the life cycle pattern of Algae and the useful as well as harmful activities of Algae. CO2: To understand the diversity of Fungi. Know the Economic Importance of Fungi. Mode of nutrition in Fungi. CO3: To understand the morphological diversity of Bryophytes. To understand the structure, life cycle and systematic position and economic importance of the Bryophytes.
BOTANY-II Form and Function-I (Theory and Practical)	USBO102 USBOP1	CO1: To know the different structures of cell and understand the different types of cell organelles. To study the structure and organization of cell membrane. To learn the process of membrane transport and membrane models. CO2: To understand the ecological pyramids and the different types of ecosystems. CO3: To understand the Mendelian Genetics and interactions such as incomplete dominance, codominance, multiple alleles and epistatic and nonepistatic interactions.
CHEMISTRY-I Physical & Inorganic Chemistry (Theory and Practical)	USCH101	CO 1: To gain knowledge about the fundamental concepts of chemistry and application applications of the state

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(Theory and Practical)		CO2: To gain knowledge of small-scale industries like sericulture, fish farming, bee keeping, aquaculture, animal husbandry, poultry farm. CO3: To correlate the physiological processes of animals and relationship of organ systems. CO4: To understand the complex evolutionary processes and behaviour of animals
FOUNDATION COURSE-I	UBScFSI.6.1	CO1: To understand overview of Indian Society CO2: To understand the concepts disparity with regards to gender CO3: To gain knowledge about the Indian Constitution and Fundamental Duties CO4: To discuss the political party system of India.

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F.Y. B.Sc. - SEMESTER II

After completing the course, the learner will be able to:

COURSE NAME	COURSE	COURSE OUTCOME
BOTANY-I Plant Diversity-I (Theory and Practical)	USBO201 USBOP2	CO1: To understand the morphological diversity of Pteridophytes and Gymnosperms. CO2: To know the evolution of Pteridophytes and Gymnosperms. CO3: To understand the habit of the angiosperm plant body. To learn about the vegetative & reproductive characteristics of the plant. To understand the plant morphology and basic taxonomy.
BOTANY-II Form and Function-I (Theory and Practical)	USBO202 USBOP2	CO1: To know the anatomy of simple and complex tissues. CO2: To know importance and scope of plant physiology. To understand the respiration in higher plants with particular emphasis on aerobic and anaerobic respiration. CO3: To understand the Medicinal Botany and Grandma's pouch.
CHEMISTRY-I Physical & Inorganic Chemistry (Theory and Practical)	USCH201	CO1: To learn different methods of preparation of aliphatic compounds. CO2: To understand difference
(Theory and Tractical)	OSCIAL 2	between different states of matter. CO3: To learn about concepts of acids and bases. CO4: To learn different spectroscopic techniques used for identification of compounds.
CHEMISTRY-II Organic & Inorganic Chemistry	USCH202	To understand the three compounds
(Theory and Practical)	USCHP2	UTTAR INCHES CANCERS OF ARTS, Connector



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CO4: To understand the reasons of stress and conflict and learn various methods of managing stress

S.Y. B.Sc. – SEMESTER III (BOTANY & ZOOLOGY)

COURSE NAME	COURSE	COURSE OUTCOME
BOTANY-I Plant Diversity-II (Theory and Practical)	USBO301 USBOP3	CO1: To learn about division of Phaeophyta, structure of Sargassum. To study class Anthocerotae and Musci.
		CO2: learners will understand the morphology of flowering plants in detail. To understand the economic importance of different flowering plants.
		CO3: To understand the modern techniques: Preservation methods, Microscopy, Chromatography and Elecrophoresis to study plant diversity.
BOTANY-II Form and Function-II (Theory and Practical)	USBO302 USBOP3	CO1: To understand the ultra-structures and functions of different cell organelles.
		CO2: To understand the variation of chromosome structures. To learn about organelle heredity.
		CO3: To understand the process of replication and protein synthesis.
BOTANY-III Current Trends in Plant Science-I (Theory and Practical)	USBO303	CO1: To study the secondary metabolites of alkaloids, gums and resins, glycosides and tannins.
Theory and Tractical)	COBOLS	CO2: To study the classification of forests.
		CO3: To know about the industries based on plant products and biofuels.
ZOOLOGY-I	USZO301	genetics and to make understand and work
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Fundamentals of Genetics, Chromosomes and Heredity, Nucleic acids (Theory and Practical)	USZOP3	apply the Mendelian principles of inheritance. To Understand the concept of multiple alleles, linkage and crossing over.
		CO2: Learners will understand the structure, types, and classification of chromosomes. Learners would be able to correlate the disorders linked to a particular sex chromosome.
		CO3: To introduce the concept of sex determination and its types, sex influenced and sex limited genes.
		CO4: To understand the importance of nucleic acids and the concept of central dogma of molecular biology. The learners would understand and appreciate the regulation of gene expressions.
ZOOLOGY-II Study of Nutrition & Excretion, Respiration & Circulation, Control &	USZO302 USZOP3	CO1: To introduce the concepts of physiology of nutrition, excretion and osmoregulation.
Coordination, Locomotion (Theory and Practical)		CO2: To expose the learners to various nutritional apparatus, excretory and osmoregulatory structures in different classes of organisms.
		CO3: To introduce the concepts of physiology of respiration and circulation.
		CO4: To expose the learners to various locomotory and reproductive structures in different classes.
ZOOLOGY-III Ethology, Parasitology, Economic Zoology (Theory and Practical)	USZO303 USZOP3	CO 1: To equip learners with a sound knowledge of how animals interact with one another and their environment.
		CO2: To enable the learners to understand different behavioural patterns.
& or		WC PRINCIPAL JC PRINCIPAL Mahendra Pratage Sharada Prasad S Mahendra Pratage Sharada Prasad S Mahendra Pratage Sharada Prasad S Mahendra Pratage Soleman S Mahendra Pratage Soleman S Mahendra Pratage Soleman S Mahendra Pratage Soleman S Mahendra Pratage S M



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		CO3: To acquaint learners with the concepts of parasitism, their relationship with environment.
		CO4: To disseminate information on economic aspects of zoology like apiculture, vermiculture, dairy science and to encourage young learners for self-
FOUNDATION COURSE 3	USFC301	employment. CO1: To discuss issues related to human rights violations ecology. CO2: To understand forms of violation of rights caste class disability and
	n'ilia aya	CO3: To create the importance of creating scientific temper towards technology and its use in everyday life.
		CO4: To learn environmental concern about causes of disaster and management of disaster.
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S.Y. B.Sc. – SEMESTER IV

COURSE NAME	COURSE	COURSE OUTCOME
BOTANY-I Plant Diversity-II (Theory and Practical)	USBO401 USBOP4	CO1: To study the general characters of Ascomycete. CO2: To study classification and salient features of Pteridophyte.
		CO3: To learn and understand classification and economic importance of Gymnosperms.
BOTANY-II	USBO402	CO1: To study the anatomy &
Form and Function-II (Theory and Practical)	USBOP4	secondary growth in dicot stem and root, mechanical tissue system and types of vascular bundles.
		CO2: To study the Plant Physiology and Plant Biochemistry.
		CO3: To understand the Ecology and Environmental Botany. To study the biogeochemical cycle of carbon, nitrogen and water.
BOTANY-III Current Frends in Plant Science-I	USBO403	CO1: To learn about the techniques of horticulture & gardening and types of gardens.
(Theory and Practical)	USBOTA	CO2: The learner will be introduced to the plant tissue culture.
	18	CO3: To learn about Biostatistics and Bioinformatics.
ZOOLOGY-I	USZO401	CANARADA appart scientific knowledge
Origin & evolution of life, Population, genetics &	USZOP4	Soriginated and evolved on our plants PRINCIPAL
Population, genetics &	Mahendra	Mahendra Pratao Sharada Prasad Sindh Chiller



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evolution, Scientific Attitude methodology. (Theory and Practical)		CO2: Learner would understand the forces that cause evolutionary changes in natural populations.
		CO3: Learner would comprehend the mechanisms of speciation, and to distinguish between microevolution, macroevolution and megaevolution.
		CO4: To inculcate scientific temperament in the learner. The learner will develop qualities such as critical thinking and analysis, the skills of scientific communication.
ZOOLOGY-II Cell Biology,	USZO402	CO1: To give learner acquires insight of transport mechanisms for the
Endomembrane System, Biomolecules. (Theory and Practical)	USZOP4	maintenance and composition cell. CO2: To acquaint the learner with Ultrastructure of cell organelles and their functions.
		CO3: To give learner insight into the structure of biomolecules, and their role in sustenance of life.
		CO4: The learner will realize the importance of biomolecules and their clinical significance.
ZOOLOGY-III Comparative Embryology, Aspects of Human Reproduction, Pollution and its effects on Organism (Theory and Practical)	USZO403 USZOP4	CO1: To acquaint the learner with key concepts of embryology. Learner will be able to appreciate the functional aspects of extra embryonic membranes and classify the different types of placentae.
		CO2: To make them aware of the causes of infertility, techniques to overcome infertility and the concept of birth control.
	NC PRINCIPAL S	CO3: Learners will able to understand human reproductive physiology will become familiar with ART and related ethical IIC PRINCIPAL ENALATIVE SERVING PRESENT OF Mathematica Present Singin C



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		CO4: To provide a panoramic view of impact of human activities leading to pollution and its implications.
FOUNDATION COURSE-IV	USFC401	CO1: To develop a basic understanding about rights of citizens. CO2: To provide an overview of significant skills required to address competition in career choices.
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S.Y. B.Sc. – SEMESTER III (CHEMISTRY & ZOOLOGY)

After completing the course, the learner will be able to:

COURSE NAME	COURSE	COURSE OUTCOME
CHEMISTRY-I General chemistry (physical, inorganic and organic chemistry) (Theory and Practical)	USCH301	CO1: To learn about Free Energy Functions. CO2: To learn about thermal and photochemical reactions. CO3: To study the complex kinetic reactions. CO4: To learn different types of titrimetric analysis.
CHEMISTRY-II General chemistry (physical, inorganic and organic chemistry) (Theory and Practical)	USCH302	CO1: To understand the general mechanism of aromatic electrophilic substitution with energy profile diagram. CO2: To learn about the configurations of transition metals. CO3: To study about the molecular orbital theory. CO4: To study the reactions and preparation of haloarenes
CHEMISTRY-III Basics of analytical chemistry (Theory and Practical)	USCH303 USCHP3	CO1: To understand Water as a natural resource, physical properties of water, chemical properties of water - auto -ionization and types of reactions in water. CO2: To study Concept and scope of environmental chemistry. Components of environment; Biotic and Migric.

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		CO3: To study different renewable and non-renewable sources of organic compounds. CO4: To study different types of unit processes in organic chemistry.
ZOOLOGY-I Fundamentals of Genetics, Chromosomes and Heredity, Nucleic acids (Theory and Practical)	USZO301 USZOP3	CO1: To Introduce basic terms of genetics and to make understand and apply the Mendelian principles of inheritance. To Understand the concept of multiple alleles, linkage and crossing over. CO2: Learners will understand the structure, types, and classification of chromosomes. Learners would be able to correlate the disorders linked to a particular sex chromosome. CO3: To introduce the concept of sex determination and its types, sex influenced and sex limited genes. CO4: To understand the importance of nucleic acids and the concept of central dogma of molecular biology. The learners would understand and appreciate the regulation of gene expressions.
ZOOLOGY-II Study of Nutrition & Excretion, Respiration & Circulation, Control & Coordination, Locomotion (Theory and Practical)	USZO302 USZOP3	CO1: To introduce the concepts of physiology of nutrition, excretion and osmoregulation. CO2: To expose the learners to various nutritional apparatus, excretory and osmoregulatory structures in different classes of organisms. CO3: To introduce the concepts of physiology of respiration and circulation.
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USZO303 USZOP3	CO1: To equip learners with a sound knowledge of how animals interact with one another and their environment.
	CO2: To enable the learners to understand different behavioural patterns.
	CO3: To acquaint learners with the concepts of parasitism, their relationship with environment.
	CO4: To disseminate information on economic aspects of zoology like apiculture, vermiculture, dairy science and to encourage young learners for self-employment.
USFC301	CO1: To discuss issues related to human rights violations ecology.
	CO2: To understand forms of violation of rights caste class disability and current scenario.
	CO3: To create the importance of creating scientific temper towards technology and its use in everyday life.
	CO4: To learn environmental concern about causes of disaster and management of disaster.
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S.Y. B.Sc. - SEMESTER IV

(CHEMISTRY & ZOOLOGY)

COURSE NAME	COURSE	COURSE OUTCOME
CHEMISTRY-I General chemistry (physical, inorganic and organic chemistry) (Theory and Practical)	USCH401 USCHP4	CO1: To understand the Factors affecting stability of nucleus. CO2: To understand the basic principles of organic spectroscopy.
		CO3: To Learn about various types of errors in data analysis. CO4: Identification of organic compound including qualitative and quantitative
CHEMISTRY-II General chemistry (physical, inorganic and organic chemistry)	USCH402	analysis. CO1: Introduction to essential and non- essential elements in biological system.
(Theory and Practical)	USCHP5	CO2: To learn about the stereochemistry of compounds. CO3: To evaluate different types of chemical reactions of aliphatic and aromatic amines.
		CO4: To understand the different types of mechanisms that lead to organic products.
CHEMISTRY-III Basics of analytical chemistry	USCH403	CO1: To learn about different sources of water pollution.
(Theory and Practical)	USCHP6	CO2: To understand different types of metalling and processes. CO3 of corners would understand about PRINCIPAL Composition of the late of the commerce of Science of the Commerce of Science
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ZOOLOGY-I Origin & evolution of life, Population, genetics & evolution, Scientific Attitude methodology. (Theory and Practical)	USZO401	CO1: To impart scientific knowledge to the learner about how life originated and evolved on our planet. CO2: Learner would understand the forces that cause evolutionary changes in natural populations. CO3: Learner would comprehend the mechanisms of speciation, and to distinguish between microevolution, macroevolution and megaevolution. CO4: To inculcate scientific temperament in the learner. The learner will develop qualities such as critical thinking and analysis, the skills of scientific communication.
ZOOLOGY-II Cell Biology, Endomembrane System, Biomolecules. (Theory and Practical)	USZO402 USZOP4	CO1: To give learner acquires insight of transport mechanisms for the maintenance and composition cell. CO2: To acquaint the learner with Ultrastructure of cell organelles and their functions. CO3: To give learner insight into the structure of biomolecules, and their role in sustenance of life. CO4: The learner will realize the importance of biomolecules and their clinical significance.
ZOOLOGY-III Comparative Embryology, Aspects of Human Reproduction, Pollution and its effects on Organism (Theory and Practical)	USZO403 USZOP4	CO1: To acquaint the learner with key concepts of embryology. Learner will be able to appreciate the functional aspects of extra embryonic membranes and classify the different types of placentae. CO2: To make them aware of the causes of infertility, techniques to overcome infertility and the concept of birth control. CO3: Learners will able to understand human productive physiology. Learners will be able to understand human productive physiology. Learners will be compound the advances in ART and related the allowed the able to the above t



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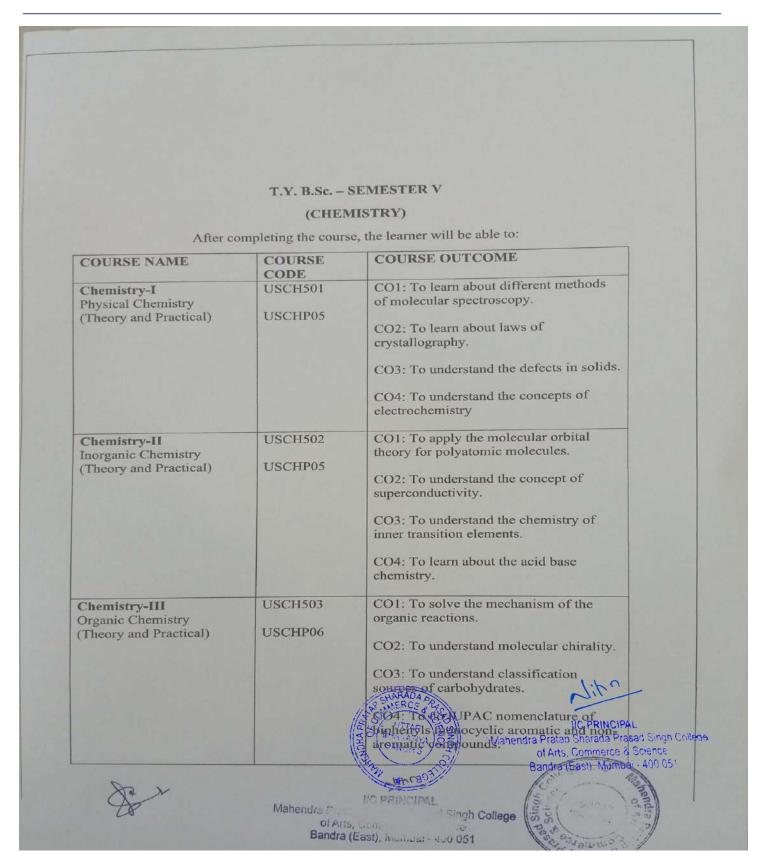
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		CO4: To provide a panoramic view of impact of human activities leading to pollution and its implications.
FOUNDATION COURSE	USFC401	CO1: To develop a basic understanding about rights of citizens.
		CO2: To provide an overview of significant skills required to address competition in career choices.
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		CO5: learner will be introduced to hero cyclic compounds.
Chemistry-IV Analytical Chemistry (Theory and Practical)	USCH503 USCHP06	CO1: To learn about treatment of data and sampling. CO2: To study the titrimetric analysis and acid base titrations, precipitation titration. CO3: To learn about methods of separation. CO4: To learn about optical spectroscopy.
Chemistry-V Applied Chemistry Drugs and Dyes (Theory and Practical)	USACDD501 USACDD5P1	CO1: To learn about different types of drugs. CO2: To learn about routes to administration of drugs. CO3: To learn about pharmaco dynamic drugs. CO4: To classify drugs dyes based on their applications.
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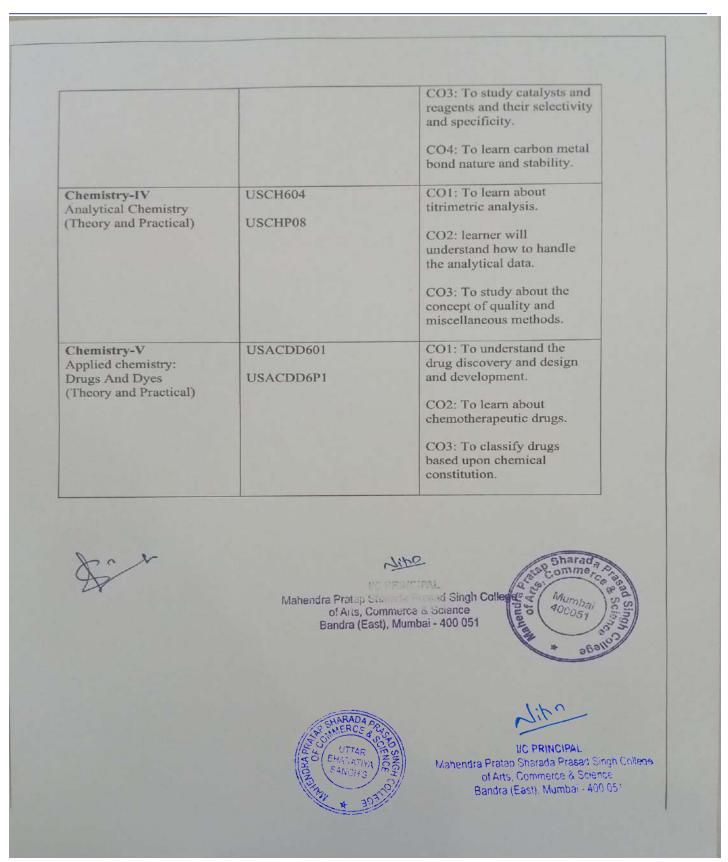
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Haematology and Immunology. (Theory and Practical)	USZOP05	haemorrhage and haematopoiesis.
		CO2: The learner will be familiar with the terminology used and diagnostic tests performed in a pathological laboratory which approaches in
		haematological disorders. CO3: The learner shall comprehend the types of immunity and the
		components of immune system and significant role of immune system in giving resistance against diseases.
		CO4: The learner shall understand immunopathology and the principles and applications
	No. Zoson	of vaccines and also develop basic understanding of immunology of organ transplantation. COI: To familiarize the
ZOOLOGY-III Histology, Toxicology, Pathology and Bioinformatics.	USZO503	learner with the cellular architecture of the various organs in the body. Also
(Theory and Practical)	USZOP06	understand the need and importance of different types of tissues in the vital organs and their functions.
		CO2: The course will prepare learner to develop broad understanding of the different areas of toxicology.
		Also develop critical thinking and assist students in preparation for employment in pharmaceutical industry and
		related areas. C5 4 C03: Learner will be TAR C1 Jamiliar with various 10 PRIVITY and Co



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	CO4: To make learner
	familiar with biostatistics as an important tool of analysis and its applications. They will also be able to set up a hypothesis and verify the same using limits of significance.
USZO504 USZOP06	CO1: To introduce the learner to understand different integumentary structures and derivatives in the vertebrates and to acquaint learners with special derivatives of integument.
	CO2: To introduce the learner to different bones of human skeleton and their functional importance.
	CO3: Learner will be able to understand the types of long limb muscles, its arrangement and their role in body movements.
	CO4: Learner will be able to understand the processes involved in embryonic development and practical applications of studying the chick embryology.
USACMSC501	CO 1: Learner would understand different zones of sea (marine habitat) and their impact on biodiversity.
SHACMSCSF1	CO 2: Learner will understand normal values of RADA conferent chemical nutrients
	USZOP06



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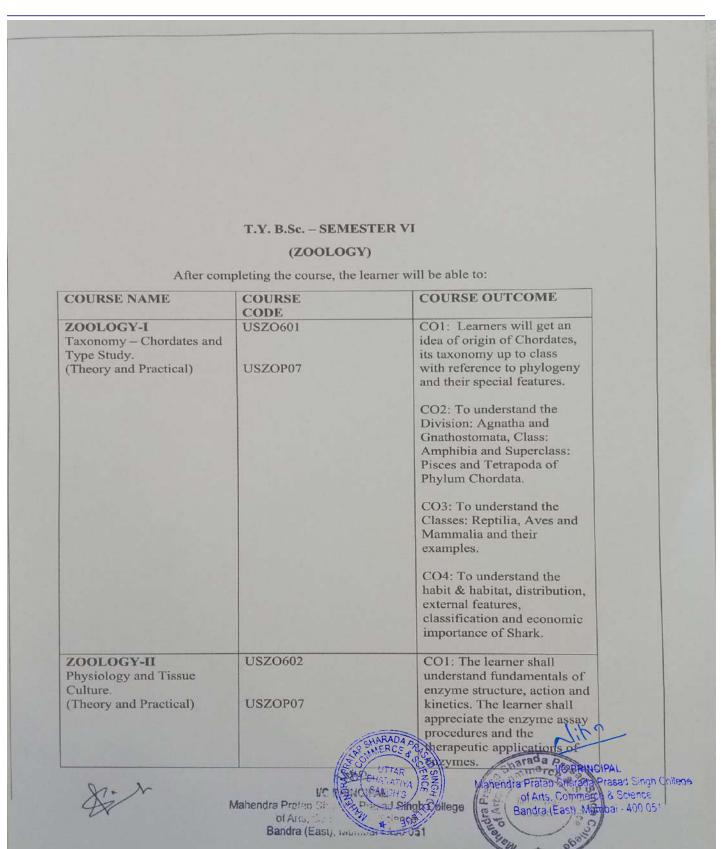
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		CO2: To introduce to the learner the concept of homeostasis- thermoregulation and osmoregulation. The learner shall comprehend the adaptive responses of animals to environmental changes for their survival. CO3: To introduce to the learner the details of endocrine glands and its disorders. CO4: To introduce to the learner the fundamental concepts of tissue culture and guide them
ZOOLOGY-III Genetics and Bioinformatics. (Theory and Practical)	USZOP08	progressively to certain areas of animal tissue culture. CO1: Learner shall get an insight into the intricacies of chemical and molecular processes that affect genetic material and also understand related areas in relatively new fields of genetic engineering and biotechnology. CO2: 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.
	Nahendra Pratas Sharada Pasa	CO3: The learner shall become aware of the impact of changes occurring at gene level on human health and its diagnosis. SHARADA A CO4: Learner shall hear the computational learner of the computational learner of the computational learner shall hear the computational learner of the computational learner o



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		point of view of studying the genomes.
ZOOLOGY-IV Environmental Biology and Zoopharmacognosy. (Theory and Practical)	USZO604 USZOP08	CO1: Learners will understand the different factors affecting environment, its impact and environment management laws.
		CO2: Learners will understand various methods for wildlife conservation. Learners will be able to apply knowledge to overcome the issues related to wildlife conservation and management.
		CO3: Learners will understand the paradigms of discovery and commercialization of biological resources and knowledge gained by self – medication by animals.
		CO4: The learners will become acquainted with how and why different animal species are distributed around the globe.
ZOOLOGY-V Marine Science: Production and Management. (Theory and Practical)	USACMSC601 USACMSC6P1	CO 1: Learner will take the first step to become entrepreneur in the field of culture fishery with basic knowledge of marine aquaculture.
		CO 2: Learner will be acquainted with variety of marine value-added products, their nutritional values and economic significance.
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		CO2: To analyse different oxidation and reduction reactions.
		CO3: To learn about the concept of aromaticity.
		CO4: To learn about the qualitative and quantitative techniques of analysis of compounds.
ZOOLOGY-I Diversity of Animal	USZO201	CO1: To Develops empathy and love towards the animals.
Kingdom-II, Life Processes- II and Ethology (Theory and Practical)	USZOP2	CO2: To understands about various concepts of genetics.
		CO3: To learn about biodiversity and protection of endangered species
		CO4: To understand the complex interactions among various living organisms.
ZOOLOGY-II Biochemistry-II,	USZO202	CO1: To Gain knowledge of small- scale industries like sericulture, fish
Biotechnology-II, Evolution and Biodiversity	USZOP2	farming, bee keeping, aquaculture, animal husbandry, poultry farm.
(Theory and Practical)		CO2: To relate the physical features of the environment to the structure of populations, communities, and ecosystems.
		CO3: To learn about kingdom Animalia, their classification, evolution embryology, structure, etc. for both living and extinct animals.
FOUNDATION COURSE- II	UBScFSII.6.1	CO1: To understand the concept of globalization, liberalization and privatization
	San Day	CO2: To get knowledge of basic Human Rights
		CO3: To explain the concept of importance of environment
X.V	Mahendra Pra	Mahendra Pietas Sharada Presad Sharada Presad Sharada Commerce & Soles Of Ads