

COURSE OUTCOMES (COs)

Course Name: Human Anatomy – I

Course Code: MM 101

Course Name	Course Code	COs	Contents
Human Anatomy	MM 101	CO1	General anatomy: To learn about anatomical nomenclature, position, location & their function
		CO2	Osteology & arthrology: To study about classification of bone, Ossification of bone, type of cartilage, classifications of joints
		CO3	Systemic anatomy: To learn about classification & function about Muscles, nervous & cardiovascular system
		CO4	Superior Extremity: To learn about superior extremity muscles & superior extremity joints.
		CO5	Inferior Extremity: To learn about inferior extremity muscles & inferior extremity joints.

CO-PO-PSO MAPPING

PO- PSO	PO												PSO				
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	3	1	2	-	-	-	1	2	1	-	2	2	1	2	-	3
CO2	2	3	2	2	-	-	-	1	3	1	-	3	2	2	1	-	2
CO3	1	3	1	2	-	-	-	1	2	-	-	2	2	1	2	-	3
CO4	2	3	1	2	-	-	-	1	3	-	-	3	2	2	3	-	3
CO5	1	3	1	2	-	-	-	1	2	1	-	2	2	1	2	-	3

COURSE OUTCOMES (COs)

Course Name: Human Physiology – I

Course Code: MM 102

Course Name	Course Code	COs	Contents
Human Physiology –I	MM 102	CO1	General and cell physiology: To learn about Cell and cell division, Cellular movement, Osmosis, Dialysis
		CO2	Blood: To study about composition of blood, morphology of cells, Hemoglobin, ESR, MCV, MCH, MCHC, PT, APTT, BT, CT, ABO, Cross matching, etc.
		CO3	Respiration: Introduction of Respiratory System, Respiration measures, Regulation of respiration
		CO4	Cardiovascular system: To learn about basic physiology of heart, blood circulation, Cardiac Cycle, etc
		CO5	Digestive system: To learn about introduction and physiology of digestive system

CO-PO-PSO MAPPING

PO- PSO	PO												PSO				
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	3	1	2	-	-	-	1	2	-	-	2	2	1	-	1	-
CO2	1	3	1	3	-	-	-	1	3	-	-	3	3	2	-	2	-
CO3	1	3	1	2	-	-	-	1	2	-	-	2	3	1	-	1	-
CO4	2	3	1	2	-	-	-	1	3	-	-	3	2	1	-	1	-
CO5	1	3	1	2	-	-	-	1	2	-	-	2	2	1	-	1	-

COURSE OUTCOMES (COs)

Course Name: Basic of Biochemistry

Course Code: MM 103

Course Name	Course Code	COs	Contents
Basic of Biochemistry	MM 103	CO1	Cell & chemistry of biomolecules: introduction, molecular & functional organization of cells, amino acid, lipids, proteins
		CO2	Carbohydrate: to study about classification definition and metabolism of carbohydrates.
		CO3	Nucleic acid: to learn about RNA & DNA, advances in genetic engineering.
		CO4	Vitamins (fat & water soluble) & enzymes & hormones : to learn about definition, classification & function of fat- & water-soluble vitamins, classification of enzyme, definition and classification of hormones.
		CO5	Nutrition & special topics: to learn about introduction, role and requirement of nutrition.

CO-PO-PSO MAPPING

PO- PSO	PO												PSO				
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	3	2	2	-	-	-	1	2	-	-	2	2	1	-	1	-
CO2	1	3	1	3	-	-	-	2	3	-	-	3	3	2	-	2	-
CO3	1	3	1	2	-	-	-	1	2	-	-	2	3	1	-	1	-
CO4	2	3	1	2	-	-	-	1	2	-	-	3	2	1	-	1	-
CO5	1	3	1	2	-	-	-	1	2	-	-	2	2	1	-	1	-

COURSE OUTCOMES (COs)

Course Name: Basic preventive medicine & community health care

Course Code: MM 104

Course Name	Course Code	COs	Contents
Basic preventive medicine & community health care	MM 104	CO1	Health & population: to learn about definition, determinants and indicator of health& population of India.
		CO2	Family & community: to study about family, community & population problems in India.
		CO3	Communicable diseases: to learn about communicable diseases & their prevention.
		CO4	NHPP & nutrition: to learn about national health policy programs & nutrition.
		CO5	Health governing bodies: to learn about WHO, UNICEF, FAO, Indian red cross society, world bank etc.

CO-PO-PSO MAPPING

PO- PSO	PO												PSO				
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	3	2	2	-	-	-	1	2	-	-	2	3	1	2	3	-
CO2	1	3	1	3	-	-	-	2	3	-	-	3	3	-	1	2	-
CO3	1	3	1	2	-	-	-	1	2	-	-	2	2	2	1	2	2
CO4	1	3	1	2	-	-	-	1	3	1	-	3	2	3	1	3	2
CO5	1	3	1	2	-	-	-	1	2	2	-	2	3	1	2	2	2

COURSE OUTCOMES (COs)

Course Name: Introduction to computers

Course Code: CS 103

Course Name	Course Code	COs	Contents
Introduction to computers	CS103	CO1	Computer fundamentals: after studying this course, the students will know–the fundamentals of computers and computer systems.
		CO2	DOS: after studying this course, the students will know–understanding the basic concepts of dos commands.
		CO3	Windows: after studying this course, the students will know–a basic understanding of the windows.
		CO4	MS-word: after studying this course, the students will know–understanding ms word.
		CO5	PowerPoint (presentation software): after studying this course, the students will know–knowledge, understanding, and basic concepts of presentation software

CO-PO-PSO MAPPING

PO- PSO	PO												PSO				
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	1	1	2	2	1	2	3	3	1	2	2	3	2	2	3	2
CO2	3	3	2	2	2	2	2	1	2	2	2	3	2	2	3	3	3
CO3	3	2	2	3	2	3	3	2	2	3	2	3	2	3	3	3	3
CO4	2	3	1	2	3	1	2	2	3	3	3	3	3	3	2	2	2
CO5	3	2	2	1	2	3	3	3	2	3	2	2	3	2	2	3	3

COURSE OUTCOMES (COs)

Course Name: Basics of professional communication Course Code: LN 101

Course Name	Course Code	COs	Contents
Basics of professional communication	LN 101	CO1	Professional communication: after studying this course, the students will know–the meaning & importance of professional communication as well as effective professional communication.
		CO2	Language through literature: after studying this course, the students will know –understanding the language through literature like essays and short stories.
		CO3	Basic vocabulary: after studying this course, the students will know–basic concepts and knowledge of vocabulary.
		CO4	Basic grammar: after studying this course, the students will know–understanding and practice of basic grammar
		CO5	Basics of composition: after studying this course, the students will know–knowledge, understanding, and skills in report writing & business letter writing.

CO-PO-PSO MAPPING

PO-PSO	PO												PSO				
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	1	1	2	2	1	2	3	3	1	2	2	3	2	2	3	2
CO2	3	3	2	2	2	2	2	1	2	2	2	3	2	2	3	3	3
CO3	3	2	2	3	2	3	3	2	2	3	2	3	2	3	3	3	3
CO4	2	3	1	2	3	1	2	2	3	2	3	3	3	3	2	2	2
CO5	3	2	2	1	2	3	3	3	2	3	2	2	3	2	2	3	3

COURSE OUTCOMES (COs)

Course Name: Human Anatomy II

Course Code: MM 108

Course Name	Course Code	COs	Contents
Human Anatomy II	MM108	CO1	Respiratory system: To study about Respiratory System with details of Function and its importance in paramedical Sciences.
		CO2	Digestive system: To know about Digestive System with details of Function and its importance in paramedical Sciences.
		CO3	Urinary system: To know about the process of Urinary System with details of Function and its importance in paramedical Sciences.
		CO4	Endocrine glands: To learn about Endocrine gland with details of Function and its importance in paramedical Sciences.
		CO5	Lymphatic system: To study about Lymphatic System with details of Function and its importance in paramedical Sciences.

CO-PO-PSO MAPPING

PO- PSO	PO												PSO				
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	3	1	2	-	-	-	1	1	1	-	3	2	2	1	1	1
CO2	1	3	2	2	-	-	-	1	1	1	-	3	2	2	1	1	1
CO3	1	3	1	2	-	-	-	1	1	1	-	3	2	1	1	1	1
CO4	2	3	1	2	-	-	-	1	1	1	-	3	2	2	1	1	1
CO5	1	3	1	2	-	-	-	1	1	1	-	3	2	1	1	1	1

COURSE OUTCOMES (COs)

Course Name: Human Physiology II

Course Code: MM 109

Course Name	Course Code	COs	Contents
Human Physiology II	MM109	CO1	Digestive system :To understand about gastrointestinal tract & its application in practice of Paramedical Sciences.
		CO2	Central nervous system :To understand about Nervous system and special senses & its application in practice of Paramedical Sciences.
		CO3	Endocrine gland :To understand about Endocrine system & its application in practice of Paramedical Sciences.
		CO4	Reproductive system :To understand about Reproductive system & its application in practice of Paramedical Sciences.
		CO5	Excretory system :To understand about excretory function & its application in practice of Paramedical Sciences.

CO-PO-PSO MAPPING

PO- PSO	PO												PSO				
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	3	1	2	-	-	-	1	2	-	-	2	2	1	-	1	1
CO2	1	3	1	3	-	-	-	1	3	-	-	3	3	2	-	1	1
CO3	1	3	1	2	-	-	-	1	2	-	-	2	3	1	-	1	1
CO4	2	3	1	2	-	-	-	1	3	-	-	3	2	1	-	1	1
CO5	1	3	1	2	-	-	-	1	2	-	-	2	2	1	-	1	1

COURSE OUTCOMES (COs)

Course Name: Medical Biochemistry

Course Code: MM110

Course Name	Course Code	COs	Contents
Medical Biochemistry	MM110	CO1	Introduction of clinical biochemistry : To learn about management and responsibilities in biochemistry lab.
		CO2	Instrument & apparatus use in biochemistry : To know about various glassware & equipment used in biochemistry lab.
		CO3	Preparation of solution and reagent :To know about preparation & properties of solutions.
		CO4	Specimen collection and processing : To learn about sample collection, handling & preservation.
		CO5	Urine analysis : To learn about urine examination

CO-PO-PSO MAPPING

PO- PSO	PO												PSO				
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3	-	2	1	-	-	-	1	1	-	1	2	1	3	2	1
CO2	1	3	-	2	-	-	-	-	1	-	-	1	2	1	3	2	1
CO3	2	3	-	2	-	-	-	-	1	1	-	1	2	1	3	2	1
CO4	1	3	-	1	-	-	-	-	1	-	-	1	2	1	3	2	1
CO5	2	3	-	1	-	-	-	-	1	-	-	1	2	1	3	2	1

COURSE OUTCOMES (COs)

Course Name: Introduction to Microbiology

Course Code: MM111

Course Name	Course Code	COs	Contents
Introduction to Microbiology	MM111	CO1	Introduction, History and Instrumentation Technique: To know the Introduction, History and Instrumentation Technique
		CO2	General introduction about Bacteria, Viruses, Fungi and Microbial Reproduction Methods.: To know about Bacteria, Viruses, Fungi and Microbial Reproduction Methods.
		CO3	Staining techniques and Identification methods (Manual and Automated): To learn the skills of Staining techniques and Identification methods (Manual and Automated)
		CO4	Introduction to Culture media and Sterilization techniques: To learn the different Culture media and Sterilization techniques
		CO5	Infection control and BMW(Biomedical Waste Management) techniques: To know the Infection control and Biomedical Waste Management Techniques

CO-PO-PSO MAPPING

PO- PSO	PO												PSO				
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	3	1	2	-	-	-	1	2	1	-	2	2	1	2	-	3
CO2	2	3	2	2	-	-	-	1	3	1	-	3	2	2	1	-	2
CO3	1	3	1	2	-	-	-	1	2	-	-	2	2	1	2	-	3
CO4	2	3	1	2	-	-	-	1	3	-	-	3	2	2	3	-	3
CO5	1	3	1	2	-	-	-	1	2	1	-	2	2	1	2	-	3

COURSE OUTCOMES (COs)

Course Name: Medical Law & Ethics

Course Code: MM112

Course Name	Course Code	COs	Contents
Medical Law & Ethics	MM112	CO1	Medical ethics :to learn about basic principles of medical ethics.
		CO2	Right of patients care :to learn about right of patients care.
		CO3	Medico legal aspects and medical records :to learn about medicolegal aspects.
		CO4	Standard protocol :to learn about development of standardized protocol.
		CO5	Emergency and lifecare support :to learn about emergency care and life support skill.

CO-PO-PSO MAPPING

PO- PSO	PO												PSO				
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	-	-	-	-	-	2	-	2	-	-	-	2	-	-	-	-	-
CO2	-	-	-	-	-	2	-	-	-	-	-	2	-	-	-	-	-
CO3	-	-	-	-	-	2	-	1	-	1	-	2	-	-	-	-	-
CO4	-	-	-	-	-	2	2	-	-	-	-	2	-	-	-	-	-
CO5	-	-	-	-	-	2	1	1	-	-	1	2	-	-	-	1	1

COURSE OUTCOMES (COs)

Course Name: Effective Communication and Media Studies In English Course Code: LN 131

Course Name	Course Code	COs	Contents
Effective Communication and Media Studies in English	LN 131	CO1	Communication in practice: Students will be able to develop formal and informal spoken skills, learn career development skills and learn to have clear idea of goal setting.
		CO2	Mass communication and journalism: Students will learn about the importance and usage of mass media and ways to develop their media skills.
		CO3	Fundamentals of academic writing : Academic writing will help students to format and structure the content they create which will help them to be professional writers and bloggers.
		CO4	Conversation skills : The unit will help students to learn and develop better conversation skills in formal and informal setup. They will learn the proper usage and pronunciation in various accent enabling them to converse in competitive environment.
		CO5	Academic project: The unit enables students to put all the theoretical knowledge to practice, assuring complete learning and implementation.

CO-PO-PSO MAPPING

PO-PSO	PO												PSO				
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	1	1	2	2	1	2	3	3	1	2	2	3	2	-	2	3
CO2	3	3	2	2	2	2	2	1	2	2	2	3	2	2	-	3	3
CO3	3	2	2	3	2	3	3	2	2	3	2	3	2	3	-	3	3
CO4	2	3	1	2	3	1	2	2	3	3	3	3	3	3	-	2	2
CO5	3	2	2	1	2	3	3	3	2	3	2	2	3	2	-	2	3