

Student Performance and Learning Outcomes

B .Pharm.

YEAR	COURSE OUTCOME (CO) CODE	SUBJECT	COURSE OUTCOME
1st	CO1	HUMAN ANATOMY AND PHYSIOLOGY-I	It is designed to impart fundamental knowledge on the structure and functions of the various systems of the human body. It also helps in understanding both homeostatic mechanisms. The subject provides the basic knowledge required to understand the various disciplines of pharmacy. Practicals allow the verification of physiological processes discussed in theory classes through experiments on living tissue, intact animals or normal human beings. This is helpful for developing an insight on the subject.
1st	CO2	PHARMACEUTICAL ANALYSIS	This deals with the fundamentals of analytical chemistry and principles of electrochemical analysis of drugs including their principles, titrations and analytical skills
1st	CO3	PHARMACEUTICS- I	This is designed to impart a fundamental knowledge on the preparatory pharmacy with arts and science of preparing the different conventional dosage forms.
1st	CO4	PHARMACEUTICAL INORGANIC CHEMISTRY	It deals with the monographs of inorganic drugs and pharmaceuticals.
1st	CO5	COMMUNICATION SKILLS	This course will prepare the young pharmacy student to interact effectively with doctors, nurses, dentists, physiotherapists and other health workers. At the end of this course the student will get the soft skills set to work cohesively with the team as a team player and will add value to the pharmaceutical business.
1st	CO6	A)REMEDIAL BIOLOGY/ B) REMEDIAL MATHEMATICS	A) To learn and understand the components of living world, structure and functional system of plant and animal kingdom. B) This is an introductory course in mathematics. This subject deals with the introduction to Partial fraction, Logarithm, matrices and Determinant, Analytical geometry, Calculus, differential equation and Laplace transform.
1st	CO7	HUMAN ANATOMY AND PHYSIOLOGY-II	This subject is designed to impart fundamental knowledge on the structure and functions of the various systems of the human body. It also helps in understanding both homeostatic mechanisms. The subject provides the basic knowledge required to understand the various disciplines of pharmacy.
1st	CO8	PHARMACEUTICAL ORGANIC CHEMISTRY –I	This subject deals with classification and nomenclature of simple organic compounds, structural isomerism, intermediates forming in reactions, important physical properties, reactions and methods of preparation of these compounds. The syllabus also emphasizes on mechanisms and orientation of reactions.

1st	CO9	BIOCHEMISTRY	Biochemistry deals with complete understanding of the molecular levels of the chemical process associated with living cells. The scope of the subject is providing biochemical facts and the principles to understand metabolism of nutrient molecules in physiological and pathological conditions. It is also emphasizing on genetic organization of mammalian genome and hetero & CO autocatalytic functions of DNA.
1st	CO10	PATHOPHYSIOLOGY	Pathophysiology is the study of causes of diseases and reactions of the body to such disease producing causes. This course is designed to impart a thorough knowledge of the relevant aspects of pathology of various conditions with reference to its pharmacological applications, and understanding of basic pathophysiological mechanisms. Hence it will not only help to study the syllabus of pathology, but also to get baseline knowledge required to practice medicine safely, confidently, rationally and effectively.
1st	CO11	COMPUTER APPLICATIONS IN PHARMACY	This subject deals with the introduction Database, Database Management system, computer application in clinical studies and use of databases.
1st	CO12	ENVIRONMENTAL SCIENCES	Environmental Sciences is the scientific study of the environmental system and the status of its inherent or induced changes on organisms. It includes not only the study of physical and biological characters of the environment but also the social and cultural factors and the impact of man on environment.
2nd	CO13	PHARMACEUTICAL ORGANIC CHEMISTRY –II	This subject deals with general methods of preparation and reactions of some organic compounds. Reactivity of organic compounds are also studied here. The syllabus emphasizes on mechanisms and orientation of reactions. Chemistry of fats and oils are also included in the syllabus.
2nd	CO14	PHYSICAL PHARMACEUTICS-I	The course deals with the various physical and physicochemical properties, and principles involved in dosage forms/formulations. Theory and practical components of the subject help the student to get a better insight into various areas of formulation research and development, and stability studies of pharmaceutical dosage forms.
2nd	CO15	PHARMACEUTICAL MICROBIOLOGY	Study of all categories of microorganisms especially for the production of alcohol antibiotics, vaccines, vitamins enzymes etc.
2nd	CO16	PHARMACEUTICAL ENGINEERING	This course is designed to impart a fundamental knowledge on the art and science of various unit operations used in pharmaceutical industry.
2nd	CO17	PHARMACEUTICAL ORGANIC CHEMISTRY –III	This subject imparts knowledge on stereo-chemical aspects of organic compounds and organic reactions, important named reactions, chemistry of important hetero cyclic compounds. It also emphasizes on medicinal and other uses of organic compounds.

2nd	CO18	MEDICINAL CHEMISTRY – I	This subject is designed to impart fundamental knowledge on the structure, chemistry and therapeutic value of drugs. The subject emphasizes on structure activity relationships of drugs, importance of physicochemical properties and metabolism of drugs. The syllabus also emphasizes on chemical synthesis of important drugs under each class.
2nd	CO19	PHYSICAL PHARMACEUTICS-II	The course deals with the various physical and physicochemical properties, and principles involved in dosage forms/formulations. Theory and practical components of the subject help the student to get a better insight into various areas of formulation research and development, and stability studies of pharmaceutical dosage forms
2nd	CO20	PHARMACOLOGY-I	The main purpose of the subject is to understand what drugs do to the living organisms and how their effects can be applied to therapeutics. The subject covers the information about the drugs like, mechanism of action, physiological and biochemical effects (pharmacodynamics) as well as absorption, distribution, metabolism and excretion (pharmacokinetics) along with the adverse effects, clinical uses, interactions, doses, contraindications and routes of administration of different classes of drugs.
2nd	CO21	PHARMACOGNOSY AND PHYTOCHEMISTRY I	The subject involves the fundamentals of Pharmacognosy like scope, classification of crude drugs, their identification and evaluation, phytochemicals present in them and their medicinal properties.
3rd	CO22	MEDICINAL CHEMISTRY – II	This subject is designed to impart fundamental knowledge on the structure, chemistry and therapeutic value of drugs. The subject emphasizes on structure activity relationships of drugs, importance of physicochemical properties and metabolism of drugs. The syllabus also emphasizes on chemical synthesis of important drugs under each Class
3rd	CO23	INDUSTRIAL PHARMACY-I	Course enables the student to understand and appreciate the influence of pharmaceutical additives and various pharmaceutical dosage forms on the performance of the drug product.
3rd	CO24	PHARMACOLOGY-II	This subject is intended to impart the fundamental knowledge on various aspects (classification, mechanism of action, therapeutic effects, clinical uses, side effects and contraindications) of drugs acting on different systems of body and in addition, emphasis on the basic concepts of bioassay.
3rd	CO25	PHARMACOGNOSY AND PHYTOCHEMISTRY II	The main purpose of subject is to impart the students the knowledge of how the secondary metabolites are produced in the crude drugs, how to isolate and identify and produce them industrially. Also this subject involves the study of producing the plants and phytochemicals through plant tissue culture, drug interactions and basic principles of traditional system of medicine

3rd	CO26	PHARMACEUTICAL JURISPRUDENCE	This course is designed to impart basic knowledge on important legislations related to the profession of pharmacy in India.
3rd	CO27	MEDICINAL CHEMISTRY – III	This subject is designed to impart fundamental knowledge on the structure, chemistry and therapeutic value of drugs. The subject emphasis on modern techniques of rational drug design like quantitative structure activity relationship (QSAR), Prodrug concept, combinatorial chemistry and Computer aided drug design (CADD). The subject also emphasizes on the chemistry, mechanism of action, metabolism, adverse effects, Structure Activity Relationships (SAR), therapeutic uses and synthesis of important drugs.
3rd	CO28	PHARMACOLOGY-III	This subject is intended to impart the fundamental knowledge on various aspects (classification, mechanism of action, therapeutic effects, clinical uses, side effects and contraindications) of drugs acting on respiratory and gastrointestinal system, infectious diseases, immuno pharmacology and in addition, emphasis on the principles of toxicology and chronopharmacology.
3rd	CO29	HERBAL DRUG TECHNOLOGY	This subject gives the student the knowledge of basic understanding of herbal drug industry, the quality of raw material, guidelines for quality of herbal drugs, herbal cosmetics, natural sweeteners, nutraceutical etc. The subject also emphasizes on Good Manufacturing Practices (GMP), patenting and regulatory issues of herbal drugs.
3rd	CO30	BIOPHARMACEUTICS AND PHARMACOKINETICS	This subject is designed to impart knowledge and skills of Biopharmaceutics and pharmacokinetics and their applications in pharmaceutical development, design of dose and dosage regimen and in solving the problems arise therein.
3rd	CO31	PHARMACEUTICAL BIOTECHNOLOGY	Biotechnology has a long promise to revolutionize the biological sciences and technology. Scientific application of biotechnology in the field of genetic engineering, medicine and fermentation technology makes subject interesting. Biotechnology is leading to new biological revolutions in diagnosis, prevention and cure of diseases, new and cheaper pharmaceutical drugs. Biotechnology has already produced transgenic crops and animals and the future promises lot more. It is basically a research-based subject.
3rd	CO32	PHARMACEUTICAL QUALITY ASSURANCE	This course deals with the various aspects of quality control and quality assurance aspects of pharmaceutical industries. It deals with the important aspects like cGMP, QC tests, documentation, quality certifications and regulatory affairs.

4th	CO33	INSTRUMENTAL METHODS OF ANALYSIS	This subject deals with the application of instrumental methods in qualitative and quantitative analysis of drugs. This subject is designed to impart a fundamental knowledge on the principles and instrumentation of spectroscopic and chromatographic technique. This also emphasizes on theoretical and practical knowledge on modern analytical instruments that are used for drug testing.
4th	CO34	INDUSTRIAL PHARMACY-II	This course is designed to impart fundamental knowledge on pharmaceutical product development and translation from laboratory to market
4th	CO35	PHARMACY PRACTICE	In the changing scenario of pharmacy practice in India, for successful practice of Hospital Pharmacy, the students are required to learn various skills like drug distribution, drug information, and therapeutic drug monitoring for improved patient care. In community pharmacy, students will be learning various skills such as dispensing of drugs, responding to minor ailments by providing suitable safe medication, patient counseling for improved patient care in the community set up.
4th	CO36	NOVEL DRUG DELIVERY SYSTEMS	This subject is designed to impart basic knowledge on the area of novel drug delivery systems.
4th	CO37	BIOSTATISTICS AND RESEARCH METHODOLOGY	To understand the applications of Biostatistics in Pharmacy. This subject deals with descriptive statistics, Graphics, Correlation, Regression, logistic regression Probability theory, Sampling technique, Parametric tests, Non Parametric tests, ANOVA, Introduction to Design of Experiments, Phases of Clinical trials and Observational and Experimental studies, SPSS, R and MINITAB statistical software's, analyzing the statistical data using Excel.
4th	CO38	SOCIAL AND PREVENTIVE PHARMACY	The purpose of this course is to introduce to students a number of health issues and their challenges. This course also introduced a number of national health programmes. The roles of the pharmacist in these contexts are also discussed.
4th	CO39	PHARMA MARKETING MANAGEMENT	The pharmaceutical industry not only needs highly qualified researchers, chemists and, technical people, but also requires skilled managers who can take the industry forward by managing and taking the complex decisions which are imperative for the growth of the industry. The Knowledge and Know-how of marketing management groom the people for taking a challenging role in Sales and Product management.
4th	CO40	PHARMACEUTICAL REGULATORY SCIENCE	This course is designed to impart the fundamental knowledge on the regulatory requirements for approval of new drugs, and drug products in regulated markets of India & other countries like US, EU, Japan, Australia, UK etc. It prepares the students to learn in detail on the regulatory requirements, documentation requirements, and registration procedures for marketing the drug products.

4th	CO41	PHARMACOVIGILANCE	This paper will provide an opportunity for the student to learn about development of pharmacovigilance as a science, basic terminologies used in pharmacovigilance, global scenario of Pharmacovigilance, train students on establishing pharmacovigilance programme in an organization, various methods that can be used to generate safety data and signal detection. This also develops the skills of classifying drugs, diseases and adverse drug reactions.
4th	CO42	QUALITY CONTROL AND STANDARDIZATION OF HERBALS	In this subject the student learns about the various methods and guidelines for evaluation and standardization of herbs and herbal drugs. The subject also provides an opportunity for the student to learn cGMP, GAP and GLP in traditional system of medicines.
4th	CO43	COMPUTER AIDED DRUG DESIGN	This subject is designed to provide detailed knowledge of rational drug design process and various techniques used in rational drug design process.
4th	CO44	CELL AND MOLECULAR BIOLOGY	Cell biology is a branch of biology that studies cells – their physiological properties, their structure, the organelles they contain, interactions with their environment, their life cycle, division, death and cell function. This is done both on a microscopic and molecular level. Cell biology research encompasses both the great diversity of single-celled organisms like bacteria and protozoa, as well as the many specialized cells in multi-cellular organisms such as humans, plants, and sponges.
4th	CO45	COSMETIC SCIENCE	This subject deals with the study of cosmetics including their preparation, uses and effects.
4th	CO46	PHARMACOLOGICAL SCREENING METHODS	This subject is designed to impart the basic knowledge of preclinical studies in experimental animals including design, conduct and interpretations of results.
4th	CO47	ADVANCED INSTRUMENTATION TECHNIQUES	This subject deals with the application of instrumental methods in qualitative and quantitative analysis of drugs. This subject is designed to impart advanced knowledge on the principles and instrumentation of spectroscopic and chromatographic hyphenated techniques. This also emphasizes on theoretical and practical knowledge on modern analytical instruments that are used for drug testing.
4th	CO48	DIETARY SUPPLEMENTS AND NUTRACEUTICALS	This subject covers foundational topics that are important for understanding the need and requirements of dietary supplements among different groups in the population.

MPT			
YEAR	COURSE OUTCOME (CO) CODE	SUBJECT	COURSE OUTCOME
MPT 1st year	CO1	BASIC MEDICAL SCIENCE	* The subject shall provide revision of basic Pharmacokinetics, Pharmacodynamics of various drugs introduction clinical features, Diagnosis, Treatment and Medical Management of various diseases of various system
	CO2	KINESIOLOGY & BIOMECHANICS	* This subject enable the candidates to understand the various physical principles, Laws, Rules are applicable on human body mechanics (specially Musculoskeletal system) the effects of various forces, stresses, pressures etc. Responsible to produce or oppose the movement or to maintain postures. Kinematics & Kinetics of joints, mobilities and stability, Biomechanics of various movements and sports techniques and their applications
	CO3	EXERCISE PHYSIOLOGY	* The students shall be able to brain storm the basic mechanism of energy systems. The effects of Therapeutics exercises on all system of human body and their applications. The Physiological effects of activities & various sports (Water, High altitude, Ice, Land etc.) Various evaluations processes that indirectly and directly affect the body system
	CO4	EXERCISE THERAPY & EMERGENCY CARE	* The students shall be able to review the theory and skillfull applications (practical) of various active/passive exercises, manual therapy and their effects on various system, indications, contraindications etc. As well as understand theory and practical applications of first aid treatment and emergency care in life threatening situation in order to save the victim's /patient's life and to delay/avoid further complications

MPT			
YEAR	COURSE OUTCOME (CO) CODE	SUBJECT	COURSE OUTCOME
MPT II Year	CO 05	PHYSICAL MEDICINE AND REHABILITATION	After the successful completion of course the student shall be able to use the physical principles and their utilization for patient care. Evaluation of disability and required framework of remedial approach is the principle aim of PMR.
	CO 06	CLINICAL AND EDUCATIONAL PSYCHOLOGY	Objectives of Clinical & Educational Psychology is to provide the students with information with regard to the theoretical constructs used in the interpretation of behavior to make students appreciate the significant of psychological application in the field of physiotherapy and to introduce the students to the field of clinical psychology briefly familiarizing them with the causes, symptoms and overall understanding of various physiotherapy methods.
	CO 07	PHYSIOTHERAPY MANAGEMENT IN SPECIALITIES	At the end of the course students shall be able to assess & diagnose various conditions & disorders of concerned specialties.
		(ORTHO/CARDIO/NEURO/SPORTS)	The students shall be able to apply appropriate treatment techniques in the different phases of rehabilitation.
	CO 08	ADVANCE PHYSIOTHERAPY IN SPECIALITIES	At the completion of course students shall be able to apply various advance techniques & recent trends in concerned specialties.
		(ORTHO/CARDIO/NEURO/SPORTS)	Able to develop sense of clinical reasoning that in cooperate theoretical concepts with evidence based practice in concerned specialties.
	CO 09	DISSERTATION	After completion of course the students shall be oriented to the knowledge of research methodology & its application as per the subject expertise.
CO 10	PRACTICAL PHYSIOTHERAPY MANAGEMENT IN SPECIALITIES (ORTHO/CARDIO/NEURO/SPORTS)	student shall procure through knowledge in the specific assessment & evaluation as per specialty condition in clinical & community setups.	

BPT			
YEAR	COURSE OUTCOME (CO) CODE	SUBJECT	COURSE OUTCOME
1st	CO1	HUMAN ANATOMY	At the end of the course, the candidate shall-
			Recognize the anatomical structures and explain the association of body systems
			Demonstrate practical procedures used to examine anatomical structures and evaluate human functions
	CO2	HUMAN PHYSIOLOGY	At the end of the course, the student will-
			Acquire the knowledge of the relative contribution of each organ system in maintenance of the milieu interior [Homeostasis]
Be able describe physiological functions of various systems, with special reference to Musculo-skeletal, Neuro-motor, Cardio-respiratory, Female urogenital function and alteration in functions with ageing.			
Analyze physiological response & adaptation to environmental stresses with special emphasis on physical activity and temperature.			
Acquire the skill of basic clinical examination, with special emphasis to Peripheral & Central Nervous system, cardiovascular & Respiratory system, & Exercise tolerance/ Ergography.			
1st	CO3	BIOELECTRICAL MODALITIES	This course will enable the student to understand the basic electricity and medical electronics and its application in electrotherapy instruments.
	CO4	BIOMECHANICAL MODALITIES	The students shall able to understand the basic mechanics and their application in physiotherapy in restoration of physical function.
	CO5	SOCIOLOGY AND PSYCHOLOGY	This course will introduce students to the basic sociological concepts principles and social processes, social institutions (in relation to the individual, family and community) and the various social facts affecting the family in rural and urban communities in India.the students shall have the knowledge related to general and clinical psychology and its implementationin clinical aspects.
2nd	CO6	PHARMACOLOGY	The students will be able to understand and correlate the biochemical process involved with drugs in human body and their clinical importance especially in physiotherapeutic, in addition, the students will be able to fulfill with 75% accuracy (as measured by written, oral, practical and internal evaluation) the following objectives of the courses.
		BIOCHEMISTRY	This course will provide the student with students basic Biochemistry knowledge with special emphasis on clinical understanding of biochemistry process. Students will be able to relate these process with underlying mechanism of physiotherapeutics.
2nd	C07	Pathology	The students shall be able to -
			1- Identify the pathogenesis of the various conditions.
			2- co-relate the investigation reports with the clinical conditions.
		Microbiology	to understand and co-relate the microbiological process in varius conditions .

2nd	CO8	GENERAL SURGERY	The student shall be able to 1- a broad and starting about commend medical discuses surgeries & their aetiocy pathology type & degree of disability of general body ,viscera ,pregnancy ,eyes & ear ,nose & Throat medical problem and to corelate with physiotherapy .
2nd	CO9	GENERAL MEDICINE	the student shall be able to describe various common medical diseases in terms of their aetiology ,pathology clinical features ,investigations ,treatment and management
2nd	CO10	ORTHOPAEDICS	After the conclusion of the course the student will be introduced to , 1- Diagnose & identifey various musculos /conditions 2- A bring knowledge of orthopeadics surgeries and their related complication 3- Physical disabilities and their implication on the human body
2nd	CO11	EXERCISE THERAPY	upon completion of the coursse the student- 1-understand the physiology of exercise 2-shall be able to demonstrate exercises on models. 3-shall be able to modify the gait,postural,and joint deviations and deformities.
2nd	CO12	ELECTROTHERAPY	all the completion of the course the student shall be able to 1-operate proficiently the electrotherapeutic modalities. 2-identify indication and contraindications of the various electrotherapeutic modalities.
3rd	CO13	NEUROLOGY,NEUROSURGERY,CARDIOTHORACIC DISEASES AND SURGERY.	the course shall introduce students to a different neurological and cardiovascular conditions and their management the students shall procure the knowledge of different medical and surgical interventions in cardiorespiratory and neurological conditions.
3rd	CO14	PYSIOTHERAPY IN ORTHOPAEDICS	the students shall be able to evaluate the disorders due to musculo skeletal dysfunction. they shall be able to demonstrate the problems and plan the effective rehabilitation for musculoskeletal disorders.
3rd	CO15	PHYSIOTHERAPY IN NEUROLOGY AND NEUROSURGERY	the students shall be able to identify the neurological disorder and their complication they shall be able to demonstrate specific assessment and plan of treatment for different neurological conditions.
3rd	CO16	PHYSICAL EVALUATION	the students shall be able to evaluate the disorders of different systems like cardiovascular ,nervous and musculoskeletal and gynaecology to confirm and/or differentiate disorders . they shall develop the technical skill to screendifferent pathological conditions.
3rd	CO17	BIOMECHANICS AND BIOENGINEERING	the students shall be able to understand and demonstrate appliued role of biomechanics and kinesiology in relation with health statusand diseases with the thorough knowledge of biomechanics .they shall be able to assess and manage the disease effectively. with the knowledge of bioengineering they shall be able to rehabilitate individuals with the orthotic /prosthetic support and adaptive devices..

4th	CO18	PHYSICAL DIAGNOSIS AND PRESCRIPTION	the course shall provide the knowledgr to diffrentiate and diagnose the conditions according to various signs and symptoms.
			shall be capable to prescribe the appropriaterehabilitation regimen for better outcome.
4th	CO19	PHYSIOTHERAPY IN CARDIOTHORACIC CONDITIONS	the course will provide the technical knowledge for effective management of different cardiothoracic conditions at various stages..
			the students shall be introduce to the assessment and management of cardiothoracic physiotherapy
4th	CO20	SPORTS PHYSIOTHERAPY	after completion of the course the student shall be able to identify the sports injuries and mechanisms,clinical presentation,related toinvestigations , treatment and complication and prevention of the sports injuries.
			shall be able to provide specific training program,nutrition advices,s and psychological skills etc in order to improve the overall fitness and performances.
4th	CO21	COMMUNITY MEDICINE ,COMMUNITY PHYSIOTHERAPY,FIE LD VISIT AND PHYSIOTHERAPY ETHICS	The student shall be able to understand the values and dignity of the physiotherapy profession as well as how to dael with the patients privacy ,dignity,respects etc.
			to understand the influence
4th	CO22	REHABILITATION THERAPY AND BIOSTATISTICS AND REHABILITAION THERAPY	The students shall be able to develop a deep conscious data appreciation and develop basic statistical skills in collection,compilation,analysis and interpretation of data in health sectors.
			students shall be able to plan the rehabilitation effection in multidisciplinary team approach.

BMLT			
YEAR	COURSE OUTCOME (CO) CODE	SUBJECT	COURSE OUTCOME
Ist year	CO1	BIOCHEMISTRY	* At the end of course students introduce the human biochemistry and their uses.
			* And also able to perform basis Laboratory procedure.
			* Students shall be oriented to Human Laboratory.
	CO2	HAEMATOLOGY AND CLINICAL PATHOLOGY	* This course shall be enable to students demonstration and basic technique like: Hb, Blood grouping, ESR, PCV, etc.
			* The students shall be able to identify the human blood cell.
			* This course shall introduce students to the basic concept principle of Haematology.
	CO3	APPLIED HISTOLOGY	* Students should able to define Gross examination of tissues and also demonstrate the function and structure of human body.
			* At the end of course students shall be able identify all fundamentals of Histopathology Lab.
			* Students should able to introduce different technique like: Microtomy, Grossing, Embedding of Histology Laboratory.
	CO4	MICROBIOLOGY	* At the end of course students shall be able to demonstrate the basic diagnostic procedure like: Gram. Stain, AFB Stain and basic instrumentation.
			* Students also be able to identify all the Laboratory Equipments.
	IInd year	CO5	ANALITICAL BIOCHEMISTRY
* Students should be able to introduce and performs the Electrophoroses, Chromatography etc.			
CO6		HAEMATOLOGY	* At the end of course the candidate shall be able to describe Blood Bank technique used in Blood Bank.
			* Students shall be introduce the Haematological like: Coomb's Test, Crossmatch, Blood Grouping etc.
			* Acquire the skill of basic instrumentation related to Haematology.
CO7		CELLULAR PATHOLOGY	* The students should able to perform some special stains like: PAS, MGG, etc.
			* At the end of course they able to demonstrate the different Histological layers of the body system.
			* Students should be able to recognize Microscopic structure of tissues.
CO8		IDENTIFICATION OF BACTERIA	* The students shall able to-
			Identify the Bacteriological disease like: Typhoide, Cholera, TB, Leprosy etc.
			* Students should also identify the type and Infection, Viral Inoculation.
CO9		CLINICAL BIOCHEMISTRY	* Students also introduce Microbiological technique such as: Food, Water and Air.
	At the end of course the candidate shall be able to demonstrate and Diagnosed all clinical Biochemistry Test and Automation in Clinical Biochemistry.		

IInd year	CO10	APPLIED HAEMATOLOGY	* The students shall be able to do the Haematological profile in diagnosis like Anemia, Leukemia, Bleeding disorder etc. * Students shall able to demonstrate techniques like: Hb Electrophoresis, Scikel Cell Anemia etc.
	CO11	SPECIAL HISTOLOGY	* Students able to recognized the Histological structure of all body system.
			* The students shall able to perform all special stain which is use in Histology.
			* Students should able to different cytological technique like FNAC.
CO12	APPLIED MICROBIOLOGY	* students should able to perform Grossing, Microtomy, Microscopy and other techniques At the end of the course the candidate shall be able to perform all the diagnostic procedure related to Bacteriology, Mycology, Virological technique, Immunological procedure & other serodiagnostic test. And able to work any Microbiology Lab or Hospital.	
DMLT Ist year	CO1	APPLIED ANATOMY & PHYSIOLOGY	* After completion of this course the students shall able to understand the brief and basic of structures and functions of various organs and system of human body.
	CO2	BIOCHEMISTRY & CLINICAL PATHOLOGY	* At the end of this year the students shall be able to programs the Clinical Biochemistry Test such as: KFT, LFT and clinical pathology the students can perform stool examination, Urin examination etc.
DMLT IInd year	CO3	HAEMATOLOGY, BLOOD BANKING AND PARASITOLOGY	* Students shall be able to demonstrate practical the procedure used to identification of Blood cells, Sickle cell, Anemia etc.
			* Students shall be able demonstrate the basic technique like: Coomb's test, Cross matching, Blood Grouping etc.
			* Able to performs special technique like: seperation of blood component.
	CO4	MICROBIOLOGY, SIROLOGY, HISTOLOGY & CYTOLOGY	* At the end of course the students shall able to idenifty the Bacteria and serological procedures like Widal, VDRL etc. * The students shall able in basic fundamental and technical terminology and can perform Histological and Cytological procedures like tissues processing, FNAC, Microtomy, H&E stain etc.

DDT			
YEAR	COURSE OUTCOME (CO) CODE	SUBJECT	COURSE OUTCOME
DDT Ist year	CO1	APPLIED ANATOMY & PHYSIOLOGY	* At the end of course the students shall be able to understand the Brief and basic structure and functions of various system of the huma body as well as their interrelation.
			* The students shall also able to understand the detail structure and functions of Excretory, Circulatory system and Peritoneal Cavity.
	CO2	FUNDAMENTALS OF DIALYSIS	At the end of course the students shall be able to understand
			* The basic principle and types of dialysis, various renal diseases that affect Kidney functions, diseases of other system that affect the renal function, their clinical features and related investigations * Basic nursing procedure and patients care
DDT IInd year	CO3	PERITONEAL DIALYSIS	* At the end of course the students shall be able to understand principles procedures precautions indications and contraindications of peritoneal dialysis
			* They will be able to assess the dangers & complications during peritoneal dialysis and their management
			* Students shall be able to operate peritoneal dialysis Apparatus
	CO4	HAEMODIALYSIS	* At the end of course the students shall be able to understand principles procedures precautions indications and contraindications of haemodialysis
			* They will be able to assess the dangers & complications during haemodialysis and their management
			* Students shall be able to operate haemodialysis Machines

B. Sc. Nursing			
YEA R	COURSE OUTCOME (CO) CODE	SUBJECT	COURSE OUTCOME
1st	CO1	ENGLISH	The course is designed to enable students to enhance ability to comprehend spoken and written English (and use English) required for effective communication in their professional work students will practice their skills in verbal and written english during clinical and classroom experiences.
1st	CO2	ANATOMY & PHYSIOLOGY	The course is designed to enable students to acquire knowledge of the normal structure of various human body systems and understand the alterations in anatomical structures in disease and The course is designed to assist the students to acquire knowledge of the normal physiology of various human body systems and understand the alterations in physiology in diseases and practice of nursing.
1st	CO3	NUTRITION & BIOCHEMISTRY	The course is designed to assist the students ot acquire knowledge of nutrition for maintenance of optimum health at different stages of life and its application for practice of nursing. The course is designed to assist the students ot acquire knowledge of the normal biochemical composition and functioning of human body and understand the alterations in biochemistry in diseases for practice of nursing.
1st	CO4	NURSING FOUNDATIONS	The course is designed to help the students to develop an understanding of the philosophy,objectives, theories and process of nursing in various supervised clinical settings. It is aimed at helping the students to acquire knowledge, understanding and skills in techniques of nursing and practice them in supervised clinical settings.
1st	CO5	PSYCHOLOGY	The course is designed to assist the students ot acquire knowledge of acquire knowledge of fundamentals of psychology and develop an insight into behaviour of self and others, further it is aimed at helping them to practice the principles of mental hygiene for promoting mental health in nursing practice.
1st	CO6	MICROBIOLOGY	The course is designed to enable students to acquire understanding of fundamental of Microbiology and identification of various micro-organisms. It is also provides opportunities for practicing infection control measures in hospital and community settings.
1st	CO7	INTRODUCTION OF COMPUTERS	The course is designed to help the students to develop basic understanding of uses of computer and its applications in nursing.
2nd	CO8	SOCIOLOGY	The course is designed to introduce the concepts of sociology related to community and social institutions in india and relationship with health, illness and nursing.
2nd	CO9	MEDICAL SURGICAL -I	The purpose of this course is to acquire knowledge and develop proficiency in caring for patients with medical and surgical disorders in carpentries in carpentries in varieties of health care setting and at home.

2nd	CO10	PHARMACOLOGY, PATHOLOGY,GENETICS	The course is designed to enable students to acquire understanding of pharmaco-dynamics, pharmacokintics, principles of therapeutics and nursing implications. The course is designed to enable students to acquire knowledge of pathology of various disease conditions and apply this knowledge in practices of nursing.
2nd	CO11	COMMUNITY HEALTH NURSING -I	This course is designed for to appreciate the principal of promotion and maintenance of health.
2nd	CO12	COMMUNICATION AND EDUCATION TECHNOLOGY	The course is designed to help the students to acquire understanding of the principles and methods of communication and teaching. It helps to develop skill in communicating effectively, maintaining effective interpersonal relations, teaching individuals and groups in clinical, and community health and education settings.
3rd	CO13	MEDICAL SURGICAL - II	The purpose of this course is to acquire knowledge and develop proficiency in caring for patients with medical and surgical disorders in varieties of health care settings and at home.
3rd	CO14	CHILD HEALTH NURSING	The course is designed for developing an understanding of the modern approach to child-care, identification, prevention and nursing management of common health problems of neonates and children.
3rd	CO15	MENTAL HEALTH NURSING	The course is designed for developing an understanding of the modern approach to mental health care, identification, prevention and nursing management of common metal health problems with special emphasis on therapeutic interventions for individuals, family and community.
3rd	CO16	NURSING RESEARCH & STATISTICS	This course is desighed to enable students to develop as understanding of basic concets of research, research process and statistics . It is further , strusted to conduct/ participate in need based research studies in various setting and utilize the research findings to provide quality-nursing care . The hours practical will be utilized for conducting individual /group research project.
4th	CO17	MIDWIFERY & OBSTETRICAL NURSING	This course is designed for students to appreciate the concepts and principles of midwifery and obstetrical nursing. It helps them to acquire knowledge and skills in rendering nursing care to normal and high risk pregnant woman during antenatal, natal and post natal period in hospitals and community settings. it also helps to develop skills in managing normal and high-risk neonates and participate in family welfare programme.
4th	CO18	COMMUNITY HEALTH NURSING -II	this course is designed for students to practice community health nursing for the individual, family and groups at both urban and rural settings by using concepts and principles of health and community health nursing.
4th	CO19	MANAGEMENT AND NURSING SERVICES AND EDUCATION	The course is designed to enable students to acquire understanding of acquire understanding of management of clinical and community health nursing services, nursing educational programmes. This is also designed to enable students to acquire understanding of the professional responsibilities, prospects and contribution to the growth of the profession.

POST BASIC B.Sc NURSING			
YEAR	COURSE OUTCOME (CO) CODE	SUBJECT	COURSE OUTCOME
1st	CO20	NURSING FOUNDATIONS	This course will help students develop an understanding of the philosophy, objectives and responsibilities of nursing as a profession. The purpose of the course is to orient to the current concepts involved in the practice of nursing and developments in the nursing profession.
1st	CO21	NUTRITION & DIETETICS	This course is designed to provide the students with a wide knowledge of dietetics in Indian setting. That the practice of teaching optimum and realistic dietary planning can become an integral part of nursing practice.
1st	CO22	BIOCHEMISTRY & BIOPHYSICS	This course introduces the basic principles of biochemistry and biophysics related to nursing.
1st	CO23	PSYCHOLOGY	This course is designed to reorient and widen the student's knowledge of fundamentals of psychology. The student is offered an opportunity to apply the theoretical concepts in the clinical setting and thereby understand the psychodynamics of patient behaviour. This course would also help the student to develop an insight into her own behaviour.
1st	CO24	MATERNAL NURSING	This course is designed to widen the student's knowledge of obstetrics during pregnancy, labour and puerperium. It also helps to acquire knowledge and develop skill in rendering optimum nursing care to a child bearing mother in a hospital or community and help in the management of common gynecological problems.
1st	CO25	CHILD HEALTH NURSING	This course is aimed at developing an understanding of the modern approach to childcare, the common health problems of children and neonates in health and sickness.
1st	CO26	MICROBIOLOGY	This course reorients the students to the fundamentals of microbiology and its various subdivisions. It provides opportunities to gain skill in handling and use of microscope for identifying various micro-organisms. It also provides opportunities for safe handling of materials containing harmful bacteria and methods of destroying microorganisms.
1st	CO27	MEDICAL & SURGICAL NURSING	The purpose of this course is to widen the students knowledge and develop proficiency in caring for patients with medical surgical problems. This course includes review of relevant anatomy and physiology pathophysiology in medical surgical disorders and the nursing management of these conditions.
1st	CO28	ENGLISH	The course is designed to enable students to enhance ability to comprehend spoken and written English (and use English) required for effective communication in their professional work students will practice their skills in verbal and written english during clinical and classroom experiences.
2nd	CO29	SOCIOLOGY	This course is to reorient students to sociology related to community and social institution in India and its relationship with health, illness and nursing
2nd	CO30	COMMUNITY HEALTH NURSING	The course enables the students to understand the national health care delivery system and to participate in the delivery of community health nursing.

2nd	CO31	MENTAL HEALTH NURSING	The course enables the students to recognize and appreciate the causes, symptoms and process of abnormal human behaviour. It also introduces the student to the present day treatment modalities in the light of psychological social and cultural factors affecting human behaviour this course helps the students to learn principles of mental health and psychiatric nursing and to develop beginning skills in the management of the mentally ill in hospital and community.
2nd	CO32	INTRODUCTION TO NURSING EDUCATION	This course introduces the students to principles and concepts of education, curriculum development and methods and media of teaching. It also describes the steps in curriculum development and implementation of educational programmes in nursing.
2nd	CO33	INTRODUCTION TO NURSING SERVICE ADMINISTRATION	This course is designed to give an opportunity to the student to gain an understanding of the principles of administration and its application to nursing service. It is also intended to assist the students to develop and understanding of professional leadership need.
2nd	CO34	INTRODUCTION TO NURSING RESEARCH & STATISTICS	The course is designed to assist the students to develop and understanding of basic concepts of research and statistics, use the findings of nursing research in nursing practice, apply the knowledge in conducting project(s) and solve problems related to nursing using scientific method.

M.Sc NURSING			
YEAR	COURSE OUTCOME (CO) CODE	SUBJECT	COURSE OUTCOME
1st	CO35	NURSING EDUCATION	This course is designed to assist students to develop a broad understanding of fundamental principles, concepts, trends and issues related to education and nursing education. Further, it would provide opportunity to students to understand, appreciate and acquire skills in teaching and evaluation, curriculum development, implementation, maintenance of standards and accreditation of various nursing educational programs.
1st	CO36	ADVANCE NURSING PRACTICE	The course is designed to develop an understanding of concepts and constructs of theoretical basis of advance nursing practice and critically analyze different theories of nursing and other disciplines.
1st	CO37	NURSING RESEARCH AND STATISTICS	This course is designed to assist the student to acquire an understanding of the research methodology and statistical methods as a basis for identifying research problem, planning and implementing a research plan. It will further enable the students to evaluate research studies and utilize research findings to improve quality of nursing practice, education and management.

1st	CO38	CLINICAL SPECIALITY - OBSTETRIC & GYNAECOLOGICAL NURSING	This course is designed to assist students in developing expertise and indepth understanding in the field of Obstetric and Gynaecological Nursing. It will help students to appreciate the client as a holistic individual and develop skill to function as an independent midwifery practitioner. It will further enable the student to function as educator, manager, and researcher in the field of Obstretic and Gynaecological nursing.
1st	CO39	CLINICAL SPECIALITY - CHILD HEALTH NURSING	This course is designed to assist student in developing expertise and indepth understanding in the field of Pediatric Nursing. It will help students to appreciate the child as a holistic individual and develop skill to function as neonatal and pediatric nurse specialist. It will further enable the student to function as educator, manager, and researcher in the field of Paediatric nursing
1st	CO40	CLINICAL SPECIALITY - MEDICAL SURGICAL NURSING	This course is common for the students undergoing clinical speciality-II in neuro science nursing/cardiovascular & thoracic nursing/critical care nursing/oncology nursing/orthopaedic and rehabilitation nursing/nephro & urology nursing, gastroenterology nursing/geriatric nursing.
1st	CO41	CLINICAL SPECIALITY - MENTAL HEALTH NURSING	his course is designed to assist student in developing expertise and indepth understanding in the field of Psychiatric Nursing. It will help students to appreciate the client as a holistic individual and develop skill to function psychiatric nurse specialist. It will further enable the student to function as educator, manager, and researcher in the field of Psychiatric nursing.
1st	CO42	CLINICAL SPECIALITY - COMMUNITY HEALTH NURSING	The course is designed to assist student in developing expertise and indepth understanding in the field of Community Health Nursing. It would help students to apreciate holistic life style of individuals, families & groups and develop skills to fuction as Community Health Nurse specialist/practitioner. It would further enable student to function as an educator, manager and researcher in the field of Community Health Nursing.
2nd	CO43	NURSING MANAGEMENT	This course is designed to assist student to develop a broad understanding of Principles, concepts, trends and issues related to nursing management. Further, it would provide opportunity to students to understand, appreciate and acquire skills in planning, supervision and management of nursing services at differnet levels to provide quality nursing services.
2nd	CO45	NURSING RESEARCH AND STATISTICS	At the end of the course, the students will be able to develop an understanding of the statistical methods and apply them in conducting research studies in nursing.

2nd	CO46	CLINICAL SPECIALITY - OBSTETRIC & GYNAECOLOGICAL NURSING	This course is designed to assist the student in developing expertise and in-depth understanding in the field of Obstetric and gynecological Nursing. It will help the student to develop advanced nursing skills for nursing interventions in various obstetrical and gynecological conditions. It will further enable the students to function as midwifery nurse practitioner/specialist, educator, manager and researcher in the field of obstetric and gynecological nursing.
2nd	CO47	CLINICAL SPECIALITY - CHILD HEALTH NURSING	This course is designed to assist the student in developing expertise and in-depth understanding in the field of Pediatric Nursing. It will help students to develop advanced skills for nursing intervention in various pediatric medical and surgical conditions. It will enable the student to function as pediatric nurse practitioner/specialist. It will further enable the student to function as educator, manager, and researcher in the field of Paediatric Nursing.
2ND	CO48	CLINICAL SPECIALITY - MEDICAL SURGICAL NURSING	This course is designed to assist students in developing expertise and in-depth understanding in the field of cardiovascular and thoracic nursing. It will help students to develop advanced skills for nursing intervention in various cardio medical and surgical conditions. It will enable the student to function as Cardiovascular and Thoracic Nurse practitioner/specialist. It will further enable the student to function as educator, manager and researcher in the field of cardio vascular and thoracic nursing.
2nd	CO49	CLINICAL SPECIALITY - MENTAL HEALTH NURSING	This course is designed to assist the student in developing expertise and in-depth understanding in the field of Psychiatric Nursing. It will help students to develop advanced skills for nursing intervention in various psychiatric conditions. It will enable the student to function as psychiatric nurse practitioner/specialist. It will further enable the student to function as educator, manager, and researcher in the field of Psychiatric Nursing.
2nd	CO50	CLINICAL SPECIALITY - COMMUNITY HEALTH NURSING	This course is designed to assist the student in developing expertise and in-depth understanding in the field of Community Health Nursing. It will help students of community health care setting. It will enable the student to aspects of community health nurse practitioner/specialist. It will further enable the student to function as educator, manager and researcher in the field of community health nursing.

BHMCT			
YEAR	COURSE OUTCOME (CO) CODE	SUBJECT	COURSE OUTCOME
I to III/IV	CO1	Basic Culinary Skills	The students should gain the knowledge and insight into various types of cuisine and make indepth study of kitchen organization, management and varuous modern equipments,knowledge of meat,cold kitchen and basic baking techniques, learning of quantity food production and Buffet cooking.
I to III/IV	CO2	Food & Beverage Service	The students should gain the knowledge and insight into the food and bevergae service departments, its operations, menu plannning, different types of service, knowledge of wines, beer and tobacco, planning organizing staffing etc. of F& B outlets.
I to III/IV	CO3	Hotel Housekeeping	The students should gain the knowledge and insight into the Housekeeping departments and accommodation operations, Public area cleaning, guest room cleaning, laundry management,skills for handling different types guest complaints , knowledge of interior decoration ,saftey and security and pest control.,
I to III/IV	CO4	Front Office Operation	<p>The students should gain the knowledge and insight into the Front Office Operations, organize and perform front office functions that are critical to the suces of hotel operations.</p> <p>Other courses which are the part of the hotel management is nutrition, food science, Principal of management, retail management, finanace management, but they are considered as a acessory subjects, hotel management is having major four core areas which have been already shown with their course outcome and taught all 4 year in different forms according to the teaching and learning requirements.</p>

BDS			
YEAR	COURSE OUTCOME (CO) CODE	SUBJECT	COURSE OUTCOME
1st	CO1	HUMAN ANATOMY	The students should gain the knowledge and insight into the functional anatomy of the normal human head and neck, functional histology and an appreciation of the genetic basis of inheritance and disease, and the embryological development of clinically important structures, so that relevant anatomical & scientific foundations are laid down for the clinical years of the BDS course.
1st	CO2	HUMAN PHYSIOLOGY & BIOCHEMISTRY	The broad goal of teaching undergraduate students Human physiology is to provide the student comprehensive knowledge of the organ systems of the body to facilitate an understanding of the physiological basis of health and disease. And the major aim of biochemistry is to provide a sound but crisp knowledge on the biochemical basis of life processes relevant to the human system and to dental practice.
1st	CO3	DENTAL ANATOMY & HISTOLOGY	The student is expected to appreciate the normal development, morphology, structure & functions of oral tissues & variations in different pathological/non- pathological states. And the histological basis of various dental treatment procedures and physiologic ageing process in the dental tissues.
2nd	CO4	GENERAL PATHOLOGY & MICROBIOLOGY	The student should be competent to apply the scientific study of disease processes, which result in morphological and functional alterations in cells, tissues and organs to the study of pathology and the practice of dentistry. He must understand the basics of various branches of microbiology and be able to apply the knowledge relevantly.
2nd	CO5	GENERAL PHARMACOLOGY	The broad goal of teaching undergraduate students in pharmacology is to inculcate rational and scientific basis of therapeutics keeping in view of dental curriculum and profession.
2nd	CO6	DENTAL MATERIALS	The science of dental material has undergone tremendous changes over the years. Continued research has led to new material systems and changing concepts in the dental field. Interlinked with various specialised branches of chemistry, practically all engineering applied sciences and biological characteristics, the science of dental material emerged as a basic sciences in itself with its own values and principles.
3rd	CO7	GENERAL MEDICINE	Special emphasis should be given throughout on the importance of various diseases as applicable to dentistry. 1. Special precautions /contraindications of anesthesia and various dental procedures in different systemic diseases. 2. Oral manifestations of systemic diseases. 3. Medical emergencies in dental practice.
3rd	CO8	GENERAL SURGERY	To acquaint the student with various diseases, which may require surgical expertise and to train the student to analyse the history and be able to do a thorough physical examination of the patient.

3rd	CO9	ORAL PATHOLOGY	The student should be able to comprehend- 1.The different types of pathological processes that involve the oral cavity. 2.The manifestations of common diseases, their diagnosis & correlation with clinical pathological processes. 3. The oral manifestations of systemic diseases to help in correlating with systemic physical signs & laboratory findings.
4th	CO10	ORAL MEDICINE& RADIOLOGY	To formulate a clinical diagnosis, order investigations, seek expert consultations to come to a final diagnosis and chart out a proper treatment plan for patients with oral lesions. He/she must have a sound knowledge Interpretation of various images and formulate a differential diagnosis.
4th	CO11	PROSTHODONTICS	The graduate should be competent to carry out treatment of conventional complete and partial dentures both removable and fixed types including full veneer crowns
4th	CO12	PEDODONTICS	Be able to instill a positive attitude and behaviour in children towards oral health and understand the principles of prevention and preventive dentistry right from birth to adolescence. Be able to guide and counsel the parents/guardian in regards to various treatment modalities including different facets of preventive dentistry. Be able to treat dental diseases occurring in child patient.
4th	CO13	PERIODONTICS	Be able to diagnose the patient's periodontal problem, plan and perform appropriate periodontal treatment. Be Competent to perform thorough oral prophylaxis, subgingival scaling, root planning and minor periodontal surgical procedures. Be Familiar with concepts of osteointegration and basic surgical aspects of implantology.
4th	CO14	ORTHODONTICS	Understand about normal growth and development of facial skeleton and dentition. Able to diagnose the various malocclusion categories. To plan and execute preventive and interceptive orthodontics. To manage treatment of simple malocclusion such as anterior spacing using removable appliances.
4th	CO15	PUBLIC HEALTH DENTISTRY	Be able to educate patients concerning the etiology and prevention of oral disease and encourage them to assure responsibility for their oral health.Have knowledge of the organization and provision of health care in community and in the hospital service Have knowledge of the prevalence of common dental conditions in India and community based preventive measures. Be able to administer hygiene instructions, topical fluoride therapy and fissure sealing.
4th	CO16	CONSERVATIVE DENTISTRY & ENDODONTICS	To diagnose and restore all carious lesions. Be able to diagnose and appropriately treat pulpally involved teeth (pulp capping procedures). Be competent to carry out small composite restorations. Be able to perform RCT for anterior teeth. Understand the principles of aesthetic dental procedures
4th	CO17	ORAL SURGERY	Be able to diagnose, manage and treat patients with basic oral surgical problem, minor oral surgical procedures under Local Anesthesia like trans-alveolar extraction, frenectomy, oral Implantology.He/she should be able to provide primary care and manage medical emergencies in the dental office.

MBA			
YEAR /Sem	COURSE OUTCOME (CO) CODE	SUBJECT	COURSE OUTCOME
1st	CO1	MANAGERIAL ECONOMICS	Managerial Economics presents the principles of economics, demand analysis, market structure and macro environment and its application in the decision-making. It enables the students to learn the basic principles of economics and its application in the decision making in the business.
1st	CO2	ACCOUNTING AND FINANCE FOR MANAGERS	The basic purpose of this course is to develop an insight of postulates principles, and techniques of accounting and utilization of financial and accounting information for planning decision-making and control.
1st	CO3	INTERNATIONAL BUSINESS ENVIRONMENT	The objective of this course is to enhance students' knowledge and understanding of international business environment and expose them to concepts and practices of international trade.
1st	CO4	QUANTITATIVE TECHNIQUES	The objective of the course is to make the students familiar with some basic statistical and linear programming techniques. The focus, however, is in their applications in business decision making.
1st	CO5	BUSINESS COMMUNICATION	To train students to enhance their skills in written as well as oral communication with necessary principles and techniques of business communication.
1st	CO6	PRINCIPLES AND PRACTICES OF MANAGEMENT	To familiarize students with comprehensive contemporary Management Principles and Practices.
2nd	CO7	PRODUCTION & OPERATIONS MANAGEMENT	The Course is designed to acquaint the students with decision making in : Planning, scheduling and control of Production and Operation functions in both manufacturing and services, Productivity improvement in operations through layout engineering and quality management etc. effective and efficient flow, replenishment and control of materials with reference to both manufacturing and services organizations.
2nd	CO8	HUMAN RESOURCE MANAGEMENT	The objective of the course is to equip students with various human resource management concepts and current practices in managing human resources in knowledge based environment.
2nd	CO9	MARKETING MANAGEMENT	The objective of the course is to expose students to various concepts of marketing, marketing mix and the analysis of the market, which enable the students to learn the basics of marketing, process, product mix, marketing channels and product promotion.
2nd	CO10	ETHICS, CSR & CORPORATE GOVERNANCE	The objective of the course is to highlight the importance of values and ethics in business and make students aware of the concept of CSR so as to imbibe these in them and prepare them to be ethical managers.
2nd	CO11	OPERATIONS RESEARCH	The objective of this course is to develop an understanding of basic operations research techniques and their role in managerial decisions.

2nd	CO12	FINANCIAL MANAGEMENT	The objective of this course is to discuss the theory of finance that provides the framework for investment & financing decisions, expound several analytical methods used to cope up with varied problems in financial management and present information about the institutions and environment relevant to corporate finance.
2nd	CO13	ORGANISATIONAL BEHAVIOUR	The objective of the course is to understand individual and group behavior in organizations and other organizational concepts to achieve organizational effectiveness
2nd	CO14	RESEARCH METHODOLOGY	This course enables the students to learn the importance of research, various methods of analysis of data, and its applications in business management.
3rd	CO15	PROJECT MANAGEMENT	To familiarize the students with the basic project management framework as well as the preparation of a basic project plan.
3rd	CO16	BUSINESS POLICY & STRATEGIC MANAGEMENT	The objective of the course is to expose students to the process of strategic decision-making and environmental scanning to enable them to formulate strategic business plans.
4th	CO17	BUSINESS LEGISLATION	This course is designed to assist the students in understanding basic laws affecting the operations of business enterprises.
4th	CO18	Decision Support Systems and Management Information System	This paper aims to orient pupil to the realities of rural India its economic strengths, weaknesses, opportunities, and threats in the changing global context.

MBA HA			
YEAR /Sem	COURSE OUTCOME (CO) CODE	SUBJECT	COURSE OUTCOME
1st	CO1	HEALTH CARE MANAGEMENT AND HOSPITAL ENVIRONMENT	To make the student to understand Health Care Sector and Hospital set up in a larger perspective with an emphasis on the systems
1st	CO2	HUMAN BIOLOGY AND MEDICAL TERMINOLOGY	The student will get a familiarity with medical jargon and human body system so that he can effective member of the operational team.
1st	CO3	HEALTH CARE ECONOMICS	The Primary aim of this subject is to provide a clear, concise introduction to micro and macroeconomic concepts in general and economics as applied to hospital and health care sector.
1st	CO4	BUSINESS COMMUNICATION	To understand the importance of business communications and its role in organizations.
1st	CO5	PRINCIPLES AND PRACTICES OF MANAGEMENT	To familiarize students with comprehensive contemporary Management Principles and Practices.
2nd	CO6	ACCOUNTING FOR DECISION MAKING	The basic purpose of this course is to develop an insight of postulates principles, and techniques of accounting and utilisation of accounting information for decision-making

2nd	CO7	HUMAN RESOURCE MANAGEMENT	The objective of this paper is to teach the student about the Human Resource function relating to the organization of HR Department, recruitment, training and development and industrial relations.
2nd	CO8	HOSPITAL SERVICES MARKETING	The objective of this course is to enhance the marketing skills of the student with special reference to Hospital Services marketing.
2nd	CO9	Quantitative Techniques & Bio Statistics	To make the student to understand the concepts in biostatistics and to apply the techniques in decision-making.
2nd	CO10	FINANCIAL MANAGEMENT	The objective of this paper is to impart the skills relating to the organization of the finance function in terms of fund mobilization and deployment and to equip the students with basic principles of Financial Management and Techniques.
2nd	CO11	Health Administration	The objective of the course is to enable students to have a good understanding of Health Administration.
3rd	CO12	PATIENT BEHAVIOR AND CARE	: The objective is to make the student to understand the psycho social aspects of the patient and resulting behavior in a stressful condition.
3rd	CO13	HOSPITAL PLANNING AND SERVICES	The objective of this paper is to teach the student the skills of hospital planning including clinical and radiological service planning.
3rd	CO14	PROJECT MANAGEMENT	To familiarize the students with the basic project management framework as well as the preparation of a basic project plan.
3rd	CO15	HOSPITAL ADMINISTRATION	To give an idea about hospital and its role, peculiarities and factors influencing hospital care and role of hospital administrator.
3rd	CO16	OPERATIONS RESEARCH	To make the students familiar with principles and techniques of Operations Research and their applications in decision-making.
3rd	CO17	BUSINESS POLICY & STRATEGIC MANAGEMENT	The objective of the course is to expose students to the process of strategic decision-making and environmental scanning to enable them to formulate strategic business plans.
3rd	CO18	HOSPITAL OPERATIONS MANAGEMENT & HEALTH INSURANCE	To familiarize the student with hospital operational activities and the process of purchase and inventory management in a health care establishment, apart from productivity aspects.
4th	CO19	HOSPITAL MANAGEMENT CONTROL SYSTEMS	: The objective of this paper is to acquaint the student with the systems of management control and performance evaluation in Hospitals.
4th	CO20	MANAGEMENT INFORMATION SYSTEMS IN HOSPITALS	To make the student to understand MIS as a managerial decision making tool and to know the sources and compiling of MIS.
4th	CO21	LEGAL AND ETHICAL ISSUES FOR HOSPITALS	The Hospital, being a part of the larger socio political set up, the student will be exposed to the legal and ethical issues pertaining to the Hospitals.
4th	CO22	RISK AND DISASTER MANAGEMENT	To equip the students to identify the areas of safety and risk, and managing the same and to introduce them to disaster management.
4th	CO23	HOSPITALS AND PHARMACEUTICAL MANAGEMENT	To familiarize the students with drug development process and Pharmacy and to familiarize them with pharmaceutical management in health care.

INT.MBA/BBA/B.COM			
YEAR /Sem	COURSE OUTCOME (CO) CODE	SUBJECT	COURSE OUTCOME
1st	CO1	ENGLISH LANGUAGE	The objective of this course is to improve the competence of the students in basic language skills and to acquaint the students with the working knowledge of English Language.
1st	CO2	INTRODUCTION TO COMPUTERS	The objective of this paper is to impart the fundamental skills of using Computers in Management.
1st	CO3	ECONOMICS	The objective of this paper is to familiarize the students with the theoretical concepts in economics.
1st	CO4	ACCOUNTANCY	The objective of this course is to familiarize the students with basic concepts and methods in accounting as a practical subject in Business Management.
1st	CO5	Organizational Behaviour	The objective of the course is to understand individual and group behavior in organizations in other Organizational concepts to achieve organizational effectiveness.
2nd	CO6	ENVIRONMENT & DISASTER MANAGEMENT:	The objectives of this paper are to make the students aware of Disasters, Disaster Prevention and Risk Reduction and to develop in them an ability to respond to their surroundings with due sensitivity.
2nd	CO7	BUSINESS COMMUNICATION	To educate the students in the skills of communication to help them to interact with the society effectively in their career.
2nd	CO8	Business Mathematics	The objective of the course is to help the student in understanding the various statistical techniques useful in business studies.
2nd	CO9	Principles of Management	To familiarize students with comprehensive contemporary management Principles of management.
2nd	CO10	Business Economics	The objective of this paper is to familiarize the students with the theoretical concepts in economics.
3rd	CO11	ENTREPRENEURSHIP DEVELOPMENT	The objective of this course is to equip students with basic skills in starting their own enterprises
3rd	CO12	Indian Culture, Ethics & Values	The objective of this course is to equip students with basic knowledge of Indian culture, ethics, and values.
3rd	CO13	BUSINESS ENVIRONMENT	The objective of the course is to make the student familiar with external environment, which affects business activities.
3rd	CO14	FINANCIAL MANAGEMENT	The objective of this paper is to familiarize the student with various tools and techniques in financial decision-making and control.

3rd	CO15	MARKETING MANAGEMENT	The objective of this paper is to familiarize the students with the modern marketing concepts, tools, and techniques to develop their skills required for the performance of marketing function
3rd	CO16	CORPORATE ACCOUNTING	The objective of this course is to acquaint students with basics of corporate accounting.
3rd	CO17	INCOME TAX LAW & PRACTICE-I	: The objective of this course is to equip students with the basic knowledge of Income Tax
4th	CO18	SOFT SKILLS	To inculcate good manners and etiquettes and to make the students more flexible and adoptable to change before entering the Corporate World.
4th	CO19	Research Methodology	The objective of this paper is to familiarize the student with the basic concepts of research methodology for applications in business.
4th	CO20	Cost Accounting	The objective of this paper is to familiarize the student with basics of cost accounting.
4th	CO21	BUSINESS POLICY	To familiarize the students with methods & techniques of Business Policy & strategic management.
4th	CO22	PERSONNEL MANAGEMENT	The objective of this paper is to familiarize the student with basic concepts and dimensions of personnel management with reference to emerging Indian context.
4th	CO23	Income Tax Law & Practice-II	The objective of this paper is to familiarize the student with basis income tax law and its practice in business.
4th	CO24	Banking Law & Practice in India	To provide the candidates, the knowledge on the working of Indian Banking System, its constituents, and practices as applicable to business.
5th	CO25	MANAGEMENT INFORMATION SYSTEMS	To acquaint the students with the basic concepts of management information system and the role of MIS in business.
5th	CO26	BUSINESS STATISTICS	The objective of the course is to help the student in understanding the various statistical techniques useful in business studies.
5th	CO27	BUSINESS ORGANIZATION	The objective of this course is to help students gain an understanding of formation & functions of Business Organization.
5th	CO28	MANAGEMENT ACCOUNTING	The objective of this paper is to provide students a learning framework that will enable them to study the principles & procedures used in the collection & analysis of accounting information.
5th	CO29	WORKING CAPITAL MANAGEMENT	The objective of the course is to acquaint the students with the importance of the working capital and the techniques used in effective working capital management.
5th	CO30	PRODUCT & BRAND MANAGEMENT	The objective of this paper is to familiarize the student with dimensions of product and brand management with the reference to emerging Indian context.
5th	CO31	HUMAN RESOURCE DEVELOPMENT	This objective of this course is to help the student in understanding the need and methods of Human Resource Development.
5th	CO32	MANAGEMENT OF FINANCIAL SERVICES	The objective of the course is to help the students in understanding the Indian Banking System and Financial Services.

5th	CO33	HOSPITAL ADMINISTRATION	To give an idea about hospital and its role, peculiarities and factors influencing hospital care and role of hospital administrator.
6th	CO34	Business Ethics & Corporate Social Responsibility	The course is designed to develop the value system among the future managers and aimed at equipping the students with the importance of social responsibility of business organizations.
6th	CO35	BUSINESS LAWS	The objective of this paper is to familiarize the students with the theoretical concepts in economics.
6th	CO36	AUDITING	The objective of this paper is to provide exposure to the basic concepts of auditing.
6th	CO37	E-COMMERCE ESSENTIALS	To make the students aware of the basic principles of e-commerce, its operation and applications in business.
6th	CO38	RETAIL MANAGEMENT	To enable students to identify and understand the significance of retail management in the current business environment.
6th	CO39	ORGANIZATIONAL DEVELOPMENT	The objective of this course is to improve the competence of the students in basic language skills and to acquaint the students with the working knowledge of English Language
6th	CO40	SECURITY ANALYSIS & INVESTMENT MANAGEMENT	The objective of the course is to help the students in understanding the Security Market, its components and Analysis.

Course Outcomes (COs): (ECE)
CO1. Diploma, Graduates & Post graduates will have successful technical career or pursue higher education in Electronics and Communication engineering and related fields.
CO2. Diploma, Graduates & Post graduates will design/develop products for socially relevant engineering problems with multidisciplinary knowledge.
CO3. Diploma, Graduates & Post graduates will exhibit communication, team work and leadership qualities in their chosen career with ethical values.
CO4. Diploma, Graduates & Post graduates shall apply their knowledge and skills in industrial, academic or research career with creativity, commitment and social consciousness.
COURSE OUTCOMES (COs): (ME)
CO1. Diploma, Graduates & Post graduates of the program will have a successful career as a Mechanical Engineer by imparting Mechanical Engineering concepts and practical knowledge.
CO2. Diploma, Graduates & Post graduates of the program will pursue higher education and research in the field of mechanical engineering.
CO3. Diploma, Graduates & Post graduates of the program will exhibit Scientific and Engineering expertise and perform as a Professional Engineer.
COURSE OUTCOMES (COs): (CE)
CO1. Diploma, Graduates & Post graduates will be actively engaged in a professional career as a civil engineer or pursuing advanced study.
CO2. Diploma, Graduates & Post graduates will understand professional practice issues and demonstrate a commitment to professional licensure and continuing education.
CO3. Diploma, Graduates & Post graduate guided by the principles of sustainable development and global interconnectedness, will understand how civil engineering projects affect society and the environment.
COURSE OUTCOMES (COs): (CSE)
CO1. Diploma, Graduates & Post graduates of Computer Science and Engineering Program should be able to use their skills with a strong base to prepare them for higher learning and research activities.
CO2. Diploma, Graduates & Post graduates of Computer Science and Engineering Program should be able to develop an ability to analyze the requirements, understand the technical specifications, design and provide novel engineering solutions and produce efficient product designs.
CO3. Diploma, Graduates & Post graduates of Computer Science & Engineering should exhibit professionalism, ethical attitude, communication skills, and team work in their profession.
COURSE OUTCOMES (COs): (EE)
CO1. Diploma, Graduates & Post graduates will be able to use modern engineering techniques to develop their skills and knowledge after graduation to fulfill needs of society.
CO2. Diploma, Graduates & Post graduates will be able to establish themselves as practicing professionals in Electrical Engineering or sustain a life-long career in related areas.
CO3. Our graduate will have the necessary professional skill such as high ethical standards, effective oral and written communication and team work to be productive engineers.

MBBS Course Outcome
Course Outcome
1. Anatomy
(1) Gross and microscopic anatomy of the male and female generative organs.
(2) The menstrual cycle.
(3) Spermatogenesis and Oogenesis
(4) Fertilization of the ovum.
(5) Tissue and organ changes in the mother in pregnancy.
(6) Embryology and Organogenesis.
(7) Principles of Genetics.
(8) Applied anatomy of mechanical methods of preventing conception.
a) in female- chemical contraceptive, pessaries, Intra-Uterine Contraceptive Device(IUCD), tubectomy etc.
b) In male – condom, vasectomy etc.
2. Physiology
(1) Physiology of reproduction.
(2) Endocrines and regulations of reproduction in the female
(3) Endocrines and physiology of reproduction in the male.
(4) Physiology and Endocrinology of pregnancy, parturition and lactation.
(5) Nutritional needs of mother and child during pregnancy and lactation.
(6) The safe period-rhythm method of contraception.
(7) Principles of use of oral contraceptive.
3. Pharmacology
(1) Mode of action and administration of:
(a) Chemical contraceptive
(b) Oral contraceptive
(2) Contra indication for administration of contraceptives.
(3) Toxic effects of contraceptives.
4. Community Medicine
(1) The need for family welfare Planning.
(2) Organization of Family Welfare Planning service.

(3) Health Education in relating to Family Welfare Planning.
(4) Nutrition.
(5) Psychological needs of the mother, the child and the family.
(6) Demography and vital Statistics.
5. Obstetrics & Gynaecology
(1) Contraceptive methods in male/female.
(a) Mechanical
A. Pessaries, Intra Uterine Contraceptive Device (IUCD), Condoms,
B. Tubectomy and vasectomy
(b) Chemical
(c) Oral
(d) Rhythm Method
(2) Demonstrations of use of Pessaries, IUCD, Condoms and technique oftubectomy
(3) Advice on family planning to be imparted to parents.
6. Paediatrics:
(1) Problems of child health in relation to large family.
(a) Organization of paediatric services.
(b) Nutritional problems of mother and child.
(c) Childhood diseases due to overcrowding.
7. Surgery
Technique of Vasectomy.
I. Compulsory Internship
Placement of a student for in-service training in a family welfare planningclinic for a period of at least one month.
II. Examination
It is necessary that questions on family welfare planning be introduced inthe theory, practical and oral examination throughout the MBBS course.The curriculum content has been indicated subject wise. However, itwould be more advantageous to the student for purpose of integratedlearning and for understanding of the subject if family welfare planninginstruction with the curriculum content indicated could be divided into twoparts.
Part-I
Anatomy, Physiology, Biochemistry and Pharmacology
There shall be close integration in the teaching of these subjects. It is suggested that during the early para-clinical years, two to three weeksmay be set apart for instruction in Family Welfare Planning relating tothese subjects; so that the student gets an overall understanding of theprinciples and practice of "Family Planning" within the limited timeavailable for covering all the subjects of the medical course. The methodsuggested would save time and repetition of essential facts.

Part-II
This includes the later para-clinical and clinical courses. The practical aspects of Family Welfare Planning methods should be emphasized. The program of instruction shall be supervised by the Department of Obstetrics and Gynaecology. The department of Community Medicine Internal Medicine, Psychiatry, Paediatrics and Surgery must be closely associated in imparting instruction relating to the problems arising for want of family welfare planning and the advantages to society and the individual.
MD/MS Course Outcome -
1. The major components of the Postgraduate curriculum is :
2. Theoretical knowledge
3. Emergency Management
4. Practical and clinical skills
5. Thesis skills.
6. Teaching Learning Skills
7. Attitudes including communication skills.
8. Training in research methodology.
9. Documentation
10. Medico-legal Aspects of Patient Interaction
2 courses run parallel (BDS and MDS). While the undergraduate program offers a basic insight to dentistry, the masters course focus on each speciality.
BDS: Course Outcome
CO1: Introduction to normal anatomy related to head, neck and face along with regular and typical mechanisms pertaining to different systems (such as speech, deglutition, etc) and stronger emphasis on understanding tooth morphology including their taxonomy, identification and description.
CO2: Introduction to various dental materials accompanied by thorough knowledge regarding its specific use for various dental procedures including restorative, surgical prophylactic procedures.
CO3: Understanding the role of drugs and identification of some important diseases related to its direct or indirect effects on oral cavity. A thorough knowledge of plethora of different diseases occurring in the oral cavity
CO4: Sharpening skills to cater to the needs of the society at various levels.
CO5: Training in diagnosis of oral diseases with radiographs and chairside investigations as a simple yet important adjuncts
CO6: Implication of preventive dentistry at both professional and patient levels.
CO7: Students trained to handle emergency cases along with basic and advanced life support procedures.
CO8: Routine dental treatments including restorative and surgical procedures.
CO9: Catering to the demands of the community and serving the society which has less accessibility to dental treatments.
MDS
CO1: A review and thorough understanding of biostatistics and research methodology
CO2: Trained in basic and advanced dental treatments and dealing patients with a modernized and state of the art technique
CO3: Inculcating knowledge through exposure to various special cases and systematic approach towards management.
CO4: Training the students to represent their institute and themselves at national and international platform.

