Muzaffarnagar Medical College 01st Weeks									
DAY/TIME	08-09	09-10	10-11	11-12	12-01	01-02	02-03	03-04	04-05
Monday 14/02/2022	FC 1.5 Hostel and hospital visit (wardens and securities) Rules and regulations and requirements Moderator (Dr. Sudeep and Team)	FC 1.5 Introduction of all four departments and visits (faculties and head of departments) by HOD of departments (divided in to batch	Welcome speech – dean, ice breaking with all four HODs, Including introduction to M.B.B.S. (Dean)	F.C. 1.2 Being in a white coat and beyond (Demonstrate understanding of the Roles of an Indian Medical Graduate and relate it to the societal impact)	F.C. 1.2 White coat ceremony (Auditorium) All Three department	F.C. 1.2 White coat ceremony (Auditorium) All Three department	LUNCH	FC 1.1 Expectation of society and patient from doctor.(Dean)	Class of computer and languages
Tuesday 15/02/2022	FC 1.10 Introduction of alternate health care system and history of medicine (SPM) (Dr.Umer Farooq)	FC 1.6 & FC 1.7 Group dynamics (Dr. Vinay Sharma Dr.Bhawna) Dissection hall lecture	FC 1.6 & FC 1.7 Group dynamics (Dr. Vinay Sharma Dr.Bhawna) Dissection hall Demo By team	FC 1.6 Professional qualities of a doctor (Dr. Anju Mittal)	L U N C H	FC 1.3 Expectation of physician from society (Panel discussion Medicine) and team)	FC 1.6 Discuss the various career pathways and opportunities for personal growth (Pscy)	FC 1.6 Being a medical student – keen observation key to success (Dr. Manju sharma)	Class of computer and languages
Wednesday 16/02/2022	FC 2.4 Patients safety and biohazard (Dr. Atul Kumar)	FC 1.8 Health care delivery system in india (Dr.Nirankar Singh) in deptt. of SPM	FC 1.7 Introduction of new M.B.B.S. program Curriculum (examination and university rules) skill and certification Dr.Tanuagarwal (LT	FC 1.7 Introduction of new M.B.B.S. program Curriculum (examination and university rules) skill and certification Dr.Tanuagarwal (LT		FC 1.4 Academic ambience (Anatomy) LT	Internal Assessment methods (Dr. Manish Agrawal)	Summative assessment And University regulation (Dr. Sudeep Tyagi) (04 to 05) Continew	
Thursday 17/02/2022	FC 1.8 Principal of primary health care(interactive session with spm ,) Dr.Dheeraj Sharma	FC 1.8 Principal of primary health care(interactive session with spm ,) Dr. Dheeraj Sharma	FC 1.2 Student expectation from nation, institute, patients (LT) Dr. Akanksha Suman	FC 1.5 Introduction of medical ethics (Forensic)		Logbook and Portfolio (Dr.Sharvi)	F.C. 1.9 Discuss Principal of Family Practice (S.P.M.) Dr.Lubna Zarin	FC 1.8 National health programs in India of SPM Dr.Nirankar Singh	Class of computer and languages
Friday 18/02/2022	F.C. 1.1 Dr. Salman, Dr Arunaarya Debate(present medical education and roll of media) (LT	F.C. 1.1 Dr.Salman, Dr Arunaarya Debate(present medical education and roll of media) (LT	Extra curricular activities Singing activities Dr Anuj Ram Sharma/Dr. Aruna	Extracurricular activities Singing activities Dr Anuj Ram Sharma/Dr. Aruna		FC 2.5 Demonstrate proper hand washing and use of personal protective equipment Dr.Preeti Sharma/ Dr.Nilank saroha Dissection hall	FC 2.5 Demonstrate proper hand washing and use of personal protective equipment Dr.Preeti Sharma/ Dr.Nilank saroha Dissection hall	FC 2.9 Working with healthcare team Activity Department of Community Medicine Dr.Shruti Sehgal	Class of computer and languages
Saturday 19/02/2022	FC 2.9 Introduction, steps and precautions of research (Dr.Sapna)	FC 4.12 Activities on group dynamics Dr Vinay Sharma dissection hall, Department of Anatomy	FC 2.9 Introduction, steps and precautions of research Electives (Dr.TanuAggrawal)	FC 2.4 Inter personal relationship Dr. Bhawna Sharma) and team		FC 2.4 Handling of bio-waste and biomaterial(pollution act and Regulation Dr. Sachin Sharma	FC 2.4 Handling of bio-waste in college and colore coding biomaterial Dr. Sachin Sharma	FC 2.3 Universal Precaution (Surgery)	Class of computer and languages

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

02nd Week

Days	08- 09am	09- 10 am	10- 11am	11- 12am	12- 01pm	01- 02pm	02- 03pm	03- 04pm	04- 05pm
Monday 21/02/2022	**ANATOMY (L)** **AN1.1** Demonstrate normal anatomical position, various planes,relation, comparison, laterality & movement in our body	**BI1.1** Describe the molecular and functional organizationof a cell and its sub cellular components.**(L)**	**ANATOMYAN1.1** Demonstrate normal anatomical position, various planes, relation, comparison,laterality & movement in ourbody **(DH)**			**PY1.1** Describe the structure and functions of amammalian cell (SDL)	**BI11.1** Describe commonlyused laboratory apparatus and equipments, good safelaboratory practice and waste disposal. **PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY5.12** Record blood pressure & pulse at rest and in different grades of exercise and postures in avolunteer or simulated environment **(LAB)**		Class of computerand languages computer section of library and physiology deptt.) by IT teacher
Tuesday 22/02/2022	**BI1.1** Describe the molecular and functional organization ofa cell and its subcellular components. **(L)**	**AN65.1** Identify epithelium under the microscope &describe the various types that correlateto its function(L)	**PY1.2** Describe and discuss the principles of homeostasis**(L)**	**AN65.1** Identify epithelium under the microscope & describe the various types that correlateto its function(II) **(D)**		**AN2.1** Describe parts,blood and nerve supply of a long bone**AN2.2** Enumeratelaws of ossification **(D)**	COMMUNITY MEDICINE **Field visit** **CM 17.1,17.3, 17.5**		Class of computerand languages computer section of library and physiology deptt.) by IT teacher
Wednesday 23/02/2022	**BI3.1** Discuss and differentiate monosaccharide es, di-saccharides and polysaccharides giving examples of main	**AN2.2** Enumerate laws of ossification**AN2.3** Enumerate special features of a sesamoid	**AN1.1** Demonstrate normal anatomical position, various planes, relation, comparison,laterality & movement in ourbody **AN65.1** Identify epithelium under the microscope & describe the various types that correlate to its function		**LUNCH**	**BI4.1** Describe and discuss main classes oflipids (Essential/non - essential fattyacids, cholesterol and hormonal	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY5.12** Record blood pressure & pulse at rest and in different grades of exercise and postures in avolunteer or simulated Environment		Class of computerand languages computer section of library and physiolog

	carbohydrates as energy fuel, structural element and storage in the human body	bone **AN71.1** Identify bone under the microscope; classify various types and describe the structure-function correlation of the same **AN1.2** Describe composition of bone and bone marrow **(D)**	**AN71.1** Identify bone under the microscope; classify various types and describe the structure-function correlation of the same **AN2.1** Describe parts, blood and nerve supply of a long bone **AN2.2** Enumerate laws of ossification **(DH)**	
Thursday 24/02/2022	**PY1.3** Describe intercellular Communication (D)	**AN66.1** Describe & identify various types of connective tissue with functional correlation **AN66.2** Describe the ultrastructure of connective tissue **(L)**	**AN66.1** Describe & identify various types of connective tissue with functional correlation **AN66.2** Describe the ultra structure of connective tissue **AN71.1** Identify bone under the microscope; classify various types and describe the structure-function correlation of the same **AN1.1** Demonstrate normal anatomical position, various planes, relation, comparison, laterality & movement in our body **(DH)**	
Friday 25/02/2022	**AN2.4** Describe various types of cartilage with its structure & distribution in	**PY1.5** Describe and discuss transport mechanisms	**AN2.5** Describe various joints with subtypes and	**PY1.8** Describe and discuss the molecular basis of

steroids, triglycerides, Major Phospholipids And sphingolipids) relevant to human system and their Major Functions. **(D)**	**BI11.1** Describe commonly used laboratory apparatus and equipments, good safe laboratory practice and waste disposal. **(LAB)**	y deptt.) by IT Teacher
PY1.6 Describe the fluid Compartments of the body, its Ionic composition & Measurements **(D)**	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY5.12** Record blood pressure & pulse at rest and in different grades of exercise and postures in a volunteer or simulated Environment **BI11.1** Describe commonly used laboratory apparatus and equipments, good safe laboratory practice and waste disposal. **(LAB)**	Class of computer And languages computer section of Library And physiolog y deptt.) by IT teacher
AN2.5 Describe various joints with subtypes and examples **AN2.6** Explain the concept of nerve supply of joints & Hilton's law	**AETCOM (1.5) Anatomy (opening session)**	Class of computer And languages computer section of Library And physiolog y deptt.)

	various types and structure- function correlation of the same INTGRATED LECTURE WITH PATHOLOGY		Ortho **(D)**	excitable tissue **(D)**		INTGRATED LECTURE WITH ORTHO		by IT teacher
Saturday 26/02/2022	**PY1.4** Describe apoptosis – programmed cell death **(D)**	**AN3.1** Classify muscle tissueaccording to structure & action **AN3.2** Enumerate parts of skeletal muscle and differentiatebetween tendons and aponeuroseswith examples **Horizontal Integration with Physiology (L)**	**AN71.1** Identify bone under the microscope; classify various types and describe thestructure- function correlation of the same **AN71.2** Identify cartilage underthe microscope & describe various types and structure- function correlation of the same **(DH)**			**FOUNDATION COURSE 1- 2 Sharp objects injuries prevention and guidelinesfor primary treatment** (surgery)	**FOUNDATION COURSE 2- 4 Basic life support Theory and hands on**(Anesthesia)	Class of computerand languages computer section of library and physiology deptt.) by IT teacher

Muzaffarnagar Medical Colleg
03rd Week

Days	08- 09AM	09- 10 AM	10- 11AM	11- 12AM	12- 01PM	01- 02PM	02- 03PM	03- 04PM	04- 05PM
Monday 28/02/2022	**AN3.3** ExplainShunt and spurt muscles**AN67.1** Describe & identify various typesof muscle under the microscope **AN67.2** Classify muscleand describe the structure- function correlation of the same **(L)**	**BI4.1** Describe anddiscuss main classes of lipids (Essential/non- essential fatty acids, cholesterol and hormonal steroids, triglycerides, major phospholipids and sphingolipids) relevant to humansystem and their major functions	**AN3.1** Classify muscle tissue according to structure & action **AN3.2** Enumerate parts of skeletal muscle and differentiate between tendons and aponeuroses with examples **AN67.1** Describe & identify various types of muscle under the microscope **AN67.2** Classify muscle anddescribe the structure- function correlation of the same **Horizontal Integrationwith Physiology**		**L U N C H**	**PY3.7** Describe the different types of muscle fibres and their structure **(SDL)**	**BI11.2** Describe the preparation of buffers andestimation of pH. **PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY5.12** Record blood pressure & pulse at rest andin different grades of exercise and postures in a volunteer or simulated environment **(LAB)**		Class of computer and languages computer section of library and physiology deptt.) by IT teacher
Tuesday 01/03/2022	**BI4.1** Describe and discuss main classes of lipids (Essentia l/nonessential fatty acids, cholesterol and hormon al steroids, triglycerides, major phospho lipids and sphingolipids) relevant to human system and their major function s. **(SDL)**	**AN65.2** Describe the ultrastructure of epithelium **AN66.2** Describe the ultrastructure of connective tissue **(SDL)**	COMMUNITY MEDICINE Field visit FC 3.1 CM 17.1,17.3,17.5			**PANDEMIC History of Outbreaks, Epidemics & Pandemics Dr.Sangeeta Jain Sharma**		**Cricket Match 1-4 Foundation Course**	
Wednesday 02/03/2022	**BI3.1** Discuss and differentiate monosacchari des, di- saccharides and polysaccharides giving examples of main carbohydratesas energy fuel, structural element and storage in thehuman body	**AN4.1** Describe different types ofskin & dermatomes in body **AN4.2** Describe structure & function of skin with its appendages **AN4.5** Explain principles of skinincisions **(D)**	**AN4.1** Describe different types of skin & dermatomesin body **AN4.2** Describe structure & function of skin with its appendages **AN4.5** Explain principles ofskin incisions INTGRATED LECTURE WITH **DVL (DH)**			**BI4.1** Describe and discuss main classes of lipids (Essential/no n- essential fatty acids, cholesterol and hormonal steroids, triglycerides, major phospholipids and sphingolipids) relevant to human system andtheir majorfunctions.	**BI11.2** Describe the preparation of buffers andestimation of pH. **PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY5.12** Record blood pressure & pulse at rest andin different grades of exercise and postures in a volunteer or simulated environment **(LAB)**		Class of computer and languages computer section of library and physiology deptt.) by IT teacher

Thursday 03/03/2022	**AN66.2** Describethe ultrastructure of connective tissue (D)	**PY1.9** Demonstrate the ability to describe and discuss the methods usedto demonstrate the functions of the cells and its products, its communicatio ns and their applications in Clinical care and research.	**AN76.1** Describe the stages of humanlife **AN76.2** Explain the terms- phylogeny, ontogeny, trimester, viability	**AN76.1** Describe the stages of human life **AN76.2** Explain the terms- phylogeny, ontogeny,trimester, viability **AN4.2** Describe structure &function of skin with its appendages **AN72.1** Identify the skin and its appendages under the microscope and correlate the structure with function **(DH)**		**PY1.7** Describe the concept of pH & Buffer systems in the body CH/VISIT	**BI11.2** Describe the preparation of buffers andestimation of pH. **PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY5.12** Record blood pressure & pulse at rest andin different grades of exercise and postures in a volunteer or simulated environment **(LAB)**	Class of computer and languages computer section of library and physiology deptt.) by IT teacher
Friday 04/03/2022		**AN4.3** Describe superficial fascia along with fat distribution inbody **AN4.4** Describe modifications of deep fasciawith its functions **(DVL)**	**PY1.5** Describeand discuss transport mechanisms across cell membranes	**AN77.1** Describe theuterine changes occurring during the menstrual cycle **AN77.2** Describe the synchrony between the ovarian and menstrual cycles INTGRATED LECTURE WITH **OBG** **PY1.9** Demonstrate the ability to describe and discuss the methods used to demonstrate the functions of the cells and its products,its communications and their applications in Clinical care and research**(TEST)**		**AN5.1** Differentiate between blood vascular and lymphatic system Horizontal Integration with Physiology **AN5.2** Differentiate between pulmonary and systemic circulation **AN5.3** List general differences between arteries & veins (D)	**AETCO M(1.1)** **What it means to be a doctor** **Physiology deptt.**	Class of computer and languages computer section of library and physiology deptt.) by IT teacher

Saturday 05/03/2022	**AN67.3** Describethe ultra structureof muscular tissue **(D)**	**PY3.1** Describethe structure and functions of a neuron and neuroglia; Discuss Nerve Growth Factor & other growth factors/cytoki nes **HorizontalIntegration with Physiology**	**AN5.4** Explain functional difference between elastic, muscular arteries and arterioles **AN5.7** Explain function of meta- arterioles, precapillary sphincters, arterio- venous **with Horizontal Integration with Physiology** anastomoses **AN69.1** Identify elastic & muscularblood vessels, capillaries under the microscope	**AN69.1** Identify elastic &muscular blood vessels, capillaries under the microscope **AN69.2** Describe the various types and structure- function correlation of blood vessel**AN5.1** Differentiate between blood vascular and lymphatic system **Horizontal Integration with Physiology AN5.2** Differentiate between pulmonary andsystemic circulation **Horizontal Integration with Physiology AN5.3** List general differences betweenarteries & veins **(DH)**		**FOUNDATION COURSE 1- 2 Relation to patient experience of disease Psychiatry Dept**	**FOUNDATION COURSE 2- 4 Use of online resources for study of medicine** Dr.Meenakshi Jindal and Dr. Sharvi (Library computer lab and Physiology)	Class of computer and languages computer section of library and physiology deptt.) by IT teacher

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

04th Weeks

Days	08- 09am	09- 10 am	10- 11am	11- 12am	12- 01pm	01- 02pm	02- 03pm	03- 04pm	04- 05pm
Monday 07/03/2022	**AN5.5** Describe portal systemgiving examples **AN5.6** Describe the concept of anastomoses and collateral circulation with significance of end- arteries **Horizontal Integration with Physiology & Vertical Integration with General medicine AN5.7** Explain function of meta- arterioles, precapillary sphincters, arterio- venousanastomoses **with Horizontal Integration with Physiology AN5.8** Define thrombosis,	**BI4.2** Describe the processes involved in digestion and absorption of dietary lipids and also the key features oftheir metabolism	**AN5.5** Describe portal system giving examples **AN5.6** Describe the concept ofanastomoses and collateral circulation with significance of end- arteries **with Horizontal Integration with Physiology &Vertical Integration General medicine** **AN5.7** Explain function of meta- arterioles, precapillary sphincters, arterio- venous anastomoses **with Horizontal Integration with Physiology** **AN69.1** Identify elastic & muscular blood vessels, capillaries under the microscope **(DH)**		**LUNCH**	**PY3.2** Describe the types, functions & properties of nerve fibers **(SDL)**	**BI11.3** Describe the chemical components of normal urine. **Vertical Integration General surgery** **PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Bloodgroups, BT/CT **PY5.12** Record blood pressure & pulse at rest andin different grades of exercise and postures in a volunteer or simulated environment **(LAB)**		Class of computer and languages computer section of library and physiolog y deptt.) by IT teacher

	infarction & aneurysm **Horizontal Integration with Physiology &Vertical Integration with Pathology (L)**							
Tuesday 08/03/2022	**BI3.1** Discuss and differentiate monosaccharide des, di-saccharides and polysaccharides giving examples of main carbohydrates as energy fuel, structural element and storage in the human body	**AN6.1** List the components and functionsof the lymphatic system **AN6.2** Describe structure of lymph capillaries & mechanism of lymph circulation **(D)**	**PY3.3** Describe the degenerationand regenerationin peripheral nerves **(L)**	**AN70.2** Identify the lymphoid tissue under the microscope & describe microanatomyof lymph node,spleen, thymus, tonsil and correlate the structure with function **AN6.3** Explain the concept of lymphoedemaand spread of tumors via lymphatic's and venous system **Vertical Integration General Surgery (L)**		**AN7.1** Describe general plan of nervous system with components of central, peripheral & autonomic nervous systems **AN7.2** List components of nervous tissue and their functions **Horizontal Integratio nwith Physiology (D)**	**AETCOM (F.1)** **History of Pandemic and insmall groups and identifythe reasons (small group discussion with prior information it can be essaywriting and discussion** **Dr. Shruti Sehgal S.P.M.**	Class of computer and languages computer section of library and physiolog y deptt.) by IT teacher
Wednesday 09/03/2022	**BI3.1** Discuss and differentiate monosaccharide's, di- saccharides and	**AN7.4** Describe structure of atypical spinal nerve **AN7.5** Describe	**AN7.4** Describe structure of a typical spinal nerve **AN7.5** Describe principles of sensory and motor innervation of muscles **Horizontal Integration with**			**BI5.1** Describe and discuss structural organizatio n of proteins.	**BI11.3** Describe the chemical componentsof normal urine. **Vertical Integration General Surgery** **PY2.11** Estimate Hb, RBC,	Class of computer and languages computer section of library

	polysaccharides giving examples of main carbohydratesas energy fuel, structural element and storage in the human body	principles of sensory and motor innervation of muscles **Horizontal Integration with Physiology & Vertical Integration with General Medicine** **AN7.6** Describe concept of loss of innervation of a muscle with its applied anatomy **Vertical Integration with General Medicine**	**Physiology & Vertical Integration with GeneralMedicine** **AN7.2** List components ofnervous tissue and their functions **Horizontal Integration withPhysiology AN6.3** Explain the concept of lymphoedema and spread of tumors via lymphatics and venous system **Vertical Integration General Surgery (DH)**	TLC, RBC indices, DLC, Bloodgroups, BT/CT **PY5.12** Record blood pressure & pulse at rest andin different grades of exercise and postures in a volunteer or simulated environment **(LAB)**		and physiology deptt.) by IT teacher
Thursday 10/03/2022	**PY3.4** Describe thestructure of neuro- muscular junction andtransmissionof impulses **(D)**	**AN77.3** Describe spermatogenesis and oogenesis along with diagrams **AN77.4** Describe the stages and consequences of fertilization **(L)**	**AN7.4** Describe structure of a typicalspinal nerve **AN7.5** Describe principles of sensory and motor innervation of muscles **Horizontal Integration with Physiology & Vertical Integration with General Medicine** **AN7.6** Describe concept of loss of innervation of a muscle withits applied anatomy **Vertical Integration with General Medicine (DH)**	**PY3.7** Describe The different types of muscle fibres and Their structure	**BI11.3** Describe the chemical components of normal urine. **PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY5.12** Record blood pressure & pulse at rest and in different grades of exercise and postures in a volunteer or simulated environment **(LAB)**	Class of computer and languages computer section of library and physiology deptt.) by IT teacher

Friday 11/03/2022	**AN68.1** Describe & Identify multipolar & unipolar neuron, ganglia, peripheral nerve **AN68.2** Describe the structure-function correlation of neuron **AN68.3** Describe the ultra structureof nervous tissue **(L)**	**PY5.2** Describe the properties of cardiac muscle including its morphology, electrical, mechanical and metabolic functions	**AN77.4** Describe the stages and consequences of fertilization **AN77.5** Enumerate and describe the anatomical principles underlying contraception **(L)**	**PY3.8** Describeaction potential and its properties in different muscle types (skeletal & smooth) **(D)**		**AN8.1** Identify the given bone, its side, important features & keep it in anatomical position **AN8.3** Enumerate peculiaritie s of clavicle**(D)**	**AETCOM (1.1) What it means to be a doctor** **Physiology deptt.**	Class of computer and languages computer section of library and physiolog y deptt.) by IT teacher
Saturday 12/03/2022	**PY3.5** Discuss the action of neuro-muscular blocking agents(D)	**AN9.1** Describe attachment, nerve supply &action of pectoralis major and pectoralis minor	**AN8.1** Identify the given bone, its side, important features & keep it in anatomical position **AN8.2** Identify & describe jointsformed by the given bone **AN9.1** Describe attachment, nerve supply & action of pectoralis major and pectoralis minor			**FOUNDA TION COURSE(1- 3) Relationsh ip to practice inmodern medicine and Communi cation to patient and family delivering of bad news And** **(Medicine Deptt.)**	**FOUNDATION COURSE (3- 4) National Hazard and yourroll Deptt. S.P.M.**	Class of computer and languages computer section of library and physiolog y deptt.) by IT teacher

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR 5th Weeks									
Days	**08- 09AM**	**09- 10 AM**	**10- 11AM**	**11- 12AM**	**12- 01PM**	**01- 02PM**	**02- 03PM**	**03- 04PM**	**04- 05PM**
Monday 14/03/2022	**AN9.2** Breast: Describe the location, extent, deep relations, structure, age changes, blood supply, lymphatic drainage, microanatomyand applied anatomy of breast **(L)**	**BI5.1** Describe and discuss structural organization of proteins.	**AN8.1** Identify the given bone, itsside, important features & keep it in anatomical Position **AN8.2** Identify & describe jointsformed by the given bone **AN9.1** Describe attachment, nerve supply & action of pectoralis major and pectoralis minor **AN9.2** Breast: Describe the location, extent, deep relations,structure, age changes, blood supply, lymphaticdrainage, microanatomy and applied anatomy of breast**(DH)**		**L** **U** **N** **C** **H**	**PY2.1** Describe the composition and functions of blood components (SDL)	**PY2.11** Estimate Hb, RBC, TLC, RBC indices,DLC, Blood groups, BT/CT **PY5.12** Record blood pressure & pulse at rest and in different grades of exercise and postures in a volunteer or simulated environment **BI11.3** Describe the chemical components of normal urine. **(LAB)**		Class of computer and languages computer section of library and physiology deptt.) by IT teacher
Tuesday 15/03/2022	**BI3.2** Describe the processes involved in digestion and assimilation of carbohydratesand storage. **INTRIGRATE DWITH G.M** **(L)**	**PY3.9** Describethe molecular basis of musclecontraction in skeletal and in smoothmuscles **(D)**	**COMMUNITY MEDICINE** **Field visit** **CM 17.1,17.3,17.5**			**AN10.1** Identify & describe boundaries and contentsof axilla **(D)**	**AN9.2** Breast: Describe the location, extent, deep relations,structure, age changes, blood supply, lymphaticdrainage, microanatomy and applied anatomy of breast **AN10.4** Describe the anatomical groups of axillary lymph nodes and specify their areas of drainage INTRIGRATED WITH G.S (ECE)		Class of computer and languages computer section of library and physiology deptt.) by IT teacher
Wednesday 16/03/2022	**BI3.3** Describe and discuss the digestion and assimilation of carbohydrates from food.	**AN10.2** Identify, describe and demonstrate the origin, extent, course,	**AN8.1** Identify the given bone, itsside, important features & keep it in anatomical Position **AN9.2** Breast: Describe the location, extent, deep relations,			**BI5.1** Describe and discuss structural organizationof proteins.	**PY2.11** Estimate Hb, RBC, TLC, RBC indices,DLC, Blood groups, BT/CT **PY5.12** Record blood pressure & pulse at rest		Class of computer and languages comput

	INTRIGRATED WITH G.M (L)	parts, relations and branches of axillary artery &tributaries of vein **(DEMO)**	structure, age changes, blood supply, lymphaticdrainage, microanatomy and applied anatomy of breast **AN10.2** Identify, describe and demonstrate the origin, extent,course, parts, relations and branches of axillaryartery & tributaries of vein **AN10.4** Describe the anatomical groups of axillary lymph nodes andspecify their areas of drainage **(DH)**			**PY3.8** Describe action potential and its properties in different muscle types (skeletal & smooth)	and in different gradesof exercise and postures in a volunteer or simulated environment **BI11.3** Describe the chemical components of normal urine. **INTRIGRATED WITH G.M (LAB)**	er section of library and physiology deptt.) by IT teacher
Thursday 17/03/2022	**PY2.2** Discuss the origin, forms, variations and functions of plasma Proteins **INTRIGRATED WITH BIO (D)**	**AN78.1** Describe cleavage and formation of blastocyst	**AN8.1** Identify the given bone, itsside, important features & keep it in anatomical Position **AN10.1** Identify & describe boundaries and contents of axilla **AN10.4** Describe the anatomical groups of axillary lymph nodes andspecify their areas of drainage **AN10.7** Explain anatomical basis of enlarged axillary lymph nodes **(DH)**			**PY3.8** Describe action potential and its properties in different muscle types (skeletal & smooth)	**PY2.11** Estimate Hb, RBC, TLC, RBC indices,DLC, Blood groups, BT/CT **PY5.12** Record blood pressure & pulse at rest and in different grades of exercise and postures in a volunteer or simulated environment **BI11.4** Perform urine analysis to estimate and determine normal and abnormal Constituents **INTRIGRATED WITH G.M (LAB)**	Class of computer and languages computer section of library and physiology deptt.) by IT teacher
Friday 18/03/2022	**AN10.3** Describe, identify and demonstrate formation, branches, relations, areaof supply of branches, course and relations of	**PY5.2** Describe the properties of cardiac muscle including its morphology, electrical, mechanical and metabolic functions	**AN78.2** Describe the development of trophoblast **(L)**	**PY3.10** Describe the mode of muscle contraction (isometric and isotonic)		**AN10.3** Describe, identify and demonstrate formation, branches, relations, area of supply of branches, course and	**AETCOM (1.1) What it means to be a doctor**	Class of computer and languages computer sectionof library and

	terminal branches of brachial plexus **(L)**					relations of terminal branches of brachial plexus **AN10.5** Explain variations in formation of brachial plexus **AN10.6** Explain the anatomical basis of clinical features of Erb's palsy and Klumpke's paralysis **(L)**		Physiology deptt.) by IT teacher
Saturday 19/03/2022	**PY3.11** Explain energy source and muscle metabolism **PY3.12** Explain the gradation of muscular activity **PY3.13** Describe muscular dystrophy: myopathies (D)	**AN10.8** Describe, identify and demonstratethe position, attachment,nerve supply and actions of trapezius and latissimus dorsi**AN10.9** Describe the arterial anastomosis around the scapula and mention the boundaries oftriangle of auscultation **AN10.11** Describe & demonstrate attachment of serratus anterior with itsaction **(D)**	**AN8.1** Identify the given bone, itsside, important features & keep it in anatomical Position **AN8.2** Identify & describe jointsformed by the given bone **AN10.3** Describe, identify and demonstrate formation, branches, relations, area of supply of branches, course andrelations of terminal branches ofbrachial plexus **AN10.4** Describe the anatomical groups of axillary lymph nodes andspecify their areas of drainage			**FOUNDATION COURSE 1- 2 Publishing of research article and rules(2)** Dr. Sapna	**FOUNDATION COURSE 2- 4 Methods of dressings and fracture support first aid** (Nursing Staff under observation of deptt. of orthopaedics)	Class of computer and languages computer section of library and physiology deptt.) by IT teacher

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

06th Week

Days	08- 09am	09- 10 am	10- 11am	11- 12am	12- 01pm	01- 02pm	02- 03pm	03- 04pm	04- 05pm
Monday 21/03/2022	**AN10.10** Describe andidentify the deltoid and rotator cuff muscles (AND SPACES)	**BI5.3** Describe the digestion andabsorption ofdietary proteins.	**AN8.1** Identify the given bone, itsside, important features &keep it in anatomical Position **AN8.2** Identify & describe joints formed by the given bone **AN10.2** Identify, describe and demonstrate the origin, extent,course, parts, relations and branches of axillary artery & tributaries ofvein **AN10.3** Describe, identify and demonstrate formation, branches, relations, area of supply of branches, courseand relations of terminal branches of brachial plexus **AN10.13** Explain anatomical basis of Injury to axillary nerve during intramuscular Injections **(DH)**			**PY5.1** Describe the functional anatomy of heart including chambers, sounds; and Pacemaker tissue and conducting system (SDL)	**PY2.11** Estimate Hb, RBC,TLC, RBC indices, DLC, Blood groups, BT/CT **PY5.15** Demonstrate the correct clinical examination of the cardiovascular system in a normal volunteer or simulated environment **BI11.4** Perform urine analysis to estimate and determine normal and abnormal constituents **(LAB)**		Class of computer and languages computer section of library and physiolog y deptt.) by IT teacher
Tuesday 22/03/2022	**BI2.1** Explain fundamental concepts of enzyme, isoenzyme, alloenzyme, coenzyme & co-factors.	**AN10.12** Describe and demonstrate shoulder jointfor– type, articular surfaces, capsule,	**PY5.3** Discussthe events occurring during the cardiac cycle	**AN10.12** Describe and demonstrate shoulder jointfor– type, articular surfaces, capsule,		**AN11.1** Describe and demonstrate muscle groups of upper arm with emphasis on biceps and	**AN8.1** Identify the given bone, its side, important features & keep it in anatomical position **AN10.12** Describe and demonstrate shoulder joint for– type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements, muscles involved, blood supply, nerve supply and applied anatomy **AN11.1** Describe and demonstrate muscle groups ofupper arm with emphasis on biceps and triceps brachii **(Other Exam)**		Class of computer and languages computer section of library and

	Enumerate the main classes of IUBMB Nomenclature.	synovial membrane, ligaments, relations, movements, muscles involved, blood supply, nerve supply and applied anatomy		synovial membrane, ligaments, relations, movements, muscles involved, blood supply, nerve supply and applied anatomy **INTRIGRATEDWITH ORTHO**	triceps brachii		physiology deptt.) by IT teacher
Wednesday 23/03/2022	**BI2.1** Explain fundamental concepts of enzyme, is enzyme, all enzyme, coenzyme & co-Factors. Enumerate the main classes of IUBMB Nomenclature.	**AN11.2** Identify & describe origin, course, relations, branches (or tributaries), termination of important nerves and vessels in arm	**COMMUNITY MEDICINE Field visit CM 17.1,17.3,17.5**		**BI9.3** Describe protein targeting & sorting along with its associated disorders.	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY5.15** Demonstrate the correct clinical examination of the cardiovascular system in a normal volunteer or simulated environment **BI11.4** Perform urine analysis to estimate and determine normal and abnormal constituents **(LAB)**	Class of computer and languages computer section of library and physiology deptt.) by IT teacher
Thursday 24/03/2022	**BI1.1** Describe the molecular and functional organization of a cell and its subcellular components **SDL**	**Anatomy ECE** **AN9.2** Breast: Describe the location, extent, deep relations ,structure, age changes, blood supply, lymphatic drainage, microanatomy and applied Anatomy of breast. **AN10.4** Describe the anatomical groups of axillary lymph nodes and specify their areas of drainage.			**ECE- Physiology PY2.9 Describe different blood groups and discuss the clinical importance of blood grouping, blood banking and transfusion**		
Friday 25/03/2022	**AN11.3** Describe the anatomical basis of Venepuncture of cubital veins **AN11.5** Identify& describe boundaries and contents of cubital fossa **(D)**	**PY5.5** Describe the physiology of electrocardiogram (E.C.G), its applications	**AN78.3** Describe the process of implantation & common abnormal sites of implantatio n **AN78.4** Describe the formation of extra-embryonic		**AN78.4** Describe the formation of extra-embryonic mesoderm and coelom, bilaminar disc and prochordal plate **(D)**	**AETCOM (1.1) What it means to be a doctor Physiology deptt**	Class of computer and languages computer section of library and physiology deptt.) by IT teacher

			mesoderm and coelom, bilaminar disc and prochordal plate **(L)**					
Saturday 26/03/2022	**PY5.4** Describe generation, conduction of cardiac impulse (D)	**AN11.4** Describe the anatomical basis of Saturday night paralysis **AN11.6** Describe the anastomosis around the elbow joint **(D)**	**AN11.1** Describe and demonstrate muscle groups ofupper arm with emphasis on biceps and triceps brachii **AN8.1** Identify the given bone,its side, important features & keep it in anatomical position **AN8.5** Identify and name various bones in articulated hand, Specify the parts of metacarpals and phalanges and enumerate the peculiarities of misinform **AN8.6** Describe scaphoid fracture and explain the anatomical basis of avascular necrosis **(DH)**			**FOUNDATION COURSE 1- 2 Relation of doctor with medical fraternity** Dr. Bharti Maheshwari	**FOUNDATION COURSE 2- 4 Operation theater visits and protocol Anatomy/Physiology/Biochemistry**	Class of computerand languages computersection oflibrary and physiology deptt.) by IT teacher

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

07th Week

Days	08- 09AM	09- 10 AM	10- 11AM	11- 12AM	12- 01PM	01- 02PM	02- 03PM	03- 04PM	04- 05PM
Monday 28/03/2022	**AN12.1** Describe and demonstrate important muscle groups of ventral forearm with attachments, nerve supply and actions	**BI6.6** Describe the biochemical processes involvedin generation of energy in cells.	**AN8.1** Identify the given bone, its side, important features & keep it in anatomical position **AN12.1** Describe and demonstrate important muscle groups of ventral forearm with attachments,nerve supply and actions **(DH)**		**LUNCH**	**PY2.3** Describe anddiscuss the synthesis andfunctions of Haemoglobinand explain its breakdown. Describe variants of haemoglobin**(SDL)**	**PY2.11** Estimate Hb, RBC, TLC, RBC indices,DLC, Blood groups, BT/CT **PY5.15** Demonstrate thecorrect clinical examination of the cardiovascular system in a normal volunteer or simulated environment **BI11.4** Perform urine analysis to estimate anddetermine normal and abnormal constituents **(LAB)**		Class of computer and languages computer section of library and physiology deptt.) by IT teacher
Tuesday 29/03/2022	**BI2.3** Describe and explain the basic principles ofenzyme activity	**AN12.2** Identify & describe origin, course, relations, branches (or tributaries), termination of important nerves and vessels of forearm **(D)**	**PY5.8** Describe and discusslocal and systemic cardiovascular regulatory mechanism **(D)**	**AN12.3** Identify & describe flexor retinaculum with its attachment **AN12.4** Explain anatomical basis of carpal tunnel syndrome **(D)**		**AN12.5** Identify & describe small muscles of hand. Alsodescribe movements of thumb andmuscles involved **AN12.6** Describe & demonstrate movements of thumb andmuscles involved	**CM1.1**-Define and describe the concept of Public Health **(Dr.Dheeraj Sharma)** **CM5.1** Describe the common sources of various nutrients and special nutritional requirements according to age, sex, activity, physiological conditions **(Dr.Sangeeta Jain Sharma)**		Class of computer and languages computer section of library and physiology deptt.) by IT teacher

Wednesday 30/03/2022	**BI2.4** Describe and discuss enzymeinhibitors as poisons and drugs and as therapeutic enzymes INTRIGRATED WITH G.M	**AN12.7** Identify & describe course and branches of important blood vessels and nervesin hand **AN12.8** Describe anatomical basis of Claw hand **(L)**	**AN8.1** Identify the given bone, its side, important features & keep it in anatomical position **AN8.5** Identify and name Various bones in articulated hand Specify the parts of metacarpals and phalanges and enumerate the peculiarities of pisiform **AN8.6** Describe scaphoid fracture and explain the anatomical basis of avascularnecrosis **AN12.5** Identify & describe small muscles of hand. Also describe movements of thumb and muscles involved **AN12.6** Describe & demonstrate movements of thumb and muscles involved **(DH)**		**BI6.6** Describe the biochemical processes involved in generation of energy in cells. **(D)**	**PY2.11** Estimate Hb, RBC, TLC, RBC indices,DLC, Blood groups, BT/CT **PY5.13** Record and interpret normal ECG in a volunteer or simulatedenvironment **BI11.5** Describe screening of urine for inborn errors & describethe use of paper chromatography **(LAB)**	Class of computer and languages computer section of library and physiology deptt.) by IT teacher
Thursday 31/03/2022	**PY2.4** Describe RBC formation (erythropoiesis &its regulation) and its functions (D)	**AN78.5** Describe in brief abortion; decidual reaction, pregnancy test **AN79.1** Describe the formation & fate of the primitivestreak **(L)**	**AN8.6** Describe scaphoid fracture and explain the anatomical basis of avascularnecrosis **AN12.5** Identify & describe small muscles of hand. Also describe movements of thumb and muscles involved**AN12.6** Describe & demonstrate movements of thumb and muscles involved		**PY5.7** Describe and discuss haemodynamics of circulatory system	**PY2.11** Estimate Hb, RBC, TLC, RBC indices,DLC, Blood groups, BT/CT **PY5.13** Record and interpret normal ECG in a volunteer or simulatedenvironment **BI11.5** Describe screening of urine for inborn errors & describethe use of paper chromatography **(LAB)**	Class of computer and languages computer section of library and physiology deptt.) by IT teacher
Friday 01/04/2022	**AN12.14** Identify & describe compartments deep to extensor retinaculumAN**12 .15** Identify & describe extensor expansion formation	**PY5.5** Describe the physiology of electrocardiogram (E.C.G), its applications and the cardiac axis INTRIGRATED WITH G.M	**(ECE) AN12.12** Identify & describe origin, course, relations, branches (or tributaries), termination of important nerves and vesselsof back of forearm **AN12.8** Describe anatomicalbasis of Claw hand **AN12.13** Describe the anatomical basis of Wrist drop		**PY5.9** Describe thefactors affecting heart rate, regulation ofcardiac output & blood pressure	**AETCOM(1.2)** **What it means to be aPatient** **Biochemistry deptt**	Class of computer and languages computer section of library and physiology deptt.) by IT teacher

Saturday 02/04/2022	**PY5.9** Describe the factors affecting heart rate, regulation of cardiac output & blood pressure **(D)**	**AN13.1** Describe and explain Fascia of upper limb and compartments, veins of upper limb and its lymphatic drainage **(D)**	**AN8.6** Describe scaphoid fracture and explain the anatomical basis of avascular Necrosis **AN13.6** Identify & demonstrate important bony landmarks of upper limb: Jugular notch, sternal angle, acromial angle, spine of the scapula, vertebral level of the medial end, Inferior angle of the scapula **AN13.7** Identify & demonstrate surface projection of: Cephalic and basilic vein, Palpation of Brachial artery, Radial artery, Testing of muscles: Trapezius, pectoralis major, serratus anterior, latissimus dorsi, deltoid, biceps brachii, Brachioradialis **(DH)**		**FOUNDATIO N COURSE 1- 2 Communicati on with medical faculty** (Anatomy Dept)	**FOUNDATI ON COURSE 2- 3 Peer assisted learning** Dr. Bhawna Sharma	**FOUNDAT ION COURSE 3- 4 Managem ent of BWM accordanc e to National regulation** (microbiology)	Class of computer And languages computer section of library and physiolog y deptt.) by IT teacher

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR
8th Week

Days	08- 09am	09- 10 am	10- 11am	11- 12am	12- 01pm	01- 02pm	02- 03pm	03- 04pm	04- 05pm
Monday 04/04/2022	**AN13.3** Identify & describe the type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements, blood and nerve supply of elbow joint,proximal and distal radio- ulnar joints, wrist joint & first carpometacarpal joint **(D)**	**BI6.6** Describe the biochemical processes involved in generation of energy in cells.	**AN13.3** Identify & describe thetype, articular surfaces, capsule, synovial membrane, ligaments, relations, movements, blood and nerve supply of elbow joint, proximaland distal radio- ulnar joints, wrist joint & first carpometacarpal joint **(DH)**		**LUNCH**	**PY2.5** Describe different types of anemia's & Jaundice (SDL)	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY5.13** Record and interpret normal ECG in avolunteer or simulated environment **BI11.5** Describe screening of urine for inborn errors &describe the use of paper chromatography INTRIGRATED WITH G.M **(LAB)**		Class of computer and languages computer section of library and physiolog y deptt.) by IT teacher
Tuesday 05/04/2022	**BI2.4** Describe and discuss enzyme inhibitors as poisons and drugs and as therapeutic enzymes	**AN13.3** Identify & describe the type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements, blood and nerve supply of elbow joint,proximal and distal radio- ulnar joints,	**PY5.8** Describe and discuss local and systemic cardiovascular regulatory mechanisms	**AN13.5** Identify the bones and joints of upper limb seen in anteroposterior and lateralview radiographs of shoulder region, arm, elbow, forearm and Class of computer and Languages		**AN21.1** Identify and describe the salient features of sternum, typical rib, Ist rib and typical thoracic vertebra **(D)**	**CM1.2**-Define health; describe the concept of holistic health including concept of spiritual health and the relativeness & determinants of health **(Dr.Dheeraj Sharma)** **CM5.2** Describe and demonstrate the correct method of performing a nutritional assessment of individuals, families and the community by using the appropriate method**(Dr.Sangeeta Jain Sharma)**		**AN65.2** Describe the ultrastru cture of epitheliu m AN66.2 Describe the ultrastru cture of connecti ve tissue Online seminar & Gmail **(SDL)**

		wrist joint & first carpometacarpal joint		computer section of library and physiology deptt.) by IT teacher hand INTRIGRATED WITH RADIO **(D)**
Wednesday 06/04/2022	**BI2.5** Describe and discuss the clinical utility of various serum enzymes as markers of pathological conditions. INTRIGRATED WITH G.M	**P.C.T(Anatomy)**		
Thursday 07/04/2022	**PY6.1** Describe the functional anatomy of respiratory tract **(D)**	**AN79.2** Describe formation &fate of notochord **AN79.3** Describe the process of neurulation **(L)**	**AN21.1** Identify and describe the salient features of sternum, typical rib, Ist rib and typical thoracic vertebra **AN21.2** Identify & describe the features of 2nd, 11th and 12th ribs, 1st, 11th and 12th thoracic vertebrae **(DH)**	
Friday 08/04/2022	**(LINKER CLASS) RESPIRATION MECHANISM)** **AN21.3** Describe & demonstrate the boundaries of thoracic inlet, cavity and outlet **AN21.4** Describe & demonstrate extent, attachments, direction of fibres, nerve supply and actions of intercostal muscles **AN21.5** Describe & demonstrate origin, course, relations and branches of a typical intercostal nerve **PY6.1** Describe the functional anatomy of respiratory tract **PY6.2** Describe the mechanics of normal respiration, pressure changes during ventilation, lung volume and capacities, alveolar			

BI6.6 Describe the biochemical processes involved in generation of energy in cells.	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY5.13** Record and interpret normal ECG in a volunteer or simulated environment **BI11.5** Describe screening of urine for inborn errors & describe the use of paper chromatography INTRIGRATED WITH G.M **(LAB)**	AN4.1 Describe different types of skin & dermatomes in body (SDL)
PY5.7 Describe and discuss haemodynamics of circulatory system (L)	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY5.13** Record and interpret normal ECG in a volunteer or simulated environment **BI11.5** Describe screening of urine for inborn errors & describe the use of paper chromatography INTRIGRATED WITH G.M **(LAB)**	**AN67.3** Describe the ultra structure of muscular tissue **(SDL)**
AN21.5 Describe & demonstrate origin, course, relations and branches of a typical	**AETCOM (1.2)** **What it means to be a Patient**	**AN69.3** Describe the ultrastructure of blood vessels **(SDL)**

	surface tension, compliance, airway resistance, ventilation, V/P ratio, diffusion capacity of lungs						
Saturday 09/04/2022	**PY2.6** Describe WBC formation (granulopoiesis) and its regulation **(D)**	**AN21.6** Mention origin, course and branches/ tributaries of: 1) anterior & posterior intercostal vessels 2) internal thoracic vessels **(D)**	**AN21.4** Describe & demonstrate extent, attachments, direction of fibres, nerve supply and actions of intercostal muscles **AN21.5** Describe & demonstrate origin, course, relations and branches of a typical intercostal nerve **AN21.6** Mention origin, course and branches/ tributaries of: 1)anterior & posterior intercostal vessels 2) internal thoracic vessels **(DH)**		**FOUNDATION COURSE 1- 2 Discuss the immunization nrequirement of health care Professionals** (S.P.M.)	**FOUNDATION COURSE2- 4 Discuss the immunization requirement of health care Professionals(demo)** (S.P.M.) **Dr. C. Maheshwari**	**AN66.2** Describe the ultrastructur e e of connective tissue **(SDL)**

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR
09th Weeks

Days	08- 09AM	09- 10 AM	10- 11AM	11- 12AM	12- 01PM	01- 02PM	02- 03PM	03- 04PM	04- 05PM
Monday 11/04/2022	**BI2.1** Explain fundamental concepts of enzyme, is enzyme, all enzyme, Coenzyme & co-factors. Enumerate the main classes of IUBMB Nomenclature. **SDL- BIOCHEMISTRY**	**ECE ANATOMY** DH: AN 21.8, Describe & Demonstrate type, articular surfaces & movement of manubriosternal, Postvertebral, xiphisternal joint.				**ECE PHYSIOLOGY** **PY 2.5** Describe different types of Anemia			**AN68.3** Describe the ultrastru cture of nervous tissue **(SDL)**
Tuesday 12/04/2022	**SDL PHYSIOLOGY**	**BI2.6** Discuss use of enzymes in laboratory investigations (Enzyme-based assays) **ECE BIOCHEMISTRY**				**SDL ANATOMY** AN 21.10: Describe costochondral &	**CM1.3** Describe the characteristics of agent, host and environmental factors in health and disease and the multi factorial etiology of disease **(Dr.Dheeraj Sharma)** **CM5.3** Define and describe common nutrition related health disorders (including macro-PEM, Micro-iron, Zn, iodine, Vit. A), their control and management **(Dr.Sangeeta Jain Sharma)**		
Wednesday 13/04/2022	**BI2.5** Describe and discuss theclinical utility of various serum enzymes as markers of pathological conditions. **(L)**	**AN21.11** Mention boundaries andcontents of the superior, anterior, middle and posterior mediastinum **(L)**	**AN21.11** Mention boundaries and contents of the superior, anterior, middle and posterior mediastinum**(DH)**			**BI2.6** Discuss useof enzymes in laboratory investigations (Enzyme- based assays) INTRIGRATED WITH G.M	**PY2.11** Estimate Hb,RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY5.13** Record and interpret normal ECGin a volunteer or simulated environment **BI11.5** Describe screening of urine forinborn errors & describe the use of paper chromatography **(LAB)**		**AN9.3** Describe developme nt of breast **AN13.2** Describe dermato mes of upper limb **(SDL)**

Thursday 14/04/2022	**PY2.6** Describe WBC formation (granulopoiesis) and its regulation**(D)**	**AN24.1** Mention the blood supply, lymphatic drainage and nerve supply ofpleura, extent of pleura and describe the pleural recessesand their applied anatomy **(L)**	**AN24.1** Mention the blood supply, lymphatic drainage and nerve supply of pleura, extent of pleura and describe the pleural recesses and their applied anatomy **INTRIGRATED WITH G.M (DH)**	**L U N C H**	**PY6.2** Describe the mechanics of normal respiration, pressure changes during ventilation, lung volume and capacities, alveolar surface tension, compliance, airway resistance, ventilation, V/P ratio, diffusion capacity of lungs	**PY2.11** Estimate Hb, RBC, TLC, RBC indices,DLC, Blood groups, BT/CT **PY5.13** Record and interpret normal ECGin a volunteer or simulated environment **BI11.9** Demonstratethe estimation of serum total cholesterol and HDLcholesterol **(LAB)**	ExtracUrricul Ar ActivitiEs
Friday 15/04/2022	**AN24.1** Mention the blood supply,lymphatic drainage and nerve supply of pleura, extent of pleura and describe the pleural recesses and their applied anatomy INTRIGRATED WITH G.M **(DH)**		**Physiology PCT**		**Sports FOOT BALL MATCH**		
Saturday 16/04/2022	**PY2.9** Describe different blood groups and discuss the clinical importance of blood grouping, blood banking and transfusion (D)	**AN24.2** Identify side, external features and relationsof structures which form root of lung & bronchial tree and their clinical correlate **AN24.3** Describe a **(DH)** bronchopulmonary segment**AN24.4** Identify phrenic nerve & describe its formation & distribution **AN24.5** Mention the blood supply, lymphatic drainage and nerve supply of lungs			**FOUNDATIO NCOURSE 1- 2 Perform sessionon basic life support** Dr.Anil singhSkill Lab	**FOUND ATION COURSE 2- 3 Hands on sessionof first aid Nursingin charge and team**	**FOUNDATION COURSE Inter personalrelationship** Dr.Anju Mittal and team	ExtracUrricul Ar ActivitiEs

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

10th Weeks

Days	08- 09AM	09- 10 AM	10- 11AM	11- 12AM	12- 01PM	01- 02PM	02- 03PM	03- 04PM	04- 05PM
Monday 18/04/2022	**AN24.4** Identify phrenic nerve& describe its formation & distribution **AN24.6** Describe the extent, length,relations, blood supply, lymphatic drainage and nerve supply of trachea **AN25.1** Identify, drawand label a slide of trachea and lung **(L)**	**BI4.3** Explain the regulationof lipoprotein metabolism & associated disorders.	**AN24.4** Identify phrenic nerve &describe its formation & distribution **AN25.1** Identify, draw and label aslide of trachea and lung **(DH)**		**L U N C H**	**PY2.7** Describe the formation ofplatelets, functions and variations.(SDL)	**PY2.11** Estimate Hb,RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY6.9** Demonstratethe correct clinical examination of the respiratory system ina normal volunteer or simulated environment **BI11.6** Describe the principles of colorimetry **(LAB)**		Sports and extra curricular activities
Tuesday 19/04/2022	**BI3.4** Define and differentiate the pathways of carbohydrate metabolism, (glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt).	**AN22.1** Describe & demonstrate subdivisions,sinuses in pericardium,blood supplyand nerve supply of pericardium**(L)**	**PY5.8** Describeand discuss local and systemic cardiovascular regulatory mechanisms **(D)**	**AN22.2** Describe & demonstrate external and internal features of eachchamber of heart **(D)**		**AN22.2** Describe& demonstrate external and internal featuresof each chamberof heart **(D)**	**CM1.4** Describe and discuss the natural history of disease **(Dr.Dheeraj Sharma)** **CM5.4** Plan and recommend a suitable diet for the individuals and families based on local availability of foods and economic status etc in a simulated environment **(Dr.Sangeeta Jain Sharma)**		Sports and extra curricular activities

Wednesday 20/04/2022	**BI3.4** Define and differentiate the pathways of carbohydrate metabolism, (glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt).	**AN22.3** Describe & demonstrateorigin, courseand branches of coronary arteries **(L)**	**AN22.2** Describe & demonstrate external and internal features ofeach chamber of heart **AN22.3** Describe & demonstrateorigin, course and branches of coronary arteries **(DH)**			**BIOCHEMISTRY PCT**	**PY2.11** Estimate Hb,RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY6.9** Demonstrate the correct clinical examination of the respiratory system ina normal volunteer or simulated environment **BI11.6** Describe the principles of colorimetric **(LAB)**	Sportsand extracurricular activities
Thursday 21/04/2022	**LINKER CLASS(coronary circulation) PY5.10** Describe & discuss regional circulation including microcirculation, lymphatic circulation, coronary, cerebral, capillary, skin, fontal, pulmonary and splanchnic circulation **AN22.3** Describe & demonstrate origin, course and branches of coronary arteries **AN22.4** Describe anatomical basis of ischaemic heart disease **AN22.3** Describe & demonstrate origin, course and branches of coronary arteries **AN22.4** Describe anatomical basis of ischaemic heart disease					**PY6.2** Describe the mechanics of normal respiration, pressure changes during ventilation, lung volume and capacities, alveolar surface tension, compliance, airway resistance,ventilation, V/P ratio, diffusion capacity of lungs	**PY2.11** Estimate Hb,RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY6.9** Demonstrate the correct clinical examination of the respiratory system ina normal volunteer or simulated environment **BI11.7** Demonstrate the estimation of serum creatinine andcreatinine clearance **BI11.22** Calculate albumin: globulin (AG) ratio and creatinine clearance **(LAB)**	Sportsand extracurricular activities
Friday 22/04/2022	**AN22.5** Describe & demonstrate the formation,course, tributaries and termination of coronary sinus **AN22.7**	**PY5.6** Describe abnormal ECG, arrythmias, heart block and myocardial Infarction INTRIGRATED WITH G.M	**AN22.6** Describe the fibrous skeletonof heart **(D)**	**PY5.9** Describe the factors affecting heart rate, regulationof cardiac output & bloodpressure **(D)**		**AN23.1** Describe& demonstrate the external appearance, relations, blood supply, nerve supply,lymphaticdrainage and applied anatomy	**AETCOM(1.2)** **What it means to bea Patient** **Biochemistry deptt**	Sportsand extracurricular activities

	Mention the parts, positionand arterial supply of the conducting system of heart **(D)**					of oesophagus **(L)**		
Saturday 23/04/2022	**PY2.10** Define and classify different typesof immunity. Describe the development of immunity and its regulation(D)	**AN23.2** Describe & demonstrate the extent, relations tributaries of thoracic duct and enumerate its applied anatomy	**AN22.6** Describe the fibrousskeleton of heart **AN23.1** Describe & demonstrate the external appearance, relations, blood supply, nerve supply, lymphatic drainage and applied anatomy of esophagus **AN23.2** Describe & demonstrate the extent, relations tributaries of thoracic duct and enumerate its applied anatomy **(DM)**			FC 2.9 Patient consent Dr. Harnam singh	Advocate social inclusion by raising awareness of human rights of person with disabilities (SDL) FC 4.5 Debate Dr. Ajmal and Dr.Sangeeta Jain Sharma	Sports and extrac urricular activities

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

11 Weeks

Days	08- 09AM	09- 10 AM	10- 11AM	11- 12AM	12- 01PM	01- 02PM	02- 03PM	03- 04PM	04- 05PM
Monday 25/04/2022	**AN23.3** Describe & demonstrate origin, course, relations, tributaries and termination of superior venacava, azygos, hemiazygos and accessory hemiazygos veins **(L)**	**BI4.3** Explain the regulationof lipoprotein metabolism & associated disorders.	**AN23.2** Describe & demonstrate the extent, relations tributaries ofthoracic duct and enumerate its applied anatomy **AN23.3** Describe & demonstrateorigin, course, relations, tributaries and termination of superior venacava, azygos, hemiazygos and accessory hemiazygos veins INTRIGRATED WITH G.S **(DH)**		L U N C H	**PY2.8** Describe the physiological basis of hemostasis and, anticoagulants. Describe bleeding& clotting disorders (Hemophilia, purpura) (SDL) INTRIGRATED WITH PATHO	**PY2.11** Estimate Hb,RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY6.8** Demonstrate the correct techniqueto perform & interpret Spirometry **BI11.7** Demonstrate the estimation of serum creatinine and creatinine clearance **BI11.22** Calculate albumin: globulin (AG) ratio and creatinine clearance INTRIGRATED WITH G.M **(LAB)**		Sportsand extracurricular activities
Tuesday 26/04/2022	**BI3.4** Define and differentiate the pathways of carbohydrate metabolism, (glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt).	**AN23.4** Mention the extent, branches and relations of arch of aorta &descending thoracic aorta **AN23.5** Identify& Mention the location and extent of thoracic sympathetic chain **AN23.7** Mention theextent, relations and	**PY6.3** Describeand discuss thetransport of respiratory gases: Oxygen and Carbon dioxide **(L)**	**AN79.4** Describe the development ofsomites and intra- embryonic coelom **AN79.5** Explain embryological basis of congenital malformations, nucleus pulposus, sacrococcygeal teratomas, neural tube defects **(L)**		**AN44.1** Describe& demonstrate the Planes (transpyloric, transtubercular, subcostal, lateral vertical, linea alba, linea semilunaris), regions & Quadrants of abdomen **(D)**	**Unethical and unprofe ssional behavior** Forensic Medicine		Sportsand extracurricular activities

		applied anatomy of lymphatic duct **(D)**						
Wednesday 27/04/2022	**BI3.4** Define and differentiate the pathways of carbohydrate metabolism, (glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt).	**AN49.2** Describe & identify Perineal body**(L)**	**AN23.4** Mention the extent, branches and relations of arch ofaorta & descending thoracic aorta**AN23.5** Identify & Mention the location and extent of thoracic sympathetic chain **AN23.7** Mention the extent, relations and applied anatomy oflymphatic duct **(DH)**			**BI4.3** Explain the regulation of lipoprotein metabolism & associated disorders. **(L)**	**PY2.11** Estimate Hb,RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY6.8** Demonstrate the correct techniqueto perform & interpret Spirometry **BI11.7** Demonstrate the estimation of serum creatinine and creatinine clearance **BI11.22** Calculate albumin: globulin (AG) ratio and creatinine clearance **(LAB)**	Sports and extrac urricular activities
Thursday 28/04/2022	**PY2.10** Define and classify different typesof immunity. Describe the development of immunity and its regulation **(D)**	**AN80.1** Describe formation, functions & fate of- chorion:amnion; yolk sac; allantois & deciduas **(L)**	**AN23.4** Mention the extent, branches and relations of arch of aorta & descending thoracic aorta**AN23.5** Identify & Mention the location and extent of thoracic sympathetic chain **(DH)**			**PY6.2** Describe the mechanics of normal respiration, pressure changes during ventilation, lung volume and capacities, alveolar surface tension, compliance, airway resistance,ventilation, V/P ratio, diffusion capacity of lungs	**PY2.11** Estimate Hb,RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY6.8** Demonstrate the correct technique to perform & interpret Spirometer **BI11.8** Demonstrate estimation of serum proteins, albumin and A:G ratio **BI11.22** Calculate albumin: globulin (AG) ratio and creatinine clearance**(LAB)**	Sports and extrac urricular activities

Friday 29/04/2022	**AN45.1** Describe Thoracolumbar fascia **(D)**	**PY5.9** Describe the factors affecting heart rate, regulation of cardiac output & bloodpressure INTERIGRATED WITH G.M	**AN44.6** Describe& demonstrate attachments of muscles of anterior abdominal wall **AN44.7** Enumerate common Abdominal incisions **(D)**	**PY5.11** Describe the patho-physiology ofshock, syncope and heart failure **(L)**		**AN80.3** Describe formation of placenta, its physiological functions, foetomaternal circulation & placental barrier**(L)**	**AETCOM** **(1.3)** **Doctor patient Relationship** **Biochemistry deptt**	Sports and extrac urricular activities
Saturday 30/04/2022	**PY2.10** Define and classify different types of immunity. Describe the development of immunity and its regulation (D)	**AN44.3** Describe the formation of rectus sheath andits contents **AN44.4** Describe & demonstrate extent, boundaries, contents of Inguinal canal including Hesselbach's triangle. **AN44.7** Enumerate common Abdominal incisions **(ECE) Anatomy**				**Concept of professionalism** Dr.Vinay Sharma	**Role model and making of healthcare team to complete a health project** **Ex. Pulse polio** **S.P.M.Team (Dr. Shruti Sehgal)**	Sports and extrac urricular activities

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

12th Weeks

Days	08- 09AM	09- 10 AM	10- 11AM	11- 12AM	12- 01PM	01- 02PM	02- 03PM	03- 04PM	04- 05PM
Monday 02/05/2022	**AN45.1** Describe Thoracolumbar fascia **(D)**	**BI4.3** Explain the regulationof lipoprotein metabolism & associated disorders.	**AN44.3** Describe the formation of rectus sheath and its contents **AN44.6** Describe & demonstrate attachments of muscles of anterior abdominal wall **(DH)**			**PY2.8** Describe the physiological basis of hemostasis and, anticoagulants. Describe bleeding& clotting disorders (Hemophilia, purpura) (SDL)	**PY2.11** Estimate Hb, RBC,TLC, RBC indices, DLC, Blood groups, BT/CT **PY4.10** Demonstrate the correct clinical examination of the abdomen in a normal volunteer or simulated environment **BI11.8** Demonstrate estimation of serum proteins, albumin and A:Gratio **BI11.22** Calculate albumin:globulin (AG) ratio and creatinine clearance **(LAB)**		Sports andextracurricular activities
Tuesday 03/05/2022	**BI3.5** Describe and discuss the regulation, functions and integration of carbohydrate along with associated diseases/disorders.	**AN44.4** Describe & demonstrate extent, boundaries, contents of Inguinal canal including Hesselbach's triangle. **(L)**	**PY6.3** Describe and discuss the transport of respiratory gases: Oxygen and Carbon dioxide	**AN44.5** Explain the anatomical basis of inguinal hernia. INTEGRATED WITH G.M	**L U N C H**	**AN80.4** Describe embryological basis of twinning in monozygotic &dizygotic twins **AN80.5** Describe role of placental hormones in uterine growth & parturition **(L)**	**Maintain Confidentiality** (Surgery)	**Have an understandi ng of accessible healthcare setting for patients with disabilities, including universal design**	Sports andextracurricular activities
Wednesday 04/05/2022	**BI4.3** Explain the regulation of lipoprotein metabolism & Associated disorders. **SDL Biochemistry**	**ECE ANATOMY** **AN44.4** Describe & demonstrate extent, Boundaries boundaries, contents of Inguinal canal including Hesselbach's triangle. **AN44.5** Explain the anatomical l basis of inguinal Hernia.				**BI3.5** Describe and discuss the regulation, functions and integration of carbohydrate along with associated diseases/disorders. **ECE Biochemistry**			

Thursday 05/05/2022	**PY2.10** Define and classify different typesof immunity. Describe the development of immunity and its regulation **(D)**	**AN46.1** Describe & demonstrate coverings, internal structure, side determination, blood supply, nerve supply, lymphatic drainage & descent of testis with its applied anatomy **AN46.2** Describe parts of Epididymis **AN46.4** Explain the anatomical basis of Varicocoele **(L)**	**AN44.1** Describe & demonstrate the Planes (transpyloric, transtubercular, subcostal, lateral vertical, linea alba, lineasemilunaris), regions & Quadrants of abdomen **AN44.5** Explain the anatomical basis of inguinal hernia. **AN44.6** Describe & demonstrate attachments of musclesof anterior abdominal wall **(DH)**			**PY6.2** Describe the mechanics of normal respiration, pressure changes during ventilation, lung volume and capacities, alveolar surface tension, compliance, airway resistance,ventilation, V/P ratio, diffusion capacity of lungs **(D)**	**PY2.11** Estimate Hb, RBC,TLC, RBC indices, DLC, Blood groups, BT/CT **PY4.10** Demonstrate the correct clinical examination of the abdomen in a normal volunteer or simulated environment **BI11.8** Demonstrate estimation of serum proteins, albumin and A:Gratio **BI11.22** Calculate albumin:globulin (AG) ratio and creatinine clearance **(LAB)**	Sports andextracurricular activities
Friday 06/05/2022	**AN45.3** Mention the major subgroups of back muscles, nerve supply and action **(D)**	**PY6.7** Describe and discuss lung function tests & their clinical significance **(L)**	**AN45.2** Describe & demonstrate Lumbar plexus for its root value, formation & branches **(L)**	**PY5.11** Describe the patho-physiologyof shock, syncope and heart failure		**AN81.1** Describevarious methodsof prenatal diagnosis **AN81.2** Describe indications, process and disadvantages of amniocentesis **AN81.3** Describeindications, process and disadvantages ofchorion villus biopsy (D)	**AETCOM** **(1.3)** **Doctor patientRelationship** **Biochemistry deptt**	Sports andextracurricular activities
Saturday 07/05/2022	**PY2.10** Define and classify different typesof immunity. Describe the development of immunity and its regulations (D)	**AN47.1** Describe & identify boundaries and recesses of Lesser & Greater sac **(L)**	**AN47.1** Describe & identify boundaries andrecesses of Lesser & Greater sac **(DH)**			**Importance of documentationIn medical profession** (Forensic Medicine)	**Value of integrity And honesty andrespect during interaction with seniors and Faculties (Biochemistry)** **Privilege communication inmedical ethics** (Forensic Medicine)	Sports andextracurricular activities

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

13th Weeks

Days	07- 08AM	08- 09AM	09- 10 AM	10- 11AM	11- 12AM	12- 01PM	01- 02PM	02- 03PM	03- 04PM	04- 05PM
Monday 09/05/2022	**TERM EXAMINATION**					**LUNCH**	**TERM EXAMINATION**			
Tuesday 10/05/2022										
Wednesday 11/05/2022										
Thursday 12/05/2022										
Friday 13/05/2022										
Saturday 14/05/2022										

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

14th Weeks

Days	8- 9AM	9- 10 AM	10- 11AM	11- 12AM	12- 1PM	1- 2PM	2- 3PM	3- 4PM	4-5PM
Monday 16/05/2022	**AN47.2** Name& identify various peritoneal folds & pouches with its explanation **(L)**	**BI4.4** Describe the structure and functions of lipoproteins, their functions, interrelations & relations with atherosclerosis **(L)**	**AN47.1** Describe & identify boundaries and recesses ofLesser & Greater sac **AN47.2** Name & identify various peritoneal folds & pouches with its explanation **(DH)**			**PY4.1** Describe the structure and functions of digestive system**(SDL)**	**PY2.11** Estimate Hb, RBC, TLC, RBC indices,DLC, Blood groups, BT/CT **PY4.10** Demonstrate the correct clinical examination of the abdomen in a normal volunteer or simulated environment **BI11.9** Demonstrate the estimation of serum total cholesterol and HDL cholesterol **(LAB)**		**AN13.2** Describe dermato mes of upper limb **(SDL)**
Tuesday 17/05/2022	**BI3.6** Describe and discuss the concept of TCA cycle as a amphibolic pathway and its regulation.**(L)**	**AN47.2** Name & identify various peritoneal folds & pouches with its explanation **AN47.4** Explain anatomical basisof Subphrenic abscess **(D)**	**PY6.3** Describe and discuss the transport of respiratory gases: Oxygen andCarbon dioxide **(L)**	**AN25.2** Describe development of pleura, lung & heart **(L)**	**LUNCH**	**AN25.2** Describe development of pleura, lung & heart **(L)**	**CM1.5** Describe the application of interventions at various levels of prevention **(Dr.Dheeraj Sharma)** **CM5.5** Describe the methods of nutritional surveillance, principles of nutritional education and rehabilitation in the context of socio- cultural factors. **(Dr.Sangeeta Jain Sharma)**		**AN21.10** Describe costochon dral and interchon dral joints **(SDL)**
Wednesday 18/05/2022	**BI3.6** Describe and discuss the concept of TCA cycle as a amphibolic pathway and its regulation.**(L)**	**AN47.5** Describe & demonstrate major viscera ofabdomen underfollowing headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects)**AN47.6** Explain the anatomicalbasis of Splenic	**AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain aroundumbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach **(DH)**			**BI4.4** Describe the structure and functions of lipoproteins, their functions, interrelations & relations with atherosclerosis	**PY2.11** Estimate Hb, RBC, TLC, RBC indices,DLC, Blood groups, BT/CT **PY5.14** Observe cardiovascular autonomicfunction tests in a volunteer or simulatedenvironment **BI11.9** Demonstrate the estimation of serumtotal cholesterol and HDLcholesterol **(LAB)**		**AN15.4** Explain anatomical basis of Psoas abscess & Femoral hernia **(SDL)**

		notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach **(L)**					
Thursday 19/05/2022	**PY4.2** Describe the composition, mechanism of secretion, functions, and regulation of saliva, gastric, pancreatic, intestinal juices and bile secretion **(D)**	**AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach **(L)** **AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **(DH)**		**PY4.2** Describe the composition, mechanism of secretion, functions, and regulation of saliva, gastric, pancreatic, intestinal juices and bile secretion	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY5.14** Observe cardiovascular autonomic function tests in a volunteer or simulated environment **BI11.9** Demonstrate the estimation of serum total cholesterol and HDLcholesterol **(LAB)**	**SPORTS**

Friday 20/05/2022	**AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (siteof needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach **(LIVER) (LINKER CLASS LIVER AND BILLARY)** **PY4.7** Describe & discuss the structure and functions of liver and gall bladder **AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different **PY4.7** Describe & discuss the structure and functions of liver and gall bladder			**AN47.5** Describe & demonstrate major viscera ofabdomen underfollowing headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects)**AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different	**AETCOM(1.3)** **Doctor patientRelationship** **Biochemistry deptt(SDL)**	**Privileged communication in medical ethics** Dr.Harnam Singh	**SPORTS**
Saturday 21/05/2022	**PY4.2** Describe the composition, mechanism of secretion, functions, and regulation of saliva, gastric, pancreatic, intestinal juices and bile secretion(D) **AN47.5** Describe & demonstrate major viscera of abdomen underfollowing headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy	**AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of	4.5.7 **Have an understanding of accessible healthcare setting for patients with disabilities, including universal design** Dr. Vinay Sharma		4.5.7 **Have an understanding of accessiblehealthcare setting patients with disabilities, including universal design** Dr. Vinay Sharma	**SPORTS**

		(site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiatingpain of kidney to groin & Lymphatic spread in carcinoma stomach **(DUODENUM - I)**	kidney to groin & Lymphatic spread in carcinoma stomach**(DUODENUM - I)**				

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

15th Weeks

Days	8- 9AM	9- 10 AM	10- 11AM	11- 12AM	12- 1PM	1- 2PM	2- 3PM	3- 4PM	4- 5PM
Monday 23/05/2022	**AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach(Spleen) (D)	**BI4.4** Describe the structure and functions of lipoproteins, their functions, interrelations & relations with atherosclerosis	**AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma Stomach **SPLEEN) (DH)**			**PY4.2** Describe the composition, mechanism of secretion, functions, and regulation of saliva, gastric, pancreatic, intestinal juices and bile secretion **(SDL)**	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY5.14** Observe cardiovascular autonomic function tests in a volunteer or simulated environment **BI11.9** Demonstrate the estimation of serum total cholesterol and HDL cholesterol **(LAB)**		**AN23.6** Describe the splanchnic nerves **(SDL)**

Tuesday 24/05/2022	**BI3.7** Describe the common poisons that inhibit crucial enzymes of carbohydrate metabolism (eg; fluoride, arsenate)	**AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach **AN52.1** Describe & identify the microanatomical features of Gastro- intestina l system: Oesophagus		**PY6.3** Describe and discuss the transport of respiratory gases: Oxygen and Carbon Dioxide **(L)**		**AN47.9** Describe & identify the origin, course, important relations and branches of Abdominal aorta, Coeliac trunk, Superior mesenteric, Inferior mesenteric & Common iliac artery **(D)**	**CM1.6** Describe and discuss the concepts, the principal of health promotion and Education, IEC and Behavioral change communication (BCC) **(Dr.Dheeraj Sharma)** **CM5.6** Enumerate and discuss the National Nutrition Policy, important national nutritional Programs including the Integrated Child Development Services Scheme (ICDS) etc **(Dr.Sangeeta Jain Sharma)**	**AN25.2** Describe development of pleura, lung & heart **(L)** **AN13.8** Describe developm ent limb **(SDL)**

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		Fundus of stomach, Pylorusof stomach, Duodenum, Jejunum, Ileum, Large intestine, Appendix, Liver, Gall bladder, Pancreas & Suprarenal gland **(EXTRA HEPATIC BILLARY)**						
Wednesday 25/05/2022	**BI6.1** Discuss the metabolic processes that take place in specific organs inthe body in the fed and fasting states.**(L)**	**(ECE)** **AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referredpain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach **AN52.1** Describe & identify the microanatomical features of Gastro- intestinal system: Oesophagus, Fundus of stomach, Pylorus of stomach, Duodenum, Jejunum, Ileum, Large intestine, Appendix, Liver, Gall bladder, Pancreas & Suprarenal gland **AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referredpain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach **AN52.1** Describe & identify the microanatomical features of Gastro- intestinal system: Oesophagus, Fundus of stomach, Pylorus of stomach, Duodenum, Jejunum, Ileum, Large intestine, Appendix, Liver, Gall bladder, Pancreas & Suprarenal gland **(EXTRA HEPATIC BILLARY)**		**BI4.5** Interpret laboratory resultsof analytes associated with metabolism of lipids	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups,BT/CT **PY10.11** Demonstrate the correct clinical examination of the nervous system: Higher functions, sensory system, motor system, reflexes, cranial nerves in a normal volunteer or simulated environment **BI11.9** Demonstrate the estimation of serum total cholesterol and HDLcholesterol **(LAB)**	**AN79.6** Describe the diagnosis of pregnancy in first trimester and role of teratogens, alphafetoprotein **AN79.5** Explain embryological basis of congenital malformations, nucleus pulposus, sacrococcygeal teratomas , neural tube defects **(SDL)**

Thursday 26/05/2022	**(LINKER CLASS PANCREAS)** **AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach **AN52.1** Describe & identify the microanatomical features of Gastro- intestinalsystem: Oesophagus, Fundus of stomach, Pylorus of stomach, Duodenum, Jejunum, Ileum, Large intestine, Appendix, Liver, Gall bladder, Pancreas & Suprarenal gland **INTEGRATED WITH PHYSIOLOGY**					**PY6.2** Describe the mechanics of normal respiration, pressure changes during ventilation, lung volume and capacities, alveolar surface tension, compliance, airway resistance, ventilation, V/P ratio, diffusion capacity of lungs **(L)**	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups,BT/CT **PY10.11** Demonstrate the correct clinical examination of the nervous system: Higher functions, sensory system, motor system, reflexes, cranial nerves in a normal volunteer or simulated environment **BI11.9** Demonstrate the estimation of serum total cholesterol and HDLcholesterol **(LAB)**	**SPORTS**
Friday 27/05/2022	**AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, externaland internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of	**PY6.4** Describe and discuss the physiology of high altitude and deep sea diving	**AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, externaland internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of	**PY6.5** Describe and discuss theprinciples of artificial respiration, oxygen therapy, acclimatization and decompressionsickness.		**AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, externaland internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of	**AETCOM 1.4 The foundation of communication(Physiology)**	**SPORTS**

	needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus,Radiating pain of kidney to groin &Lymphatic spreadin carcinoma stomach **AN52.1** Describe & identify the microanatomical features of Gastro- intestinal system: Oesophagus, Fundus of stomach, Pylorusof stomach, Duodenum, Jejunum, Ileum, Large intestine, Appendix, Liver, Gall bladder, Pancreas & Suprarenal gland **(CEACUM & APPANDIX)**		needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus,Radiating pain of kidney to groin &Lymphatic spreadin carcinoma stomach **AN52.1** Describe& identify the microanatomical features of Gastro- intestinal system: Oesophagus, Fundus of stomach, Pylorusof stomach, Duodenum, Jejunum, Ileum, Large intestine, Appendix, Liver, Gall bladder, Pancreas & Suprarenal gland **(CEACUM & APPANDIX) (D)**			needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spreadin carcinoma stomach **AN52.1** Describe & identify the microanatomic alfeatures of Gastro- intesti n alsystem: Oesophagus, Fundus of stomach, Pylorusof stomach, Duodenum, Jejunum, Ileum, Large intestine, Appendix, Liver, Gall bladder, Pancreas & Suprarenal gland **(LARGE & SMALL INTESTINS)**		
Saturday 28/05/2022	**PY4.5** Describe the source of GIT hormones, their regulation and functions(D)	ECE **Anatomy AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach				**ECE Physiology** **PY 6.8 Demonstrate the correct technique to perform and interpret spirometry** **PY 6.7 Describe and discuss lung function tests and their clinical significance.**		**SPORTS**

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

16th Weeks

Days	8- 9AM	9- 10 AM	10- 11AM	11- 12AM	12- 1PM	1- 2PM	2- 3PM 3- 4PM	04-05 PM
Monday 30/05/2022	**AN47.9** Describe& identify the origin, course, important relations and branches of Abdominal aorta, Coeliac trunk, Superior mesenteric, Inferior mesenteric & Common iliac artery **(S.M.A) (I.M.A) (D)**	**BI4.5** Interpret laboratory resultsof analytes associated with metabolism of lipids	**AN47.5** Describe & demonstratemajor viscera of abdomen underfollowing headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessoryspleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiatingpain of kidney to groin & Lymphatic spread in carcinoma stomach **AN47.9** Describe & identify the origin, course, important relations and branches of Abdominal aorta, Coeliac trunk,Superior mesenteric, Inferior mesenteric & Common iliac artery **(S.M.A) (I.M.A) (D)**		**LUNCH**	**PY4.3** Describe GIT movements, regulation and functions. Describedefecation reflex. Explain role of dietary fibre.(SDL)	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups,BT/CT **PY10.11** Demonstrate the correctclinical examination of the nervous system: Higher functions, sensory system, motor system, reflexes, cranial nerves ina normal volunteer or simulated environment **BI11.10** Demonstrate the estimation of triglycerides **(LAB)**	AN13.8 Describe developm ent of upper limb **(SDL)**
Tuesday 31/05/2022	**BI6.1** Discuss the metabolic processes that take place in specific organs inthe body in the fed and fasting states.	**AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, externaland internal features, important peritoneal and other relations,blood supply,	**AN47.5** Describe & demonstratemajor viscera of abdomen underfollowing headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessoryspleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis,			**AN47.8** Describe & identify the formation, course relations and tributaries of Portalvein, Inferior vena cava & Renal vein **(D)**	**CM1.7** Enumerate and describe health indicators **(Dr.Dheeraj Sharma)** **CM5.7** Describe food hygiene **(Dr.Sangeeta Jain Sharma)**	**AN80.6** Explain embryolog ical basis of estimation of fetal age. AN80.7 Describe various types of umbilical cord attachmen ts **(SDL)**

		nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma Stomach **AN52.1** Describe & identify the Microanatomical features of Gastro- intestinal system: Oesophagus, Fundus of stomach, Pylorus of stomach, Duodenum, Jejunum, Ileum, Large intestine, Appendix, Liver, Gall bladder, Pancreas & Suprarenal gland **(CEACUM & APPANDIX) (D)**	Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma Stomach **AN52.1** Describe & identify the microanatomical features of Gastro- intestinal system: Oesophagus, Fundus of stomach, Pylorus of stomach, Duodenum, Jejunum, Ileum, Large intestine, Appendix, Liver, Gall bladder, Pancreas & Suprarenal gland **(CEACUM & APPANDIX) (DH)**				

Wednesday 01/06/2022	**BI6.1** Discuss the metabolic processes that take place in specific organs inthe body in the fed and fasting states.	**AN47.8** Describe & identify the formation, course relations and tributaries of Portal vein, Inferior vena cava& Renal vein **AN47.10** Enumerate thesites of portosystemic anastomosis **AN47.11** Explain the anatomic basis of hematemesis& caput medusae inportal hypertension **(L)**	**AN47.1** Describe & identifyboundaries and recesses of Lesser & Greatersac **AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomicalposition, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphaticdrainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach **AN47.8** Describe & identify the formation, course relations and tributaries of Portal vein, Inferior vena cava & Renal vein **INTREGRATED WITH G.S**		**BI4.6** Describe the therapeutic uses ofprostaglandins and inhibitors of eicosanoid synthesis.	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT**PY10.11** Demonstrate the correct clinical examination of the nervous system: Higher functions, sensorysystem, motor system, reflexes, cranial nerves in a normal volunteer or simulated environment **BI11.10** Demonstrate the estimation of triglycerides **(LAB)**	**AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different **(SDL)**
Thursday 02/06/2022	**PY7.1** Describe structure and function of kidney**(D)**	**AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, externaland internal features, important peritoneal and other relations, blood supply, nerve supply,lymphatic	**AN47.5** Describe & demonstratemajor viscera of abdomen underfollowing headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessoryspleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating		**PY6.6** Describe anddiscuss the pathophysiology of dyspnoea, hypoxia,cyanosis asphyxia; drowning, periodic breathing	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups,BT/CT **PY10.11** Demonstrate the correctclinical examination of the nervous system: Higher functions, sensory system, motor system, reflexes, cranial nerves ina normal volunteer or simulated environment **BI11.10** Demonstrate the estimation of triglycerides **(LAB)**	**SPORTS**

		drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referredpain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach **AN52.1** Describe & identify the microanatomical features of Gastro- intestinal system: Oesophagus, Fundus of stomach, Pylorus of stomach, Duodenum, Jejunum, Ileum, Large intestine, Appendix, Liver, Gall bladder, Pancreas & Suprarenal gland **(KIDNEY) (L)**	pain of kidney to groin & Lymphatic spread in carcinomastomach **AN52.1** Describe & identify the microanatomical features of Gastro- intestinal system: Oesophagus, Fundus of stomach,Pylorus of stomach, Duodenum, Jejunum, Ileum, Large intestine, Appendix, Liver, Gall bladder, Pancreas & Suprarenal gland **(DH) (KIDNEY)**				

Friday 03/06/2022	**AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referredpain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach **AN52.1** Describe& identify the microanatomical features of Gastro- intestinal system: Oesophagus,	**PY6.4** Describe and discuss the physiology of high altitude and deep sea diving **(D)**	**AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidneyto groin & Lymphatic spread in carcinoma stomach **AN47.7** Mention the clinical importance of Calot's triangle **(D)**	**PY6.5** Describe and discuss the principles of artificial respiration, oxygen therapy, acclimatization and decompression sickness.		**AN25.2** Describe development of pleura, lung & heart **AN25.4** Describe embryological basisof: 1) atrial septal defect, 2) ventricular septal defect, 3) Fallot's tetralogy & 4) tracheo-oesophageal fistula	**AETCOM 1.4 The foundation of communication**(Physiology)	**SPORTS**

	Fundus of stomach, Pylorusof stomach, Duodenum, Jejunum, Ileum, Large intestine, Appendix, Liver, Gall bladder, Pancreas & Suprarenal gland **(L) (KIDNEY)**							
Saturday 04/06/2022	**PY4.5** Describe the source of GIT hormones, their regulation and functions(D)	**AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referredpain around umbilicus, Radiating pain of kidney to groin & Lymphatic spreadin carcinoma stomach	**AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach **AN52.1** Describe & identify the microanatomical features of Gastro- intestinal system: Oesophagus, Fundus of stomach, Pylorus of stomach, Duodenum, Jejunum, Ileum, Large intestine, Appendix, Liver, Gall bladder, Pancreas & Suprarenal gland		Gender and medicine (surgery)	Observation of Doctors Behaviorin OPD (batch wise in OPD) All three preclinical deptt.	SPORTS

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

17 Weeks

Days	8- 9AM	9- 10 AM	10- 11AM	11- 12AM	12- 1PM	1- 2PM	2- 3PM	3- 4PM	04-05 PM
Monday 06/06/2022	**AN47.12** Describe important nerve plexuses of posterior abdominal wall **(D)**	**BI4.6** Describe the therapeutic uses of prostaglandins and inhibitors of eicosanoid synthesis.	**AN47.5** Describe & demonstrate major visceraof abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach **AN47.12** Describe important nerve plexuses ofposterior abdominal wall **(DH)**		**LUNCH**	**PY4.4** Describe the physiology of digestion and absorption of nutrients **(SDL)**	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY10.11** Demonstrate the correct clinical examination of the nervous system: Higher functions, sensory system, motor system, reflexes, cranialnerves in a normal volunteer or simulated environment **BI11.11** Demonstrate estimation ofcalcium and phosphorous **(LAB)**		**AN47.11** Explain the anatomic basis of hematemesis& caput medusae in portal hypertension **(SDL)**
Tuesday 07/06/2022	**BI6.7** Describe the processes involved in maintenance of normal pH, water& electrolyte balance of body fluids and the derangements associated with these.	**AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, externaland internal features, important peritoneal and other relations,	**PY4.6** Describe the Gut-Brain Axis **(L)**	**AN47.5** Describe& demonstrate major viscera ofabdomen under following headings (anatomical position, external and internal features, important peritoneal and		**AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations,blood supply,	**CM1.8** Describe the Demographic profile of India and discuss its impact on health **(Dr.Dheeraj Sharma)** **CM5.8** Describe and discuss the importance and methods of food fortification and effects of additives and adulteration **(Dr.Sangeeta Jain Sharma)**		**AN49.5** Explain the anatomical basis of Perineal tear, Episiotomy, Perianal abscess and Anal fissure **(SDL)**

		blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach **AN52.2** Describe & identify the microanatomical features of: Urinary system: Kidney, Ureter & Urinary bladder Male Reproductive System: Testis, Epididymis,Vas deferens, Prostate & penis Female reproductive system: Ovary, Uterus, Uterine tube, Cervix, Placenta & Umbilical cord (**URETER) (L)**		other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach **AN52.2** Describe & identify the microanatomical features of: Urinary system: Kidney, Ureter & Urinary bladder Male Reproductive System: Testis, Epididymis,Vas deferens, Prostate & penis Female		nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach **AN52.2** Describe & identify the microanatomical features of: Urinary system: Kidney, Ureter & Urinary bladder Male Reproductive System: Testis, Epididymis,Vas deferens, Prostate & penis Female reproductive system: Ovary, Uterus, Uterine tube, Cervix, Placenta & Umbilical cord **AN48.5** Explain the anatomical basis of suprapubic cystostomy,		

				reproductive system: Ovary, Uterus, Uterine tube, Cervix, Placenta & Umbilical cord **(URINARY BLADDER)(L)**		Urinary obstruction in benign prostatic hypertrophy, Retroverted uterus, Prolapse uterus, Internal and external haemorrhoids, Anal fistula, Vasectomy, Tubal pregnancy & Tuballigation **AN48.6** Describe the neurological basis of Automaticbladder **(URINARY BLADDER)(L)**		
Wednesday 08/06/2022	**BI6.2** Artificial Nucleotide SDL Biochemistry	PCT Anatomy				**BI6.8** Discuss and interpret results of Arterial Blood Gas (ABG) analysis in various disorders. **ECE Biochemistry**		**AN35.5** Describe and demonstrate extent, drainage & applied anatomy of cervical lymph nodes **(SDL)**
Thursday 09/06/2022	**PY4.6** Describe the Gut- Brain Axis**(D)**	**AN46.3** Describe Penis under following headings: (parts, components, blood supply and lymphatic drainage) **AN46.5**Explain the anatomical basis of Phimosis & Circumcision **(L)**	**AN47.5** Describe & demonstrate major visceraof abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach		**PY6.6** Describe and discuss the pathophysiology of dyspnoea, hypoxia, cyanosis asphyxia; drowning, periodic breathing **(L)**	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY10.11** Demonstrate the correct clinical examination of the nervous system: Higher functions, sensory system, motor system, reflexes, cranial nerves in a normal volunteer or simulated environment **BI11.11** Demonstrate estimation ofcalcium and phosphorous **(LAB)**	**SPORTS**

Friday 10/06/2022	**AN 47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach **AN52.2** Describe & identify the micro anatomical features of: Urinary system:	**PY 7.3** Describe the mechanism of urine formation involving processes of filtration, tubular reabsorption & secretion; concentration and diluting mechanism **(L)**	**AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach **AN48.7** Mention the lobes involved in benign prostatic hypertrophy & prostatic Cancer **AN48.8** Mention the structures palpable during vaginal & rectal Examination **AN52.2** Describe & identify the microanatomical features of: Urinary system: Kidney, Ureter & Urinary bladder Male Reproductive System: Testis, Epididymis,Vas deferens, Prostate & penis Female reproductive system: Ovary, Uterus, Uterine tube, Cervix, Placenta &		**PY6.5** Describe and discuss the principles of artificial respiration, oxygen therapy, acclimatization and decompression sickness. **(L)**	**AETCOM 1.4 The foundation of communication**(Physiology)	SPORTS

	Kidney, Ureter & Urinary bladder Male Reproductive System: Testis, Epididymis,Vas deferens, Prostate& penis Female reproductive system: Ovary, Uterus, Uterine tube, Cervix, Placenta & Umbilical cord **(SUPRA RENAL GLAND) (D)**		Umbilical cord **INTREGRATED WITH G.S (DH)**				
Saturday 11/06/2022	**PY4.8** Describe & discuss gastric function tests, pancreatic exocrine functiontests & liver function tests(D)	**AN25.3** Describe fetal circulation and changes occurring at birth	**AN47.5** Describe & demonstrate major visceraof abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread incarcinoma stomach		**Rights of patient and right of doctor** Forensic Medicine	**Unethical and unprofessionalbehavior** Dr. Vinay Sharma (Dissection hall, Department ofAnatomy)	**SPORTS**

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

18 Weeks

Days	8- 9AM	9- 10 AM	10- 11AM	11- 12AM	12- 01PM	1- 2PM	2- 3PM	3- 4PM	04-05 PM
Monday 13/06/2022	**AN49.2** Describe & identify Perinea body **AN49.3** Describe & demonstrate Perinea membrane in male & female	**BI4.7** Interpret laboratory results of analyses associated with metabolism of lipids.	**AN49.2** Describe & identify Perinea body		**LUNCH**	**PY4.4** Describe the physiology of digestion and absorption of Nutrients(SDL)	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY10.11** Demonstrate the correct clinical examination of the nervous system: Higher functions, sensory system, motor system, reflexes, cranial nerves in a normal volunteer or simulated environment **BI11.11** Demonstrate estimation of calcium and phosphorous **(LAB)**		**AN 48.5** Explain the anatomical basis of suprapubic cystostomy, Urinary obstruction in benign prostatic hypertrophy, Retroverted uterus, Prolapse uterus, Internal and external haemorrhoids, Anal fistula, Vasectomy, Tubal pregnancy & Tubal ligation **(SDL)**

Tuesday 14/06/2022	**BI7.1** Describethe structureand functionsof DNA and RNAand outline the cell cycle.	**AN49.1** Describe & demonstr ate the superficial & deep perineal pouch (boundari es and contents) AN49.5 Explain the anatomicalbasis of Perineal tear, Episiotomy, Perianal abscess and Anal fissure **INTEGRATED WITH G.S(L)**	**PY7.5** Describe the renal regulation of fluid and electrolytes& acid- base balanc e	**AN49.4** Describe & demonstrate boundaries, content& applied anatomy of Ischiorectal fossa **AN49**.5Explain the anatomical basis of Perineal tear, Episiotomy, Perianalabscess and Anal fissure **INTEGRATE D WITH OBG (L)**	**LUNC H**	**AN50.1** Describe the curvatures ofthe vertebralcolumn **AN50.2** Describe & demonstrate the type, articular ends, ligaments and movements of Intervertebraljoints, Sacroiliac joints & Pubicsymphysis **AN50.3** Describe lumbar puncture (site,direction of the needle, structures pierced duringthe lumbar puncture) **(D)**	**CM6.1** Formulate a research question for a study **(Mr. Santosh Kumar Raghav)**	**AN 17.2** Describe anatomical basis of complications of fracture neck of femur **(SDL)**
Wednesday 15/06/2022	**BI7.2** Describethe processes involved in replicatio n &	**(ECE)** **AN50.1** Describe the curvatures of the vertebral column AN50.2 Describe & demonstrate the type, articular ends, ligaments and movements of Intervertebral joints, Sacroiliacjoints & Pubic symphysis **AN50.3** Describe lumbar puncture (site, direction of the needle, structures pierced during the lumbar puncture) **AN50.4** Explain the anatomical basis of Scoliosis, Lordosis, Prolapsed				**PY7.3** Describethe mechanism of urine formation involving processes of filtration, tubular	**PY2.11** EstimateHb, RBC, TLC, RBC indices,DLC, Blood groups, BT/CT **PY10.11** Demonstratethe correct clinical examination of the nervous system: Higher functions, sensorysystem, motor system, reflexes, cranial nerves in a normal volunteer	**AN 17.3** Describe dislocation of hip joint and surgical hip replacement **(SDL)**

	repair of DNA andthe transcription & translation mechanisms	disc, Spondylolisthesis&Spina bifida **AN51.1** Describe & identify the cross- section at the level of T8, T10 and L1 (transpyloric plane)				reabsorption & secretion; concentrationand diluting mechanism **(L)**	or simulated environment **BI11.3** Describe the chemical components ofnormal urine. **(LAB)**		
Thursday 16/06/2022	**PY7.7** Describe artificial kidney, dialysis and renaltransplantation(D)	**AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomicalposition, external andinternal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomicalbasis of Splenic notch,Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin& Lymphatic spread incarcinoma stomach **(UTERUS) (L)**	**AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nervesupply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach **(UTERUS) (DH)**			**PY7.6** Describe the innervations ofurinary bladder, physiology of micturition and its abnormalities	**PY2.11** EstimateHb, RBC, TLC, RBC indices,DLC, Blood groups, BT/CT **PY10.20** Demonstrate (i) Testing of visual acuity, colour and field of vision and (ii) hearing (iii) Testing for smelland (iv) taste sensation in volunteer/ simulated environment **BI11.3** Describe the chemical components of normal urine. **(LAB)**		**SPORTS**
Friday 17/06/2022	**AN52.2** Describe& identify the	**AN47.5** Describe & demonstrate major viscera of abdomen under following	**BI6.13** Describe the functions of the kidney,	**PY7.4** Describe & discuss the significance & implication of Renal clearance		**AN47.5** Describe & demonstrate major viscera of abdomen	**AETCOM 1.4The foundation of communication** (Physiology) **SDL**	Research andethical committee **Dr.Nirankar Singh**	**SPORTS**

	microanatomical features of: Urinary system: Kidney, Ureter & Urinary bladder Male Reproductive System: Testis, Epididymis,Vas deferens, Prostate & penis Female reproductive system: Ovary, Uterus, Uterine tube, Cervix, Placenta & Umbilical cord **(HISTO)**	headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin& Lymphatic spread incarcinoma stomach **(UTERUS) (L)**	liver, thyroid andadrenal glands. BI6.14 Describe the tests that are commonly done in clinical practice to assess the functions ofthese organs (kidney, liver, thyroid and adrenal glands). **BI6.15** Describe the abnormalities of kidney, liver, thyroid andadrenal glands.			under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needlepuncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach			

Saturday 18/06/2022	**PY9.1** Describe and discuss sex determination; sex differentiation and their abnormities and outline psychiatry and practical implication of sex determination.(D)	**AN52.2** Describe& identify the micro anatomical features of: Urinary system Kidney Ureter & Urinary bladder Male Reproductive System: Testis, Epididymis,Vas deferens, Prostate & penis Female reproductive system: Ovary, Uterus,Uterine tube, Cervix, Placenta & Umbilical cord	**AN52.2** Describe& identifythe microanatomical features of: Urinary system: Kidney, Ureter& Urinary bladder Male Reproductive System: Testis, Epididymis,Vas deferens, Prostate & penis Female reproductive system: Ovary,Uterus, Uterine tube, Cervix, Placenta & Umbilical cord		**Ethics of prescriptionwriting And rules (medicine)** Pharmacology Dept	**Discuss the significance and methods of stress management and risk taking behavior Understand the roleof yoga and meditation in personal health** (Pscychatry Dept)	**Demonstrate the use of verbal and non- verbal empathetic communication techniqueswhile communicati ng with people with disabilities, 4.5.6 Demonstrate a nondiscriminatory behaviour towards patients or caregivers with disabilities** (Ophthalmology)	**SPORTS**

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

19 Weeks

Days	8- 9AM	9- 10 AM	10- 11AM	11- 12AM	12- 1PM	1- 2PM	2- 3PM	3- 4PM	04-05
Monday 20/06/2022	**AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain	**BI6.3** Describe the common disorders associated with nucleotide metabolism.	AN47.6Explain the anatomical basis of Splenic notch, Accessory spleens, Kehr's sign, Different types of vagotomy, Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach AN55.1Demonstrate the surface marking of; Regions and planes of abdomen, Superficial inguinal ring, Deep inguinal ring , McBurney's point, Renal Angle & Murphy's Point AN50.3Describe lumbar puncture (site, direction of the needle, structures pierced during the lumbar puncture) AN55.2Demonstrate the surface projections of: Stomach, Liver, Fundus of gall bladder, Spleen, Duodenum, Pancreas, Ileocaecal junction, Kidneys & Root of Mesentery **(DH)**		**LUNCH**	PY7.3 Describe the mechanism of urine formation involving processes of filtration, tubular reabsorption & secretion; concentration and diluting mechanism **(SDL)**	PY2.11 Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT PY10.20 Demonstrate (i) Testing of visual acuity, colour and field of vision and (ii) hearing (iii) Testing for smell and (iv) taste sensation in volunteer/ simulated environment BI11.14 Demonstrate the estimation of alkaline phosphatase **(LAB)**		**AN 18.6** Describe knee joint injuries with its applied anatomy AN 18.7 Explain anatomical basis of Osteoarthritis **(SDL)**

	around umbilicus,						

	Radiating pain of kidney to groin & Lymphatic spreadin carcinoma stomach **(RECTUM ANAL CANNAL)**							
Tuesday 21/06/2022	BI7.2 Describe the processes involved in replication & repair of DNA andthe transcription& translation mechanisms.	ANA- LATERAL PELVIC WAL	PY7.3 Describe the mechanismof urine formation involving processes of filtration, tubular reabsorption & secretion; concentration and diluting mechanism **(D)**	AN52.6Describethe development and congenital anomalies of: Foregut, Midgut& Hindgut		AN52.6 Describe the developmentand congenital anomalies of: Foregut, Midgut&Hindgut	**CM6.2** Describe and discuss the principles and demonstrate the methods of collection, classification, analysis, interpretation and presentation of statistical data **(Mr. Santosh Kumar Raghav)**	**AN 29.4** Describe & demonstrate attachments of 1) inferior belly of omohyoid, 2)scalenus anterior, 3) scalenus medius & 4) levator scapulae **(SDL)**
Wednesday 22/06/2022	BI7.2 Describe the processes involved in replication & repair of DNA andthe transcription& translation mechanisms.	AN53.2Demonstrate the anatomical position of bony pelvis & show boundaries of pelvic inlet, pelvic cavity, pelvic outlet AN53.3Define true pelvis and false pelvis and demonstrate sex determination in male & female bonypelvis AN53.4Explain and demonstrate clinical importance of bones of abdominopelvic region (socialization of lumbar vertebra, Summarization of 1st sacral vertebra, types ofbony pelvis & Coccyx) AN54.1Describe & identify features of plain X ray abdomen **INTREGRATED WITH OBG**				**(ECE – BIO)** BI6.4 Discuss the laboratory results of analytes associatedwith gout &Lesch Nyhan syndrome. PY2.11 Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT PY10.20 Demonstrate (i) Testing of visual acuity, colour andfield of vision and (ii) hearing (iii) Testing for smell and (iv) taste sensation in volunteer/ simulated environment BI11.14 Demonstrate the estimation of alkalinephosphatase **(LAB)**		**AN35.10** Describe the fascial spaces of neck **(SDL)**
Thursday 23/06/2022	PY9.1Describe and discuss sex determination;sex differentiationand their abnormitiesand outline psychiatry and practical	AN26.1Demonstrate anatomical position of skull, Identify andlocate individual skull bones inskull AN26.2Describe the features of normafrontalis, verticalis, occipitalis, lateralis	AN53.4Explain and demonstrate clinical importance of bones of abdominopelvic region (sacralization of lumbar vertebra, Lumbarization of 1st sacral vertebra, types of bony pelvis & Coccyx) AN54.1Describe& identify features of plain X ray abdomen			PY7.6Describe the innervations of urinary bladder, physiology of micturition and its abnormalities	PY2.11 Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT PY10.20 Demonstrate (i) Testing of visual acuity, colour and field of vision and (ii) hearing (iii) Testing for smell and (iv) taste sensation in volunteer/ simulated environment BI11.14 Demonstrate the estimation of alkaline phosphatase	SPORTS

	implication of sexdetermination (D).	and basalis					**(LAB)**		
Friday 24/06/2022	AN27.1Describe the layers of scalp, its blood supply, its nerve supply and surgical importance AN27.2Describe emissary veins with its role in spread of infection from extracranial routeto intracranial venous sinuses **(L)**	PY9.3Describe male reproductive system: functions oftestis and control of spermatogenesis & factors modifying itand outline its association with psychiatricillness	AN28.1Describe& demonstrate muscles of facial expression and their nerve supply AN28.2Describe sensory innervation of face	PY9.8Describe and discuss the physiology of pregnancy, parturition & lactation and outline the psychology and psychiatry-disorders associated withit.		AN28.3Describe &demonstrate origin /formation,course, branches /tributaries of facial vessels AN28.4Describe & demonstrate branches of facial nerve with distribution AN28.7Explain the anatomical basis of facial nerve palsy AN28.8Explain surgical importanceof deep facial vein	**PANDAMIC** Infection Control: Part - I Infection Control Practices – Hand washing, Decontamination		**SPORTS**
Saturday 25/06/2022	PY9.2Describe and discuss puberty: onset, progression, stages; early and delayed puberty and outline adolescent clinicaland psychological association.(D)	AN28.5Describe cervical lymph nodes and lymphatic drainage of head, face and neck	AN26.1Demonstrate anatomicalposition of skull, Identify and locate individual skull bones in skull AN26.2Describe the features of normafrontalis, verticalis, occipitalis, lateralis and basalis AN26.3Describe cranial cavity, its subdivisions, foramina and structures passing through them AN26.5Describe features of typicaland atypical cervical vertebrae (atlas and axis) AN53.4Explain and demonstrate clinical importance of bones of abdominopelvic region (sacralization of lumbar vertebra, Lumbarization of 1st sacral vertebra, types of bony pelvis & Coccyx) AN28.5Describe cervical lymph nodes and lymphatic drainage of head, face and neck AN53.2Demonstrate the anatomical position of bony pelvis & show boundaries of pelvic inlet, pelvic cavity, pelvic outlet			**FC 4.9 Discuss the significanceand appropriateways of time management** Dr. ManishAgrawal	**FC 4.9 Discuss the significanceand appropriateways of time management** Dr. Manish Agrawal	**Comprehend the learning pedagogyand its role in learning skills, Demonstrate understanding of different methodsof self- directed learning S 4.15 Understand collaborative learning** Dr.TanuAggarwal	**SPORTS**

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

20 Weeks

Days	8- 9AM	9- 10 AM	10- 11AM	11- 12AM	12- 1PM	1- 2PM	2- 3PM	3- 4PM	4- 5 PM
Monday 27/06/2022	AN29.1Describe & demonstrate attachments, nerve supply, relations and actions of sternocleidomastoid AN29.2Explain anatomical basis of Erb's&Klumpke's palsy AN29.3Explain anatomical basis ofwry neck **(D)**	BI6.5 Describe the biochemicalrole of vitaminsin the body andexplain the manifestations of their deficiency	AN26.1Demonstrate anatomical position of skull, Identify and locate individual skull bones in skull AN26.7Describe the features of the 7th cervical vertebra AN27.1Describe the layers of scalp, itsblood supply, its nerve supply and surgical importance AN27.2Describe emissary veins with itsrole in spread of infection from extracranial route to intracranial venous sinuses **(DH)**		**LUNCH**	PY7.3Describe the mechanism of urine formation involving processes of filtration, tubular reabsorption & secretion; concentration and diluting mechanism **(SDL)**	PY2.11 Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT PY10.20 Demonstrate (i) Testing of visual acuity, colour and field ofvision and (ii) hearing (iii) Testing for smell and (iv) taste sensation in volunteer/ simulated environmentBI11.5 Describe screening of urine for inborn errors & describe the use of paper Chromatography **(LAB)**		**AN74.4** Describe the genetic basis & clinical features of Achondroplasia, Cystic Fibrosis, Vitamin D resistant rickets, Haemophilia, Duchene's muscular dystrophy & Sickle cell anaemia **(SDL)**
Tuesday 28/06/2022	BI7.2 Describe the processes involved in replication & repair of DNA andthe transcription& translation mechanisms. **(L)**	AN35.1Describe the parts, extent, attachments, modifications of deep cervical fascia **(L)**	**PY7.5** Describe the renal regulation of fluid and electrolytes & acid- base balance (L)	AN35.1 Describe the parts, extent, attachments, modifications of deep cervical fascia AN35.10Describethe fascial spaces of neck **(L)**		AN52.7 Describe the development ofUrinary system **(L)**	**CM6.3** Describe, discuss and demonstrate the application of elementary statistical methods including test of significance in various study designs **(Mr. Santosh Kumar Raghav)**		**AN75.3** Describe the genetic basis & clinical features of Prader Willi syndrome, Edward syndrome & Patau syndrome **(SDL)**
Wednesday 29/06/2022	BI7.2 Describe the processes involvedin replication & repair of DNA andthe Transcription &translation mechanisms. **(D)**	AN35.1Describe the parts, extent, attachments, modifications of deep cervical fascia **(L)**	AN26.1Demonstrate anatomical position of skull, Identify and locate individual skull bones in skull AN26.7Describe the features of the 7th cervical vertebra AN35.1 Describe the parts, extent, attachments, modifications of deep cervical fascia **(DH)**			BI6.5 Describe the biochemical role ofvitamins in the body and explain the manifestations oftheir deficiency **(D)**	PY2.11 Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT PY10.20 Demonstrate (i) Testing of visual acuity, colour and field ofvision and (ii) hearing (iii) Testing for smell and (iv) taste sensation in volunteer/ simulated environment BI11.5 Describe screening of urine		**AN37.3** Describe anatomical basis of sinusitis & maxillary sinus tumours **(SDL)**

						for inborn errors & describe theuse of paper Chromatography **(LAB)**		
Thursday 30/06/2022	PY9.7Describe and discuss the effectsof removal of gonads on physiological functions **(D)**	AN32.1Describe boundaries and subdivisions of anterior triangle**(L)**	AN26.1 Demonstrate anatomical position of skull, Identify and locateindividual skull bones in skull AN26.7 Describe the features of the 7th cervical vertebra AN35.1 Describe the parts, extent, attachments, modifications of deep cervical fascia AN33.1Describe & demonstrate extent, boundaries and contents of temporal and infratemporal fossae AN33.2Describe & demonstrate attachments, direction of fibres, nervesupply and actions of muscles of mastication **(DH)**			PY8.2 Describe the synthesis, secretion, transport, physiological actions, regulation and effect of altered (hypo and hyper) secretion of pituitary gland, thyroid gland, parathyroid gland, adrenal gland, pancreas and hypothalamus **(D)**	Describe the synthesis, secretion, transport, physiological actions, regulation and effect of altered (hypo and hyper) secretion of pituitary gland, thyroid gland, parathyroid gland, adrenal gland, pancreas and hypothalamus BI11.15 Describe & discuss the composition of CSF **(LAB)**		SPORTS
Friday 01/07/2022	AN32.1 Describe boundariesand subdivisions of anterior triangle **(CAROTID SHEAT)**	**PY9.3** Describe male reproductive system: functions of testis and control of spermatogenesis & factors modifying it and outline its association with psychiatric illness	AN32.1 Describe boundaries and subdivisions of anterior triangle AN32.2Describe & demonstrate boundaries and contents of muscular, carotid, digastric and submentaltriangles	**PY9.8** Describe and discuss the physiology of pregnancy, parturition & lactation and outline the psychology and psychiatry-disordersassociated withit.		AN52.8 Describe the development ofmale & female reproductive system **(L)**	**PANDAMIC** Use of PPEs		SPORTS
Saturday 02/07/2022	PY9.9Interpret a normal semen analysis report including (a) sperm count, (b) sperm morphology and (c)sperm motility, as	AN33.1Describe& demonstrate extent, boundaries and contents of temporal and infratemporal fossae	AN26.1Demonstrate anatomical position of skull, Identify and locate individual skull bones in skull AN26.7Describe the features of the 7th cervical vertebraAN33.1 Describe & demonstrate extent, boundaries and contents of temporal and infratemporal fossae			**4.5.1 Describe disability as per United Nations Convention on theRights of Persons with Disabilities while demonstrating**	**Effect of appearance of doctor on society (video clip or role play)** Dr. Vinay Sharma	**Training programfor communication with families and patients Community Medicine, Medicine and**	SPORTS

	per WHO guidelines and discuss the results(D)				**respect for the differences and capacities of persons with disabilities as partof human diversityand humanity.4.5.2 Compare and contrast medical and social model of disability.** Dr.Akankshasuman		**preclinical) 50 students each (Dr. Shruti Sehgal)**	

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

21 Weeks

Days	8- 9AM	9- 10 AM	10- 11AM	11- 12AM	12- 1PM	1- 2PM	2- 3PM	3- 4PM	04-05
Monday 04/07/2022	**AN28.9** Describe & demonstrate the parts, borders, surfaces, contents, relations and nerve supply of parotid gland with course of its duct and surgical importance **(L)**	**BI6.5** Describe the biochemical role of vitamins in the body and explain the manifestations of their deficiency **(L)**	AN26.1Demonstrate anatomical position of skull, Identify and locate individual skull bones in skull AN26.7Describe the features of the 7th cervical vertebra AN28.9Describe & demonstrate the parts, borders, surfaces, contents, relations and nerve supply of parotid gland with course of its duct and surgical importance AN30.3Describe& identify duralfolds &dural venous sinuses **(DH)**		**LUNCH**	**PY8.6** Describe& differentiate the mechanism of action of steroid,protein and amine hormones **(SDL)**	PY2.11 Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT PY10.20 Demonstrate (i) Testing of visualacuity, colour and field of vision and (ii) hearing (iii) Testing for smell and (iv) taste sensation in volunteer/ simulated environment BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including: •pH meter •Paper chromatography of amino acid •Protein electrophoresis •TLC, PAGE •Electrolyte analysis by ISE •ABG analyzer •ELISA •Immunodiffusion •Autoanalyser • Quality control •DNA isolation from blood/ tissue **(LAB)**		**AN40.3** Describe the features of internal ear AN40.4 Explain anatomical basis of otitis externa and otitis media **(SDL)**
Tuesday 05/07/2022	BI7.3 Describe gene mutations andbasic mechanism of regulation of gene expression. **(D)**	AN28.9Describe& demonstrate the parts, borders, surfaces, contents, relations and nerve supply ofparotid gland with course of its duct and surgical importance AN28.10Explain the anatomical basis of Frey's syndrome **(L)**	**PY8.1** Describethe physiology of bone and calcium metabolism	AN43.4Describe the development and developmental basis of congenital anomalies of face, palate, tongue, branchial apparatus, pituitary gland, thyroid gland &eye		AN43.4 Describe the development and developmental basis of congenital anomalies of face, palate, tongue, branchial apparatus, pituitary gland, thyroid gland & eye(**FACE**) **(L)**	**CM6.4** Enumerate, discuss and demonstrate Common sampling techniques, simple statistical methods, frequency distribution, measures of central tendency and dispersion **(Mr. Santosh Kumar Raghav)**		**AN4.1** Describe different types of skin & dermatomes in body **(SDL)**

Wednesday 06/07/2022	**BI7.3** Describe gene mutations and basic mechanism of regulation of gene expression.	**AN33.1** Describe & demonstrate extent, boundaries and contents of temporal and infratemporal fossae **(INFRATEMPOR AL FOSSAE)**	**AN33.1** Describe & demonstrate extent, boundaries and contents of temporal and infratemporal fossae AN26.1Demonstrate anatomical position of skull, Identify and locate individual skull bones in skull AN26.7Describe the features of the 7th cervical vertebra
Thursday 07/07/2022	PY8.2Describe the synthesis, secretion, transport, physiological actions, regulation and effect of altered (hypo and hyper) secretion of pituitary gland, thyroid gland, parathyroid gland, adrenal gland, pancreas and Hypothalamus (D)	AN33.2Describe & demonstrate attachments, direction of fibers, nerve supply and actions of muscles of mastication	AN26.1 Demonstrate anatomical position of skull, Identify and locate individual skull bones in skull AN26.7 Describe the features of the 7th cervical vertebra **AN33.2** Describe & demonstrate attachments, direction of fibers, nerve supply and actions of muscles of mastication

BI6.5 Describe the biochemical role of vitamins in the body and explain the manifestations of their deficiency	PY2.11 Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT PY10.20 Demonstrate (i) Testing of visual acuity, colour and field of vision and (ii) hearing (iii) Testing for smell and (iv) taste sensation in volunteer/ simulated environment BI11.16 Observe use of commonly used equipment's/techniques in biochemistry laboratory including: •pH meter •Paper chromatography of amino acid •Protein electrophoresis •TLC, PAGE •Electrolyte analysis by ISE •ABG analyzer •ELISA •Immunodiffusion •Autoanalyser • Quality control •DNA isolation from blood/ tissue **(LAB)**	**AN10.13** Explain anatomical basis of Injury to axillary nerve during intramuscular Injections AN16.2 Describe anatomical basis of sciatic nerve injury during gluteal intramuscular injections **(SDL)** SPORTS
PY9.4Describe female reproductive	PY2.11 Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT PY10.20 Demonstrate (i)	SPORTS

Friday 08/07/2022	**LINKER THYROID INTROGRATED WITH SURGERY** AN8.2Identify & describe joints formed by the given bone PY8.2Describe the synthesis, secretion, transport, physiological actions, regulation and effect of altered (hypo and hyper) secretion of pituitary gland, thyroid gland, parathyroid gland, adrenal gland,pancreas and hypothalamus AN35.5Describe and demonstrate extent, drainage & applied anatomy of cervical lymph nodes AN35.8Describe the anatomically relevant clinical features of Thyroidswellings AN43.2Identify, describe and draw the microanatomy of pituitary gland, thyroid, parathyroid gland, tongue, salivary glands, tonsil, epiglottis, cornea, retina PY8.2Describe the synthesis, secretion, transport, physiological actions, regulation and effect of altered (hypo and hyper) secretion of pituitary gland, thyroid gland, parathyroid gland, adrenal gland, pancreas and hypothalamus				AN33.3Describe & demonstrate articulating surface, type & movements of temporomandibular joint AN33.3Describe & demonstrate articulating surface, type & movements of temporomandibular joint **(L)**	**Empathy (video clips) and description** (Pharmacology Dept)	**Doctor in consumer law** (Forensic Medicine)	
Saturday 09/07/2022	PY9.11Discuss the hormonal changes and their effects during perimenopause and menopause (D)	AN33.1Describe& demonstrate extent, boundaries and contents of temporal and infratemporal fossae	AN26.1 Demonstrate anatomical position of skull, Identify and locate individual skull bones in skull AN26.7 Describe the features ofthe 7th cervical vertebra		**Demonstrate understanding and respect of cultural diversities and interact with those with different cultural values** Dr. Manish Agarwal	**Documentationand health records case discussion** (Orthopedics)	**Trial of self- directed learning**Dr.Tanu Aggarwal	**SPORTS**

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

22 Weeks

Days	8- 9AM	9- 10 AM	10- 11AM	11- 12AM	12- 1PM	1- 2PM	2- 3PM	3- 4PM	04-05
Monday 11/07/2022	AN34.1Describe &demonstrate the morphology, relations and nerve supply of submandibular salivarygland & submandibularganglion AN34.2Describe the basis of formation of submandibular stones **(L)**	BI6.5Describe the biochemical role of vitamins in the body andexplain the manifestations of their deficiency	AN26.1 Demonstrate anatomicalposition of skull, Identify and locate individual skull bones in skull AN26.7 Describe the features ofthe 7th cervical vertebra AN34.1 Describe & demonstratethe morphology, relations and nerve supply of submandibular salivary gland & submandibular ganglion **(DH)**		**LUNCH**	PY8.6Describe& differentiatethe mechanism ofaction of steroid, protein and amine hormones**(SDL)**	PY2.11 Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT PY10.20 Demonstrate (i) Testing of visual acuity, colour and field of vision and (ii) hearing (iii) Testingfor smell and (iv) taste sensation in volunteer/ simulatedenvironment BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including: •pHmeter •Paper chromatography ofamino acid •Protein electrophoresis •TLC, PAGE •Electrolyte analysis by ISE •ABG analyzer •ELISA • Immunodiffusion •Autoanalyser •Quality control •DNA isolation from blood/ tissue **(LAB)**		**AN44.7** Enumerate common Abdominal incisions **(SDL)**
Tuesday 12/07/2022	**BI7.3** Describe gene mutations and basic mechanism of regulation of gene expression. **(D)**	**AN35.3** Demonstrate & describe the origin, parts, course & branches subclavianartery **AN35.4** Describe& demonstrate origin, course, relations, tributaries andtermination of internal jugular &brachiocephalic veins **(D)**	**PY8.2** Describe the synthesis, secretion, transport, physiological actions, regulation and effect of altered (hypo	**AN43.3** Identify, describe and draw microanatomyof olfactory epithelium, eyelid, lip, sclero- cornea l junction, optic		**AN35.4** Describe & demonstrate origin, course, relations, tributaries and termination of internal jugular & brachiocephali	**Altruism as a virtue of a Physician** Lecture by dean academics /team	**Case Discuss Altruism as an important professional virtue of aphysician** Dr.Sahid	**AN30.3** Describe& identify dural folds &dural venous sinuses **(SDL)**

			and hyper) secretion of pituitary gland, thyroid gland, parathyroid gland, adrenal gland, pancreas and hypothalamus **(L)**	nerve, cochlea-organ of corti, pineal gland **(D)**		c veins **AN35.6** Describe and demonstrate the extent, formation, relation & branches of cervical sympathetic chain **AN31.3** Describe anatomical basis of Horner's syndrome **(D)**			
Wednesday 13/07/2022	(**SDL)** **AN35.5** Describe and demonstrate extent, drainage & applied anatomy of cervical lymph nodes	**BI7.4** Describ e applications of molecular technologies like recombinant DNA technology, PCR in the diagnosis and treatment of diseases with genetic basis. **AN42.2** Describe & demonstrate the boundaries and contents of Suboccipital triangle **AN42.3** Describe the position, direction of fibres, relations, nerve supply, actions of semispinaliscapitis and splenius capitis **(D)**	**AN26.1** Demonstrate anatomical position of skull, Identify and locate individual skull bones in skull **AN26.7** Describe the features of the 7th cervical vertebra **AN42.2** Describe & demonstrate the boundaries and contents of Suboccipital triangle **AN42.3** Describe the position, direction of fibres, relations, nerve supply, actions of semispinaliscapitis and splenius capitis **(DH)**			**BI6.5** Describe the biochemical role of vitamins in the body and explain the manifestations of their deficiency	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY10.20** Demonstrate (i) Testing of visual acuity, colour and field of vision and (ii) hearing (iii) Testing for smell and (iv) taste sensation in volunteer/ simulated environment **PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY10.20** Demonstrate (i) Testing of visual acuity, colour and field of vision and (ii) hearing (iii) Testing for smell and (iv) taste sensation in	**AN34.2** Describe the basis of formation of submandibular stones **(SDL)**

						volunteer/ simulated environment **(LAB)**	

Thursday 14/07/2022	**PY9.5** Describe anddiscuss the physiologicaleffects of sexhormones **(D)**	**AN30.3** Describe & identify duralfolds & duralvenous sinuses **(D)**	**AN26.1** Demonstrate anatomical position of skull, Identify and locate individualskull bones in skull **AN26.7** Describe the features of the 7th cervicalvertebra **AN30.3** Describe & identifydural folds & dural venoussinuses **AN36.1** Describe the 1) morphology, relations, bloodsupply and applied anatomy of palatine tonsil 2) composition of soft palate **(DH)**	**LUNCH**	**PY8.2** Describe the synthesis, secretion, transport, physiological actions, regulation and effect of altered (hypo and hyper) secretion of pituitary gland, thyroid gland, parathyroid gland, adrenal gland, pancreas and hypothalamus **(D)**	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC,Blood groups, BT/CT **PY10.11** Demonstrate the correct clinical examination of the nervous system: Higher functions, sensory system, motor system, reflexes,cranial nerves in a normal volunteer or simulated environment **BI11.14** Demonstrate the estimation of alkalinephosphatase **(LAB)**	**SPORTS**
Friday 15/07/2022	**AN31.4** Enumerate components of lacrimal apparatus **INTRIGRATEDWITH OPTHA**	**PY8.2** Describe the synthesis, secretion, transport, physiological actions, regulation and effect of altered (hypo and hyper) secretion of pituitary gland, thyroid gland, parathyroid gland, adrenal gland,	**AN30.3** Describe & identify duralfolds & dural venous sinuses **(CAVERNOUSSINUS)** **PY8.2** Describe thesynthesis, secretion, transport, physiologicalactions, regulation and effect ofaltered (hypo and hyper) secretion of pituitary gland, thyroid gland, **(L)**		**AN33.1** Describe & demonstrate extent, boundaries and contents of temporal and infratemporal fossae (MAXILLARY ARTERY)	**ANATOMY (DH)** **AN33.1** Describe & demonstrate extent, boundaries and contents of temporal and infratemporal fossae (MAXILLARY ARTERY)	**SPORTS**

		pancreas and hypothalamus **(L)**					
Saturday 16/07/2022	**PY9.10** Discuss the physiological basis of various pregnancy tests **(D)**	**AN33.1** Describe & demonstrate extent, boundaries and contents of temporal And infratemporal fossae **(L)**	**AN26.1** Demonstrate anatomical position of skull, Identify and locate individual skull bones in skull **AN33.1** Describe & demonstrate extent, boundaries and contents of temporal and infratemporal fossae **(DH)**		**ECE – BIOCHEMISTRY TOPIC: RICKETS** **VERTICAL INTEGRATION WITH MEDICINE AND ORTHOPEDICS**		SPORTS

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

23 Weeks

Days	8- 9AM	9- 10 AM	10- 11AM	11- 12AM	12- 1PM	1- 2PM	2- 3PM	3- 4PM	04-05
Monday 18/07/2022	**AN31.1** Describe & identify extra ocular musclesof eyeball **(D)**	**BI6.11** Describe the functions of haem in the body and describe the processes involved in its metabolism anddescribe porphyrin metabolism. **(L)**	**AN26.1** Demonstrate anatomical position of skull, Identify and locate individualskull bones in skull **AN26.7** Describe the featuresof the 7th cervical vertebra **AN31.1** Describe & identify extra ocular muscles of eyeball **(DH)**			**PY10.13** Describe and discuss perception of smelland taste sensation **(SDL)**	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY10.11** Demonstrate the correct clinical examination of the nervous system: Higher functions, sensory system, motor system, reflexes, cranialnerves in a normal volunteer or simulated environment **BI11.4** Perform urine analysis to estimate and determine normal andabnormal constituents **(LAB)**		**AN43.3** Identify, describe and draw microanatomy of olfactory epithelium, eyelid, lip, sclero-corneal junction, optic nerve, cochlea- organ of corti, pineal gland **(SDL)**
Tuesday 19/07/2022	**BI6.5** Describe the biochemical role of vitaminsin the body andexplain the manifestations of their deficiency **(L)**	**AN31.2** Describe & demonstrate nerves and vessels in the orbit **AN31.3** Describe anatomical basisof Horner's syndrome **(D)**	**PY10.2** Describe and discussthe functions and properties of synapse, reflex, receptors **(L)**	**AN43.4** Describe the development and developmental basis of congenital anomalies of face, palate, tongue, branchial apparatus, pituitary gland, thyroid gland &eye **(L)**		**AN43.4** Describe the development and developmentalbasis of congenital anomalies of face, palate, tongue, branchial apparatus, pituitary gland, thyroid gland & eye **(L)**	**CM1.9** Demonstrate the role of effective Communication skills in health in a simulated environment **(Dr.Dheeraj Sharma)** **CM7.1** Define Epidemiology and describe and enumerate the principles,concepts and uses **(Dr. Sangeeta Jain Sharma)**		**AN35.3** Describe and demonstrate the extent, formation, relation & branches of cervical sympathetic chain **AN31.3** Describe anatomical basis of Horner's syndrome **(SDL)**

Wednesday 20/07/2022	**BI6.5** Describe the biochemical role of vitaminsin the body andexplain the manifestations of their deficiency **(L)**	**AN36.1** Describe the 1) morphology, relations, blood supply and applied anatomy of palatine tonsil 2) compositionof soft palate **(L)**	**AN26.1** Demonstrate anatomical position of skull, Identify and locate individualskull bones in skull **AN26.7** Describe the featuresof the 7th cervical vertebra **AN36.1** Describe the 1) morphology, relations, blood supply and applied anatomy of palatine tonsil 2) composition of soft palate (**DH)**		**BIO PCT**	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY10.11** Demonstrate the correct clinical examination of the nervous system: Higher functions, sensory system, motor system, reflexes, cranialnerves in a normal volunteer or simulated environment **BI11.5** Describe screening of urine forinborn errors & describe the use of paper chromatography **(LAB)**	**AN36.4** Describe the anatomical basis of tonsillitis, tonsillectomy, adenoids and peri-tonsillar abscess **(SDL)**

Thursday 21/07/2022	**PY10.14** Describe and discuss patho-physiology of altered smell and taste sensation **(D)**	**AN36.1** Describe the 1) morphology, relations, blood supply and applied anatomy of palatine tonsil 2) composition of soft palate **AN36.2** Describe the components and functions of Waldeyer's lymphatic ring **AN36.4** Describe the anatomical basisof tonsillitis, tonsillectomy, adenoids and peri- tonsillar abscess **(D)**	**AN26.1** Demonstrate anatomical position of skull, Identify and locate individualskull bones in skull **AN26.7** Describe the featuresof the 7th cervical vertebra **(DH)**			**PY8.2** Describe the synthesis, secretion, transport, physiological actions, regulationand effect of altered (hypo and hyper) secretion of pituitary gland, thyroid gland, parathyroid gland, adrenal gland, pancreas and hypothalamus **(L)**	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY10.11** Demonstrate the correct clinical examination of the nervous system: Higher functions, sensory system, motor system, reflexes, cranialnerves in a normal volunteer or simulated environment **BI11.5** Describe screening of urine forinborn errors & describe the use of paper chromatography **(LAB)**	**SPORTS**
Friday 22/07/2022	**AN36.5** Describe the clinical significance of Killian's dehiscence **(L)**	**PY9.6** Enumerate the contraceptive methods for male and female. Discusstheir advantages & disadvantages **(L)**	**AN36.5** Describe the clinical significanceof Killian's dehiscence **(D)**	**PY8.2** Describe the synthesis, secretion, transport, physiological actions, regulation and effect of altered(hypo and hyper) secretion of pituitary gland, thyroid gland, parathyroid gland, adrenal gland, pancreas and hypothalamus **(L)**		**AN37.1** Describe & demonstrate features of nasal septum, lateral wall of nose, their blood supply and nerve supply **(D)**	**ANATOMY DH** **AN26.1** Demonstrate anatomical position of skull, Identify and locateindividual skull bones in skull **AN26.7** Describe the features of the 7thcervical vertebra	**SPORTS**

Saturday 23/07/2022	**PY11.1** Describe and discuss mechanism of temperature Regulation(D)	**AN37.1** Describe & demonstrate features of nasal septum, lateral wall of nose, their blood supply and nerve supply **AN37.2** Describe location and functional anatomy of paranasal sinuses	**AN37.1** Describe & demonstrate features of nasal septum, lateral wall of nose, their blood supply and nerve supply **AN37.2** Describe location and functional anatomy of paranasal sinuses **AN33.3** Describe & demonstrate articulating surface, type & movements of temporomandibular joint		**ECE –PHYSIOLOGY** **TOPIC - METABOLIC SINDROME** **PY8.5** Describe the metabolic and endocrine consequences of obesity & metabolic syndrome, Stress response. Outline the psychiatry component pertaining to metabolic syndrome.	**SPORTS**

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

24 Weeks

Days	8- 9AM	9- 10 AM	10- 11AM	11- 12AM	12- 1PM	1- 2PM	2- 3PM	3- 4PM	04-05PM
Monday 25/07/2022	**AN47.5** Describe & demonstrate major viscera of abdomen under following headings (anatomical position, external and internal features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and applied aspects) **AN47.6** Explain the anatomical basis of Splenic notch, Accessory spleens,	**BI6.11** Describe the functions of haem in the body and describe the processes involved in its metabolism and describe porphyrin metabolism. **(L)**	**AN26.1** Demonstrate anatomical position of skull, Identify and locate individual skull bones in skull **AN26.7** Describe the features of the 7th cervical vertebra **AN37.1** Describe & demonstrate features of nasal septum, lateral wall of nose, their blood supply and nerve supply **AN37.2** Describe location and functional anatomy of paranasal sinuses **AN37.3** Describe anatomical basis of sinusitis & maxillary sinus tumours **(DH)**		**LUNCH**	**PY11.7** Describe and discuss physiology of aging; free radicals and Antioxidants **(SDL)**	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY10.20** Demonstrate (i) Testing of visual acuity, colour and field of vision and (ii) hearing (iii) Testing for smell and (iv) taste sensation in volunteer/ simulated environment **BI11.5** Describe screening of urine for inborn errors & describe the use of paper chromatography **(LAB)**		**AN38.2** Describe the anatomical aspects of laryngitis **AN38.3** Describe anatomical basis of recurrent laryngeal nerve injury (**SDL)**

	Kehr's sign, Different types of vagotomy,						

	Liver biopsy (site of needle puncture), Referred pain in cholecystitis, Obstructive jaundice, Referred pain around umbilicus, Radiating pain of kidney to groin & Lymphatic spread in carcinoma stomach **(D)**							
Tuesday 26/07/2022	**BI6.5** Describe the biochemical role of vitamins in the body and explain the manifestations of their deficiency **(L)**	**AN38.1** Describe the morphology, identify structure of the wall, nerve supply, blood supply and actions of intrinsic and extrinsic muscles of the larynx **(L)**	**PY10.2** Describe and discuss the functions and properties of synapse, reflex, receptors **(L)**	**AN36.3** Describe the boundaries and clinical significance of pyriform fossa **AN38.1** Describe the morphology, identify structure of the wall, nerve supply, blood supply and actions of intrinsic and extrinsic muscles of the		**AN44.3** Describe the formation of rectus sheath and its contents **(D)**	**CM1.10** Demonstrate the important aspects of the doctor patient relationship in a simulated environment **(Dr.Dheeraj Sharma)** **CM7.2** Enumerate, describe and discuss the modes of transmission and measures for prevention and control of communicable and non- communicable diseases **(Dr. Sangeeta Jain Sharma)**	**AN39.2** Explain the anatomical basis of hypoglossal nerve palsy **(SDL)**

				larynx **AN38.2** Describe the anatomical aspects of laryngitis **AN38.3**				

				Describe				

				anatomical basis of recurrent laryngeal nerve injury **(L)**				
Wednesday 27/07/2022	**BI6.5** Describe the biochemical role of vitamins in thebody and explain the manifestationsof their deficiency **(L)**	**AN39.1** Describe & demonstrate the morphology, nerve supply, embryological basis of nerve supply, blood supply, lymphatic drainage and actions of extrinsic and intrinsic muscles of tongue **(L)**	**AN25.1** Identify, draw and label a slide of trachea andlung **AN39.1** Describe & demonstrate the morphology,nerve supply, embryological basis of nerve supply, blood supply, lymphatic drainage and actions of extrinsic and intrinsic musclesof tongue **AN39.2** Explain the anatomical basis of hypoglossal nerve palsy **AN43.2** Identify, describe anddraw the microanatomy of pituitary gland, thyroid, parathyroid gland, tongue, salivary glands, tonsil, epiglottis, cornea, retina **(DH)**			**BI6.11** Describe the functions of haem inthe body and describe the processes involved inits metabolism and describe porphyrin metabolism. **(L)**	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY10.11** Demonstrate the correct clinical examination of the nervous system: Higher functions, sensory system, motor system, reflexes, cranial nerves in a normal volunteer or simulated environment **BI11.16** Observe use of commonly used equipments/techniques in biochemistry laboratory including: •pH meter •Paper chromatography of amino acid •Protein electrophoresis •TLC, PAGE •Electrolyte analysis by ISE •ABGanalyzer •ELISA •Immunodiffusion •Autoanalyser •Quality control •DNA isolation from blood/ tissue **(LAB)**	**AN40.5** Explain anatomical basis of myringotomy **(SDL)**
Thursday 28/07/2022	**PY11.6** Describe physiology of Infancy **(D)**	**AN38.1** Describe the morphology, identify structure of the wall, nerve supply, blood supply and actions of intrinsic and extrinsic muscles of thelarynx **(L)**	**AN26.1** Demonstrate anatomical position of skull, Identify and locate individualskull bones in skull **AN26.7** Describe the features of the 7th cervical vertebra **AN37.1** Describe & demonstrate features of nasalseptum, lateral wall of nose, their blood supply and nerve supply **AN37.2** Describe location and functional anatomy of paranasal sinuses **AN37.3** Describe anatomical basis of sinusitis & maxillary sinus tumours **(DH)**			**PY8.2** Describe the synthesis, secretion, transport, physiological actions,regulation and effectof altered (hypo and hyper) secretion of pituitary gland, thyroid gland, parathyroid gland, adrenal gland, pancreas and hypothalamus **(L)**	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY10.11** Demonstrate the correct clinical examination of the nervous system: Higher functions, sensory system, motor system, reflexes, cranial nerves in a normal volunteer or simulated environment **BI11.16** Observe use of commonly used equipments/techniques in biochemistry laboratory including: •pH meter •Paper chromatography of amino acid •Protein electrophoresis •TLC, PAGE •Electrolyte analysis by ISE •ABGanalyzer •ELISA •Immunodiffusion •Autoanalyser •Quality control •DNA isolation from blood/ tissue **(LAB)**	**SPORTS**

Friday 29/07/2022	**AN40.1** Describe & identify the parts, blood supply and nerve supplyof external Ear **AN40.5** Explain anatomical basis of myringotomy **(L)**	**PY8.2** Describe the synthesis, secretion, transport, physiological actions, regulation and effect of altered (hypo and hyper) secretion of pituitary gland, thyroid gland, parathyroid gland, adrenal gland, pancreas and hypothalamus **(L)**	**AN40.2** Describe & demonstrate the boundaries, contents, relations and functional anatomy of middle ear and auditory tube **AN40.4** Explain anatomical basis of otitis externa and otitis media **(L)**		**PY8.2** Describe the synthesis, secretion, transport, physiological actions,regulation and effectof altered (hypo and hyper) secretion of pituitary gland, thyroid gland, parathyroid gland, adrenal gland, pancreas and hypothalamus **(D)**	**ANATOMY DH** **AN26.1** Demonstrate anatomical positionof skull, Identify and locate individual skull bones in skull **AN26.7** Describe the features of the 7th cervical vertebra **AN37.1** Describe & demonstrate featuresof nasal septum, lateral wall of nose, their blood supply and nerve supply **AN37.2** Describe location and functional anatomy of paranasal sinuses **AN37.3** Describe anatomical basis of sinusitis & maxillary sinus tumours	**SPORTS**
Saturday 30/07/2022	**PY11.2** Describe and discuss adaptation to altered temperature(heat and cold) **PY11.3** Describe and discuss mechanism offever, cold injuries and heat Stroke **(D)**	**AN43.3** Identify, describe and draw microanatomy of olfactory epithelium, eyelid, lip, sclera-corneal junction, opticnerve, cochlea- organ of corti,pineal gland **(D)**	**AN26.1** Demonstrate anatomical position of skull, Identify and locate individual skull bones in skull **AN26.7** Describe the features of the 7th cervical vertebra **AN40.2** Describe & demonstrate the boundaries, contents, relations and functional anatomy of middle ear and auditory tube **AN44.2** Describe & identify the Fascia, nerves & blood vessels of anterior abdominal wall **(DH)**		**ECE – BIOCHEMISTRY** **TOPIC:** **HYPOTHYROIDISM** **HORIZONTAL INTEGRATION WITH PHYSIOLOGY AND VERTICAL INTERGRATION WITH MEDICINE**		**SPORTS**

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

25 Weeks

Days	8- 9AM	9- 10 AM	10- 11AM	11- 12AM	12- 1PM	1- 2PM	2- 3PM	3- 4PM	04-05
Monday 01/08/2022	**AN41.3** Describe the position, nerve supply and actions of intraocular muscles **(D)**	**BI6.12** Describe the major types of haemoglobin and its derivatives found in the body and their physiological/ pathological relevance. **(L)**	**AN26.1** Demonstrate anatomical position of skull, Identify and locate individualskull bones in skull **AN26.7** Describe the features ofthe 7th cervical vertebra **AN41.1** Describe & demonstrate parts and layers ofeyeball **(DH)**			**PY10.2** Describeand discuss the functions and properties of synapse, reflex, receptors **(SDL)**	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY10.11** Demonstrate the correct clinical examination of the nervous system: Higher functions, sensory system, motor system, reflexes, cranial nerves in a normal volunteer or simulated environment **BI11.16** Observe use of commonly used equipments/techniques in biochemistry laboratory including: •pH meter •Paper chromatography of amino acid •Protein electrophoresis •TLC, PAGE •Electrolyte analysis by ISE •ABGanalyzer •ELISA •Immunodiffusion •Autoanalyser •Quality control •DNA isolation from blood/ tissue **(LAB)**		**AN44.2** Describe & identify the Fascia, nerves & blood vessels of anterior abdominal wall **(SDL)**
Tuesday 02/08/2022	**BI6.9** Describe the functions ofvarious mineralsin the body, their metabolism and homeostasis. **BI6.10** Enumerate and describe the disorders associated withmineral metabolism.**(L)**	**AN41.1** Describe & demonstrateparts and layers of eyeball **(D)**	**PY10.1** Describe and discuss the organizationof nervous system **(L)**	**AN41.3** Describe the position, nerve supply and actions of intraocular muscles **(D)**		**AN43.4** Describe the development and developmental basis of congenital anomalies of face,palate, tongue, branchial apparatus, pituitary gland, thyroid gland &eye **(L)**	**CM2.1** Describe the steps and perform clinical socio-cultural and demographic assessment of the individual, family and community **(Dr.Dheeraj Sharma)** **CM7.3** Enumerate, describe and discuss the sources of epidemiological data **(Dr. Sangeeta Jain Sharma)**		**AN41.1** Describe & demonstrate parts and layers of eyeball **(SDL)**
Wednesday 03/08/2022	**BI6.12** Describethe major types of haemoglobin and its derivatives found in the body and their physiological/ pathological relevance. SDL Biochemistry	**AN39.1** Describe & demonstrate the morphology, nerve supply, embryological basis of nerve supply, blood supply, lymphatic drainage and actions of extrinsic and intrinsic muscles of tongue **(L)**	**AN25.1** Identify, draw and label a slide oftrachea andlung **AN39.1** Describe & demonstrate the morphology,nerve supply, embryological basis of nerve supply, blood supply, lymphatic drainage and actions of extrinsic and intrinsic musclesof tongue **AN39.2** Explain the anatomical basis of hypoglossal nerve palsy **AN43.2** Identify, describe anddraw the microanatomy of pituitary gland, thyroid, parathyroid gland, tongue, salivary glands, tonsil, epiglottis, cornea, retina **(DH)**			Linker Class (Anatomy, Physiology & Biochemistry) **Liver** **PY4.7** Describe and discuss the structure and functions of liver and gall bladder			**AN43.9** Identify anatomical structures in carotid angiogram and vertebral angiogram **(SDL)**

Thursday 04/08/2022	**PY11.9** Interpret growth charts **(D)**	**Anatomy PCT**		**PY10.5** Describeand discuss structure and functions of reticular activating	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY10.11** Demonstrate the correct clinical examination of the nervous system: Higher functions, sensory system, motor system,	**SPORTS**

						system, autonomic nervous system (ANS) **(L)**	reflexes, cranial nerves in a normal volunteer or simulated environment **BI11.16** Observe use of commonly used equipments/techniques in biochemistrylaboratory including: •pH meter •Paper chromatography of amino acid •Protein electrophoresis •TLC, PAGE •Electrolyteanalysisby ISE •ABG analyzer •ELISA •Immunodiffusion •Autoanalyser •Qualitycontrol •DNA isolation from blood/ tissue **(LAB)**	
Friday 05/08/2022	**AN43.7** Identify the anatomical structures in 1) Plain x- ray skull, 2) AP view and lateral view 3) Plain x- ray cervical spine- AP and lateral view 4) Plain xray of paranasal sinuses **(D)**	**PY8.2** Describe the synthesis, secretion, transport, physiological actions, regulation and effect of altered (hypo and hyper) secretion of pituitary gland, thyroid gland, parathyroid gland, adrenal gland, pancreasand hypothalamus **(L)**	**AN42.1** Describe the contents of the vertebralcanal **(D)**	**PY10.4** Describe and discuss motor tracts, mechanism of maintenance of tone, control ofbody movements, posture and equilibrium & vestibular apparatus **(L)**		**AN43.9** Identify anatomical structures in carotid angiogramand vertebral angiogram **(D)**	**DH ANTOMY AN43.8** Describe the anatomical route used forcarotid angiogram and vertebral angiogram	**SPORTS**
Saturday 06/08/2022	**PY11.10** Interpret anthropometric assessment of infants **(D)**	**AN35.4** Describe & demonstrate origin, course, relations, tributaries and termination of internal jugular & brachiocephalic veins **(D)**	**AN35.4** Describe & demonstrate origin, course, relations, tributaries and termination of internal jugular& brachiocephalic veins **AN43.5** Demonstrate- 1) Testing of muscles of facial expression, extraocular muscles, muscles of mastication, 2) Palpation of carotid arteries, facial artery, superficial temporal artery, 3) Location of internal and external jugular veins, 4) Location of hyoid bone, thyroid cartilage and cricoid cartilage with their vertebral levels **(DH)**			**ECE (Anatomy) AN43.9 Identify anatomical structures in carotid angiogram and vertebral angiogram. 43.7 Identify the anatomical structure in Plain Xray skull. AP view, Plain Xray of Paranasal Sinus.**		**SPORTS**

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

26 Weeks

Days	8- 9AM	9- 10 AM	10- 11AM	11- 12AM	12- 1PM	1- 2PM	2- 3PM	3- 4PM	04-05 PM
Monday **08/08/2022**	**AN35.3** Demonstrate & describe the origin, parts, course & branches subclavian artery **(D)**	**BI6.12** Describe the major types of haemoglobin and its derivatives found in the body and their physiological/ pathological relevance. **(L)**	**AN26.1** Demonstrate anatomical position of skull, Identify and locate individualskull bones in skull **AN26.7** Describe the featuresof the 7th cervical vertebra **AN35.3** Demonstrate & describe the origin, parts, course & branches subclavian artery **(DH)**			**PY10.17** Describe and discuss functional anatomy of eye, physiology of image formation, physiologyof vision including colour vision, refractive errors, colour blindness, physiology of pupil and light reflex **(D)**	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **PY10.11** Demonstrate the correct clinicalexamination of the nervous system: Higher functions, sensory system, motor system, reflexes, cranial nerves in a normal volunteer or simulated environment **BI11.16** Observe use of commonly used equipments/techniques in biochemistry laboratory including: •pH meter •Paper chromatography of amino acid •Protein electrophoresis •TLC, PAGE •Electrolyte analysis by ISE •ABG analyzer •ELISA •Immunodiffusion •Autoanalyser •Quality control •DNA isolation fromblood/ tissue **(LAB)**		**AN43.5** Demonstrate- 1) Testing of muscles of facial expression, extraocular muscles, muscles of mastication, 2) Palpation of carotid arteries, facial artery, superficial temporal artery, 3) Location of internal and external jugular veins, 4) Location of hyoid bone, thyroid cartilage and cricoid cartilage with their vertebral levels **(SDL)**
Tuesday **09/08/2022**	**BI6.9** Describe the functions of various minerals in thebody, their metabolism and homeostasis. **BI6.10** Enumerate and describe the disorders associated with mineral metabolism. **(L)**	**AN62.1** Enumerate cranial nerve nuclei with its functional component **(D)**	**PY10.3** Describe and discuss somatic sensations & sensory tracts **(L)**	**AN62.1** Enumerate cranial nerve nuclei with its functional component **(L)**	**LUNCH**	**AN52.5** Describe the development and congenital anomaliesof Diaphragm **(L)**	**CM2.2** Describe the socio-cultural factors, family (types), its role in health and disease & demonstrate in a simulated environment the correct assessment of socio-economic status **(Dr.Dheeraj Sharma)** **CM7.4** Define, calculate and interpret morbidity and mortality indicators based on given set of data **(Dr. Sangeeta Jain Sharma)**		**AN35.3** Demonstrate & describe the origin, parts, course & branches subclavian artery **(SDL)**

Wednesday **10/08/2022**	**BI6.9** Describe the functions of various minerals in the body, their metabolism and homeostasis. **BI6.10** Enumerate and describe the disorders associated with mineral metabolism. **(L)**	**AN31.5** Explain the anatomical basis of oculomotor, trochlear and abducent nerve palsies along with strabismus **(L)**	**AN31.5** Explain the anatomical basis of oculomotor, trochlear and abducent nerve palsies along with strabismus **(DH)**
Thursday **11/08/2022**	**PY11.4** Describe and discuss cardio-respiratory and metabolic adjustments during exercise; physical training effects **(D)**	**AN62.5** Describe boundaries, parts, gross relations, major nuclei and connections of dorsal thalamus, hypothalamus, epithalamus, metathalamus and subthalamus **(L)**	
Friday **12/08/2022**	**AN62.1** Enumerate cranial nerve nuclei with its functional component **(D)**	**PY8.2** Describe the synthesis, secretion, transport, physiological actions, regulation and effect of altered (hypo and hyper) secretion of pituitary gland, thyroid gland, parathyroid gland, adrenal gland, pancreas and hypothalamus	**PY11.4** Describe and discuss cardio-respiratory and metabolic adjustments during exercise; physical training effects **(L)**

PY10.5 Describe and discuss structure and functions of reticular activating system, autonomic nervous system (ANS) **BI5.2** Describe and discuss functions of proteins and structure-function relationships in relevant areas eg, hemoglobin and selected hemoglobinopathies **(L)**	**PY2.13** Describe steps for reticulocyteand platelet count **PY11.13** Obtain history and perform general examination in the volunteer /simulated environment **BI11.1** Describe commonly used laboratory apparatus and equipments, good safe laboratory practice and wastedisposal. **(LAB)**	**AN31.5** Expla the anatomica basis of oculomotor, trochlear and abducent nerv palsies along with strabismu **(SDL)**
PY10.5 Describe and discuss structure and functions of reticular activating system, autonomic nervous system (ANS) **(L)**	**PY2.13** Describe steps for reticulocyteand platelet count **PY11.13** Obtain history and perform general examination in the volunteer /simulated environment **BI11.1** Describe commonly used laboratory apparatus and equipments, good safe laboratory practice and wastedisposal. **(LAB)**	**SPORTS**
AN35.3 Demonstrate & describe the origin, parts, course & branches subclavian artery **(D)**	**ANATOMY DH** **AN26.1** Demonstrate anatomical positionof skull, Identify and locate individual skull bones in skull **AN26.7** Describe the features of the 7th cervical vertebra **AN35.3** Demonstrate & describe theorigin, parts, course &	SPORTS

Saturday 13/08/2022	**PY11.8** Discuss & compare cardio-respiratory changes in exercise (isometric and isotonic) with that in the resting state and under different environmental conditions (heat and cold) **(D)**	**AN62.1** Enumerate cranial nerve nuclei with its functional component **(D)**	**AN31.5** Explain the anatomical basis of oculomotor, trochlear and abducent nerve palsies along with strabismus **(DH)**		**ECE – BIOCHEMISTRY TOPIC : HYPERCHOLESTEROLEMIA VERTICAL INTEGRATION WITH MEDICINE**	SPORTS

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

27th Weeks

Days	8- 9AM	9- 10 AM	10- 11AM	11- 12AM	12- 1PM	1- 2PM	2- 3PM	3- 4PM	04-05 PM
Monday **15/08/2022**	**2ND TERMINAL EXAMINATIONS**				**LUNCH**	**2ND TERMINAL EXAMINATIONS**			**SPORTS**
Tuesday **16/08/2022**									**SPORTS**
Wednesday **17/08/2022**									**SPORTS**
Thursday **18/08/2022**									**SPORTS**
Friday **19/08/2022**									**SPORTS**
Saturday **20/08/2022**									**SPORTS**

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

28 Weeks

Days	8- 9AM	9- 10 AM	10- 11AM	11- 12AM	12- 1PM	1- 2PM	2- 3PM	3- 4 PM	4-5 PM
Monday **22/08/2022**	**AN15.1** Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of anterior thigh **AN20.3** Describe and demonstrate Fascia lata, Venous drainage, Lymphatic drainage, Retinacula & Dermatomes of lower limb **(D)**	**BI5.2** Describe and discuss functions of proteins and structure- function relationships in relevant areas eg, hemoglobin and selected hemoglobinopathies **(L)**	**AN14.1** Identify the given bone, its side, important features & keep it in anatomical position **AN14.2** Identify & describe joints formed by the given bone **AN14.3** Describe the importance of ossification of lower end of femur & upper end of tibia **AN14.4** Identify and name various bones in the articulated foot with individual muscle attachment **(DH)**		**LUNCH**	**PY10.17** Describe and discuss functional anatomy of eye, physiology of image formation, physiology of vision including colourvision, refractive errors, colour blindness, physiology of pupil and light reflex **(D)**	**PY2.13** Describe steps for reticulocyte and platelet Count **PY11.3** Describe and discuss mechanism of fever, cold injuries and heat stroke **BI11.16** Observe use of commonly used equipments/techniques in biochemistry laboratory including: •pH meter •Paper chromatography of amino acid •Protein electrophoresis •TLC, PAGE •Electrolyte analysis by ISE •ABG analyzer •ELISA •Immunodiffusion •Autoanalyser •Quality control •DNA isolation from blood/ tissue **(LAB)**		SPORTS
Tuesday **23/08/2022**	**BI6.9** Describe the functions of various minerals in the body, their metabolism and homeostasis. **BI6.10** Enumerate and describe the disorders associated with mineral metabolism. **(L)**	**AN15.3** Describe and demonstrate boundaries, floor, roof and contents of femoral triangle. **(L)**	**PY10.3** Describe and discuss somatic sensations & sensory tracts **(L)**	**AN15.3** Describe and demonstrate boundaries, floor, roof and contents of femoral triangle. **(D)**		**AN52.7** Describe the development of Urinary system **(L)**	**CM2.3** Describe and demonstrate in a simulated environment the assessment of barriers to good health and health seeking behavior **(Dr.Dheeraj Sharma)** **CM7.5** Enumerate, define, describe and discuss epidemiological study Designs **(Dr. Sangeeta Jain Sharma)**		**SPORTS**
Wednesday **24/08/2022**	**BI6.9** Describe the functions of various minerals in the body, their metabolism and homeostasis.	**AN48.4** Describe the branches of sacral plexus **(L)**	**AN54.1** Describe & identify features of plain X ray abdomen **AN54.2** Describe & identify the			**BI3.8** Discuss and interpret laboratory results of analytes associated with	**PY2.13** Describe steps for reticulocyte and platelet Count **PY3.15** Demonstrate effect of mild, moderate and		**SPORTS**

	BI6.10 Enumerate and describe the disorders associated with mineral metabolism. **(L)**		special radiographs of abdominopelvic region (contrast X ray Barium swallow, Barium meal, Barium enema, Cholecystography, Intravenous pyelography &Hysterosalpingography) **(DH)**			Metabolism of carbohydrates **BI3.9** Discuss the mechanism and significance of blood glucose regulation in health and disease.. **BI3.10** Interpretthe results of blood glucose levels and otherlaboratory investigations related to disorders of carbohydrate metabolism. **(L)**	severe exercise and record changes in cardiorespiratory parameters **BI11.16** Observe use of commonly used equipments/techniques in biochemistry laboratory including: •pH meter •Paper chromatography of amino acid •Protein electrophoresis •TLC, PAGE •Electrolyte analysis by ISE •ABG analyzer •ELISA •Immunodiffusion •Autoanalyser •Qualitycontrol •DNA isolation from blood/ tissue **(LAB)**	
Thursday **25/08/2022**	**PY11.5** Describe and discuss physiological consequences of sedentary lifestyle **(D)**	**AN15.1** Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of anterior thigh **AN15.2** Describe and demonstrate major muscles with their attachment, nerve supply and actions **(D)**	**AN14.4** Identify and name various bones in the articulated footwith individual muscle attachment **AN15.1** Describe and demonstrateorigin, course, relations, branches (or tributaries), termination of important nerves and vessels of anterior thigh **AN15.2** Describe and demonstratemajor muscles with their attachment, nerve supply and actions **AN15.3** Describe and demonstrate boundaries, floor, roof and contents of femoral triangle**(DH)**			**PY10.8** Describe and discuss behaviouralandEEG characteristics during sleep and mechanism responsible for its production **(L)**	**PY2.13** Describe steps for reticulocyte and plateletcount **PY3.15** Demonstrate effect of mild, moderate andsevere exercise and record changes in cardiorespiratory parameters **BI11.17** Explain the basis and rationale of biochemical tests done in the following conditions: - diabetes mellitus, - dyslipidemia, - myocardial infarction, - renal failure, gout, - proteinuria, - nephrotic syndrome, - edema, - jaundice, - liver diseases, pancreatitis, disorders of acid- base balance, - thyroid disorders. **(LAB)**	**SPORTS**
Friday **26/08/2022**	**AN15.5** Describe and	**PY10.9** Describe and discuss	**AN16.1** Describe	**PY10.4** Describe and		**AN16.1** Describe and	**ANATOMY – DH** **AN16.1**	

	demonstrate adductorcanal with its content**(D)**	the physiological basis of memory, learning and speech**(L)**	and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of gluteal region **(L)**	discuss motor tracts, mechanism of maintenance of tone, control of body movements, posture and equilibrium & vestibular apparatus **(L)**		demonstrate origin, course, relations, branches (or tributaries), termination of important nervesand vessels of gluteal region **AN16.3** Explain the anatomical basis of Trendelenburgsign **(D)**	Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of gluteal region **AN15.1** Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of anterior thigh **AN14.1** Identify the given bone, its side, important features & keep it in anatomical position **(LAB)**	SPORTS
Saturday **27/08/2022**	**PY11.11** Discuss the concept, criteria for diagnosis of Brain death and its implications **(D)**	**AN16.4** Describe and demonstrate the hamstrings group of muscles with their attachment, nerve supply and actions **AN16.5** Describe and demonstrate the origin, course, relations, branches(or tributaries), termination of important nerves and vessels on theback of thigh **(D)**	**AN15.1** Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of anterior thigh **AN15.3** Describe and demonstrate boundaries, floor, roof and contents of femoral triangle **AN16.4** Describe and demonstrate the hamstrings group of muscles with their attachment, nerve supply and actions **AN16.5** Describe and demonstrate the origin, course, relations,branches (or tributaries), termination of important nerves and vessels on the back of thigh **(DH)**			**ECE DVT & Varicose veinsAN19.3** Explain the concept of "Peripheral heart" **AN20.3** Describe and demonstrate Fascia lata, Venous drainage, Lymphatic drainage, Retinacula & Dermatomes of lower limb**AN20.5** Explain anatomical basis of varicose veins and deep vein thrombosis		**S P O R T S**

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR 29th Weeks									
Days	**8- 9AM**	**9- 10 AM**	**10- 11AM**	**11- 12AM**	**12- 1PM**	**1- 2PM**	**2- 3PM**	**3- 4PM**	**04-05PM**
Monday **29/08/2022**	**AN16.6** Describe and demonstratethe boundaries, roof, floor, contents and relations of popliteal fossa **(D)**	**BI3.8** Discuss and interpret laboratory results of analytes associated with metabolism of carbohydrates **BI3.9** Discuss the mechanismand significance of blood glucose regulation in health and disease.. **BI3.10** Interpret the results of blood glucose levels and other laboratory investigations related to disorders of carbohydrate metabolism. **(L)**	**AN14.1** Identify the given bone, its side, important features & keep it in anatomical position**AN16.6** Describe and demonstrate the boundaries, roof, floor, contents and relations of popliteal fossa **(DH)**			**PY10.17** Describe and discuss functional anatomy of eye, physiology of image formation, physiology of vision including colourvision, refractive errors, colour blindness, physiology of pupil and light reflex **(D)**	**PY2.13** Describe steps for reticulocyte and plateletcount **PY3.13** Describe muscular dystrophy: myopathies **BI11.17** Explain the basis and rationale of biochemical tests done in the following conditions: - diabetes mellitus, - dyslipidemia, - myocardial infarction, - renal failure, gout, - proteinuria, - nephrotic syndrome, - edema, - jaundice, - liver diseases, pancreatitis, disorders of acid- base balance, - thyroid disorders. **(LAB)**		**SPORTS**
Tuesday **30/08/2022**	**BI6.9** Describe the functions of various minerals in the body, their metabolism and	**AN18.1** Describe and demonstrate major muscles of anterolateral compartment of leg with their attachment,	**PY10.3** Describe and discuss somatic sensations & sensory tracts **(L)**	**AN18.2** Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important		**AN52.8** Describe the development of male & female reproductive system **(L)**	**CM 2.4** Describe social psychology, community behaviour and community relationship and their impact on health and disease **(Dr.Dheeraj Sharma)** **CM7.6** Enumerate and evaluate the need of screening tests **(Dr. Sangeeta Jain Sharma)**		**SPORTS**

	homeostasis **BI6.10** Enumerate and describe the disorders associated with mineral metabolism.. **(SDL)**	nerve supply and actions **(D)**		nerves and vessels of anterior compartmentof leg **AN18.3** Explain the anatomical basis of foot drop **(L)**				
Wednesday **31/08/2022**	**BI6.9** Describe the functions of various minerals in the body, their metabolismand homeostasis **BI6.10** Enumerate and describe the disorders associated with mineral metabolism.**(L)**	**AN20.3** Describe and demonstrate Fascia lata, Venous drainage, Lymphatic drainage, Retinacula & Dermatomes of lower limb **(D)**	**AN14.1** Identify the given bone, its side, important features & keepit in anatomical position **AN14.4** Identify and name various bones in the articulated footwith individual muscle attachment **AN18.2** Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of anteriorcompartment of leg **AN18.3** Explain the anatomical basis offoot drop **(DH)**			**ECE – BIOCHEMISTRY** **BI11.9** Demonstrate the estimation of serum total cholesteroland HDLcholesterol **BI11.16** Observe use of commonly used equipments/techniques in biochemistry laboratory including: •pH meter •Paper chromatography of amino acid •Protein electrophoresis •TLC, PAGE •Electrolyte analysis by ISE •ABG analyzer •ELISA •Immunodiffusion •Autoanalyser •Quality control •DNA isolation from blood/ tissue **BI11.17** Explain the basis and rationale of biochemical tests done in the following conditions: - diabetes mellitus, - dyslipidemia, - myocardial infarction, - renal failure, gout, - proteinuria, - nephrotic syndrome, - edema, - jaundice, - liver diseases, pancreatitis, disorders of acid- base balance, - thyroid disorders.		**SPORTS**
Thursday **01/09/2022**	**PY11.12** Discuss the physiological effects of meditation **(D)**	**AN19.1** Describe and demonstrate the major muscles of backof leg with their attachment, nerve supply and actions **(D)**	**AN14.4** Identify and name various bones in the articulated footwith individual muscle attachment **AN19.1** Describe and demonstrate themajor muscles of back of leg with their attachment, nerve supply and actions **(DH)**			**PY10.8** Describe and discuss behavioural and EEG characteristics during sleep and mechanism responsible for its production **(L)**	**PY2.12** Describe test for ESR, Osmotic fragility, Hematocrit. Note the findings and interpret the test results etc **PY3.16** Demonstrate Harvard Step test and describe the impact on induced physiologic parameters in a simulated environment **BI11.17** Explain the basis and rationale of biochemical tests done in the following conditions: - diabetes mellitus, - dyslipidemia, - myocardial infarction, - renal failure, gout, - proteinuria, - nephrotic syndrome, - edema, - jaundice, - liver	**SPORTS**

						diseases, pancreatitis, disorders of acid- base balance, - thyroid disorders. **(LAB)**	
Friday **02/09/2022**	**AN19.2** Describe and demonstratethe origin, course, relations, branches (or tributaries), termination of important nerves and vessels of back of leg **(D)**	**PY10.9** Describe and discuss the physiological basis of memory, learning and speech **(L)**	**AN17.1** Describe and demonstratethe type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements and muscles involved, blood and nerve supply, bursae around thehip joint**(L)**	**PY10.4** Describe and discuss motor tracts, mechanism of maintenance of tone, control ofbody movements, posture and equilibrium & vestibular apparatus **(D)**		**ANA (D)** **AN14.4** Identify and name various bones in the articulated foot with individualmuscle attachment**(D)**	**ANATO MY DH** **AN14.4** Identify and name various bones in the articulated foot with individual muscle attachment **AN19.1** Describe and demonstrate the major muscles of back of leg with their attachment, nerve supply and actions	**S P O R T S**
Saturday **03/09/2022**	**PHY** **PY10.9** Describe and discuss the physiological basis of memory, learning and speech **(D)**	**ANATOMY ECEAN17.1** Describe and demonstrate the type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements and muscles involved, blood and nerve supply, bursa around the hip joint **AN17.2** Describe anatomical basis of complications offracture neck of femur **AN17.3** Describe dislocation of hip joint and surgical hipreplacement				**ECE** **PHYSIOLOGY TOPIC-** **SPINAL CORD INJARYES** **PY10.6** Describe and discuss Spinal cord, its functions, lesion & sensory disturbances		**SPORTS**

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

30th Weeks

Days	8- 9AM	9- 10 AM	10- 11AM	11- 12AM	12- 1PM	1- 2PM	2- 3 PM	3- 4PM	04-05
Monday **05/09/2022**	**AN18.3 Explain the Anatomical basis of foot drop**	**BI6.9** Describe the functions of various minerals in the body, their metabolism	**AN14.1** Identify the given bone, its side, important features & keepit in anatomical position **AN14.4** Identify and name various bones in the articulated footwith individual muscle attachment **AN18.2** Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of anterior compartment of leg **AN18.3** Explain the anatomical basis of foot drop **(DH)**			**PY8.2** Describe the synthesis secretion transport physiological action regulation and effect of altered secretion of thyroid gland **BI6.13** thyroid function Test **AN35.12** describe and demonstrate location parts borders surfaces relations and blood supply of thyroid gland			**SPORTS**
Tuesday **06/09/2022**	**BI8.1**	**AN18.4**	**PY10.3**	**AN18.4**		**AN52.8**	**CM2.5** Describe poverty and social security measures and its relationship to health and disease **(Dr.Dheeraj Sharma)** **CM7.7** Describe and demonstrate the steps in the Investigation of an epidemic of communicable disease and describe the principles of control measures (**Dr. Sangeeta Jain Sharma)**		

	Discuss the importance of various dietary components and explain importance of dietary fibre. **(SDL)**	Describe and demonstrate the type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements **(D)**	Describe and discuss somatic sensations & sensory tracts **(L)**	Describe and demonstrate the type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements and muscles **(L)**		Describe the development of male & female reproductive system **(L)**		SPORTS

Wednesday **07/09/2022**	**BI7.5** Describe the role of xenobiotics in disease **(D)**	**AN19.5** Describe factors maintaining importance arches of the foot with its importance **(L)**	**AN14.1** Identify the given bone, its side, important features & keep it in anatomical position **AN19.1** Describe and demonstrate the major muscles of back of leg with their attachment, nerve supply and actions **(DH)**		**BI8.3** Provide dietary advice for optimal health in childhood and adult, in disease conditions like diabetes mellitus, coronary artery disease and in pregnancy **(L)**	**PY2.12** Describe test for ESR, Osmotic fragility, Hematocrit. Note the findings and interpret the test results etc **PY3.16** Demonstrate Harvard Step test and describe the impact on induced physiologic parameters in a simulated environment **BI11.17** Explain the basis and rationale of biochemical tests done in the following conditions: - diabetes mellitus, - dyslipidemia, - myocardial infarction, - renal failure, gout, - proteinuria, - nephrotic syndrome, - edema, - jaundice, - liver diseases, pancreatitis, disorders of acid- base balance, - thyroid disorders. **(LAB)**	**SPORTS**
	PY10.10 Describe and discuss chemical transmission in the nervous system. (Outline the psychiatry element).	**AN19.5** Describe factors maintaining importance arches of the foot with its	**AN19.5** Describe factors maintaining importance arches of the foot with its importance **AN19.6** Explain the anatomical basis of Flat foot & Club foot **(DH)**		**PY10.4** Describe and discuss motor tracts, mechanism of maintenance of tone,	**PY3.18** Observe with Computer assisted learning (i) amphibian nerve - muscle experiments (ii) amphibian cardiac experiments **BI11.17** Explain the basis and rationale of biochemical tests done in the following conditions: - diabetes mellitus, - dyslipidemia, - myocardial infarction, - renal	**SPORTS**

Thursday **08/09/2022**	**(D)**	importance **AN19.6** Explain the anatomical basis of Flat foot & Club foot **(L)**			control of body movements, posture and equilibrium & vestibular apparatus **(L)**	failure, gout, - proteinuria, - nephrotic syndrome, - edema, - jaundice, - liver diseases, pancreatitis, disorders of acid- base balance, - thyroid disorders. **(LAB)**	

Friday **09/09/2022**	**(LINKER CLASS SPINAL CORD)** **AN57.1** Identify external features of spinal cord **AN57.2** Describe extent of spinal cord in child & adult with its clinicalimplication **AN57.3** Draw & label transverse section of spinal cord at mid- cervical & mid- thoracic level **AN57.4** Enumerate ascending & descending tracts at mid thoracic levelof spinal cord **PY10.6** Describe and discuss Spinal cord, its functions, lesion & sensory disturbances				**AN20.1** Describe anddemonstrate the type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements and muscles involved, blood and nerve supplyof tibiofibular and ankle joint **(D)**	**ANATOMY DH** **AN14.1** Identify the given bone, its side, importantfeatures & keep it in anatomical position **AN19.1** Describe and demonstrate the major muscles ofback of leg with their attachment, nerve supplyand actions	**SPORTS**
Saturday **10/09/2022**	**PY11.7** Describe and discuss physiology of aging; free radicals and antioxidants (D)	**AN20.1** Describe and demonstratethe type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements and muscles involved, blood and nerve supplyof tibiofibular and anklejoint (D)	**AN20.1** Describe and demonstrate the type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements and muscles involved, blood andnerve supply of tibiofibular and ankle joint (DH)		**ECE Biochemistry** **BI3.9** Discuss the mechanismand significance of blood glucose regulation in health and disease.. **BI3.10** Interpret the results of bloodglucose levels and other laboratory investigations related to disorders of carbohydrate metabolism.		**SPORTS**

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

31 Weeks

Days	8- 9AM	9- 10 AM	10- 11AM	11- 12AM	12- 1PM	1- 2PM	2- 3 PM	3- 4PM	04-05
Monday **12/09/2022**	**AN20.2** Describe the subtalar and transverse tarsal joints **(D)**	**BI7.6** Describe the anti-oxidant defence systems in thebody. **(L)**	**AN20.7** Identify & demonstrate important bony landmarks of lower limb: - Vertebral levels ofhighest point of iliac crest, posterior superior iliac spines, iliac tubercle, pubic tubercle, ischial tuberosity, adductor tubercle, - Tibial tuberosity, head of fibula, - Medial and lateral malleoli, Condyles of femur and tibia, sustentaculumtali, tuberosity offifth metatarsal, tuberosity of the navicular **AN20.8** Identify & demonstrate palpation of femoral, popliteal,post tibial, anti tibial&dorsalispedis blood vessels in a simulated environment **(DH)**			**PY10.18** Describe and discussthe physiological basis of lesion in visual pathway **(D)**	**PY3.18** Observe with Computer assisted learning (i) amphibian nerve - muscle experiments (ii) amphibian cardiac experiments **BI11.17** Explain the basis and rationale ofbiochemical tests done in the following conditions: - diabetes mellitus, - dyslipidemia, - myocardial infarction, - renal failure, gout, - proteinuria, - nephrotic syndrome, - edema, - jaundice, - liver diseases, pancreatitis, disorders ofacid- base balance, - thyroid disorders. **(LAB)**		**SPORTS**
Tuesday **13/09/2022**	**BI7.5** Describethe roleof xenobiotics in disease **(SDL)**	**AN20.6** Identify the bones and joints of lower limb seen in anteroposteriorand lateral view radiographs of various regions of lower limb **(D)**	**PY10.7** Describe and discuss functions of cerebral cortex, basal ganglia, thalamus, hypothalamus, cerebellum and limbic system and their abnormalities **(L)**	**AN64.3** Describe various types of open neuraltube defects with its embryological basis **(L)**		**AN52.8** Describe the development of male & female reproductive system**(L)**	**CM3.1** Describe the health hazards of air, water, noise, radiation and pollution **(Dr.Dheeraj Sharma)** **CM7.8** Describe the principles of association, causation and biases in epidemiological studies **(Dr. Sangeeta Jain Sharma)**		**SPORTS**

Wednesday **14/09/2022**	**BI7.1** Describe the structure and functions ofDNA and RNA and outline the cell cycle. **(L)**	**PCT**				**BI6.2** Describe and discuss the metabolic processesin which nucleotidesare involved. **(L)**	**PY3.18** Observe with Computer assisted learning (i) amphibian nerve - muscle experiments (ii) amphibian cardiac experiments **BI11.17** Explain the basis and rationale of biochemical tests done in the following conditions: - diabetes mellitus, - dyslipidemia, - myocardial infarction, - renal failure, gout, - proteinuria, - nephrotic syndrome, - edema, - jaundice, - liver diseases, pancreatitis, disorders of acid- base balance, - thyroid disorders. **(LAB)**	**SPORTS**
Thursday **15/09/2022**	**PY5.10** Describe & discuss regional circulation including microcirculation, lymphatic circulation, coronary, cerebral, capillary, skin, foetal, pulmonary and splanchnic circulation **(D)**	**AN58.1** Identify external features of medulla oblongata **AN58.2** Describe transverse section of medulla oblongata at the level of 1) pyramidal decussation, 2) sensory decussation 3) ion **(L)**	**AN58.1** Identify external features ofmedulla oblongata **AN58.3** Enumerate cranial nerve nuclei in medulla oblongata with their functional group **(DH)**			**PY10.6** Describe and discuss Spinal cord, its functions, lesion & sensory disturbances **(L)**	**PY3.18** Observe with Computer assisted learning (i) amphibian nerve - muscle experiments (ii) amphibian cardiac experiments **BI11.17** Explain the basis and rationale of biochemical tests done in the following conditions: - diabetes mellitus, - dyslipidemia, - myocardial infarction, - renal failure, gout, - proteinuria, - nephrotic syndrome, - edema, - jaundice, - liver diseases, pancreatitis, disorders of acid- base balance, - thyroid disorders. **(LAB)**	**SPORTS**
Friday **16/09/2022**	**AN58.3** Enumerate cranial nerve nuclei in medulla oblongata with their functional group	**PY10.4** Describe and discuss motor tracts, mechanism of maintenance of tone, controlofbody movements,	**AN59.1** Identify external features of pons **AN59.2** Draw & label transverse section of	**PY10.7** Describe and discuss functions of cerebral cortex, basal ganglia, thalamus, hypothalamus,		**AN59.1** Identify external features of pons **AN59.2** Draw & label transverse section of pons at the upperand lower level **AN59.3**	**ANTOM Y DH** **AN58.1** Identify external features of medulla oblongata **AN58.3** Enumerate cranial nerve nuclei in medulla oblongata with their functional group	**S P O R T S**

	(D)	posture and equilibrium & vestibular apparatus **(L)**	pons at the upper and lower level **(L)**	cerebellum and limbic system and their abnormalities **(L)**		Enumerate cranial nerve nuclei in ponswith their functional group **(D)**		
Saturday **17/09/2022**	**PY5.10** Describe & discuss regional circulation including microcirculation, lymphatic circulation, coronary, cerebral, capillary, skin, foetal, pulmonary and splanchnic circulation **(D)**	**AN61.1** Identify external & internal features of midbrain **(D)**	**AN61.1** Identify external & internal features of midbrain **(DH)**			**ECE Anatomy** **AN58.3** Enumerate cranial nerve nuclei in medulla oblongata with their functional group		**SPORTS**

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

32 Weeks

Days	8- 9AM	9- 10 AM	10- 11AM	11- 12AM	12- 1PM	1- 2PM	2- 3PM	3- 4 PM	04-05
Monday **19/09/2022**	**AN61.1** Identify external & internal features of midbrain **(Revision)**	**BI6.2** Describe and discuss the metabolic processes in which nucleotides are involved. **(L)**	**AN61.1** Identify external & internal features of midbrain **(Revision)**		**LUNCH**	**PY10.15** Describe and discuss functional anatomy of ear and auditory pathways & physiology of hearing **(D)**	**PY3.18** Observe with Computer assisted learning (i) amphibian nerve - muscle experiments (ii) amphibian cardiac experiments **BI11.18** Discuss the principles of Spectrophotometry. **(LAB)**		**SPORTS**
Tuesday **20/09/2022**	**BI7.1** Describe the structure and functions of DNA and RNA and outline the cell cycle. **(L)**	**(LINCAR CLASS CEREBELLUM)** **AN60.1** Describe & demonstrate external & internal features of cerebellum (D) **AN60.2** Describe connections of cerebellar cortex and intracerebellar nuclei (L) **PY10.7** Describe and discuss functions of cerebral cortex, basal ganglia, thalamus, hypothalamus,cerebellum and limbic system and their abnormalities				**AN60.3** Describe anatomicalbasis of cerebellar dysfunction **(L)**	**CM3.2** Describe concepts of safe and wholesome water, sanitary sources of water, water purification processes, water quality standards, concepts of water conservation and rainwater harvesting **(Dr.Dheeraj Sharma)** **CM7.9** Describe and demonstrate the application of computers in Epidemiology **(Dr. Sangeeta Jain Sharma)**		**SPORTS**
Wednesday **21/09/2022**	**BI7.2** Describe the processes involved in replication & repair of DNA and the transcription & translation mechanisms **(L).**	**AN63.1** Describe & demonstrate parts, boundaries & features of IIIrd, IVth& lateral ventricle **(L)**	**AN63.1** Describe & demonstrate parts, boundaries & features of IIIrd, IVth& lateral ventricle **(DH)**			**BI6.3** Describe the common disorders associated with nucleotide metabolism. **(L)**	**PY3.18** Observe with Computer assisted learning (i) amphibian nerve - muscle experiments (ii) amphibian cardiac experiments **BI11.18** Discuss the principles of spectrophotometry **(LAB)**		**SPORTS**

Thursday **22/09/2022**	**PY10.7** Describe and discuss functions of cerebral cortex, basal ganglia, thalamus, hypothalamus, cerebellum and limbic system and their abnormalities **(D)**	**AN62.5** Describe boundaries, parts, gross relations, major nuclei and connections of dorsal thalamus, hypothalamus, epithalamus, metathalamusand subthalamus **(L)**	**AN62.5** Describe boundaries, parts, gross relations, major nucleiand connections of dorsal thalamus, hypothalamus, epithalamus, metathalamusand subthalamus **(DH)**		**PY10.6** Describe and discuss Spinal cord, its functions, lesion & sensory disturbances**(L)**	**PY3.9** Describe the molecular basis of musclecontraction in skeletal and in smooth muscles **BI11.18** Discuss the principles of spectrophotometry **(LAB)**	**SPORTS**
Friday **23/09/2022**	**AN62.5** Describe boundaries, parts, gross relations, major nuclei and connections of dorsal thalamus, hypothalamus, epithalamus, metathalamusand subthalamus **(L)**	**PY10.7** Describe and discuss functions of cerebral cortex, basal ganglia, thalamus, hypothalamus, cerebellum and limbic system and their abnormalities **(L)**	**AN62.5** Describe boundaries, parts, gross relations, major nuclei and connections of dorsal thalamus, hypothalamus, epithalamiums, metathalamusand sub thalamus **(L)**		**AN59.1** Identify external features of pons **(Revision)**	**DH ANATOMY** **AN62.5** Describe boundaries, parts, gross relations,major nuclei and connections of dorsal thalamus, hypothalamus, epithalamus, metathalamus and subthalamus	**SPORTS**
Saturday **24/09/2022**	**PY10.15** Describe and discuss functional anatomy of ear and auditory pathways & physiology of hearing **(D)**	**AN62.3** Describe the white matterof cerebrum **(D)**	**AN62.3** Describe the white matter of cerebrum **(DH)**		**ECE - PHYSIOLOGY** **PY10.7** Describe and discuss functions of cerebral cortex, basal ganglia, thalamus, hypothalamus, cerebellum and limbic system andtheir abnormalities		**SPORTS**

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

33 Weeks

Days	8- 9AM	9- 10 AM	10- 11AM	11- 12AM	12- 1PM	1- 2PM	2- 3PM	3- 4PM	4-5 PM
Monday **26/09/2022**	**AN62.3** Describe the white matterof cerebrum **(D)**	**BI6.3** Describe the common disorders associated with nucleotide metabolism.**(L)**	**AN62.3** Describe the white matter ofcerebrum **(DH)**			**PY10.15** Describe and discuss functional anatomy of ear and auditory pathways & physiology of hearing **INTREGRATED WITH ENT (D)**	**PY3.18** Observe with Computer assisted learning (i)amphibian nerve - muscle experiments (ii) amphibian cardiac experiments **BI11.19** Outline the basic principles involved in the functioning of instruments commonly used in a biochemistry laboratory and their applications. **(LAB)**		**COMMUNITY MEDICINE (SDL)**
Tuesday **27/09/2022**	**BI7.2** Describe the processes involved in replication & repair of DNA and the transcription& translation mechanisms.**(L)**	**AN62.3** Describe the white matterof cerebrum **(L)**	**PY10.7** Describe and discuss functions of cerebral cortex, basal ganglia, thalamus, hypothalamus, cerebellum and limbic system and their abnormalities **(L)**	**AN62.3** Describe the white matter ofcerebrum **(L)**		**AN64.2** Describe the development of neural tube, spinal cord, medulla oblongata, pons, midbrain, cerebral hemisphere & cerebellum **(L)**	**CM3.3** Describe the etiology and basis of water borne diseases/ jaundice/ hepatitis/ diarrheal diseases **(Dr.Dheeraj Sharma)** **CM8.1** Describe and discuss the epidemiological and control measures including the use of essential laboratory tests at the primary care level for communicable diseases (**Dr. Sangeeta Jain Sharma)**		**COMMUNITY MEDICINE (SDL)**
Wednesday **28/09/2022**	**BI7.2** Describe the processes involved in replication & repair of DNA and the transcription& translation mechanisms. **(L)**	**AN62.6** Describe & identify formation, branches & major areasof distributionof circle of Willis **(L)**	**AN62.6** Describe & identify formation,branches & major areas of distribution of circle of Willis **(DH)**			**BI6.4** Discuss the laboratory resultsof analytes associated with gout & Lesch Nyhan syndrome.**(L)**	**PY3.18** Observe with Computer assisted learning (i)amphibian nerve - muscle experiments (ii) amphibian cardiac experiments **BI11.19** Outline the basic principles involved in the functioning of instrumentscommonly used in a biochemistry laboratory and their applications. **(LAB)**		**COMMUNITY MEDICINE (SDL)**
Thursday **29/09/2022**	**PY3.8** Describe action	**AN62.6** Describe & identify	**AN62.6** Describe & identify formation, branches & major areas of			**PY10.7** Describe and discuss functions	**PY3.18** Observe with Computer assisted learning (i) amphibian nerve - muscle experiments (ii)		**COMMUNITY MEDICINE (SDL)**

	potential andits propertiesin different muscle types (skeletal & smooth) **(D)**	formation, branches & major areasof distributionof circle of Willis **(L)**	distribution of circle of Willis **(DH)**		of cerebral cortex,basal ganglia, thalamus, hypothalamus, cerebellum and limbic system and their abnormalities **(L)**	amphibian cardiac experiments **BI11.19** Outline the basic principles involved in the functioning of instrumentscommonly used in a biochemistry laboratory and their applications. **(LAB)**	
Friday 30/09/2022	**AN62.3** Describe the white matterof cerebrum **(Revision)**	**LINKER LIMBIC** **AN62.4** Enumerate parts & major connections of basalganglia & limbic lobe **PY10.7** Describe and discuss functions of cerebral cortex,basal ganglia, thalamus, hypothalamus, cerebellum and limbic system and their abnormalities **PY10.7** Describe and discuss functions of cerebral cortex,basal ganglia, thalamus, hypothalamus, cerebellum and limbic system and their abnormalities			**AN62.3** Describe the whitematter of cerebrum **(Revision)**	**ANATOMY DH** **AN62.5** Describe boundaries, parts, gross relations,major nuclei and connections of dorsal thalamus, hypothalamus, epithalamus, metathalamus and subthalamus	**COMMUNITY MEDICINE (SDL)**
Saturday 01/10/2022	**PY10.15** Describe and discuss functional anatomy of ear and auditory pathways & physiology of hearing **(D)**	**AN56.1** Describe & identify various layers of meninges with its extent & modifications **(D)**	**AN56.1** Describe & identify various layersof meninges with its extent & modifications **(DH)**		**ECE – BIOCHEMISTRY** **AN56.2** Describe circulation of CSF with its applied anatomy **AN63.2** Describe anatomical basis of congenital hydrocephalus**BI11.1** Describe commonly used laboratory apparatus and equipments, good safe laboratory practice and waste disposal.		

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

34 Weeks

Days	8- 9AM	9- 10 AM	10- 11AM	11- 12AM	12- 1PM	1- 2PM	2- 3PM	3- 4PM
Monday 03/10/2022	**AN56.1** Describe & identify various layersof meninges with its extent & modifications **(Revision)**	**BI10.1** Describe the cancer initiation, promotion oncogenes & oncogene activation. Also focus on p53 & apoptosis **(L)**	**AN62.3** Describe the white matter ofcerebrum **(DH)**		**LUNCH**	**PY10.16** Describe and discuss pathophysiology of deafness. Describe hearing tests **(D)**	**PY3.18** Observe with Computer assisted learning (i) amphibian nerve - muscle experiments (ii) amphibian cardiac experiments **BI11.19** Outline the basic principles involved in the functioning of instrumentscommonly used in a biochemistry laboratory and theirapplications. **(LAB)**	
Tuesday 04/10/2022	**BI7.2** Describe the processes involved in replication & repair of DNA and the transcription& translation mechanisms **(L)**	**AN62.2** Describe & demonstrate surfaces, sulci, gyri, poles, & functional areas of cerebral hemisphere **(D)**	**PHYSIOLOGY** PCT	**AN62.6** Describe & identify formation, branches & major areasof distributionof circle of Willis **(L)**		**AN13.8** Describe development of upper limb **AN20.10** Describe basic concept of development oflower limb **(L)**	**CM3.4** Describe the concept of solid waste, human excreta and sewage disposal (**Dr.Dheeraj Sharma)** **CM8.2** Describe and discuss the epidemiological and control measures including the use of essential laboratory tests at the primary care level for Non Communicable diseases (diabetes, Hypertension, Stroke, obesity and cancer etc.) **(Dr. Sangeeta Jain Sharma)**	
Wednesday 05/10/2022	**BI7.3** Describe gene mutations and basic mechanism ofregulation of gene expression. **(L)**	**AN75.1** Describe the structural and numerical chromosomal aberrations **(L)**	**AN75.1** Describe the structural andnumerical chromosomal aberrations **(DH)**			**BI10.2** Describe various biochemicaltumor markers and the biochemical basis of cancer therapy. **(L)**	**PY11.14** Demonstrate Basic Life Support in asimulated environment **BI11.19** Outline the basic principles involved in the functioning of instrumentscommonly used in a biochemistry laboratory and their applications **(LAB).**	

Thursday 06/10/2022	**PY5.2** Describe the properties of cardiac muscle including its morphology, electrical, mechanical and metabolic functions **(D)**	**AN75.2** Explain the terms mosaics and chimeras with example **(L)**	**AN75.2** Explain the terms mosaics and chimeras with example INTREGRATED WITH PHARMACOLOGY **(DH)**	**PY10.7** Describe and discuss functions of cerebral cortex, basal ganglia, thalamus, hypothalamus, cerebellum and limbic system and their abnormalities **(L)**	**PY11.14** Demonstrate Basic Life Support in a simulated environment **BI11.19** Outline the basic principles involved in the functioning of instruments commonly used in a biochemistry laboratory and their applications. **(LAB)**
Friday **07/10/2022**	**AN 76.2** Explain the terms- phylogeny,ontogeny, trimester, viability **(L)**	**PY 10.7** Describe and discuss functions of cerebral cortex, basal ganglia, thalamus, hypothalamus, cerebellum and limbic system and their abnormalities **(L)**	**AN 75.4** Describe genetic basis of variation: polymorphism and mutation **(L)**	**AN 75.4** Describe genetic basis of variation: polymorphism and mutation **(D)**	**AETCOM – ANATOMY** **AN56.2** Describe circulation of CSF with its applied anatomy AN63.2 Describe anatomical basis of congenital hydrocephalus
Saturday **08/10/2022**	PY5.2 Describe the properties of cardiac muscles including its morphology electrical mechanical and metabolic function (D)	**PCT Anatomy**		**ECE – ANATOMY AN** **AN62.2** Describe & demonstrate surfaces, sulci, gyri, poles, & functional areas of cerebral hemisphere **AN56.2** Describe circulation of CSF with its applied anatomy AN63.2 Describe anatomical basis of congenital hydrocephalus	

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR 35 Weeks								
Days	**8- 9AM**	**9- 10 AM**	**10- 11AM**	**11- 12AM**	**12- 1PM**	**1- 2PM**	**2- 3PM**	**3- 4PM**
Monday **10/10/2022**	**AN 75.5** Describe the principles of genetic counseling **(L)**	**BI7.7** Describe the role of oxidative stress in the pathogenesis of conditions such as cancer, complications of diabetes mellitus and atherosclerosis **(L)**	**AN 75.5** Describe the principles of genetic counseling **(DH)**			**PY 10.16** Describe and discuss path physiology of deafness. Describehearing tests **PY11.14** Demonstrate Basic Life Support in a simulatedenvironment **BI11.24** Enumerate advantages and/or disadvantages of use of unsaturated, saturated and trans fats infood. **(LAB)**		
Tuesday **11/10/2022**	**BI7.3** Describe gene mutationsand basic mechanism of regulation of gene expression. **(SDL)**	EMBRYOLOGY REVISION CLASS	**PY 10.7** Describe and discuss functions of cerebral cortex, basal ganglia, thalamus, hypothalamus, cerebellum and limbic system and their abnormalities **(L)**	**AN 64.1** Describe & identify the microanatomical features of Spinal cord, Cerebellum & Cerebrum **(L)**	**LUNCH**	EMBRYOLOGY REVISION CLASS	**CM3.5** Describe the standards of housing and the effect of housing on health (**Dr.Dheeraj Sharma)** **CM8.3** Enumerate and describe disease specific National Health Programs including their prevention and treatment of a case (**Dr. Sangeeta Jain Sharma)**	

Wednesday **12/10/2022**	**BI7.4** Describe applications of molecular technologies like recombinant DNA technology, PCRin the diagnosisand treatment of diseases with genetic basis. **(SDL)**	**AN 52.2** Describe & identify the microanatomical features of: Urinary system: Kidney, Ureter &Urinary bladder Male Reproductive System: Testis, Epididymis,Vas deferens, Prostate & penis Female reproductive	**AN 64.1** Describe & identify the microanatomical features ofSpinal cord, Cerebellum & Cerebrum **(DH)**		**BI10.3** Describe the cellular and humoral components of the immune system & describe the typesand structure of antibody **BI10.4** Describe & discuss innate and adaptive immune responses, self/non- self recognition and the central role of T- helper cells in	**PY 10.16** Describe and discuss path physiologyof deafness. Describe hearing tests **PY11.14** Demonstrate Basic Life Support in a simulated environment **BI11.20** Identify abnormal constituentsin urine, interpret the findings and correlate these with pathological states. **(LAB)**

		system: Ovary, Uterus, Uterine tube, Cervix, Placenta & Umbilical cord **AN52.4** Describe the development of anterior abdominal wall **(L)**			immune responses. **BI10.5** Describe antigens and concepts involvedin vaccine development. **(L)**	
Thursday **13/10/2022**	**PY5.2** Describethe properties of cardiac muscle including its morphology, electrical, mechanical and metabolic functions **(D)**	**AN50.2** Describe& demonstrate the type, articular ends, ligaments and movements of Intervertebral joints, Sacroiliac joints & Pubic symphysis **(L)**	**AN50.2** Describe & demonstrate the type,articular ends, ligaments and movements of Intervertebral joints, Sacroiliac joints & Pubic symphysis **(DH)**		**LINKER CLASS** **BI6.13** Describe the functions of the kidney, liver, thyroid andadrenal glands. **BI6.14** Describe the tests that are commonly done in clinical practice to assess the functions of these organs (kidney, liver,thyroid and adrenal glands). **BI6.15** Describe the abnormalities of kidney, liver, thyroid and adrenal glands. (LFT) & **VERTICAL INTEGRATION WITH GENERAL MEDICINE**	

Friday **14/10/2022**	**ECE** **ANATOMY** **AN 48.6** Describe the neurological basis of Automatic bladder **AN 48.5** Explain the anatomical basis of suprapubic cystostomy, Urinary obstruction in benign prostatic hypertrophy, Retroverted uterus, Prolapse uterus, Internal and external hemorrhoids, Anal fistula, Vasectomy,Tubal pregnancy & Tubal ligation **PY7.6** Describe the innervations of urinary bladder, physiology of micturition and its abnormalities **PY7.9** Describe cystometry and discuss the normal cystometrogram			**AN 48.5** Explain the anatomical basis of suprapubic cystostomy, Urinary obstruction in benign prostatic hypertrophy, Retroverted uterus, Prolapse uterus, Internal and external haemorrhoids, Anal fistula, Vasectomy, Tubal pregnancy & Tubal ligation	**ANATOMY DH** **AN50.2** Describe & demonstrate the type, articular ends, ligaments and movements of Intervertebral joints,Sacroiliac joints & Pubic symphysis
Saturday **15/10/2022**	**PY 7.7** Describe artificial kidney, dialysis and renal transplantation (D)	**AN 48.4** Describe the branches of sacral plexus	**AN 48.4** Describe the branches of sacralplexus		**AN 52.5** Describe the development and congenital anomalies of Diaphragm

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

36 Weeks

Days	8- 9AM	9- 10 AM	10- 11AM	11- 12AM	12- 1PM	1- 2PM	2- 3PM	3- 4PM
Monday **17/10/2022**	**AN57.4** Enumerate ascending & descending tracts at mid thoracic levelof spinal cord	**BI10.3** Describe the cellular and humoral components ofthe immune system & describe the types and structure of antibody **BI10.4** Describe & discuss innate and adaptive immune responses, self/non- self recognition and the central role ofT- helper cells in immune responses. **BI10.5** Describe antigens and concepts involved in vaccine development. **SDL**	**AN57.3** Draw & label transverse section ofspinal cord at mid- cervical & midthoracic level **AN57.4** Enumerate ascending & descending tracts at mid thoracic level of spinal cord		**LUNCH**	**PY 10.17** Describe and discuss functionalanatomy of eye, physiology of image formation, physiology of vision including colour vision, refractive errors, colour blindness, physiology of pupil and light reflex(D)	**LINKER CLASS** **BI6.13** Describe the functions of thekidney, liver, thyroid and adrenal glands. **BI6.14** Describe the tests that are commonly done in clinical practice toassess the functions of these organs (kidney, liver, thyroid and adrenal glands). **BI6.15** Describe the abnormalities ofkidney, liver, thyroid and adrenal glands. (LFT) & **BI8.2** Describe the types and causes of protein energy malnutrition and itseffects. **BI8.4** Describe the causes (includingdietary habits), effects and health risks associated with being overweight/ obesity. **PY 10.20** Demonstrate (i) Testing of visual acuity, colour and field of visionand (ii) hearing (iii) Testing for smell and (iv) taste sensation in volunteer/ simulated environment **VERTICAL INTEGRATION WITH GENERAL MEDICINE**	

Tuesday **18/10/2022**	**BI7.4** Describe applications of molecular technologies like recombinant DNA technology, PCR in the diagnosis and treatment of diseases with genetic basis	**AN 62.3** Describe the white matterof cerebrum	**PY3.6** Describe the pathophysiologyof Myasthenia gravis	**AN 64.1** Describe & identify the microanatomical features of Spinal cord, Cerebellum & Cerebrum		EMBRYOLOGY REVISION CLASS	**CM3.6** Describe the role of vectors in the causation of diseases. Also discuss National Vector Borne disease Control Program (**Dr.Dheeraj Sharma)** **CM8.4** Describe the principles and enumerate the measures to control a disease epidemic (**Dr. Sangeeta Jain Sharma)**
Wednesday **19/10/2022**	**BI7.4** Describe applications of molecular technologies like recombinant DNA technology, PCR in the diagnosis and treatment of diseases with genetic basis. **SDL**	**AN 68.3** Describe the ultrastructure of nervous tissue	**AN 64.1** Describe & identify the microanatomical features of Spinalcord, Cerebellum & Cerebrum			**BI10.3** Describe the cellular and humoral components of the immune system & describethe types and structure of antibody **BI10.4** Describe & discuss innate and adaptive immune responses, self/non- self recognition and the central role of T- helper cells in immune responses. **BI10.5** Describe antigens and concepts involvedin vaccine development.	**PY 10.20** Demonstrate (i) Testing of visual acuity, colour and field of visionand (ii) hearing (iii) Testing for smell and (iv) taste sensation in volunteer/ simulated environment**BI11.20** Identify abnormal constituents in urine, interpret the findings and correlate these with pathological states.

Thursday **20/10/2022**	**PY4.8** Describe & discuss gastric function tests, pancreatic exocrine function tests & liver function tests (D)	**AN 30.2** Describe & identify major foramina with structures passing through them	**AN 17.2** Describe anatomical basis of complications of fracture neck offemur			**PY10.7** Describe and discuss functions of cerebral cortex, basal ganglia, thalamus, hypothalamus,cerebellum and limbic system and their abnormalities **(L)**	**PY 10.20** Demonstrate (i) Testing of visual acuity, colour and field of visionand (ii) hearing (iii) Testing for smell and (iv) taste sensation in volunteer/ simulated environment **BI11.20** Identify abnormal constituents in urine, interpret the findings and correlate these with Pathological states.
Friday **21/10/2022**	**AN 35.3** Demonstrate & describe the origin, parts course and branches of Subclavian artery	**PY 7.3** Describe the mechanism of urine formation involving process filtration, tubular reabsorption and secretion (L)	**AN 32.2** Describe and demonstrate boundaries and contents of muscular, carotid, digastrics and submental triangles	**PY7.8** Describe thediscuss the renal Function Tests		**PCT ANATOMY**	
Saturday **22/10/2022**	**PY 10.7** Describe and discuss functions of cerebral cortex, basal ganglia, thalamus, hypothalamus, cerebellum and limbic system and their(D)	**AN 75.4** Describe genetic basis ofvariation: polymorphism and mutation **(D)**	**AN 17.3** Describe dislocation of hip joint andsurgical hip replacement			**ECE – BIOCHEMISTRY** **BI6.4 TOPIC : GOUT** **VERTICAL INTEGRATION WITH MEDICINE**	

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR 37 Weeks								
Days	**8- 9AM**	**9- 10 AM**	**10- 11AM**	**11- 12AM**	**12- 1PM**	**1- 2PM**	**2- 3 PM**	**3- 4 PM**
Monday **24/10/2022**	**BI7.7** Describe the role of oxidative stress in the pathogenesis of conditions suchas cancer, complications of diabetes mellitus and atherosclerosis. **SDL**		**AN 17.2** Describe anatomical basis of complications of fracture neck of femur **AN 17.3** Describe dislocation of hipjoint and surgical hip replacement			**PY 2.6** Describe WBC formation (granulopoiesis) andits regulation(D)	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **BI11.23** Calculate energy content of different food Items, identify food items with high and low glycemic index and explain the importance of these in the diet	
Tuesday **25/10/2022**	**BI7.6** Describethe anti- oxidant defence systems in thebody. **(SDL)**	**AN 17.2** Describe anatomical basis of complicationsof fracture neck of femur Intrigratedwith F.M	**PY 1.2** Describe and discuss the principles of homeostasis	**AN 17.3** Describe dislocation of hip joint and surgical hip replacement		EMBRYOLOGY REVISION CLASS	**CM3.7** Identify and describe the identifying features and life cycles of vectors of Public Health importance and their control measures **Dr.Dheeraj Sharma)** **CM8.5** Describe and discuss the principles of planning, implementing and evaluating control measures for disease at community level bearing in mind the public health importance of the disease (**Dr. Sangeeta Jain Sharma)**	
Wednesday **26/10/2022**	**BI9.1** List the functions and components ofthe extracellular matrix (ECM). **(SDL)**	**AN25.3** Describe fetal circulation and changes occurring at birth	**AN25.3** Describe fetal circulation and changesoccurring at birth		**LUNCH**	**BI10.3** Describe the cellular and humoralcomponents of the immune system & describe the types and structure of antibody **BI10.4** Describe & discuss innate and adaptive immune responses, self/non- self recognition and the central role of T- helper cells in immune responses. **BI10.5** Describe antigens and concepts involved in vaccine development.	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **BI11.23** Calculate energy content of different food Items, identify food items with high and low glycemic index and explain the importance of these in the diet	

Thursday 27/10/2022	**PY 1.6** Describe the fluid compartments of the body, its ionic composition & Measurements (D)	**AN 17.3** Describe dislocation ofhip joint andsurgical hip replacement	**AN57.3** Draw & label transverse section of spinal cord at mid- cervical & midthoracic level **AN57.4** Enumerate ascending & descending tracts at midthoracic level of spinal cord		**PY 2.8** Describe the physiological basis ofhemostasis and, anticoagulants. Describe bleeding &clotting disorders (Hemophilia, purpura)	**PY2.11** Estimate Hb, RBC, TLC, RBC indices,DLC, Blood groups, BT/CT **BI11.23** Calculate energy content of different food Items, identify food items with high and low glycemic index and explain the importance of these in the diet .
Friday 28/10/2022	**AN2.1** Describe parts, blood and nerve supply of a long bone **AN2.2** Enumerate laws of ossification **PY8.1** Describe the physiology of bone and calcium metabolism **PY8.2** Describe the synthesis, secretion, transport, physiological actions, regulation and effect of altered (hypo and hyper) secretion of pituitary gland, thyroid gland, parathyroid gland, adrenal gland, pancreas and hypothalamus				**AN26.1** Deminstrate anatomy position of skull, identify and locate individual skull bones in skull **AN26.2** Describe the features of normafrotalis verticalis, occioitalis lateralis and basalis **(DH)**	
Saturday 29/10/2022	**PY 9.6** Enumerate the contraceptive methods for male and Female. Discuss their advantages & Disadvantages (D)	**ECE** **AN 29.4** Describe & demonstrate attachments of 1) inferior belly of omohyoid, 2)scalene anterior, 3) scalene mediums & 4) elevator scapulae			**PCT** **BIOCHEMISTRY**	

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

38 Weeks

Days	8- 9AM	9- 11 AM	11- 11AM	11- 12AM	12- 1PM	1- 2PM	2- 3PM	3- 4PM
Monday **31/10/2022**	**AN 18.6** Describe knee joint injuries withits applied anatomy **AN 18.7** Explain anatomicalbasis of Osteoarthritis	**BI3.4** Define and differentiate the pathways of carbohydrate metabolism, (glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt).	**AN14.1** Identify the given bone, itsside, important features & keep it in anatomical position			**PY2.5** Describe different types of anaemias & Jaundice(D)	**PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups, BT/CT **BI11.21** Demonstrate estimation of glucose, creatinine, urea and total proteinin serum.	
Tuesday **01/11/2022**	**BI9.2** Discuss the involvementof ECM componentsin health and disease. **(SDL)**	**AN 34.1** Describe& demonstrate the morphology, relations and nerve supply of submandibular salivary gland & submandibular ganglion	**PY7.5** Describe the renal regulation of fluid and electrolytes& acid- base balance	**AN 18.7** Explain anatomical basis of Osteoarthritis	**LUNCH**	**AN 18.6** Describe knee joint injuries with its applied anatomy	**CM4.1** Describe various methods of health education with their advantages and limitations **(Dr.Dheeraj Sharma)** **CM8.6** Educate and train health workers in disease surveillance, control & treatment and health education (**Dr. Sangeeta Jain Sharma)**	
Wednesday **02/11/2022**	**BI3.9** Discuss the mechanism and significance of blood glucose regulation in health and disease.	**AN43.2** Identify, describe and drawthe microanatomy of pituitary gland, thyroid, parathyroid gland,tongue, salivary glands, tonsil, epiglottis, cornea, retina	**AN43.2** Identify, describe and drawthe microanatomy of pituitary gland, thyroid, parathyroid gland, tongue, salivary glands, tonsil, epiglottis, cornea, retina			**BI3.4** Define and differentiate the pathways of carbohydrate metabolism, (glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt). **(SDL)** **PY2.11** Estimate Hb, RBC, TLC, RBC indices, DLC, Blood groups,BT/CT **BI11.21** Demonstrate estimation of glucose, creatinine, urea andtotal protein in serum.		
Thursday **03/11/2022**	PY5.5 (ECG) (D)	**AN43.2** Identify, describe and draw the microanatomy of	**AN43.2** Identify, describe and draw the microanatomy of pituitary gland, thyroid,			**PY5.6** Describe abnormal ECG, arrythmias, heartblock and myocardial		**BI11.21** Demonstrate estimation of glucose, creatinine,

		pituitary gland, thyroid, parathyroid gland, tongue, salivary glands, tonsil, epiglottis, cornea, retina	parathyroid gland, tongue, salivary glands, tonsil, epiglottis, cornea, retina			Infarction	urea and total protein in serum.
Friday **04/11/2022**	**AN47.9** Describe & identify the origin, course, important relations and branches of Abdominal aorta, Coeliac trunk, Superior mesenteric, Inferior mesenteric & Common iliac artery	**PY8.2** Describe the synthesis, secretion, transport, physiological actions, regulation and effect of altered (hypo and hyper) secretion of pituitary gland, thyroid gland, parathyroid gland, adrenal gland, pancreas and hypothalamus	**AN47.8** Describe & identify the formation, course relations and tributaries of Portal vein, Inferior vena cava & Renal vein **AN47.10** Enumerate the sites of port systemic anastomosis	**PY9.8** Describe and discuss the physiology of pregnancy, parturition & lactation and outline the psychology and psychiatry-disorders associated With it.		**AN 29.4** Describe & demonstrate attachments of 1) inferior belly of omohyoid, 2)scalenus anterior, 3) scalenus medius & 4) levator scapulae	AN58.1 Identify external features of medulla oblongate AN58.3 Enumerate cranial nerve nuclei in medulla oblongate with their function group
Saturday **05/11/2022**	**PY8.3** Describe the physiology of Thymus & Pineal Gland(D)	**AN35.10** Describe the fascial spaces of neck	**AN35.10** Describe the facial spaces of neck			**AN 36.4 Describe the anatomical basis of tonsillitis, Tonsillectomy, Adenoids and pre tonsillar abscess** **ECE – TONSIL WITH ENT**	

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR

39 Weeks

Days	8- 9AM	9- 11 AM	10- 11AM	11- 12AM	12- 1PM	1- 2PM	2- 3PM	3- 4PM
Monday 07/11/2022	**AN15.4** Explain anatomical basis of Psoas abscess & Femoral hernia	**BI3.4** Define and differentiate the pathways of carbohydrate metabolism, (glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt).	**AN26.1** Demonstrate anatomical position of skull, Identify and locate individualskull bones in skull **AN26.2** Describe the features of norma frontalis, verticalis, occipitalis, lateralisand basalis **AN70.2** Identify the lymphoid tissue under the microscope & describe microanatomy of lymph node, spleen, thymus, tonsiland correlate the structure with function		**LUNCH**	**PY2.9** Describe different bloodgroups and discuss the clinical importance of blood grouping, bloodbanking and transfusion (D)	**PY2.11** Estimate Hb, RBC, TLC, RBC indices,DLC, Blood groups, BT/CT **BI11.21** Demonstrate estimation of glucose,creatinine, urea and total protein in serum.	
Tuesday 08/11/2022	**BI6.12** Describe the major types of haemoglobin and its derivatives found in the body and their physiological/ pathological relevance. **(SDL)**	**HISTO REVISION**	**PY7.5** escribe the renal regulation of fluid and electrolytes & acid- base balance	**HIST O (SDL)**			**CM4.2** Describe the methods of organizing health promotion and education and counselling activities at individual, family and community settings. **(Dr.Dheeraj Sharma)** **CM8.7** Describe the principles of management of information systems **(Dr. Sangeeta Jain Sharma)**	
Wednesday 09/11/2022	**BI7.4** Describe applications of molecular technologies like recombinant DNA technology,PCR in the diagnosis and	**AN81.1** Describe various methods of prenataldiagnosis **AN81.2** Describe indications, process anddisadvantages of amniocentesis **AN8.3** Enumerate peculiarities of clavicle **INTRAGRATED WITH OBG**				**LINKER CLASS KIDNEY FOUNTIONS** **BI4.3** Explain the regulation of lipoprotein metabolism &associated disorders. **BI11.21** Demonstrate estimation of glucose, creatinine, urea andtotal protein in serum. **PY8.2** Describe the synthesis, secretion, transport, physiological actions, regulation and effect of altered (hypo and hyper) secretion of pituitary gland, thyroid gland, parathyroid gland, adrenal gland, pancreas and hypothalamus		

	treatment of diseases with genetic basis. (**SDL**)			**LUNCH**		
Thursday 10/11/2022	**PY8.2** Describe the synthesis, secretion, transport, physiological actions, regulation and effect of altered (hypo and hyper) secretion of pituitary gland, thyroid gland, parathyroid gland, adrenal gland, pancreas and hypothalamus **(D)**	**ECE – WITH RADIOLOGY** **AN25.8** Identify and describe in brief a bariumswallow				**BI11.21** Demonstrate estimation of glucose, creatinine, urea and total protein in serum.
Friday 11/11/2022	**AN15.4** Explain anatomical basis of Psoas abscess & Femoral hernia	**PY8.2** Describe the synthesis, secretion, transport, physiological actions, regulation and effect of altered (hypo and hyper) secretion of pituitary gland, thyroid gland, parathyroid gland,adrenal gland, pancreas and hypothalamus	**AN26.1** Demonstrate anatomical position of skull, Identify and locate individual skull bones in skull		**AN25.9** Demonstrate surface marking of lines ofpleural reflection, lung borders and fissures, trachea, heart borders, apex beat &surface projection of valves of heart	
Saturday 12/11/2022	**PY4.8** Describe & discuss gastric function tests, pancreatic exocrine function tests & liver function tests	**AN25.9** Demonstrate surface marking of lines ofpleural reflection, lung borders and fissures, trachea, heart borders, apex beat &surface projection of valves of heart			**REVESION CLASS** **BIOCHEMISTRY (CARBOHYDRATE METABOLISM)**	

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR 40 Weeks								
Days	**8- 9AM**	**9- 11 AM**	**10- 11AM**	**11- 12AM**	**12- 1PM**	**1- 2PM**	**2- 3PM**	**3- 4PM**
Monday 14/11/2022	**AN74.4** Describe the genetic basis & clinical features of Achondroplasia, Cystic Fibrosis, Vitamin D resistant rickets, Haemophilia, Duchene's muscular dystrophy & Sickle cell anaemia	**BI4.3** Explain the regulation oflipoprotein metabolism & associated disorders.	ANATOMY DH		**LUNCH**	**LIMKER CLASS LIPID PROFILEPY4.4** Describe the physiology of digestion and absorption of nutrients **PY11.9** Interpret growth charts		
Tuesday 15/11/2022	**BI7.4** Describe applications of molecular technologies like recombinant DNA technology, PCR in the diagnosis and treatment of diseases with genetic basis. **(SDL)**	**AN80.6** Explain embryological basis of estimation of fetal age.	**PY4.8** Describe & discuss gastric function tests, pancreatic exocrine function tests& liver function tests	HISTO REVISON		EMBRYO REVISION CLASS	**CM4.3** Demonstrate and describe the steps in evaluation of health promotion and education program. (**Dr.Dheeraj Sharma)**	
Wednesday 16/11/2022	**BI7.4** Describe applications of molecular technologies like recombinant DNA technology, PCR in the diagnosis and treatment of diseases with genetic basis. **(D)**	**AN75.3** Describe the genetic basis & clinical features of Prader Willi syndrome, Edward syndrome & Patau syndrome	OSTEO - EMBRYO REVISION CLASS			**BI7.2** Describe the processes involvedin replication & repair of DNA andthe transcription & translation mechanisms. **(D)**	**ECE - BUFFERS** **BI11.21** Demonstrate estimation of glucose, creatinine, urea and total protein in serum.	

Thursday 17/11/2022	**PY3.5** Discuss the action of neuro- muscular blockingagents (D)	**ECE - SINUS & EPISTAXIS** **AN37.1** Describe & demonstrate features of nasal septum, lateral wall of nose, their bloodsupply and nerve supply **AN37.3** Describe anatomical basis of sinusitis & maxillary sinus tumours				**ECE – PHYSIOLOGY** **ANSPY10.5** Describe and discuss structure and functions of reticular activating system, autonomic nervous system (ANS) **BI11.23** Calculate energy content of different food Items, identify food items with high and low glycemic index andexplain the importance of these in the diet **BI11.24** Enumerate advantages and/or disadvantages of use of unsaturated, saturated and trans fats in food.
Friday 18/11/2022	**AN40.3** Describe the features of internal ear **AN40.4** Explain anatomical basis of otitis externa and otitis media	**PY3.12** Explain the gradation of muscular activity	**AN40.2** Describe & demonstrate the boundaries, contents, relations and functional anatomy of middle ear and auditory tube	**PY3.13** Describe muscular dystrophy: myopathies	**AN42.3** Describe the position, direction of fibres, relations, nerve supply, actions of semispinalis capitis and splenius capitis	ANATOMY DH
Saturday 19/11/2022	**PY4.9** Discuss the physiology aspects of: peptic ulcer, gastrooesophageal reflux disease, vomiting, diarrhoea, constipation, Adynamic ileus, Hirschsprung's Disease(D)	OSTEO - EMBRYO REVISION CLASS TEST			**LINKER ON MI WITH G.M & PHYSIOLOGY**	

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR 41 Weeks								
Days	**8- 9AM**	**9- 11 AM**	**10- 11AM**	**11- 12AM**	**12- 1PM**	**1- 2PM**	**2- 3PM**	**3- 4PM**
Monday 21/11/2022	**AN4.1** Describe different types of skin & dermatomesin body	**BI7.2** Describe the processes involved in replication & repair of DNA and the transcription & translation mechanisms.	**DEMO OF OSTEO**		**LUNCH**	**PY10.18** Describe and discuss the physiological basis of lesion in Visual Pathway (D)	**PY10.2** Describe and discuss the functions and properties of synapse, reflex, receptors (D)	**BI11.23** Calculate energy content of different food Items, identify food items with high and low glycemic index andexplain the importance of these in the diet **BI11.24** Enumerateadvantages and/or disadvantages of use of unsaturated, saturated and trans fats in food.
Tuesday 22/11/2022	**BI5.1** Describe and discuss structural organizationof proteins.	**AN7.8** Describe differences between sympatheticand spinal ganglia	**PY10.6** Describe and discuss Spinal cord, its functions,lesion & sensory disturbances	**AN64.2** Describe the developmentof neural tube, spinal cord, medulla oblongata, pons, midbrain, cerebral hemisphere & cerebellum		Revision	**CM8.7** Describe the principles of management of information systems **(Dr. Sangeeta Jain Sharma)**	

Wednesday **23/11/2022**	**BI7.7** Describe the role of oxidative stress in the pathogenesis of conditions such as cancer, complications of diabetes mellitus and atherosclerosis. (**D**)	EMBRYOLOGY REVISION CLASS				**PY5.6** Describe abnormal ECG, arrythmias, heart block and myocardial Infarction	**BI11.23** Calculate energy content of different food Items, identify food items with high and low glycemic index and explain the importance ofthese in the diet **BI11.24** Enumerate advantages and/or disadvantages of use of unsaturated, saturated and trans fats in food.
Thursday **24/11/2022**	**PY11.5** Describe and discuss physiological consequences of sedentary lifestyle (D)	**Remaining Classes** **AN62.2** Describe & demonstrate surfaces, sulci,gyri, poles, & functional areas of cerebral hemisphere				**ECE** **PY11.4** Describe and discuss cardio- respiratory and metabolicadjustments during exercise; physical training effects **PY5.12** Record blood pressure & pulse at rest and in different grades of exercise and postures in a volunteer or simulated environment	
Friday **25/11/2022**	**AN10.13** Explain anatomical basisof Injury to axillary nerve during intramuscular Injections **AN16.2** Describeanatomical basisof sciatic nerve injury during gluteal intramuscular injections	**PY11.11** Discuss the concept, criteria for diagnosis of Brain deathand its implications	**AN44.7** Enumerate common Abdominal incisions	**PY11.6** Describe physiology of Infancy		**AN52.3** Describe & identify the microanatomical features of Cardio oesophageal junction, Corpus luteum	ANATOMY (DH)
Saturday **26/11/2022**	**PY11.9** Interpret growth charts (D)	Enhyo Model				**ECE – BIOCHEMISTRY** **TOPIC – GLUCOSE TOLERENCE TEST VERTICAL INTGRATION WITH MEDICINE** **BI11.17** Explain the basis and rationale of biochemical tests done in the following conditions: - diabetes mellitus, - dyslipidemia, - myocardial infarction, - renal failure, gout, - proteinuria, - nephrotic syndrome, - edema, - jaundice, - liver diseases, pancreatitis, disorders of acid- base balance, - thyroid disorders.	

MUZAFFARNAGAR MEDICAL COLLEGE MUZAFFARNAGAR 42 Weeks								
Days	**8- 9AM**	**9- 10 AM**	**10- 11AM**	**11- 12AM**	**12- 1PM**	**1- 2PM**	**2- 3PM**	**3- 4PM**
Monday **28/11/2022**	**3rd TERMINAL EXAMINATIONS**				**LUNCH**	**3rd TERMINAL EXAMINATIONS**		
Tuesday **29/11/2022**								
Wednesday **30/11/2022**								
Thursday **01/12/2022**								
Friday **02/12/2022**								
Saturday **03/12/2022**								
Monday **05/12/2022**								
Tuesday **06/12/2022**								
Wednesday **07/12/2022**								

FOUNDATION COURSE

ORIENTATION	**30 HOURS**
SKILL AND ETHICS	**75 HOURS**
FIELD VISIT TO CUMMUNITY HEALTH CENTRE	**08 HOURS**
ENHANCEMENT OF LANGUAGE/COMPUTER SKILLS	**40 HOURS**
SPORTS AND EXTRACURRICULAR ACTIVITIES (AFTER COMPUTER AND LANGUAAGE CLASSES 04:05 PM)	**22 HOURS**
TOTAL HOURS	**175 HOURS**

INTRODUCTION PANDEMIC MODULE	**06 HOURS** **TUESDAY 03RD WEEK 01:00 PM TO 03:00 PM** **FRIDAY 19TH WEEK 02:00 PM TO 04:00 PM** **FRIDAY 20TH WEEK 02:00 PM TO 04:00 PM**

DEPARTMENT	ECE	Hours
ANATOMY	15	45
BIOCHEMISTRY	13	33
PHYSIOLOGY	08	30

LINKER CLASS	12

ANATOMY

	NO OF SESSIONS	HOURS
LECTURE	220	220
DH	151	302
DEMO	113	113
SDL	40	40
Total		675

BIOCHEMISTRY

	NO OF SESSIONS	HOURS
LECTURE	112	112
PRACTICAL	59	118
DEMO	50	50
SDL	22	22
Total		302

PHYSIOLOGY

	NO OF SESSIONS	HOURS
LECTURE	160	160
PRACTICAL	115	230
DEMO	92	92
SDL	25	25
Total		507

Note : In case of the holiday the time table will be adjusted by the stakeholder department.