

Shaheed Hasan Khan Mewati Government Medical
College Nalhar, Nuh (Haryana)
COMPETENCY BASED UNDERGRADUATE CURRICULUM IN PRE-CLINICAL
BATCH 2021-22

Time		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6		Day 7	Day 8	Day 9
08-09 AM	SUNDAY	Sports	AN4.1 , 4.2,4.5Describe different types of skin & dermatomes in body, skin incisions <u>SDL</u>	PY3.1 Structure and functional of a neuron and neuralgia, nerve growth factor and cytokines (Part - I) <u>SDL</u>	BI1.1 Molecular and functional organization of cell and its sub cellular components (part I) (Horizontal integration with Physiology) <u>SDL</u>	PY2.1 composition and functional of blood component	AN5.1-5.8 General features of the cardiovascular system	SUNDAY	Extracurricular Activities	AN3.1-3.3 General features of muscle <u>SDL</u>	PY3.2 types, functions & properties of nerve fibers <u>SDL</u>
09-10 AM		AN 1.1 Demonstrate normal anatomical position, various plans, relation, comparison, laterality & movement in our body	CM1.1: Define and describe the concepts of public health	AN65.1 introduction to microscope, identify epithelium under the microscope & describe the various types	AN4.3 - 4.5 describe superficial fascia and deep fascia with its modification, principle of skin incisions	BI1.1 Molecular and functional organization of cell and its sub cellular components (part II)	PY3.1 Structure and functional of a neuron and neuralgia, nerve growth factor and cytokines (Part - II) Horizontal integration with Anatomy		AN6.1-6.3 General feature of lymphatic system	Self Directed Learning- Physiology	AN65.1 Describe the various types of epithelium
10-11 AM		PY1.1 structure and functions of a mammalian cell	Early Clinical Exposure- Theory (Anatomy)	Early Clinical Exposure- Theory (Physiology) PY 2.9 Blood group	Early Clinical Exposure- Theory (Biochemistry)	Early Clinical Exposure- Practical / Hospital visit(Anatomy)	AETCOM- Physician's role in society		PY1.2 discuss the principle of homeostasis (part-II)	Early Clinical Exposure- Theory (Anatomy)	Early Clinical Exposure- Theory (Physiology) PY 2.9 Blood group

- AN - Anatomy – 675 Hours (Red Color)
- PY – Physiology - 495 Hours (Pink Color)
- BI – Biochemistry – 250 hours (Light Green)
- ECE – Early clinical Exposure – 90 Hours (Magenta Color)
- CM – Community Medicine - 52 Hours (Teel Blue)
- AETCOM- Professional Development and Ethics – 48 Hours (Green Color)
- S/E – Sports and Extra Curriculum Activity - 60 Hours (Blue Color)
- FA & Term Ex. – 80 Hours (Yellow Color)
- **Total Hour – 1750 Hours**

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11 AM - 01 PM		PY2.11a to study the compound microscope (vertical integration with pathology)	AN 1.1 DOAP session of Demonstrate normal anatomical position, various plans, relation, laterality & movement in our body	BI 11.2 preparation of buffers and estimation of pH PY2.11b study of different blood diluting pipettes and diluting fluids(vertical integration with pathology)	AN. 4.1-4.4 DOAP session of skin and fascia		AN. 8.1- DOAP session of identify the given bone, its side, important features and anatomical position		BI11.3 Chemical component of normal urine PY2.11c study of neubauer chamber Vertical integration with pathology	AN. 8.1- DOAP session of identify the given bone, its side, important features and anatomical position	BI11.4 perform urine analysis to estimate and determine normal and abnormal constituents PY2.11d filling of pipettes and charging of chamber Vertical integration with pathology
01-02 PM											
02-04PM		AN 1.1 DOAP session of Demonstrate normal anatomical position, various plans, relation, comparison, laterality & movement in our body	PY2.11a to study the compound microscope (vertical integration with pathology) BI 11.1 Commonly used lab equipments, safety, waste disposal	AN65.1 Describe parts of microscope	BI 11.2 preparation of buffers and estimation of pH PY2.11b study of different blood diluting pipettes and diluting fluids(vertical integration with pathology)	PY1.2 discuss the principle of homeostasis (part-I)	Physio Tutorial		AN. 8.1- DOAP session of identify the given bone, its side, important features and anatomical position	BI11.3 Chemical component of normal urine/ PY2.11c study of neubauer chamber Vertical integration with pathology	AN. 65.1 – Identify the slides of simple epithelium

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Time	Day 10	Day 11	Day 12		Day 13	Day 14	Day 15	Day 16	Day 17	Day 18	
08-09 AM	BI2.1 main classes of IUBMB nomenclature (Part – I) <u>SDL</u>	PY2.2 discuss the origin, forms, variations and functions of plasma proteins Horizontal Integration with biochemistry	AN2.1 Describe parts, blood and nerve supply of as long bone	SUNDAY	Sports	AN2.5 Describe various joints with subtypes and examples <u>SDL</u>	PY3.3 describe the degeneration regeneration in peripheral never Vertical integration with Medicine <u>SDL</u>	BI2.3basic principle of enzyme activity <u>SDL</u>	PY2.4Describe RCB formation (granulopoiesis) and its regulation (Part-I)	AN7.1-7.3 Introduction to nervous system	SUNDAY
09-10 AM	AN 2.4 Describe various types of cartilage with its structure & distribution in body	BI2.1 Fundamental concepts o main classes of IUBMB nomenclature (Part – II)	PY2.3 discusses the synthesis and functions of hemoglobin and explains its breakdown. Variant of hemoglobin Horizontal Integration with Biochemistry		AN2.2 Enumerate laws of ossification, AN2.3 Enumerate special features of a sesamoid bone	CM 1.2: Define health; describe the concept of holistic health including concept of spiritual health and the relativeness & determinants of health	AN65.2 Describe the ultra-structure of epithelium (stratified)	AN 2.6 Explain the concept of nerve supply of joints & Hiltons law	BI2.4 Enzyme inhibitor, as poisons and drugs and as therapeutic enzyme (Part –I) (Vertical integration with Pathology and Medicine)	PY3.4 Describe the structure of neuro muscular junction and transmission of impulses (Part-I) Vertical integration with anesthesiology	
10-11 AM	Early Clinical Exposure-Theory (Bio)	Early Clinical Exposure-Practical / Hospital visit(Physiology)	AETCOM- History of medicine		PY1.5 Describe and discuss transport mechanism across cell membrane (Part-I)	Early Clinical Exposure-Theory (Anatomy)	Early Clinical Exposure-Theory (Physiology) PY 3.13 Myopathies	Early Clinical Exposure-Theory (Biochemistry)	Early Clinical Exposure-Practical / Hospital visit(Biochemistry)	AETCOM Why ragging is illegal?	

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11 AM - 01 PM	AN. 8.1- DOAP session of identify the given bone, its side, important features and anatomical position		AN. 2.1 Describe parts of a long bone		BI11.5 Screening of urine for inborn errors & describe the use of paper chromatography/ PY2.11e collection of blood sample and study of anticoagulants used in the lab Vertical integration with pathology	AN2.5 DOAP session of various types of joints with subtypes and example	BI11.principle of colorimetry/ PY2.11f determination of total RBC count (I) Vertical integration with pathology	AN2.5 DOAP session of various types of joints and their movements		AN. 8.1- DOAP session of identify the given bone, its side, important features and anatomical position	
01-02 PM											
02-04PM	BI11.4 perform urine analysis to estimate and determine normal and abnormal constituents/ PY2.11d filling of pipettes and charging of chamber Vertical integration with pathology	PY1.3 Intercellular communication PY1.4 Describe apoptosis – programmed cell death Vertical integration with Pathology	Physiology tutorial		AN. 2.5 DOAP session of various types of bones	BI11.5 Screening of urine for inborn errors & describe the use of paper chromatography/ PY2.11e collection of blood sample and study of anticoagulants used in the lab Vertical integration with pathology	AN65.2 Identify the slides of stratified epithelium	BI11.principle of colorimetry/ PY2.11f determination of total RBC count (I) Vertical integration with pathology	PY1.5 Describe and discuss transport mechanism across cell membrane (Part-II)	Physiology tutorial	

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Time		Day 19	Day 20	Day 21	Day 22	Day 23		Day 24	Day 25		Day 26
08-09 AM	GH	AN7.4-7.6 Describe the typical spinal nerve, sensory motor innervations <u>SDL</u>	PY3.4 Describe the structure of neuro muscular junction and transmission of impulses (Part-II) <u>SDL</u>	BI2.4 Enzyme inhibitor, as poisons and drugs and as therapeutic enzyme (Part – II) (Vertical integration with Pathology and Medicine) <u>SDL</u>	PY2.4 Describe RCB formation (granulopoiesis) and its regulation (Part-II)	AN75.1-75.2 Principle of genetics, chromosomal aberrations	SUNDAY	Extracurricular Activities	AN76.1-76.2 Introduction to embryology <u>SDL</u>	GH	BI2.6 use of enzyme in laboratory investigations (enzyme based assays) (Vertical integration with Pathology and Medicine) <u>SDL</u>
09-10 AM		Self Directed Learning - Biochemistry	AN66.1-66.2 connecting tissue histology	AN7.7-7.8 various type of synapse	BI2.5 clinical utility of various serum enzyme as markers of pathological conditions (Vertical integration with Pathology and Medicine)	PY3.5 Discuss the action of neuro muscular blocking agent Vertical integration with anesthesiology and pharmacology		AN75.3-75.5 Clinical Genetics	CM 1.3 Describe the characteristics of agent, host and environmental factors in health and disease and the multi factorial etiology of disease		AN77.3-77. 6 Gametogenesis and fertilization
10-11 AM		Early Clinical Exposure-Theory (Anatomy)	Early Clinical Exposure-Theory (Physiology) PY 3.13 Myopathies	Early Clinical Exposure-Theory (Biochemistry)	Bones of Upper Limb (10-01)	AETCOM- Professional behavior with peers		PY1.8 describe and discuss the molecular basis of resting membrane potential and action potential in excitable tissue (Part-I)	Early Clinical Exposure-Theory (Anatomy)		Early Clinical Exposure-Theory (Biochemistry)

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11 AM - 01 PM		AN. 8.1- DOAP session of identify the given bone, its side, important features and anatomical position	PY2.11f determination of total RBC count (II) Vertical integration with pathology	AN. 8.1- DOAP session of identify the given bone, its side, important features and anatomical position	Bones of Upper Limb (10-01)	AN75.1-75.2 Principle of genetics, chromosomal aberrations. Vertical integration with pediatrics		BI11.7 Estimation of serum creatinine and creatinine clearance (part – I)/ PY2.11g determination of total WBC count (Part-I) Vertical integration with pathology	AN76.1-76.2 Practical - Introduction to embryology. Visit to embryology lab of anatomy		AN77.3-77. 6 Gametogenesis and fertilization. Demonstration of embryology models. Vertical integration with OBG
01-02 PM											
02-04PM		PY2.11f determination of total RBC count (II) Vertical integration with pathology BIO-Tutorial	AN. 4.3-4.4 DOAP session of demonstration of slides pertaining to connective tissue	BI11.7 Estimation of serum creatinine and creatinine clearance (part – I)/ PY2.11g determination of total WBC count (Part-I) Vertical integration with pathology	PY1.6, describe the fluid compartments of the body, its ionic composition & measurement – PY 1.7 describe the concept of pH and buffers systems in the body Vertical integration with Biochemistry	Physiology tutorial		AN75.3-75.5 Clinical Genetics. Vertical integration with pediatrics/OBG BI11.7 Estimation of serum creatinine and creatinine clearance (part – II)	PY2.11g determination of total WBC count (Part-II) Vertical integration with pathology		PY2.11g determination of total WBC count (Part-II) Vertical integration with pathology BIO-Tutorial

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Time	Day 27	Day 28		Day 29		Day 30	Day 31	Day 32	Day 33		Day 34
08-09 AM	PY2.5 Describe different types of anemia's & jaundice Horizontal integration with Biochemistry and Vertical Integration with Pathology	AN77.1-77.2 ovarian and menstrual cycle	SUNDAY	Sports	GH	PY3.6 Describe the pathophysiology of myasthenia gravis Vertical integration with pathology <u>SDL</u>	BI3.1 differentiate monosaccharide, disaccharides and polysaccharides giving examples carbohydrates as energy fuel, structural element and storage in the human body (Part-I) <u>SDL</u>	PY2.7 Describe the formation of platelets, functions and variations <u>SDL</u>	AN80.1-80.3 fetal membrane and umbilical cord	SUNDAY	Extracurricular Activities
09-10 AM	BI2.7 interpret laboratory results of enzyme activities & describe the clinical utility of various enzymes as markers of pathological conditions (Vertical integration with Pathology and Medicine)	PY2.6 Describe WBC formation (granulopoiesis) and its regulation		AN78.1-78.5 Second week of development		AN67.1-67.3 Muscle histology	AN 79.1-79.6 3rd to 8th Week of development	BI3.1 differentiate monosaccharide, disaccharides and polysaccharides giving examples of main carbohydrates as energy fuel, structural element and storage in the human body (Part-II)	PY3.7 Describe the different types of muscle fibers and their structure		AN80.4-80.7 twins, 81.1-81.3 prenatal diagnosis
10-11 AM	Early Clinical Exposure- Practical / Hospital visit (Anatomy)	AETCOM Alternate health systems in India		PY1.9 Demonstrate the ability to describe and discuss the methods used to demonstrate the functions of the cells and its products, its communication and their applications in clinical care and research (Part - I)		Early Clinical Exposure- Theory (Physiology)	Early Clinical Exposure- Theory (Biochemistry)	Early Clinical Exposure- Practical / Hospital visit (Physiology)	AETCOM respect to senior & faculty		PY2.8 Describe the physiological basis of hemostasis and anticoagulants. Describe bleeding & clotting disorder (hemophilia purpura) (Part-I) Vertical integration with pathology

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11 AM - 01 PM		AN77.3-77.6 Gametogenesis and fertilization. Demonstration of embryology models. Vertical integration with OBG		PY2.11h estimation of hemoglobin content of blood Vertical integration with pathology		PY2.11h estimation of hemoglobin content of blood Vertical integration with pathology	AN 79.1-79.6 3 rd to 8 th Week of development Demonstration of embryology models. Vertical integration with OBG		AN80.1-80.3 fetal membrane and umbilical cord. Demonstration of embryology models. Vertical integration with OBG		PY2.11i determination of bleeding time and clotting time integration with pathology
				Bio Tutorial		BI11.11 estimation of calcium and phosphorous/					BI11.12 estimation of serum bilirubin/
01-02 PM											
02-04PM	PY1.8 describe and discuss the molecular basis of resting membrane potential and action potential in excitable tissue (Part-II)	Physiology tutorial		AN78.1-78.5. Vertical integration with OBG and Demonstration of embryology models.		AN67.1-67.3 DOAP session of demonstration of slides pertaining to Muscle tissue	PY2.11i determination of bleeding time and clotting time integration with pathology	PY1.9 Demonstrate the ability to describe and discuss the methods used to demonstrate the functions of the cells and its products, its communication and their applications in clinical care and research (Part –II) TEST	Physiology tutorial		AN80.4-80.7 twins, 81.1-81.3 prenatal diagnosis Demonstration of embryology models. Vertical integration with OBG
							BI11.11 estimation of calcium and phosphorous/				

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Time	Day 35	Day 36	Day 37	Day 38	Day 39		Day 40	Day 41
08-09 AM	AN73.1-74.4 chromosomes and patterns of inheritance <u>SDL</u>	PY3.8 Describe action potential and its properties in different muscle types (skeletal & smooth) <u>SDL</u>	BI3.2 Processes involved in digestion and assimilation of carbohydrate and storage <u>SDL</u>	PY2.8 Describe the physiological basis of hemostasis and anticoagulants. Describe bleeding & clotting disorder (hemophilia purpura) (Part-II) Vertical integration with pathology	AN9.2-9.3 Breast	SUNDAY	Sports	AN10.1-10.2 Axilla <u>SDL</u>
09-10 AM	CM1.4: Describe and discuss the natural history of disease CM1.5: Describe the application of interventions at various levels of prevention	AN71.1-71.2 Bone and cartilage Histology	AN9.1 introduction to upper limb – pectoral region	BI3.3 Digestion and assimilation of carbohydrates from food	PY2.9 Describe different blood groups and discuss the clinical importance of blood grouping , blood banking and transfusion Vertical integration with pathology		AN8.1-8.3 Feature of individual bones (upper limb)	Self Directed Learning - Physiology
10-11 AM	Early Clinical Exposure-Theory (Anatomy)	Early Clinical Exposure-Theory (Physiology)	Early Clinical Exposure-Theory (Biochemistry)	Early Clinical Exposure-Practical / Hospital visit(Biochemistry)	AETCOM respect to cadaver		PY2.10 Define and classify different types of immunity, describe the development of immunity and its regulation	Early Clinical Exposure-Theory (Anatomy)

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11 AM - 01 PM	AN73.1-74.4 chromosomes and patterns of inheritance and vertical integration with medicine and pediatrics	PY2.11j determination of blood group Vertical integration with pathology	AN 9.1- Practical - marking of skin incision and reflection of skin and fascia		AN9.2-9.3 Breast; dissection and demonstration with vertical integration with general surgery		PY2.11k preparation of peripheral blood smear integration with pathology	AN10.1-10.2 Axilla; practical and DOAP session
01-02 PM								
02-04PM	PY2.11j determination of blood group Vertical integration with pathology	AN71.1-71.2 DOAP session of demonstration of slides pertaining to Bone and cartilage Histology	PY2.11k preparation of peripheral blood smear integration with pathology	Physiology Lecture PY3.1-3.8	Physiology tutorial		AN8.1-8.3 Practical - Feature of individual bones (upper limb)	PY2.11 l Deferential Leucocyte count Vertical integration with pathology
	BI11.12 estimation of serum bilirubin/		BI11.13 Demonstrate the estimation of SGOT/ SGPT					BI11.14 Demonstrate the estimation of alkaline phosphatase

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Time	Day 42	Day 43		Day 44			Day 45	Day 46	Day 47		Day 48
08-09 AM	PY3.9 describe the molecular basis of muscle contraction in skeletal and in smooth muscle <u>SDL</u>	Joint sensitization program between junior & senior in presence of faculty	Diwali Mela	Hospital and field visit & PDE	SUNDAY	GH	AN 10.3-10.9- Brachial Plexus AN Describe, identify and demonstrate the position, nerve supply and actions of trapezius and latissimus dorsi <u>SDL</u>	PY 9.3 Male reproductive system <u>SDL</u>	BI3.4 Pathways of carbohydrate metabolism (Glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt Part-I) (Vertical integration with Medicine) <u>SDL</u>	GH	AN 11.1-3- Describe and demonstrate muscle groups of upper limb
09-10 AM	AN 69.1-3 Identify elastic & muscular blood vessels, capillaries under the microscope						Self Directed Learning - Biochemistry	AN 68.1-3- Describe & Identify multipolar & unipolar neuron, ganglia, peripheral nerve	10.10-13- Describe and identify the deltoid and rotator cuff muscles describe and demonstrate shoulder joint		PY 9.4 (1) Female reproductive system
10-11 AM	Early Clinical Exposure-Theory (Physiology)						Early Clinical Exposure-Theory (Anatomy)	Early Clinical Exposure-Theory (Physiology)	Early Clinical Exposure-Theory (Biochemistry)		AETCOM– medical ethics

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11 AM - 01 PM	PY2.111 Deferential Leucocyte count Vertical integration with pathology BIO-Tutorial	Joint sensitization program between junior & senior in presence of faculty	Diwali Mela	Hospital and field visit & PDE				AN 10.3-10.9- Practical - Demonstrate the Brachial Plexus and position, attachment, nerve supply and actions of trapezius and latissimus dorsi	PY 2.13 A ESR, PCV Steps reticulocyte and platelet count BI11.15 Describe & discuss the composition of CSF	10.10-13- Practical - Demonstrate the deltoid and rotator cuff muscles describe and demonstrate shoulder joint		AN 11.1-3- Practical - demonstrate and identify muscle groups of upper limb
01-02 PM												
02-04PM	AN 69.1-3 DOAP session of demonstration of slides pertaining to elastic & muscular blood vessels							PY 2.12 B ESR, PCV	AN 68.1-3- DOAP session of demonstration of slides pertaining to multipolar & unipolar neuron, ganglia, peripheral nerve	PY 2.13 B Steps reticulocyte and platelet count BI11.15 Describe & discuss the composition of CSF		Physiology tutorial

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Time		Day 49	Day 50	Day 51	Day 52	Day 53	Day 54		Day 55		Day 56
08-09 AM	SUNDAY	Extracurricular Activities <u>SDL</u>	AN11.5 Identify & describe boundaries and contents of cubital fossa <u>SDL</u>	PY 9.4 (2) Female reproductive system PY 9.11 Perimenopause and menopause <u>SDL</u>	BI3.4 Pathways of carbohydrate metabolism (Glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt Part-II) (Vertical integration with Medicine)	PY 8.1 Physiology of bone and calcium metabolism with PTH	AN12.1-04 Describe and demonstrate important muscle groups of ventral forearm with attachments, nerve supply and actions	SUNDAY	Sports	GH	PY 9.6 Contraceptive methods <u>SDL</u>
09-10 AM		AN 11.1 & 11.4- Describe triceps and the anatomical basis of Saturday night paralysis	CM1.6: Describe and discuss the concepts, the principles of Health promotion and Education, IEC and Behavioral change communication (BCC)	AN 70.1- Identify exocrine gland under the microscope & distinguish between serous, mucous and mixed acini	AN11.6 Describe the anastomosis around the elbow joint	BI3.4 Pathways of carbohydrate metabolism (Glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt Part-III) (Vertical integration with Medicine)	PY 9.2 Puberty		AN12.5-6 Identify & describe small muscles of hand. Also describe movements of thumb and muscles involved		AN 70.1.- Identify the lymphoid tissue under the microscope & describe microanatomy of lymph node, spleen, thymus, tonsil and correlate the structure with function
10-11 AM		PY 8.6 Introduction to endocrinology Mechanism of action of steroid protein and amine hormones	Early Clinical Exposure-Theory (Anatomy)	Early Clinical Exposure-Theory (Physiology)	Early Clinical Exposure-Theory (Biochemistry)	Early Clinical Exposure-Practical / Hospital visit(Anatomy)	AETCOM- Vaccinations for health professionals		PY 8.2 (I) Synthesis, secretion transport, physiological action, regulation and effect of altered (hypo and hyper) secretion of pituitary gland, thyroid gland, adrenal, gland, pancreas and hypothalamus		Early Clinical Exposure-Theory (Physiology)

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11 AM - 01 PM		PY 3.18 Part-1 A Amphibian nerve muscle	AN11.5 Practical - Identify & describe boundaries and contents of cubital fossa	PY 3.18 Part-2 A Amphibian nerve muscle	AN11.6 Practical - demonstrate the anastomosis around the elbow joint		AN12.1-04 Practical - demonstrate important muscle groups of ventral forearm with attachments, nerve supply and actions		PY 3.18 Part-3 A Amphibian nerve muscle	PY 3.18 Part-4 A Amphibian nerve muscle
		BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including: pH meter		BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including: •Paper chromatography of					BIO- Tutorial	BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including: •Protein electrophoresis
01- 02 PM										
02- 04 PM		AN 11.1-4 Demonstrate and identify triceps Vertical Integration with General surgery	PY 3.18 Part-1 B Amphibian nerve muscle	AN 70.1-DOAP session of slide pertaining to gland under the microscope & distinguish between serous, mucous and mixed acini	PY 3.18 Part-2 B Amphibian nerve muscle	PY 9.5 Physiological effects of sex hormones	Physiology tutorial		AN12.5-6 Practical - Identify & Demonstrate small muscles of hand. And movements of thumb and muscles involved	AN 70.1.- DOAP session of slide pertaining to lymphoid tissue , lymph node, spleen, thymus, tonsil and correlate the structure with function
			BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including: pH meter		BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including: •Paper chromatography of					

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Time	Day 50	Day 52	Day 53		Day 54	Day 55	Day 56	Day 57	Day 58	Day 59	
08-09 AM	BI3.4 Pathways of carbohydrate metabolism (Glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt Part-IV) (Vertical integration with Medicine) <u>SDL</u>	PY 8.2 (II) Synthesis, secretion transport, physiological action, regulation and effect of altered (hypo and hyper) secretion of pituitary gland, thyroid gland, adrenal, gland, pancreas and hypothalamus	AN12.11 Identify, describe and demonstrate important muscle groups of dorsal forearm with attachments, nerve supply and actions	SUNDAY	Extracurricular Activities	AN12.14-15 Identify & describe compartments deep to extensor retinaculum. <u>SDL</u>	PY 9.8 (2) Physiology of pregnancy parturition & lactation. PY9.10 Physiological basis of various pregnancy tests <u>SDL</u>	BI 3.5 Reregulation, functions and integration of carbohydrate along with associate diseases/disorder (Part- II) (Vertical integration with Medicine) <u>SDL</u>	PY 8.2 (4) Synthesis, secretion transport, physiological action, regulation and effect of altered (hypo and hyper) secretion of pituitary gland, thyroid gland, adrenal, gland, pancreas and hypothalamus	AN13.2 Describe dermatomes of upper limb	SUNDAY
09-10 AM	AN12.7-10 Identify & describe course and branches of important blood vessels and nerves in hand	BI 3.5 regulation, functions and integration of carbohydrate along with associate diseases/disorder (Part- I) (Vertical integration with Medicine)	PY 9.8 (1) Physiology of pregnancy parturition & lactation.		AN12.12-13 Identify & describe origin, course, relations, branches (or tributaries), termination of important nerves and vessels of back of forearm	CM1.7: Enumerate and describe health indicators	AN 72.1- Identify the skin and its appendages under the microscope and correlate the structure with function	AN13.1 Describe and explain Fascia of upper limb and compartments, veins of upper limb and its lymphatic drainage	BI3.6 Concept of TCA cycle as a amphibole pathways and its regulation	PY 9.9 +PY 9.12 Normal semen analysis , common causes of infertility	
10-11 AM	Early Clinical Exposure-Theory (Biochemistry)	Early Clinical Exposure-Practical / Hospital visit(Physiology)	AETCOM-Professional behavior at workplace		PY 8.2 (III) Synthesis, secretion transport, physiological action, regulation and effect of altered (hypo and hyper) secretion of pituitary gland, thyroid gland, adrenal, gland, pancreas and hypothalamus	Early Clinical Exposure-Theory (Anatomy)	Early Clinical Exposure-Theory (Physiology) PY 9.9 PY 9.12 Infertility and semen analysis	Early Clinical Exposure-Theory (Biochemistry)	Early Clinical Exposure-Practical / Hospital visit(Biochemistry)	AETCOM–First Aid	

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11 AM - 01 PM	AN12.7-10 Identify & demonstrate course and branches of important blood vessels and nerves in hand Vertical Integration wih General sugery		AN12.11 demonstrate & Identify, demonstrate important muscle groups of dorsal forearm with attachments, nerve supply and actions Vertical Integration wih General sugery		PY 3.18 Part-5 A Amphibian nerve muscle	AN12.14-15 demonstrate & Identify compartments deep to extensor retinaculum. Vertical Integration wih General sugery	PY 3.18 Part-6 A Amphibian nerve muscle	AN13.1 Practical - demonstrate & Identify explain Fascia of upper limb and compartments, veins of upper limb and its lymphatic drainage		AN13.2 Practical - demonstrate & Identify dermatomes of upper limb	
01-02 PM											
02-04 PM	PY 3.18 Part-3-4 B Amphibian nerve muscle	Physiology Seminar	Physiology tutorial		AN12.12-13 demonstrate & Identify origin, course, relations, branches (or tributaries), termination of important nerves and vessels of back of forearm Vertical Integration wih General sugery	PY 3.18 Part-5 B Amphibian nerve muscle	AN 72.1-DOAP session of slide pertaining to skin and its appendages under the microscope and correlate the structure with function	PY 3.18 Part-6 B Amphibian nerve muscle	Physiology Seminar	Physiology tutorial	
	BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including: •Protein electrophoresis					BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including: •Electrolyte analysis by ISE		BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including: •ABG analyzer			

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Time	Day 60	Day 61	Day 62	Day 63	Day 64	Day 65		Day 66	Day 67	Day 68	Day 69
08-09 AM	Sports	AN13.4 Describe Sternoclavicular joint, Acromioclavicular joint, Carpometacarpal joints & Metacarpophalangeal joint <u>SDL</u>	PY 5.1 Functional anatomy of heart Horizontal integration with anatomy <u>SDL</u>	BI3.7 Common poisons that inhibit crucial enzyme of carbohydrate metabolism (e.g.. Fluoride, arsenate) (Horizontal Integration with Physiology) <u>SDL</u>	PY 8.2 (6) Synthesis, secretion transport, physiological action, regulation and effect of altered (hypo and hyper) secretion of pituitary gland, thyroid gland, adrenal, gland, pancreas and hypothalamus	AN15.2 Describe and demonstrate major muscles with their attachment, nerve supply and actions	SUNDAY	Extracurricular Activities	AN15.5 Describe and demonstrate adductor canal with its content <u>SDL</u>	PY 5.3 (1) Cardiac cycle <u>SDL</u>	BI3.9 Mechanism and significance of blood glucose regulation in health and disease (Vertical integration with Medicine) <u>SDL</u>
09-10 AM	AN13.3 describe the elbow joint, proximal and distal radio-ulnar joints, wrist joint & first carpometacarpal joint	Self Directed Learning- Physiology	AN13.8 Describe development of upper limb	AN15.1 Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of anterior thigh	BI3.8 interpret laboratory results of analytes associated with metabolism of carbohydrates (Vertical integration with Pathology and Medicine)	PY 5.2 Cardiac muscle		AN15.3-4 Describe and demonstrate boundaries, floor, roof and contents of femoral triangle	CM1.8: Demographic profile of India and its impact on health	AN16.1 Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of gluteal region	AN16.2-3 Describe anatomical basis of sciatic nerve injury during gluteal intramuscular injections
10-11 AM	PY 8.2 (5) Synthesis, secretion transport, physiological action, regulation and effect of altered (hypo and hyper) secretion of pituitary gland, thyroid gland, adrenal, gland, pancreas and hypothalamus	Early Clinical Exposure- Theory (Anatomy)	Early Clinical Exposure- Theory (Physiology)	Early Clinical Exposure- Theory (Biochemistry)	Bones of Lower limb (10-01)	AETCOM– Biomedical waste management		PY 8.2 (7) Synthesis, secretion transport, physiological action, regulation and effect of altered (hypo and hyper) secretion of pituitary gland, thyroid gland, adrenal, gland, pancreas and hypothalamus	Early Clinical Exposure- Theory (Anatomy)	Early Clinical Exposure- Theory (Physiology) PY 5.11 Patho-physiology of shock, syncope and heart failure	Early Clinical Exposure- Theory (Biochemistry)

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COMPETENCY BASED UNDERGRADUATE CURRICULUM IN PRE-CLINICAL

11 A - 01 P M	PY 2.11 A Haematology Revision	AN13.4 Practical - demonstrate & Identify Sternoclavicular joint, Acromioclavicular joint, Carpometacarpal joints & Metacarpophalangeal joint	PY 2.11 A Haematology Test	AN15.1 Practical - demonstrate & Identify origin, course, relations, branches (or tributaries), termination of important nerves and vessels of anterior thigh		AN15.2 Practical - demonstrate & Identify major muscles with their attachment, nerve supply and actions		PY 3.12, 3.14 A Ergography	AN15.5 Practical - demonstrate & Identify adductor canal with its content	PY 3.18 Part-7 A Amphibian cardiac experiments	AN16.2-3 demonstrate & Identify anatomical basis of sciatic nerve injury during gluteal intramuscular injections Vertical integration with general Surgery
	BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including: •ELISA		BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including: •Immunodiffusion					BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including: •Autoanalyser		BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including: •Quality control	
01 - 02 P M											
02 - 04 P M	AN13.3 Practical - describe the elbow joint, proximal and distal radio-ulnar joints, wrist joint & first carpometacarpal joint	PY 2.11 B Haematology Revision	AN13.8 DOAP Session of slide pertaining development of upper limb	PY 2.11 B Haematology Test	Physiology Seminar	Physiology tutorial		AN15.3-4 Practical - demonstrate & Identify boundaries, floor, roof and contents of femoral triangle	PY 3.12, 3.14 B Ergography	AN16.1 DOAP Session of slide pertaining origin, course, relations, branches (or tributaries), termination of important nerves and vessels of gluteal region	PY 3.18 Part-7 B Amphibian cardiac experiments
		BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including: •ELISA		BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including: •Immunodiffusion				BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including: •Autoanalyser		BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including: •Quality control	

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Time	Day 70	Day 71		Day 72	Day 73	Day 74	Day 75	Day 76	Day 77		Day 78
08-09 AM	PY 8.3 Physiology of Thymus & Pineal Gland	AN16.4 Describe and demonstrate the hamstrings group of muscles with their attachment, nerve supply and actions	SUNDAY	Sports	AN16.6 Describe and demonstrate the boundaries, roof, floor, contents and relations of popliteal fossa <u>SDL</u>	PY 5.4 Generation, conduction of cardiac impulse <u>SDL</u>	BI4.1 main classes of lipids ((Part-I) (Vertical integration with Medicine) <u>SDL</u>	PY 8.5 Metabolic and endocrine consequences of obesity & metabolic syndrome, stress response.	AN18.2-3 Describe important nerves and vessels of anterior compartment of leg.	SUNDAY	Extracurricular Activities
09-10 AM	BI3.10 interpret the result of blood glucose level and other laboratory investigations related to disorders of carbohydrate metabolism (Vertical integration with Medicine)	PY 5.3 (2) Cardiac cycle		AN16.5 Describe and demonstrate the origin, course, relations, branches (or tributaries), termination of important nerves and vessels on the back of thigh	Self Directed Learning- Physiology	AN17.1-3 Describe hip joint In detail with its apply anatomy	AN18.1 Describe major muscles of anterolateral compartment of leg with their attachment, nerve supply and actions	BI4.1 main classes of lipids (Part-II) (Vertical integration with Medicine)	PY 5.5 Physiology of ECG Vertical integration with general Medicine		AN18.4-7 Describe the knee joint, and its applied anatomy. Vertical integration with orthopedics
10-11 AM	Early Clinical Exposure- Practical / Hospital visit (Anatomy)	AETCOM principle of basic life support		PY 8.4 Function tests thyroid gland adrenal cortex adrenal medulla and pancreas	Early Clinical Exposure- Theory (Anatomy)	Early Clinical Exposure- Theory (Physiology)	Early Clinical Exposure- Theory (Biochemistry)	Early Clinical Exposure- Practical / Hospital visit (Physiology) PY 5.11 PY 9.9 PY 8.5 Hospital Visit	AETCOM—time management for students		PY 6.1 Functional anatomy of respiratory tract

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11 AM - 01 PM		AN16.4 Practical - demonstrate & Identify the hamstrings group of muscles with their attachment, nerve supply and actions		PY 3.18 Part-8 A Amphibian cardiac experiments	AN16.6 Practical - demonstrate & Identify the boundaries, roof, floor, contents and relations of popliteal fossa	PY 3.18 Part-9 A Amphibian cardiac experiments	AN18.1 Practical - demonstrate & Identify major muscles of anterolateral compartment of leg with their attachment, nerve supply and actions		AN18.2-3 demonstrate & Identify important nerves and vessels of anterior compartment of leg. Vertical integration with General Surgery		PY 3.18 Part-10 A Amphibian cardiac experiments
				BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including: •DNA isolation from blood/ tissue		BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including: TLC,PAGE.					BI11.17 Explain the basis and rationale of biochemical tests done in the following conditions: dyslipidemia
01- 02 PM											
02- 04 PM	Physiology Seminar	Physiology tutorial		AN16.5 Practical - demonstrate & Identify the origin, course, relations, branches (or tributaries), termination of important nerves and vessels on the back of thigh	PY 3.18 Part-8 B Amphibian cardiac experiments	AN17.1-3 Practical - demonstrate & Identify hip joint In detail with its apply anatomy vertical integration with orthopedics	PY 3.18 Part-9 A Amphibian cardiac experiments	Physiology Seminar	Physiology tutorial		AN18.4-7 demonstrates & Identify the knee joint, and its applied anatomy. Vertical integration with orthopedics
					BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including: •DNA isolation from blood/ tissue		BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including: TLC,PAGE.				

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Time	Day 79	Day 80	Day 81	Day 82	Day 83		Day 84	Day 85		Day 86	Day 87
08-09 AM	AN19.1 Describe and demonstrate the major muscles of back of leg with their attachment, supply and actions SDL	PY 5.6 Abnormal ECG, arrhythmias, heart block and myocardial infarction Vertical integration General Medicine SDL	BI4.2 Processes involved in digestion and absorption of dietary lipids and also the key features of their metabolism (Vertical integration with Medicine) SDL	PY 6.2 (1) Mechanics of normal respiration	AN20.1 Describe tibiofibular and ankle joint in details	SUNDAY	Sports	AN20.3 & 5 Describe Retinacula & Dermatomes of lower limb SDL	Winter Vacation	BI4.4 Describe the structure and functions of lipoproteins, their functions, interrelations & relations with atherosclerosis. (Vertical Integration with medicine) SDL	PY 6.3(1) Transport of respirator gases
09-10 AM	CM17.1 Define and describe the concept of health care to community	AN19.2-4 Describe nerves and vessels of back of leg.	AN19.5-7 Describe factors maintaining importance arches of the foot with its importance.	BI4.3 Explain the regulation of lipoprotein metabolism & associated disorders. (Vertical integration with medicine)	PY 5.7 (1) Hemodynamics of circulatory system		AN20.2 Describe the subtalar and transverse tarsal joints	Self Directed Learning - Biochemistry		AN20.3 & 4 describe lymphatic drainage inguinal lymph nodes,	BI4.5 Interpret laboratory results of analytes associated with metabolism of lipids. (Vertical integration with medicine)
10-11 AM	Early Clinical Exposure-Theory (Anatomy)	Early Clinical Exposure-Theory (Physiology) Pathophysiology of dyspnoea, hypoxia cyanosis asphyxia, drowning, periodic breathing	Early Clinical Exposure- Theory (Biochemistry)	Early Clinical Exposure- Practical / Hospital visit (Biochemistry)	AETCOM- Universal precautions in patient care		PY 6.2 (2) Mechanics of normal respiration	Early clinical Exposure- (Anatomy)		Early Clinical Exposure-Theory (Biochemistry)	Self Directed Learning- Anatomy

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11 AM - 01 PM	AN19.1 Practical - Describe and demonstrate the major muscles of back of leg with their attachment, nerve supply and actions	PY 3.18 Part-11 A Amphibian cardiac experiments	AN19.5-7 Practical - demonstrates & Identify factors maintaining importance arches of the foot with its importance. Vertical Integration with Orthopedics				PY 3.18 Part-12 A Amphibian cardiac experiments	AN20.3 & 5 Practical - demonstrate & Identify Retinacula & Dermatomes of lower limb		AN20.3 & 4 Practical - demonstrate & Identify lymphatic dranaige inguinal lymph nodes, Vertical Integration with General Surgery	SGD 1 CM 1.4-1.5 Describe and discuss the natural history of disease Describe the application of interventions at various levels of prevention
01- 02 PM											
02- 04 PM	PY 3.18 Part-10 B Amphibian cardiac experiments	AN19.2-4 Practical - demonstrates & Identify nerves and vessels of back of leg. Vertical Integration with General Surgery and Orthopedics	PY 3.18 Part-11 B Amphibian cardiac experiments	Physiology Seminar	Physiology tutorial		AN20.2 Practical - demonstrate & Identify the subtalar and transverse tarsal joints	PY 3.18 Part-12 B Amphibian cardiac experiments		PY 3.18 B Amphibian cardiac experiments Revision	Physiology Seminar
	BI11.17 Explain the basis and rationale of biochemical tests done in the following conditions: • dyslipidemia,		BI11.17 Explain the basis and rationale of biochemical tests done in the following conditions: • myocardial infarction,					BI11.17 Explain the basis and rationale of biochemical tests done in the following conditions: renal failure, gout		BIO-Tutorial	

25th Dec – 1st Jan - Winter Vacation

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Time	Day 88		Day 89	Day 90	Day 91	Day 92	Day 93	Day 94	Day 95	Day 96	Day 97
08-09 AM	AN20.6 Describe the bones and joints of lower limb seen in anteroposterior and lateral view radiographs of various regions of lower limb	SUNDAY	1st Terminal Examination								AN20.10 Describe basic concept of development of lower limb
09-10 AM	PY 5.7 (2) Hemodynamic of circulatory system										Self Directed Learning - Physiology
10-11 AM	AETCOM–health care delivery system in India										Early Clinical Exposure-Theory (Anatomy)

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11 AM - 01 PM	AN20.6 Practical - Describe the bones and joints of lower limb seen in anteroposterior and lateral view radiographs of various regions of lower limb			AN20.10 Practical - Describe basic concept of development of lower limb
01-02 PM				
02-04 PM	Physiology tutorial			PY 3.18 B Amphibian cardiac experiments Revision
				BIO- Tutorial

6th- 13th Jan – 1st term

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Time	Day 98	Day 99	Day 100	Day 100		Day 101	Day 102	Day 103	Day 104	Day 105	Day 106
08-09 AM	PY 5.8 Cardiovascular regulatory mechanisms <u>SDL</u>	BI4.6 Describe the therapeutic uses of inhibitors of eicosanoid synthesis. (Vertical Integration with medicine) <u>SDL</u>	PY 6.3(2) Transport of respiratory Gases	AN21.6 & 7 Mention origin, course and branches of intercostals and internal thoracic vessel	SUNDAY	Extracurricular Activities	AN21.11 Mention boundaries and the superior, anterior, middle and posterior Mediastinum <u>SDL</u>	PY 5.9 (2) Factors affecting heart rate, regulation of cardiac output & blood pressure <u>SDL</u>	BI5.1 Describe and discuss structural organization of proteins. <u>SDL</u>	PY 6.3(4) Regulation of Respiration	AN22.3-5 Describe coronary arteries and related applied anatomy. Vertical integration with general medicine
09-10 AM	AN21.3 Describe & demonstrate the boundaries of thoracic inlet, cavity and outlet	AN21.4,5 & 9 Describe & demonstrate extent, attachments, direction of fibres, nerve supply and actions of intercostal muscles	BI4.7 Interpret laboratory results of analytes associated with metabolism of lipids. (Vertical Integration with medicine)	PY 5.9 (1) Factors affecting heart rate, regulation of cardiac output & blood pressure		AN21.8 & 10 Describe manubriosternal, costovertebral, costotransverse and xiphisternal joints	CM7.2-3 Describe community diagnosis, primary health care, its components and principles	AN22.1 Describe & demonstrate subdivisions, sinuses in pericardium, blood supply and nerve supply of pericardium	AN22.2 Describe & demonstrate external and internal features of each chamber of heart	BI5.2 Describe and discuss functions of proteins and structure-function relationships in relevant areas eg, hemoglobin and selected hemoglobinopathies. (Vertical Integration with pathology/medicine) & (Horizontal integration with physiology)	PY 6.3(4) Regulation of Respiration
10-11 AM	Early Clinical Exposure-Theory (Physiology) PY 6.6 Dyspnoea. Hypoxia and drowning	Early Clinical Exposure-Theory (Biochemistry)	Self Directed Learning- Anatomy	AETCOM – concept of biosafety		PY 6.3(3) Regulation of Respiration	Early Clinical Exposure-Theory (Anatomy)	Early Clinical Exposure-Theory (Physiology) PY 5.6 ECG and MI	Early Clinical Exposure-Theory (Biochemistry)	Self Directed Learning- Anatomy	AETCOM- Safety precautions for health professionals

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11 AM - 01 PM	PY 5.12 PY 5.16 A Pulse	AN21.4,5 & 9 Practical - Demonstrate extent, attachments, direction of fibres, nerve supply and actions of intercostal muscles	SGD 2 CM 1.6: Describe and discuss the concepts, the principles of Health promotion and Education, IEC and Behavioral change communication (BCC)	AN21.6 & 7 Practical - Mention origin, course and branches of intercostals and internal thorasic vessel		PY 3.15 A Blood pressure record	AN21.11 Practical - Mention boundaries and contents of the superior, anterior, middle and posterior mediastinum	PY 5.12 A Effect of Exercise and postures on blood pressure	AN22.2 Practical - demonstrate external and internal features of each chamber of heart	SDL1 (CM1) Concept of Healthand Disease	AN22.3-5 Practical - Describe coronary arteries and related applied anatomy. Vertical integration with general medicine
	BI11.17 Explain the basis and rationale of biochemical tests done in the following conditions: proteinuria					BI11.17 Explain the basis and rationale of biochemical tests done in the following conditions: • nephrotic syndrome,		BI11.17 Explain the basis and rationale of biochemical tests done in the following conditions: • edema,			
01- 02 PM											
02- 04 PM	AN21.3 Practical - demonstrate & Identify the boundaries of thoracic inlet, cavity and outlet	PY 5.12 PY 5.16 B Pulse	Physiology Seminar	Physiology tutorial		AN21.8 & 10 Practical - Demonstrates & Identify manubriosternal, costovertebral, costotransverse and xiphisternal joints	PY 3.15 B Blood pressure record	AN22.1 Practical - demonstrate subdivisions, sinuses in pericardium, blood supply and nerve supply of pericardium	PY 5.12 B Effect of Exercise and postures on blood pressure	Physiology Seminar	Physiology tutorial
		BI11.17 Explain the basis and rationale of biochemical tests done in the following conditions: proteinuria							BI11.17 Explain the basis and rationale of biochemical tests done in the following conditions: • edema,		

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Time		Day 107	Day 108	Day 109		Day 110			Day 111	Day 112	Day 113
08-09 AM	SUNDAY	Sports	AN22.6-7 Describe conducting system heart and its applied. <u>SDL</u>	PY 5.9 (4) Factors affecting heart rate, regulation of cardiac output & blood pressure <u>SDL</u>	GH	PY 6.5 Principles of artificial respiration Oxygen therapy & acclimatization	GH	SUNDAY	Extracurricular Activities	AN 23.3 Describe origin, course, relations, tributaries and termination of superior venacava, azygos, accessory hemiazygos veins <u>SDL</u>	PY 5.9 (5) Factors affecting heart rate, regulation of cardiac output & blood pressure <u>SDL</u>
09-10 AM		AN22.6-7 Describe the fibrous skeleton of heart conducting sytem heart.	Self Directed Learning - Biochemistry	AN23.1 Describe & the external appearance, relations, blood supply, nerve supply,lymphatic drainage and applied anatomy of oesophagus		BI5.3 Describe the digestion and absorption of dietary proteins. (Vertical Intigration with peadiatrics			AN23.2 Describe & demonstrate the extent, relations tributaries of thoracic duct and enumerate its applied anatomy Vertical integration with general Surgery	CM17.4 Describe National policies related to health and health planning and millennium development goals/ Sustainable Development Goals	AN23.4 Mention the extent, branches and relations of arch of aorta & descending thoracic aorta
10-11 AM		PY 6.4 Physiology of high altitude and deep sea diving	Early Clinical Exposure-Theory (Anatomy)	Early Clinical Exposure-Theory (Physiology) PY 5.14 Autonomic function tests		Self Directed Learning- Anatomy			PY 6.7 Lung function tests	Early Clinical Exposure- Theory (Anatomy)	Early Clinical Exposure-Theory (Physiology) PY 10.4

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11 AM - 01 PM		PY 5.13 A Record and interpret normal ECG	AN22.6-7 Practical - Describe conducting system heart and its applied. Vertical integration with general medicine	PY 5.14 A Autonomic Function tests		SGD3 CM17.5 Describe Healthcare delivery in India			PY 5.14 A Autonomic Function tests Revision	AN 23.3 Practical - Describe origin, course, relations, tributaries and termination of superior venacava, azygos, hemiazygos and accessory hemiazygos veins	PY 6.8 A vitalometry
		BI11.17 Explain the basis and rationale of biochemical tests done in the following conditions: jaundice		BIO-Tutorial					BI11.17 Explain the basis and rationale of biochemical tests done in the following conditions: liver diseases, pancreatitis, disorders of acid- base balance, - thyroid disorders.		BI11.17 Explain the basis and rationale of biochemical tests done in the following conditions: Diabetes mellitus
01- 02 PM											
02- 04 PM		AN22.6-7 Practical - Describe the fibrous skeleton of heart and conducting system heart. Vertical integration with general medicine	PY 5.13 B Record and interpret normal ECG	AN23.1 Practical - Describe & the external appearance, relations, blood supply, nerve supply, lymphatic drainage and applied anatomy of oesophagus Vertical integration with general Surgery		Physiology Seminar			AN23.2 Practical - Describe & demonstrate the extent, relations tributaries of thoracic duct and enumerate its applied anatomy Vertical integration with general Surgery	PY 5.14 B Autonomic Function tests	AN23.4 Practical - Mention the extent, branches and relations of arch of aorta & descending thoracic aorta
			BI11.17 Explain the basis and rationale of biochemical tests done in the following conditions: jaundice						BI11.17 Explain the basis and rationale of biochemical tests done in the following conditions: liver diseases, pancreatitis, disorders of acid- base balance, - thyroid disorders.		

Time	Day 114	Day 115	Day 116		Day 117	Day 118	Day 119	Day 120	Day 121	Day 122	
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08-09 AM	BI5.4 Describe common disorders associated with protein metabolism. (Vertical Intigration with peadiatrics) <u>SDL</u>	PY 4.1 Structure and functions of digestive system Horizontal integration Anatomy	AN23.6 Describe the splanchnic nerves	SUNDAY	Sports	AN24.1 Describe in detail pleura and its applied anatomy <u>SDL</u>	PY 5.10 (2) Regional circulation Vertical integration General medicine <u>SDL</u>	BI6.1 Discuss the metabolic processes that take place in specific organs in the body in the fed and fasting states. (Vertical Intigration with medicine) <u>SDL</u>	PY 4.2 (2) Composition, mechanism of secretion functions and regulation of saliva, gastric pancreas, intestinal juices and bile secretion Horizontal integration with biochemistry	AN24.4-5 Identify phrenic nerve & describe its formation & distribution	SUNDAY
09-10 AM	AN23.5 Identify & Mention the location and extent of thoracic sympathetic chain	BI5.5 Interpret laboratory results of analytes associated with metabolism of proteins. (Vertical Intigration with medicine)	PY 5.10 (1) Regional circulation Vertical integration General medicine		AN23.7 Mention the extent, relations and applied anatomy of lymphatic duct	Self Directed Learning - Physiology	AN24.2 Describe root of lung & bronchial tree and their clinical correlate	AN24.3 Describe bronchopulmonary segments and applied anatomy.	BI6.2 Describe and discuss the metabolic processes in which nucleotides are involved (Part - I)	PY 5.11 Patho-physiology of shock, syncope and heart failure	
10-11 AM	Early Clinical Exposure-Theory (Biochemistry)	Self Directed Learning- Anatomy	AETCOM-Doctor patient relationship		PY 4.2 (1) Composition, mechanism of secretion functions and regulation of saliva, gastric pancreas, intestinal juices and bile secretion Horizontal integration with biochemistry	Early Clinical Exposure- Theory (Anatomy)	Early Clinical Exposure-Theory (Physiology) PY 4.9 Peptic ulcer, GERD, Vomiting , diarrhea, constipation	Early Clinical Exposure- Theory (Biochemistry)	Self Directed Learning- Anatomy	AETCOM-patient safety	

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11 AM - 01 PM	AN23.5 Practical - Identify & Mention the location and extent of thoracic sympathetic chain	SGD 4 CM17.5 Teaching at RHTC/UHTC/ PHC/CHC/SC, District hospital regarding infrastructure, service delivery, Staffing pattern	AN23.6 Practical - Describe the splanchnic nerves		PY 6.8 A Spirometry	AN24.1 Practical - Describe in detail pleura and its applied anatomy Vertical integration with general Medicine	PY 6.10 A Stethography	AN24.3 Practical - Describe bronchopulmonary segments and applied anatomy. Vertical integration with general Surgery	SGD 5 CM17.5 Teaching at RHTC/UHTC/ PHC/CHC/ SC District hospital regarding infrastructure, service delivery, Staffing pattern	AN24.4-5 Identify phrenic nerve & describe its formation & distribution Vertical integration with general Medicine	
01- 02 PM											
02- 04 PM	PY 6.8 B vitalometry	Physiology Seminar	Physiology tutorial		AN23.7 Practical - Mention the extent, relations and applied anatomy of lymphatic duct Vertical integration with general Surgery	PY 6.8 B Spirometry	AN24.2 Practical - Describe root of lung & bronchial tree and their clinical correlate Vertical integration with general Medicine	PY 6.10 B Stethography	Physiology Seminar	Physiology tutorial	
	BI11.17 Explain the basis and rationale of biochemical tests done in the following conditions:					BI11.18 Discuss the principles of spectrophotometry		BI11.19 Outline the basic principles involved in the functioning of instruments commonly used in a biochemistry laboratory and their applications.			

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Time	Day 123	Day 124	Day 125	Day 126		Day 127					
08-09 AM	Extracurricular Activities	AN25.2 Describe development of pleura, lung & heart <u>SDL</u>	PY 7.1 Structure and function of kidney <u>SDL</u>	BI6.2 Describe and discuss the metabolic processes in which nucleotides are involved (Part-II) <u>SDL</u>	GH	AN25.6 Mention development of aortic arch arteries, SVC, IVC and coronary sinus	SUNDAY	College Annual Week			
09-10 AM	AN25.1 Discuss histology of trachea and lung	CM 4.1 Describe various methods of health education with their advantages and limitations	AN25.3-4 Describe fetal circulation and changes occurring at birth. ASD, VSD, TEF and fallot's tetralogy	AN25.5 Describe developmental basis of congenital anomalies, dextrocardia, PDA and coarctation of aorta		PY 7.2 (1) JGA Renin-angiotensin system					
10-11 AM	PY 4.2 (3) Composition, mechanism of secretion functions and regulation of saliva, gastric pancreas, intestinal juices and bile secretion Horizontal integration with biochemistry	Early Clinical Exposure-Theory (Anatomy)	Early Clinical Exposure-Theory (Physiology) PY 10.16	Early Clinical Exposure- Theory (Biochemistry)		AETCOM– Functioning as health care team					

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11 AM - 01 PM	PY 11.13 A General physical Examination	AN25.2 Practical - Describe development of pleura, lung & heart	PY 5.15 A CVS Clinical Examination	AN25.5 Practical - Describe developmental basis of congenital anomalies, dextrocardia, PDA and coarctation of aorta Vertical integration with general Medicine and pediatrics	AN25.6 Practical - Mention development of aortic arch arteries, SVC, IVC and coronary sinus				
	BI11.20 Identify abnormal constituents in urine, interpret the findings and correlate these with pathological states		BI11.21 Demonstrate estimation of glucose, creatinine, urea and total protein in serum						
01-02 PM									
02-04 PM	AN25.1 Practical - Discuss histology of trachea and lung	PY 11.13 B General physical Examination	AN25.3-4 Practical - Describe fetal circulation and changes occurring at birth. ASD, VSD, TEF and fallot's tetralogy Vertical integration with general Medicine and Pediatrics	PY 5.15 B CVS Clinical Examination	Physiology tutorial				
		BI11.20 Identify abnormal constituents in urine, interpret the findings and correlate these with pathological states		BI11.21 Demonstrate estimation of glucose, creatinine, urea and total protein in serum					

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Time				Day 128	Day 129	Day 130	Day 131	Day 132	Day 133		Day 134
08-09 AM	College Annual Week		SUNDAY	Sports	AN44.2 Describe & identify the Fascia, nerves & blood vessels of anterior abdominal wall <u>SDL</u>	PY 7.2 (2) JGA Renin-angiotensin system <u>SDL</u>	BI6.3 Describe the common disorders associated with metabolism. (Horizontal integration with physiology) <u>SDL</u>	PY 4.4 Digestion and absorption of nutrients	AN 44.6-7 Describe & demonstrate attachments of muscles of anterior abdominal wall	SUNDAY	Extracurricular Activities
09-10 AM				AN.44.1- Describe & demonstrate the Planes (transpyloric, transtubercular, subcostal, lateral vertical, linea alba, linea semilunaris), regions & Quadrants of abdomen	CM 4.2 Describe the methods of organizing health promotion and education and counselling activities at individual, family and community settings	AN. 44.3 Describe the formation of rectus sheath and its contents	AN44.4-5 Describe & demonstrate extent, boundaries, contents of Inguinal canal including Hesselbach's triangle	BI6.4 Discuss the laboratory results of analytes associated with gout & Lesch Nyhan syndrome. (Vertical Integration with medicine)	PY 7.3 (1) Mechanism of urine formation		AN45.1-2 Describe Thoracolumbar fascia and lumbar plexus
10-11 AM				PY 4.3 GIT Movements	Small Group Discussion Anatomy	Small Group Discussion Physiology	Small Group Discussion Biochemistry	Self Directed Learning- Anatomy	AETCOM– Personal of doctor		PY 4.5 GIT Hormones

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11 AM - 01 PM			PY 6.9 A Respiratory system Clinical Examination	AN44.2 Practical - Describe & identify the Fascia, nerves & blood vessels of anterior abdominal wall	PY4.10 A Clinical Examination of abdomen	AN44.4-5 Practical - demonstrate extent, boundaries, contents of Inguinal canal including Hesselbach's triangle	District hospital regarding infrastructure, service delivery, Staffing pattern	AN 44.6-7 Practical - demonstrate attachments of muscles of anterior abdominal wall		Revision A
			BI11.22 Calculate albumin: globulin (AG) ratio and creatinine clearance		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					Revision B
01-02 PM										
02-04 PM			AN.44.1- Practical - demonstrate the Planes (transpyloric, trastubercular, subcostal, lateral vertical, linea alba, linea semilunaris), regions & Quadrants of abdomen	PY 6.9 B Respiratory system Clinical Examination	AN. 44.3 Practical - Describe the formation of rectus sheath and its contents	PY4.10 B Clinical Examination of abdomen	Physiology Seminar	Physiology tutorial		AN45.1-2 Practical - Describe Thoracolumbar fascia and lumbar plexus
				BI11.22 Calculate albumin: globulin (AG) ratio and creatinine clearance		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				

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Time		Day 135	Day 136	Day 137	Day 138		Day 139	Day 140	Day 141	Day 142	Day 143
08-09 AM	GH	PY 7.3 (2) Mechanism of urine formation <u>SDL</u>	BI6.5 Describe the biochemical role of vitamins in the body and explain the manifestations of their deficiency. PART-I (Vertical Intigration with medicine) <u>SDL</u>	PY 4.6 Gut-Brain Axis	AN 46.3-5 Describe Penis in detail and its clinical aspects.	SUNDAY	Sports	AN 47.2-4 Name & identify various peritoneal folds & pouches with its explanation <u>SDL</u>	PY 7.4 (2) Renal clearance <u>SDL</u>	BI6.5 Describe the biochemical role of vitamins in the body and explain the manifestations of PART-III (Vertical Intigration with medicine) <u>SDL</u>	PY 4.7 (2) Structure and functions of liver and gall bladder Horizontal Integration with biochemistry
09-10 AM		AN45.3 Mention the major subgroups of back muscles, nerve supply and action	AN46.1-2 Describe & demonstrate testis and epididymis with their applied anatomy	BI6.5 Describe the biochemical role of vitamins in the body and explain the manifestations of their deficiency. PART-II (Vertical Intigration with medicine)	PY 7.4 (1) Renal clearance		AN 47.1 Describe & identify boundaries and recesses of Lesser & Greater sac	CM2.1: Describe the steps and perform clinico socio-cultural and demographic assessment of the individual, family and community	AN. 47.5 Describe te major viscera of abdomen	AN47.6-7 Explain the anatomical basis of Splenic notch, Kehr's sign, vagotomy, Liver biopsy Referred pain in cholecystitis, Obstructive jaundice, umbilicus, and kidney.	BI6.6 Describe the biochemical processes involved in generation of energy in cells
10-11 AM		Small Group Discussion Physiology	Small Group Discussion Biochemistry	Self Directed Learning- Anatomy	AETCOM- Gender sensitivity		PY 4.7 (1) Structure and functions of liver and gall bladder Horizontal Integration with biochemistry	Small Group Discussion Anatomy	Small Group Discussion Physiology	Small Group Discussion Biochemistry	Self Directed Learning- Anatomy

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11 AM - 01 PM		Revision A	AN46.1-2 Practical - demonstrate testis and epididymis with their applied anatomy		AN 46.3-5 Practical - Describe Penis in detail and its clinical aspects. Vertical integration with general surgery		Revision A	AN 47.2-4 Practical - Name & identify various peritoneal folds & pouches with its explanation	Revision A	AN47.6-7 Practical - Explain the anatomical basis of Splenic notch, Kehr's sign, vagotomy, Liver biopsy Referred pain in cholecystitis, Obstructive jaundice, umbilicus, and kidney. Vertical integration with general surgery	SGD 7 CM4.1- 4.3 Describe various methods of health education with their advantages and limitations, Describe the methods of organizing health promotion and education and counselling activities at individual family andcommunity settings, Demonstrate and describe the steps in evaluation of health promotion and educationprograme
		BI11.24 Enumerate advantages and/or disadvantages of use of unsaturated, saturated and trans fats in food.					PY4.2 Describe the composition, mechanism of secretion, functions, and regulation of :- Saliva secreations		PY4.2 Describe the composition, mechanism of secretion, functions, and regulation of :- Gastric secreations		
01- 02 PM											
02- 04 PM		AN45.3 Practical - Mention the major subgroups of back muscles, nerve supply and action	Revision B	Physiology Seminar	Physiology tutorial		AN 47.1 Practical - Describe & identify boundaries and recesses of Lesser & Greater sac	Revision B	AN. 47.5 Practical - Describe te major viscera of abdomen	Revision B	Physiology Seminar
			BI11.24 Enumerate advantages and/or disadvantages of use of unsaturated, saturated and trans fats in food.				PY4.2 Describe the composition, mechanism of secretion, functions, and regulation of :- Saliva secreations		PY4.2 Describe the composition, mechanism of secretion, functions, and regulation of :- Gastric secreations		

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Time	Day 144			Day 145	Day 146	Day 147	Day 148	Day 149		Day 150	Day 151
08-09 AM	AN47.8 Describe the formation, course relations and tributaries of Portal vein, Inferior vena cava & Renal vein	SUNDAY	GH	AN47.9 Describe the origin, course, important relations and branches of Abdominal aorta, Coeliac trunk, Superior mesenteric, Inferior mesenteric & Common iliac artery <u>SDL</u>	PY 7.6 Physiology of micturition <u>SDL</u>	BI6.7 Describe the processes involved in maintenance of normal pH, water & electrolyte balance of body fluids and the derangements associated with these. PART-I (Vertical Intigration with medicine) & (Horizontal integration with physiology) <u>SDL</u>	PY 4.8 Gastric , Pancreatic and Liver function test Horizontal Integration with biochemistry	AN47.13-14 Describe & demonstrate the attachments, openings, nerve supply & action of the thoracoabdominal diaphragm	SUNDAY	Extracurricular Activities	AN48.2 Describe & demonstrate the (position, features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and clinical aspects of) important male & female <u>SDL</u>
09-10 AM	PY 7.5 Fluid, electrolytes and acid base balance			Self Directed Learning - Physiology	AN47.10-11 Enumerate the sites of portosystemic anastomosis and its applied anatomy	AN47.12 Describe important nerve plexuses of posterior abdominal wall	BI6.7 Describe the processes involved in maintenance of normal pH, these. PART-II (Vertical Intigration with medicine) & (Horizontal integration with physiology)	PY 7.7 artificial kidney dialysis and renal transplantation Integration with general medicine		AN48.1 Describe & identify the muscles of Pelvic diaphragm	Self Directed Learning - Biochemistry
10-11 AM	AETCOM– communication with patient and family			Small Group Discussion Anatomy	Small Group Discussion Physiology	Small Group Discussion Biochemistry	Self Directed Learning- Anatomy	AETCOM– Medical malpractices and the consequences		PY 4.9 Peptic ulcer, GERD, Vomiting , diarrhea, constipation Horizontal Integration with biochemistry	Small Group Discussion Anatomy

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11 AM - 01 PM	AN47.8 Practical – Describe the formation, course relations and tributaries of Portal vein, Inferior vena cava & Renal vein			AN47.9 Practical – Describe the origin, course, important relations and branches of Abdominal aorta, Coeliac trunk, Superior mesenteric, Inferior mesenteric & Common iliac artery	Test A	AN47.12 Practical – Describe important nerve plexuses of posterior abdominal wall	SGD 8 CM2.2- 2.3: 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, Describe and demonstrate in a simulated environment the assessment of barriers to good health and health seeking behavior	AN47.13-14 Practical – demonstrate the attachments, openings, nerve supply & action of the thoracoabdominal diaphragm		Test A	AN48.2 Practical – demonstrate the (position, features, important peritoneal and other relations, blood supply, nerve supply, lymphatic drainage and clinical aspects of) important male & female
					PY4.2 Describe the composition, mechanism of secretion, functions, and regulation of :- Pancreatic secretions					PY4.2 Describe the composition, mechanism of secretion, functions, and regulation of :- Intestinal juices & bile secretions	
01-02 PM											
02-04 PM	Physiology tutorial			Revision B	AN47.10-11 Practical – Enumerate the sites of portosystemic anastomosis and its applied anatomy Vertical Integration with General Surgery	Test B	Physiology Seminar	Physiology tutorial		AN48.1 Practical – Describe & identify the muscles of Pelvic diaphragm	Test B
				BIO-Tutorial		PY4.2 Describe the composition, mechanism of secretion, functions, and regulation of :- Pancreatic secretions					PY4.2 Describe the composition, mechanism of secretion, functions, and regulation of :- Intestinal juices & bile secretions

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Time	Day 152		Day 153	Day 154			Day 155	Day 156	Day 157	Day 158	Day 159
08-09 AM	PY 7.8 Renal function test Horizontal Integration with biochemistry <u>SDL</u>	GH	PY 10.1 Organization of nervous system Horizontal Integration with anatomy	AN48.4 Describe the branches of sacral plexus	SUNDAY	GH	AN48.5 Explain the anatomical basis of suprapubic cystostomy, Urinary obstruction in benign prostatic hypertrophy, Retroverted uterus, Prolapse uterus, Internal and external haemorrhoids, Anal fistula, Vasectomy, pregnancy & Tuballigation. <u>SDL</u>	PY 10.13 perception of smell and taste sensation Integration with ENT <u>SDL</u>	BI6.9 Describe the functions of various minerals in the body, their metabolism and homeostasis. PART-I (Vertical Intigration with medicine) & (Horizontal integration with physiology) <u>SDL</u>	PY 10.10 Chemical transmission in the nervous system	AN49.3 Describe & demonstrate Perineal membrane in male & female
09-10 AM	AN48.3 Describe the origin, course, important relations and branches of internal iliac artery		BI6.8 Discuss and interpret results of Arterial Blood Gas (ABG) analysis in various disorders. (Vertical Integration with medicine)	PY 7.9 Cystometry			CM2.5: Describe poverty and social security measures and its relationship to health and disease	AN48.6-8 Describe the neurological basis of Automatic bladder, BPH prostatic cancer.	AN49.1-2 Describe the superficial & deep perineal pouch (boundaries and contents)	BI6.9 Describe the functions of various minerals in the body, their metabolism and homeostasis. PART-II (Vertical Intigration with medicine) & (Horizontal integration with physiology)	PY 10.14 Patho-physiology of altered smell and taste sensation Integration with ENT
10-11 AM	Small Group Discussion Physiology		Self Directed Learning- Anatomy	AETCOM- Patient privacy and confidentiality			Small Group Discussion - Anatomy	Small Group Discussion - Physiology	Small Group Discussion - Biochemistry	Self Directed Learning- Anatomy	AETCOM- Appropriate use of information technology for students

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11 AM - 01 PM	Revision A		SGD 9 CM 2.4: Describe social psychology, community behaviour and community relationship and their impact on health and disease	AN48.4 Practical – Describe the branches of sacral plexus			AN48.5 Practical – 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. Vertical Integration with General Surgery	PY 10.11 A Sensory system Examination	AN49.1-2 Practical – Describe the superficial & deep perineal pouch (boundaries and contents) vertical integration with OBG	SGD 10 CM 2.4-2.5: Describe social psychology, community behaviour and community relationship and their impact on health and disease Describe poverty and social security measures and its relationship to health and disease	AN49.3 Practical – demonstrate Perineal membrane in male & female
	BIO-Tutorial							PY4.8 Describe & discuss :- gastric function tests			
01-02 PM											
02-04 PM	AN48.3 Practical – Describe the origin, course, important relations and branches of internal iliac artery		Physiology Seminar	Physiology tutorial			PY 10.11 B Sensory system Examination	AN48.6-8 Practical – Describe the neurological basis of Automatic bladder, BPH prostatic cancer vertical integration with general surgery	PY 10.11 B Motor system Examination	Physiology Seminar	Physiology tutorial
							BIO-Tutorial		PY4.8 Describe & discuss :- gastric function tests		

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Time		Day 160		Day 161	Day 162	Day 163	Day 164		Day 165	Day 166	Day 167
08-09 AM	SUNDAY	Sports	GH	PY 10.15 (1) Physiology of hearing integration with ENT SDL	BI6.10 Enumerate and describe the disorders associated with metabolism. (Vertical Integration with medicine) SDL	PY 10.2 (2) Synapse, reflex and receptors integration with anatomy	AN51.1 Describe & identify the cross-section at the level of T8, T10 and L1 (transpyloric plane)	SUNDAY	Extracurricular Activities	AN52.1 describe the micro anatomy of esophagus and tongue SDL	PY 10.17(1) Physiology of vision integration with Ophthalmology SDL
09-10 AM		AN49.4-5 Describe & demonstrate boundaries, content & applied anatomy of Ischiorectal fossa and applied aspects.		AN50. 2 Describe the Intervertebral joints, Sacroiliac joints & Pubic symphysis	AN50.3-4 Describe lumbar puncture (site, direction of the needle, structures pierced during the lumbar puncture)	BI6.11 Describe the functions of haem in the body and describe the processes involved in its metabolism and describe porphyrin metabolism. PART-I (Vertical Integration with medicine/pathology) & (Horizontal integration with physiology)	PY 10.15 (2) Physiology of hearing integration with ENT		AN51.2 Describe & identify the midsagittal section of male and female pelvis.	CM3.1 Describe the health hazards of air, water, noise, radiation and pollution	AN52.1 describe the histology of fundus, body, pylorus
10-11 AM		PY 10.2 (1) Synapse, reflex and receptors integration with anatomy		Small Group Discussion Physiology	Small Group Discussion Biochemistry	Self Directed Learning- Anatomy	AETCOM- Implementation of National health policies		PY 10.3 (1) Sensory system integration with anatomy	Small Group Discussion Anatomy	Small Group Discussion Physiology

11 AM - 01 PM		PY 10.11 A Motor system Examination		PY 10.11 A Reflexes	AN50.3-4 Practical – Describe lumbar puncture (site, direction of the needle, structures pierced during the	SDL3 (CM2) Relationship of social and behavioural to health and disease	AN51.1 Practical – Describe & identify the cross-section at the level of T8, T10 and L1 (transpyloric plane)		PY 10.11 A Cranial nerves Examination (I to VII Except II)	AN52.1 Practical – describe the micro anatomy of esophagus and tongue	PY 10.11 A Cranial nerves Examination (VIII to XII)
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		BIO-Tutorial		PY4.8 Describe & discuss :- pancreatic exocrine function test	lumbar puncture) Vertical integration with general medicine and orthopedics		Vertical integration with Radiodiagnos		PY4.8 Describe & discuss :- liver function test		BI11.10 demonstrate the estimation of triglycerides/
01-02 PM											
02-04 PM		AN49.4-5 Practical – demonstrate boundaries, content & applied anatomy of Ischiorectal fossa and applied aspects. Vertical integration with OBG		AN50. 2 Practical – Describe the Intervertebral joints, Sacroiliac joints & Pubic symphysis	PY 10.11 B Reflexes	Physiology Seminar	Physiology tutorial		AN51.2 Practical – Describe & identify the midsagittal section of male and female pelvis. Vertical integration with Radiodiagnos	PY 10.11 B Cranial nerves Examination (I to VII Except II)	AN52.1 Practical – describe the histology of fundus, body, pialorus
					PY4.8 Describe & discuss :- pancreatic exocrine function test					PY4.8 Describe & discuss :- liver function test	

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Time	Day 168	Day 169			Day 170	Day 171	Day 172	Day 173	Day 174	Day 175	
08-09 AM	BI6.11 Describe the functions of haem in the body and describe the processes involved in its metabolism porphyrin metabolism. PART-I (Vertical Intigration with medicine/pathology) & (Horizontal integration with physiology) SDL	PY 10.3 (2) Sensory system integration with anatomy	GH	SUNDAY	Sports	AN52.1 Describe histology of lever and gall bladder SDL	PY 10.17(2) Physiology of vision integration with Ophthalmology SDL	BI6.13 Describe the functions of the kidney, liver, thyroid and adrenal glands. . PART-I (Vertical Intigration with medicine/pathology) & (Horizontal integration with physiology/anatomy) SDL	PY 10.4 (2) Motor system integration with anatomy	AN52.2 Describe histology of testis epididymis	SUNDAY
09-10 AM	AN52.1 Describe histology of duodenum, jejunum and ilium	BI6.12 Describe the major types of haemoglobin and its derivatives found in the body and their physiological/ pathological relevance. (Vertical Intigration with medicine/pathology) & (Horizontal integration with physiology)			AN52.1 Describe histology of large intestine and appendix	Self Directed Learning - Biochemistry	AN52.1 Describe histology of pancreas and superniaal gland	AN52.2 Describe histology of kidney ureter and urinary bladder	BI6.13 Describe the functions of the kidney, liver, thyroid and adrenal glands. . PART-II (Vertical Intigration with medicine/pathology) & (Horizontal integration with physiology/anatomy)	PY 10.17(3) Physiology of vision integration with Ophthalmology	
10-11 AM	Small Group Discussion Biochemistry	Self Directed Learning- Anatomy			PY 10.4 (1) Motor system integration with anatomy	Small Group Discussion Anatomy	Small Group Discussion Physiology	Small Group Discussion Biochemistry	Self Directed Learning- Anatomy	AETCOM- Development of interpersonal communication skills	

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11 AM - 01 PM	AN52.1 Practical – Describe histology of duodenum, jejunum and ilium		SGD 11& SGD 12 CM3.2-3.3 Describe concepts of safe and wholesome		PY 10.11 A Revision	AN52.1 Practical – Describe histology of lever and gall bladder	PY 10.20 A Visual acuity	AN52.2 Practical – Describe histology of kidney ureter and urinary bladder	SGD13 CM 3.4 Describe the concept of solid waste, human excreta and sewage disposal	AN52.2 Practical – Describe histology of testis epididymis	
					DR17.1 Identify the cutaneous findings in Vitamin A deficiency		DR17.2 Describe the various skin changes in Vitamin B complex deficiency				
01- 02 PM											
02- 04 PM	PY 10.11 B Cranial nerves Examination (VIII to XII)	Physiology Seminar			AN52.1 Practical – Describe histology of large intestine and appendix	PY 10.11 B Revision	AN52.1 Practical – Describe histology of pancreas and supernial gland	PY 10.20 B Visual acuity	Physiology Seminar	Physiology tutorial	
	BII1.10 demonstrate the estimation of triglycerides/					DR17.1 Identify the cutaneous findings in Vitamin A deficiency		DR17.2 Describe the various skin changes in Vitamin B complex deficiency			

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Time									Day 176	Day 177	Day 178
08-09 AM	Second Terminal Exam								AN52.2 Describe histology of vas deferens, prostate and penis	PY 10.17(4) Physiology of vision integration with Ophthalmology	BI6.13 Describe the functions of the kidney, liver, thyroid and adrenal glands. . PART-II (Vertical Intigration with medicine/pathology) & (Horizontal integration with physiology/anatomy)
09-10 AM									Self Directed Learning - Physiology	AN52.2 Describe histology of ovary uterus uterine tube and cervix	AN52.3 Describe histology of cardioesophageal junction, corpus luteum
10-11 AM									Small Group Discussion Anatomy	Small Group Discussion Physiology	Small Group Discussion Biochemistry

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11 AM - 01 PM		AN52.2 Practical – Describe histology of vas deferens, prostate and penis	PY 10.20 A Revision	AN52.3 Practical – Describe histology of cardioesophageal junction, corpus luteum
			DR17.3 Describe the various changes in Vitamin C deficiency	
01-02 PM				
02-04 PM		PY 10.20 B Revision	AN52.2 Practical – Describe histology of ovary uterus uterine tube and cervix	PY 10.20 B Revision
		BIO-Tutorial		DR17.3 Describe the various changes in Vitamin C deficiency

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Time	Day 179	Day 180		Day 181	Day 182	Day 183	Day 184	Day 185	Day 186		
08-09 AM	PY 10.4 (3) Motor system integration with anatomy	AN52.4 Describe development of anterior abdominal wall	SUNDAY	Extracurricular Activities	AN52.6 Describe the development and congenital anomalies of: Foregut, Midgut & Hindgut SDL	PY 10.19 Evoke potentials integration with Ophthalmology SDL	BI6.15 Describe the abnormalities of kidney, liver, thyroid and adrenal glands. (Vertical Integration medicine/pathology) & (Horizontal integration with physiology/anatomy) SDL	PY 10.5(2) Autonomic nervous system integration with anatomy	AN54.1-3 Describe features of plain X ray abdomen and special radiographs of abdominopelvic region (contrast X ray Barium)	SUNDAY	GH
09-10 AM	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). (Vertical Integration with medicine/pathology) & (Horizontal integration with physiology/anatomy)	PY 10.4 (3) Motor system integration with anatomy		AN52.5 Describe the development and congenital anomalies of Diaphragm	CM3.5 Describe the standards of housing and the effect of housing on health	AN52.7 Describe the development of Urinary system	AN52.8 Describe the development of male & female reproductive system	BI7.1 Describe the structure and functions of DNA and RNA and outline the cell cycle.	PY 11.1 Temperature regulation		
10-11 AM	Self Directed Learning- Anatomy	AETCOM- Developing leadership qualities		PY 10.5(1) Autonomic nervous system integration with anatomy	Small Group Discussion Anatomy	Small Group Discussion Physiology	Small Group Discussion Biochemistry	Self Directed Learning- Anatomy	AETCOM- Medical records & Documentation in patient care		

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11 AM - 01 PM	SGD 14 & SGD 15 CM 3.6-3.7 Describe the role of vectors in the causation of diseases. Also discuss National Vector Borne disease Control	AN52.4 Practical – Describe development of anterior abdominal wall		PY 10.20 A Colour vision	AN52.6 Practical – Describe the development and congenital anomalies of: Foregut, Midgut & Hindgut Vertical integration with general surgery	PY 10.20 A Perimetry	AN52.8 Practical – Describe the development of male & female reproductive system Vertical integration with OBG	SDL4 (CM3) Environmental health problems	AN54.1-3 Practical – Describe features of plain X ray abdomen and special radiographs of abdominopelvic region (contrast X ray Barium Vertical integration with Radiodiagnosis		
01-02 PM											
02-04 PM	Physiology Seminar	Physiology tutorial		AN52.5 Practical – Describe the development and congenital anomalies of Diaphragm Vertical integration with general surgery	PY 10.20 B Colour vision	AN52.7 Practical – Describe the development of Urinary system Vertical integration with general surgery	PY 10.20 B Perimetry	Physiology Seminar	Physiology tutorial		
					DR17.4 Describe the various changes in Zinc deficiency		IM2.12 Interpret a lipid profile and identify the desirable lipid profile in the clinical context				

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Time	Day 187	Day 188	Day 189	Day 190	Day 191		Day 192	Day 193	Day 194	Day 195	
08-09 AM	AN55.1-2 Regions and planes of abdomen. McBurney's point, Renal Angle & Murphy's point. <u>SDL</u>	PY 11.2 Adaptation to heat and cold <u>SDL</u>	BI7.2 Describe the processes involved in replication & repair of DNA and the transcription & translation mechanisms.PART-I <u>SDL</u>	PY 10.6 (1) Lesions of spinal cord	AN28.9-10 Describe the parts, borders, surfaces, contents, relations and nerve supply of parotid gland with course of its duct and surgical importance	SUNDAY	Sports	AN30.1-2 Describe the cranial fossae & identify related structures. <u>SDL</u>	PY 11.4 Cardio-respiratory adjustments during exercise <u>SDL</u>	BI7.2 Describe the processes involved in replication & repair of DNA and the transcription & translation mechanisms.PART-III <u>SDL</u>	GH
09-10 AM	Self Directed Learning - Biochemistry	AN27.1-2 Describe the layers of scalp, its blood supply, its nerve supply and surgical importance	AN28.1- 8 Describe muscles of facial expression and their nerve supply	BI7.2 Describe the processes involved in replication & repair of DNA and the transcription & translation mechanisms. PART-II	PY 11.3 Fever and heat stroke		AN29.1-4 Describe attachments, nerve supply, relations and actions of sternocleidomastoid, Erb's wry neck and contains and posterior triangle.	CM3.8 Describe the mode of action, application cycle of commonly used insecticides and rodenticides	AN30.3-5 Describe & identify dural folds & dural venous sinuses	AN31.1 Describe & identify extra ocular muscles of eyeball	
10-11 AM	Small Group Discussion Anatomy	Small Group Discussion Physiology	Small Group Discussion Biochemistry	Self Directed Learning- Anatomy	AETCOM- Legal rights of medical personnel		PY 10.6 (2) Lesions of spinal cord	Small Group Discussion Anatomy	Small Group Discussion Physiology	Small Group Discussion Biochemistry	

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11 AM - 01 PM	AN55.1-2 Practical – Regions and planes of abdomen. McBurney's point, Renal Angle & Murphy's point. Vertical integration with general surgery	PY 10.20 A Smell and taste sensation	AN28.1- 8 Practical – Describe muscles of facial expression and their nerve supply	SGD16& SGD 17 CM5.1,3 Describe the common sources of various nutrients and special nutritional requirements according to	AN28.9- 10 Practical – Describe the parts, borders, surfaces, contents, relations and nerve supply of parotid gland with course of its duct and surgical importance Vertical integration with general surgery		PY 10.20 A Tests of Hearing	AN30.1-2 Practical – Describe the cranial fossae & identify related structures. Vertical integration with general surgery	PY 10.20 A Tests of Hearing	AN31.1 Practical – Describe & identify extra ocular muscles of eyeball
		IM11.12 Interpret a capillary blood glucose test					IM11.13 Interpret a urinary ketone estimation with a dipstick		PY8.4 Describe function tests: Thyroid gland	
01- 02 PM										
02- 04 PM	PY 10.20 B Smell and taste sensation	AN27.1-2 Practical – Describe the layers of scalp, its blood supply, its nerve supply and surgical importance	PY 10.20 B Revision	Physiology Seminar	Physiology tutorial		AN29.1-4 Practical – Describe attachments, nerve supply, relations and actions of sternocleidomastoid, Erb's wry neck and containts and posterior triangle. Vertical integration with general surgery	PY 10.20 B Tests of Hearing	AN30.3-5 Practical – Describe & identify dural folds & dural venous sinuses	PY 10.20 B Tests of Hearing
	BIO- Tutorial		IM11.12 Interpret a capillary blood glucose test					IM11.13 Interpret a urinary ketone estimation with a dipstick		PY8.4 Describe function tests: Thyroid gland

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Time	Day 196		Day 197	Day 198	Day 199	Day 200	Day 201	Day 202		Day 203	Day 204
08-09 AM	AN31.2,3 & 5 Describe nerves and vessels in the orbit	SUNDAY	Extracurricular Activities	AN32.1 Describe boundaries and subdivisions of anterior triangle <u>SDL</u>	PY 11.6 Physiology of infancy Vertical integration with Pediatrics <u>SDL</u>	BI7.3 Describe gene mutations and basic mechanism of regulation of gene expression. PART-I (Vertical Integration with peditrics) <u>SDL</u>	PY 10.7 (2) Functions of cerebral cortex, basal ganglia thalamus, hypothalamus, cerebellum and limbic system and their abnormalities Vertical integration with Psychiatry Horizontal integration with Anatomy	AN33.2 Describe & demonstrate attachments, direction of fibres, nerve supply and actions of muscles of mastication Vertical integration with general surgery	SUNDAY	Sports	AN33.4 Explain the clinical significance of pterygoid venous plexus <u>SDL</u>
09-10 AM	PY 11.5 Consequences of sedentary lifestyle		AN31.4 Enumerate components of lacrimal apparatus	Self Directed Learning - Physiology	AN32.2 Describe boundaries and contents of muscular, carotid, digastric and submental triangles	AN33.1 Describe extent, boundaries and contents of temporal and infratemporal fossae	BI7.3 Describe gene mutations and basic mechanism of regulation of gene expression. PART-II (Vertical Integration with peditrics)	PY 11.7 Physiology of aging		AN33.3 & 5 Describe articulating surface, type & movements of temporomandibular joint	CM5.5 Describe the methods of nutritional surveillance, principles of nutritional education and rehabilitation in the context of socio-cultural factors.
10-11 AM	AETCOM- Role of research in medical education		PY 10.7 (1) Functions of cerebral cortex, basal gan thalamus, Vertical integration with Psychiatry Horizontal integration with Anatomy	Small Group Discussion Anatomy	Small Group Discussion Physiology	Small Group Discussion Biochemistry	Self Directed Learning- Anatomy	AETCOM- Spiritual well being		PY 10.7 (3) Functions of cerebral cortex, basal ganglia thalamus, hypothalamus, Vertical integration with Psychiatry Horizontal integration with Anatomy	Small Group Discussion Anatomy

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11 AM - 01 PM	AN31.2,3 & 5 Practical – Describe nerves and vessels in the orbit Vertical integration with ophthalmology		Revision A	AN32.1 Practical – Describe boundaries and subdivisions of anterior triangle	Revision A	AN33.1 Practical – Describe extent, boundaries and contents of temporal and infratemporal fossae	SGD 18 CM5.5 Describe the methods of nutritional surveillance, principles of nutritional education and rehabilitation in the context of socio-cultural factors.	AN33.2 Practical – Describe & demonstrate attachments, direction of fibres, nerve supply and actions of muscles of mastication		Test A	AN33.4 Practical – Explain the clinical significance of pterygoid venous plexus Vertical integration with general surgery
			PY8.4 Describe function tests: Adrenal cortex		PY8.4 Describe function tests: Pancreas					IM2.3 Describe the lipid cycle and the role of dyslipidemia in the pathogenesis of atherosclerosis	
01-02 PM											
02-04 PM	Physiology tutorial		AN31.4 Practical – Enumerate components of lacrimal apparatus	Revision B	AN32.2 Practical – Describe boundaries and contents of muscular, carotid, digastric and submental triangles	Revision B	Physiology Seminar	Physiology tutorial		AN33.3 & 5 Practical – Describe articulating surface, type & movements of temporomandibular joint Vertical integration with general surgery	Test B
			PY8.4 Describe function tests: Adrenal cortex		PY8.4 Describe function tests: Pancreas					IM2.3 Describe the lipid cycle and the role of dyslipidemia in the pathogenesis of atherosclerosis	

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Time	Day 205	Day 206	Day 207	Day 208		Day 209	Day 210	Day 211	Day 212	Day 213	Day 214
08-09 AM	PY 11.8 Cardio-respiratory adjustments during exercise <u>SDL</u>	BI7.4 Describe applications of molecular technologies like recombinant DNA technology, PCR in the diagnosis and treatment of diseases with genetic basis. (Vertical Integration with medicine/pediatrics) <u>SDL</u>	PY 10.7 (4) Functions of cerebral cortex, basal ganglia thalamus, hypothalamus, cerebellum and limbic system and their abnormalities Vertical integration with Psychiatry Horizontal integration with Anatomy	AN35.2 Describe & demonstrate location, parts, borders, surfaces, relations & blood supply of thyroid gland	SUNDAY	Extracurricular Activities	AN35.6 Describe and demonstrate the extent, formation, relation & branches of cervical sympathetic chain <u>SDL</u>	PY 11.10 Anthropometric assessment of infants Vertical integration with Pediatrics <u>SDL</u>	BI7.6 Describe the anti-oxidant defence systems in the body. <u>SDL</u>	PY 10.7 (6) Functions of cerebral cortex, basal ganglia thalamus, hypothalamus, cerebellum and limbic system and their abnormalities Vertical integration with Psychiatry Horizontal integration with Anatomy	AN36.1 Describe the 1) morphology, relations, blood supply and applied anatomy of palatine tonsil 2) composition of soft palate
09-10 AM	AN34.1-2 Describe submandibular salivary gland & submandibular ganglion	AN35.1 Describe the parts, extent, attachments, modifications of deep cervical fascia	BI7.5 Describe the role of xenobiotics in disease	PY 11.9 Interpret growth charts Vertical integration with Pediatrics		AN35.3-5 describe the origin, parts, course & branches/Tributaries of subclavian artery, internal jugular and brachiocephalic veins	Self Directed Learning - Biochemistry	AN35.7-9 Describe the course and branches of IX, X, XI & XII nerve in the neck	AN35.10 Describe the fascial spaces of neck	BI7.7 Describe the role of oxidative stress in the pathogenesis of conditions such as cancer, complications of diabetes mellitus and atherosclerosis. (Vertical Integration with medicine/pathology)	PY 11.11 Brain death and its implications
10-11 AM	Small Group Discussion Physiology	Small Group Discussion Biochemistry	Self Directed Learning- Anatomy	AETCOM- Keeping moral values upbeat		PY 10.7 (5) Functions of cerebral cortex, basal ganglia thalamus, hypothalamus, Vertical integration with Psychiatry Horizontal integration with Anatomy	Small Group Discussion Anatomy	Small Group Discussion Physiology	Small Group Discussion Biochemistry	Self Directed Learning- Anatomy	AETCOM- Dealing with depression

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11 AM - 01 PM	Revision A	AN35.1 Practical – Describe the parts, extent, attachments, modifications of deep cervical fascia	SGD 19 CM5.8 Describe and discuss correctly the importance and methods of food fortification and effects of additives and adulteration	AN35.2 Practical – demonstrate location, parts, borders, surfaces, relations & blood supply of thyroid gland Vertical integration with general surgery		Revision A	AN35.6 Practical – demonstrate the extent, formation, relation & branches of cervical sympathetic chain	Revision A	AN35.10 Practical – Describe the fascial spaces of neck	SGD 20 CM5.6 Enumerate and discuss the National Nutrition Policy, important national nutritional Programs including the	AN36.1 Practical – Describe the 1) morphology, relations, blood supply and applied anatomy of palatine tonsil 2) composition of soft palate
	PE12.1 Discuss the (RDA) , dietary sources of Vitamin A and their role in Health and disease					PE12.2 Describe the causes, clinical features, diagnosis and management of Deficiency / excess of Vitamin A		PE12.3 Identify the clinical features of dietary deficiency / excess of Vitamin A			
01-02 PM											
02-04 PM	AN34.1-2 Practical – Describe submandibular salivary gland & submandibular ganglion Vertical integration with general surgery	Revision B	Physiology Seminar	Physiology tutorial		AN35.3-5 Practical – describe the origin, parts, course & branches/Tributaries of subclavian artery, internal jugular and brachiocephalic veins Vertical integration with general surgery	Revision B	AN35.7-9 Practical – Describe the course and branches of IX, X, XI & XII nerve in the neck Vertical integration with general surgery	Revision B	Physiology Seminar	Physiology tutorial
		PE12.1 Discuss the (RDA) , dietary sources of Vitamin A and their role in Health and disease					PE12.2 Describe the causes, clinical features, diagnosis and management of Deficiency / excess of Vitamin A		PE12.3 Identify the clinical features of dietary deficiency / excess of Vitamin A		

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Time		Day 215	Day 216	Day 217	Day 218	Day 219	Day 220		Day 221	Day 222	Day 223
08-09 AM	SUNDAY	Sports	AN37.1-3 Describe features of nasal septum and lateral wall of nose. <u>SDL</u>	PY 11.12 Physiology effects of meditation <u>SDL</u>	BI8.1 Discuss the importance of various dietary components and explain importance of dietary fibre. (Vertical Intigration with medicine/pathology/peadiatrics) <u>SDL</u>	PY 10.8 (2) EEG Vertical integration with Psychiatry	AN39.1 Describe the morphology, nerve supply, embryological basis of nerve supply, blood supply, lymphatic drainage and actions of extrinsic and intrinsic muscles of tongue	SUNDAY	Extracurricular Activities	AN40.1-5 Describe & identify the parts, blood supply and nerve supply of Ear Vertical Integration with ENT <u>SDL</u>	General Physiology Revision (1) <u>SDL</u>
09-10 AM		AN36.2-5 Describe the components and functions of Waldeyer's lymphatic ring, pyriform fossa and their applied.	Self Directed Learning - Physiology	AN38.1-2 Describe the morphology, identify structure of the wall, nerve supply, blood supply and actions of intrinsic and extrinsic muscles of the larynx	AN38.3 Describe anatomical basis of recurrent laryngeal nerve injury Vertical Integration with ENT	BI8.2 Describe the types and causes of protein energy malnutrition and its effects. (Vertical Intigration with medicine/pathology/peadiatrics)	PY 11.14 Demonstrate BLS Vertical Integration Anesthesiology		AN39.2 Explain the anatomical basis of hypoglossal nerve palsy	CM5.6 Enumerate and discuss the National Nutrition Policy, important national nutritional Programs including the Integrated Child Development Services Scheme (ICDS) etc	AN41.1-3 Describe & demonstrate parts and layers of eyeball Vertical Integration with Ophthalmology
10-11 AM		PY 10.8 (1) EEG Vertical integration with Psychiatry	Small Group Discussion Anatomy	Small Group Discussion Physiology	Small Group Discussion Biochemistry	Self Directed Learning- Anatomy	AETCOM-Optimism: Key to success		PY 10.9 (1) Memory, learning and speech Vertical integration with Psychiatry	Small Group Discussion Anatomy	Small Group Discussion Physiology

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11 AM - 01 PM		Revision A	AN37.1-3 Practical – Describe features of nasal septum and lateral wall of nose. Vertical Integration with ENT	Revision A	AN38.3 Practical – Describe anatomical basis of recurrent laryngeal nerve injury Vertical Integration with ENT	SDL5 (CM5) Nutrition	AN39.1 Practical – Describe the morphology, nerve supply, embryological basis of nerve supply, blood supply, lymphatic drainage and actions of extrinsic and intrinsic muscles of tongue		Revision A	AN40.1-5 Practical – Describe & identify the parts, blood supply and nerve supply of Ear Vertical Integration with ENT	Revision A
		PE12.15 Discuss the RDA , dietary sources of Vitamin B and their role in Health and disease		PE12.17 Identify the clinical features of Vitamin B complex deficiency					PE12.19 Discuss the RDA, dietary sources of Vitamin C and their role in Health and disease	PE12.21 Identify the clinical features Vitamin C deficiency	
01- 02 PM											
02- 04 PM		AN36.2-5 Practical – Describe the components and functions of Waldeyer's lymphatic ring, pyriform fossa and their applied. Vertical Integration with ENT	Revision B	AN38.1-2 Practical – Describe the morphology, identify structure of the wall, nerve supply, blood supply and actions of extrinsic muscles of the larynx Vertical Integration with ENT	Revision B	Physiology Seminar	Physiology tutorial		AN39.2 Practical – Explain the anatomical basis of hypoglossal nerve palsy Vertical Integration with ENT	Revision B	AN41.1-3 Practical – Describe & demonstrate parts and layers of eyeball Vertical Integration with Ophthalmology
			PE12.15 Discuss the RDA , dietary sources of Vitamin B and their role in Health and disease		PE12.17 Identify the clinical features of Vitamin B complex deficiency				PE12.19 Discuss the RDA, dietary sources of Vitamin C and their role in Health and disease		

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Time	Day 224	Day 225	Day 226		Day 227	Day 228	Day 229	Day 230	Day 231	Day 232	
08-09 AM	BI8.3 Provide dietary advice for optimal health in childhood and adult, in disease conditions like diabetes mellitus, coronary artery pregnancy. (Vertical Intigration with medicine) <u>SDL</u>	PY 10.9 (2) Memory, learning and speech Vertical integration with Psychiatry	AN43.1 Describe atlantooccipital joint & atlantoaxial joint	SUNDAY	Sports	AN43.2, describe histology of tongue, salivary glands, <u>SDL</u>	Nerve and muscle physiology Revision (2) <u>SDL</u>	BI8.5 Summarize the nutritional importance of commonly used items of food including fruits and vegetables.(macro-molecules & its importance). (Vertical Intigration with medicine/pathology/community medicine) <u>SDL</u>	Haematology Revision (1)	AN43.3 describe microanatomy of olfactory epithelium, eyelid, lip, sclero-corneal junction, optic nerve, cochlea- organ of corti, pineal gland	SUNDAY
09-10 AM	AN42.2-3 Describe & demonstrate the boundaries and contents of Suboccipital triangle	BI8.4 Describe the causes (including dietary habits), effects and health risks associated with being overweight/ obesity	General Physiology Revision (2)		AN43.2, describe Histology of pituitary gland, thyroid, parathyroid	Self Directed Learning - Biochemistry	AN43.2, describe histology of tonsil, epiglottis,	AN43.2, describe histology of cornea, retina	BI9.1 List the functions and components of the extracellular matrix (ECM).	Haematology Revision (2)	
10-11 AM	Small Group Discussion Biochemistry	Self Directed Learning- Anatomy	AETCOM– How to face exams		Nerve and muscle physiology Revision (1)	Small Group Discussion Anatomy	Small Group Discussion Physiology	Small Group Discussion Biochemistry	Self Directed Learning- Anatomy	AETCOM- Roles and responsibilities as a senior	

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11 AM - 01 PM	AN42.2-3 Practical – Describe & demonstrate the boundaries and contents of Suboccipital triangle	SGD 21 CM9.1 Define and describe the principles of Demography, Demographic cycle, Vital statistics	AN43.1 Practical – Describe atlantooccipital joint & atlantoaxial joint		Revision A	AN43.2, Practical – describe histology of tongue, salivary glands,	Revision A	AN43.2, Practical – describe histology of cornea, retina	SGD 22 CM9.2 Define, calculate and interpret demographic indices including birth rate, death rate, fertility rates	AN43.3 Practical – describe microanatomy of olfactory epithelium, eyelid, lip, sclero-corneal junction, optic nerve, cochlea- organ of corti, pineal gland	
					PE13.1 Discuss the RDA, dietary sources of Iron and their role in health and disease		PE13.3 Identify the clinical features of dietary deficiency of Iron and make a diagnosis				
01-02 PM											
02-04 PM	Revision B	Physiology Seminar	Physiology tutorial		AN43.2, Practical – describe Histology of pituitary gland, thyroid, parathyroid	Revision B	AN43.2, Practical – describe histology of tonsil, epiglottis	Revision B	Physiology Seminar	Physiology tutorial	
	PE12.21 Identify the clinical features Vitamin C deficiency					PE13.1 Discuss the RDA, dietary sources of Iron and their role in health and disease	PE13.3 Identify the clinical features of dietary deficiency of Iron and make a diagnosis				

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Time	Day 233	Day 234	Day 235	Day 236	Day 237	Day 238		Day 239	Day 240	Day 241	Day 242
08-09 AM	Extracurricular Activities	AN43.4 Describe the development tongue, branchial apparatus, pituitary gland, thyroid gland & eye <u>SDL</u>	CVS Revision (2) <u>SDL</u>	BI9.2 Discuss the involvement of ECM components in health and disease. (Vertical Integration with medicine) <u>SDL</u>	CVS Revision (3)	AN56.2 Describe circulation of CSF with its applied anatomy	SUNDAY	Sports	AN57.4-5 Enumerate ascending & descending tracts at mid thoracic level of spinal cord <u>SDL</u>	Resp. system Revision (3) <u>SDL</u>	BI10.1 Describe the cancer initiation, promotion oncogenes & oncogene activation. Also focus on p53 & apoptosis. PART-I (Vertical Integration with obs & gynae/surgery/pathology) <u>SDL</u>
09-10 AM	AN43.4 Describe the development and developmental basis of congenital anomalies of face, palate, tongue,	CM9.1 Define and describe the principles of Demography, Demographic cycle, Vital statistics	AN43.8-9 Describe the anatomical route used for carotid angiogram and vertebral angiogram Vertical integration with radiognosis	AN56.1 Describe & identify various layers of meninges with its extent & modifications	BI9.3 Describe protein targeting & sorting along with its associated disorders.	Resp. system Revision (1)		AN57.1-2 Describe external features of spinal cord and internal	SDL- Biochemistry	AN58.1-2 Describe external and internal features of medulla oblongata in detail	AN58.3-4 Enumerate cranial nerve nuclei in medulla oblongata with their functional group
10-11 AM	CVS Revision (1)	Small Group Discussion Anatomy	Small Group Discussion Physiology	Small Group Discussion Biochemistry	Self Directed Learning- Anatomy	AETCOM- Maintaining professionalism and appropriate use of social media		Resp. system Revision (2)	Small Group Discussion Anatomy	Small Group Discussion Physiology	Small Group Discussion Biochemistry

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11 AM - 01 PM	Revision A	AN43.4 Practical – Describe the development tongue, branchial apparatus, pituitary gland, thyroid gland & eye	Revision A	AN56.1 Practical – Describe & identify various layers of meninges with its extent & modifications Vertical integration with General Medicine	SGD 23 CM9.4 Enumerate and describe the causes and consequences of population explosion and population dynamics of India	AN56.2 Practical – Describe circulation of CSF with its applied anatomy Vertical integration with General Medicine	Revision A	AN57.4-5 Practical – Enumerate ascending & descending tracts at mid thoracic level of spinal cord Vertical integration with General Medicine	Revision A	AN58.3-4 Practical – Enumerate cranial nerve nuclei in medulla oblongata with their functional group Vertical integration with General Medicine And Horizontal integration with physiology
	PE13.7 Discuss the RDA , dietary sources of Iodine and their role in Health and disease		PE19.4 Define cold chain and discuss the methods of safe storage and handling of vaccines				PA25.1 Describe bilirubin metabolism		PA25.1 Distinguish between direct and indirect hyperbilirubinemia	
01-02 PM										
02-04 PM	AN43.4 Practical – Describe the development and developmental basis of congenital anomalies of face, palate, tongue,	Revision B	AN43.8-9 Practical – Describe the anatomical route used for carotid angiogram and vertebral angiogram Vertical integration with radiognosis	Revision B	Physiology Seminar	Physiology tutorial	AN57.1-2 Practical – Describe external features of spinal cord and internal	Revision B	AN58.1-2 Practical – Describe external and internal features of medulla oblongata in detail	Revision B
		PE13.7 Discuss the RDA , dietary sources of Iodine and their role in Health and disease		PE19.4 Define cold chain and discuss the methods of safe storage and handling of vaccines				PA25.1 Describe bilirubin metabolism		PA25.1 Distinguish between direct and indirect hyperbilirubinemia

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Time		Day 243		Day 244	Day 245	Day 246	Day 247	Day 248	Day 249		Day 250
08-09 AM	GH	AN59.1-2 Describe internal and external features of pons Horizontal integration with physiology	SUNDAY	Extracurricular Activities	AN60.1 Describe external & internal features of cerebellum <u>SDL</u>	Reproductive physiology Revision <u>SDL</u>	BI10.2 Describe various biochemical tumor markers and the biochemical basis of cancer therapy. (Vertical Intigration with obs & gynae/surgery/pathology) <u>SDL</u>	GIT Revision	AN61.2-3 Describe internal features of midbrain at the level of superior & inferior colliculus	SUNDAY	Sports
09-10 AM		Endocrine Revision (1)		AN59.3 Enumerate cranial nerve nuclei in pons with their functional group	Com. Med. Revision	AN60.2 -3 Describe connections of cerebellar cortex and intracerebellar nuclei.	AN61.1 Describe external & internal features of midbrain	BI10.3 Describe the cellular and humoral components of the immune system & describe the types and structure of antibody. . (Vertical Intigration with obs & gynae/surgery/pathology)	Renal Physiology Revision (1)		AN62.1-3 Describe cranial nerve nuclei with its functional component and cerebral hemisphere
10-11 AM		AETCOM– role of doctor in development of Rural area		Endocrine Revision (2)	Small Group Discussion Anatomy	Small Group Discussion Physiology	Small Group Discussion Biochemistry	Self Directed Learning- Anatomy	AETCOM– Primary health care is basic need of all citizen		Renal Physiology Revision (2)

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11 AM - 01 PM		AN59.1-2 Practical – Describe internal and external features of pons Horizontal integration with physiology		Test A	AN60.1 Practical – Describe external & internal features of cerebellum	Test A	AN61.1 Practical – Describe external & internal features of midbrain	SGD 25 CM9.6 Describe the National Population Policy CM9.7 Enumerate the sources of vital statistics including census, SRS, NFHS, NSSO etc	AN61.2-3 Practical – Describe internal features of midbrain at Vertical integration with General Medicine And Horizontal integration with physiology		Revision A
				PY3.11 Explain energy source and muscle metabolism		IM2.3 Describe the lipid cycle and the role of dyslipidemia in the pathogenesis of atherosclerosis					BIO- Tutorial
01- 02 PM											
02- 04 PM		Physiology tutorial		AN59.3 Practical – Enumerate cranial nerve nuclei in pons with their functional group	Test B	AN60.2 -3 Practical – Describe connections of cerebellar cortex and intracerebellar nuclei. Vertical integration with General Medicine And Horizontal integration with physiology	Test B	Physiology Seminar	Physiology tutorial		AN62.1-3 Practical – Describe cranial nerve nuclei with its functional component and cerebral hemisphere Vertical integration with General Medicine And Horizontal integration with physiology
					PY3.11 Explain energy source and muscle metabolism		IM2.3 Describe the lipid cycle and the role of dyslipidemia in the pathogenesis of atherosclerosis				

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Time		Day 251	Day 252	Day 253			Day 254	Day 255	Day 256		
08-09 AM	GH	CNS Revision (1) <u>SDL</u>	BI10.4 Describe & discuss innate and adaptive immune responses, self/non-self recognition and the central role of T-helper cells in immune responses.(Vertical Intigration with medicine/pathology) & (Horizontal integration with physiology) <u>SDL</u>	CNS Revision (2)	GH	SUNDAY	Extracurricular Activities	AN64.2-3 Describe the development of neural tube, spinal cord, medulla oblongata, pons, midbrain, <u>SDL</u>	Special Senses Revision <u>SDL</u>	Pre University Exam	
09-10 AM		AN62.4-6 Enumerate parts & major connections of basal ganglia, limbic lobe, thalamus and hypogthalamus	AN63.1-2 Describe & demonstrate parts, boundaries & features of IIIrd, IVth & lateral ventricle.	BI10.5 Describe antigens and concepts involved in vaccine development. (Vertical Intigration with pathology/peadiatrics/microbiology)			AN64.1 Describe & identify the microanatomical features of Spinal cord, Cerebellum & Cerebrum	Com. Med. Revision	AN64.2- Describe development of cerebtal hemisphere and cerebellum		
10-11 AM		Small Group Discussion Physiology	Small Group Discussion Biochemistry	Self Directed Learning- Anatomy			CNS Revision (3)	Small Group Discussion Anatomy	Small Group Discussion Physiology		

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11 AM - 01 PM		Revision A	AN63.1-2 Practical – demonstrate parts, boundaries & features of IIIrd, IVth & lateral ventricle. Vertical integration with Pediatric Horizontal integration with physiology	SGD26 CM6.1-6.2 Formulate a research question for study. Describe and discuss the principles & demonstrate the methods of collection, classification, interpretation and presentation of statistical data.			Revision A	AN64.2-3 Practical – Describe the development of neural tube, spinal cord, medulla oblongata, pons, midbrain. Vertical integration with Pediatric & OBG	Revision A	
		PE9.1 Describe the age related nutritional needs of adolescents including micronutrients and vitamins					PE10.2 Outline the clinical approach to a child with SAM and MAM		Bio Tutorial	
01- 02 PM										
02- 04 PM		AN62.4-6 Practical – Enumerate hypogthalamus Vertical integration with General Medicine And Horizontal integration with physiology	Revision B	Physiology Seminar			AN64.1 Practical – Describe & identify the microanatomical features of Spinal cord, Cerebellum & Cerebrum	Revision B	AN64.2- Practical – Describe development of cerebral hemisphere and cerebellum	
			PE9.1 Describe the age related nutritional needs of infants, children and adolescents including micronutrients and vitamins				PE10.2 Outline the clinical approach to a child with SAM and MAM			

20th – 31st Aug – PU exam

3rd- Rakshabandhan

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Time											
08-09 AM	Pre University Exam (III Term)										University Examination
09-10 AM											
10-11 AM											
11 AM - 01 PM											
01-02 PM											
02-04 PM											