

**Shaheed Hasan Khan Mewati Government Medical**  
**College Nalhar, Nuh (Haryana)**  
**COMPETENCY BASED MEDICAL CURRICULUM FOR MBBS (2020-2021)**

| Time        | 01.02.21<br>Mon | 02.02.21<br>Tue   | 03.02.21<br>Wed  | 04.02.21<br>Thurs  | 05.02.21<br>Fri   | 06.02.21<br>Sat  | 07.02.21<br>Sun |
|-------------|-----------------|---|--|--|---|--|-----------------|
| 08-09<br>AM |                 | AN 1.1<br>Demonstrate<br>normal anatomical<br>position, various<br>plans, relation,<br>comparison,<br>laterality &<br>movement in our<br>body                     | PY1.1 structure<br>and functions of a<br>mammalian cell  | BI1.1 Molecular<br>and functional<br>organization of<br>cell and its sub<br>cellular<br>components (part<br>I) (Horizontal<br>integration with<br>Physiology)                | PY3.1 Structure and<br>functional of a<br>neuron and<br>neuralgia, nerve<br>growth factor and<br>cytokines<br><br><b>Horizontal<br/>integration with<br/>Anatomy</b>                  | <b>AETCOM –<br/>Physician's role in<br/>society-<br/>Dept. of Com.<br/>Med</b>                     |                 |
| 09-10<br>AM |                 | CM1.1: Define<br>and describe the<br>concepts of public<br>health   | AN4.1 -4.3<br>Describe different<br>types of skin &<br>dermatomes in<br>body, appendages,<br>superficial fascia<br>with fat  | AN65.1<br>introduction to<br>microscope,<br>identify epithelium<br>under the<br>microscope &<br>describe the<br>various types  | BI1.1 Molecular and<br>functional<br>organization of cell<br>and its sub cellular<br>components (part II)   | PY2.1 composition<br>and functional of<br>blood component  |                 |
| 10-11<br>AM |                 | <b>O</b> -International<br>health<br>systems and<br>concept<br>of rural health care<br>– <b>Dept. of Com.<br/>Med</b>   | <b>PDE</b> - Expectation<br>of society from a<br>doctor –<br><b>Dept. of<br/>Community Med</b>   | <b>PDE</b> - Social<br>stigma<br>and cultural factors<br>influencing<br>diseases<br>– <b>Dr. Maha Singh</b>  | <b>3XO</b> -Visit to pre<br>and<br>Para clinical<br>/departments<br>Registration<br>counter/OPD/<br>IPD/Casualty/Blood<br>bank<br>(Group A,<br>B and C)<br>-Demonstrator<br>Ana/Phy/B | AN4.4 - 4.5<br>describe deep<br>fascia with its<br>modification,<br>principle of skin<br>incisions |                 |
| 11-01<br>AM |                 | AN 1.1 DOAP<br>session of<br>Demonstrate<br>normal anatomical<br>position, various<br>planes, relation,<br>comparison,<br>laterality &<br>movement in our<br>body | PY2.11a to study<br>the compound<br>microscope<br>( <b>vertical<br/>integration with<br/>pathology</b> )<br><br>BI 11.1<br>Commonly used<br>lab equipments,<br>safety, waste<br>disposal | AN65.1 Describe<br>parts of<br>microscope<br>(Histology)   |   | AN. 4.1-4.4<br>DOAP session of<br>skin and fascia  |                 |
|             | <b>L</b>        | <b>U</b>  | <b>N</b>   | <b>C</b>   | <b>H</b>  |  |                 |
| 02-04<br>PM |                 | PY2.11a to study<br>the compound<br>microscope<br><br>BI 11.1<br>Commonly used<br>lab equipments,<br>safety, waste<br>disposal                                    | AN 1.1 DOAP<br>session of<br>Demonstrate<br>normal anatomical<br>position, various<br>plans, relation,<br>comparison,<br>laterality &<br>movement in our<br>body                         | PY2.11a to study<br>the compound<br>microscope<br>( <b>vertical<br/>integration with<br/>pathology</b> )<br><br>BI 11.2<br>preparation of<br>buffers and<br>estimation of pH | PY1.2 discuss the<br>principle of<br>homeostasis (part-I)   | Physio Tutorial  |                 |
| 04-05<br>PM |                 |   |  |  | <b>LC</b> - Computer<br>skills-<br><b>Mr. Ashish</b>  |  |                 |

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 (Teal Blue)

• AETCOM - Professional Development and Ethics - 48 Hours (Green Color)

• S/E – Sports and Extra Curriculum Activity - 60 Hours (Blue Color)

• **Foundation Course- 175 hours ( Mustard Yellow)**

**Total Hour – 1750**

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**COMPETENCY BASED UNDERGRADUATE CURRICULUM FOR MBBS (2020-2021)**

| Time        | 08.02.21<br>Mon   | 09.02.21<br>Tue   | 10.02.21<br>Wed   | 11.02.21<br>Thurs   | 12.02.21<br>Fri  | 13.02.21<br>Sat  | 14.02.21<br>Sun |
|-------------|---|---|---|---|--|--|-----------------|
| 08-09<br>AM | Extracurricular Activities  | AN 1.2, 2.3<br>Composition of bone & bone marrow, Types of Bones & sesamoid bones   | PY3.2 types, functions & properties of nerve fibers   | BI2.1 Main classes of IUBMB nomenclature (Part – I)   | PY2.2 discuss the origin, forms, variations and functions of plasma proteins<br><b>Horizontal Integration with biochemistry</b>  | AETCOM - History of medicine –<br><b>Dr. Anurag Ambroz</b>   |                 |
| 09-10<br>AM | AN3.1-3.3 General features of muscle  | CM 1.2: Define health; describe the concept of holistic health including concept of spiritual health and the relativeness & determinants of health                              | AN 2.1 – 2.2 Describe parts, blood and nerve supply of as long bone laws of ossification,   | AN65.1 Describe the various types of epithelium   | BI2.1 main classes of IUBMB nomenclature (Part – II)   | PY2.3 discusses the synthesis and functions of hemoglobin and explains its breakdown. Variant of hemoglobin<br><b>Horizontal Integration with Biochemistry</b> |                 |
| 10-11<br>AM | PY1.2 discuss the principle of homeostasis  | <b>PDE</b> - Empathetic attitude towards patients –<br><b>Dr. Shailesh Gupta</b>  | <b>PDE</b> - Consumer protection act .Legal issues against Doctors, issues related to negligence, professional Indemnity –<br><b>Dr. Devender</b>                                 | <b>PDE</b> - Maintaining Confidentiality of a patient –<br><b>Dr. Aarti Dhingra</b>   | <b>Early Clinical Exposure</b> (Physiology)  | AN 2.4 Describe various types of cartilage with its structure & distribution in body   |                 |
| 11-01<br>AM | PY2.11b study of different blood diluting pipettes and diluting fluids( <b>vertical integration with pathology</b> )<br><br>BI 11.2 preparation of buffers and estimation of pH | AN. 8.1- DOAP Types of Bones  | PY2.11c study of Neubauer chamber PY2.11d filling of pipettes and charging of chamber <b>Vertical integration with pathology</b><br><br>BI11.3 Chemical component of normal urine | AN. 65.1 – Identify the slides of simple epithelium (Histo)   |  | AN. 8.1- DOAP session of identify the given bone, its side, important features and anatomical position (Scapula)   |                 |
|             | <b>L</b>  | <b>U</b>  | <b>N</b>  | <b>C</b>  | <b>H</b>   |  |                 |
| 02-04<br>PM | AN. 8.1 & 8.4- DOAP Types of Bones Demonstrate muscle attachment on bone  | PY2.11b study of different blood diluting pipettes and diluting fluids( <b>vertical integration with pathology</b> )<br><br>BI 11.2 preparation of buffers and estimation of pH | AN. 8.3- DOAP session of identify the given bone, its side, important features and anatomical position (Clavicle)   | PY2.11c study of Neubauer chamber PY2.11d filling of pipettes and charging of chamber <b>Vertical integration with pathology</b><br><br>BI11.3 Chemical component of normal urine | PY1.3 Intercellular communication<br>PY1.4 Describe apoptosis – programmed cell death <b>Vertical integration with Pathology</b> | Physio Tutorial  |                 |
| 4-5<br>PM   | <b>PDE</b> - Immunization required for health personnel –<br><b>Dr. Maha Singh</b>  |   |   |   | <b>LC</b> - Computer skills-<br><b>Mr. Ashish</b>  |  |                 |

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|-------------|--|-----------------|---|---|--|--|-----------------|
| 08-09<br>AM | Extracurricular Activities   | <b>GH</b>       | PY3.4 Describe the structure of neuro muscular junction and transmission of impulses (Part-III)   | BI2.4 Enzyme inhibitor, as poisons and drugs and as therapeutic enzyme ( <b>Vertical integration with Pathology and Medicine</b> )              | PY2.4 Describe RCB formation (granulopoiesis) and its regulation (Part-II)   | AETCOM- Why ragging is illegal? –<br><b>Dr. Rajeev Khurana</b>   |                 |
| 09-10<br>AM | AN5.1-5.8 General features of the cardiovascular system  |                 | AN2.5 Describe various joints with subtypes and examples  | AN65.2 Describe the ultra- structure of epithelium (stratified)   | BI2.5 clinical utility of various serum enzyme as markers of pathological conditions( <b>Vertical integration with Pathology and Medicine</b> )  | PY3.5 Discuss the action of neuro muscular blocking agent <b>Vertical integration with anesthesiology and pharmacology</b> |                 |
| 10-11<br>AM | PY3.4 Describe the structure of neuro muscular junction and transmission of impulses (Part-II)   |                 | <b>PDE</b> - Gender sensitization & laws regarding sexual harassment –<br><b>Dr. Devender Atal</b>  | <b>PDE</b> - Doctor as a service provider, Consumer protection Act in relation to Doctors –<br><b>Dr. Ashish Tyagi</b>                          | <b>Early Clinical Exposure</b> (Anatomy)   | AN 2.6 Explain the concept of nerve supply of joints & Hiltons law   |                 |
| 11-01<br>AM | PY2.11f determination of total RBC count<br>Vertical integration with pathology<br>BI1.4 perform urine analysis to estimate and determine normal and abnormal constituents |                 | PY2.11g determination of total WBC count - Vertical integration with pathology<br>BI1.7 Estimation of serum creatinine and creatinine clearance | AN65.2 Identify the slides of stratified epithelium   |  | AN2.5 DOAP session of various types of joints and their movements  |                 |
|             | <b>L</b>   | <b>U</b>        | <b>N</b>  | <b>C</b>  | <b>H</b>   |  |                 |
| 02-04<br>PM | AN. 8.1- DOAP session of identify the given bone, its side, important features and anatomical position (Humerus)   |                 | AN2.5 DOAP session of various types of joints with subtypes and example   | PY2.11g determination of total WBC count - Vertical integration with pathology<br>BI1.7 Estimation of serum creatinine and creatinine clearance | PY1.6, describe the fluid compartments of the body, its ionic composition & measurement<br>PY 1.7 describe the concept of pH and buffers systems in the body<br>Horizontal integration with Biochemistry | Physiology Tutorial  |                 |
| 04-05<br>PM | <b>PDE</b> - Challenges faced by a doctor in private/ corporate set up–<br><b>Dr. Yamini</b>   |                 |   |   | <b>LC</b> - Computer skills-<br><b>Mr. Ashish</b>  |  |                 |

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|----------|--|--|--|---|--|-----------------|-----------------|
| 08-09 AM | Extracurricular Activities   | AN75.1-75.2 Principles of genetics, chromosomal aberrations  | PY; 3.6 Describe the pathophysiology of myasthenia gravis Vertical integration with pathology  | BI3.1 differentiate monosaccharide, disaccharides and polysaccharides giving examples of main carbohydrates as energy fuel, structural element and storage in the human body (Part-I) | PY; Describe different types of muscle fibers and their structure  | <b>GH</b>       |                 |
| 09-10 AM | AN6.1-6.3 General feature of lymphatic system  | CM 1.3 Describe the characteristics of agent, host and environmental factors in health and disease and the multi factorial etiology of disease   | AN 75.3-75.5 Clinical Genetics   | AN 7.1- 7.3 Introduction to nervous system  | 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) |                 |                 |
| 10-11 AM | PY1.8 describe and discuss the molecular basis of resting membrane potential and action potential in excitable tissue                            | <b>SK</b> – Study skills-tips for better study style –<br><b>Dr. Anil Chaudhary</b>  | <b>PDE;</b> District non-communicable disease officer  | <b>PDE;</b> Immunization required for health personnel  | <b>PDE;</b> How to interact with seniors, peers, faculty and patients  |                 |                 |
| 11-01 AM | PY2.11g determination of total WBC count - Vertical integration with pathology<br>BI11.7 Estimation of serum creatinine and creatinine clearance | Revision   | <b>Batch A</b> – Community Medicine field visit<br><b>Batch B-</b> Physiology Tutorial<br><b>Batch C-</b> Anatomy bone demonstration | <b>Batch B</b> – Community Medicine field visit<br><b>Batch C-</b> Physiology Tutorial<br><b>Batch A-</b> Anatomy bone demonstration  | <b>Batch C</b> – Community Medicine field visit<br><b>Batch A-</b> Physiology Tutorial<br><b>Batch B-</b> Anatomy bone demonstration   |                 |                 |
|          | <b>L</b>   | <b>U</b>   | <b>N</b>   | <b>C</b>  | <b>H</b>   |                 |                 |
| 02-04 PM | <b>2XSK</b> – Handling Cadavers in Dissection Hall   | PY2.11g determination of total WBC count - Vertical integration with pathology<br>BI11.7 Estimation of serum creatinine and creatinine clearance | Cardiopulmonary resuscitation (basic life support training)<br>Dr. Kiran Bhatia, Prof. Anaesthesia<br>Venue: - Examination Hall      | Community Medicine  | Hospital Visit   |                 |                 |
| 04-05 PM | <b>SK</b> -Bio-safety and biomedical waste management–<br><b>Dr. Prakriti</b>  |  |  |   |  |                 |                 |

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|-------------|--|--|--|---|---|--|-----------------|
| 08-09<br>AM | Sports   | AN7.7-7.8 various type of synapse  | PY3.6 Describe the path physiology of myasthenia gravis<br>Vertical integration with pathology   | BI3.1 differentiate monosaccharide, disaccharides and polysaccharides giving examples of main carbohydrates as energy fuel, structural element and storage in the human body (Part-I) ) | PY2.7 Describe the formation of platelets, functions and variations   | <b>AETCOM-</b><br>Professional behavior with peers   |                 |
| 09-10<br>AM | AN7.4-7.6 Describe the typical spinal nerve, sensory motor innervations  | CM1.4: Describe and discuss the natural history of disease<br>CM1.5: Describe the application of interventions at various levels of prevention | AN76.1-76.2 Introduction to embryology   | AN66.1-66.2 connective tissue histology   | 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  |                 |
| 10-11<br>AM | 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) | <b>PDE</b> - Challenges faced by a doctor in private/ corporate set up–<br><b>Dr. Yamini</b>   | <b>SK</b> -Bio-safety and biomedical waste management–<br><b>Dr. Prakriti</b>  | <b>SK</b> – Where to look for data in health? – <b>Dept. of Com. Med</b>  | <b>Early Clinical Exposure: Biochem.</b>  | AN77.3-77. 6 Gametogenesis and fertilization   |                 |
| 11-01<br>AM | PY2.11h estimation of hemoglobin content of blood<br>Vertical integration with pathology<br><br>BI11.6 Describe the principles of colorimetry  | AN. 8.1- DOAP session of identify the given bone, its side, important features and anatomical position   | PY2.11h estimation of hemoglobin content of blood<br>Vertical integration with pathology<br><br>BI11.18 Describe the principles of spectrophotometry | AN. 4.3-4.4 DOAP session of demonstration of slides pertaining to connective tissue   |   | AN77.3-77. 6 Gametogenesis and fertilization. Demonstration of embryology models. <b>Vertical integration</b> with OBG |                 |
|             | <b>L</b>   | <b>U</b>   | <b>N</b>   | <b>C</b>  | <b>H</b>  |  |                 |
| 02-04<br>PM | AN. 8.1- DOAP session of identify the given bone, its side, important features and anatomical position   | PY2.11h estimation of hemoglobin content of blood<br>Vertical integration with pathology<br><br>BI11.6 Describe the principles of colorimetry  | AN 1.1 DOAP session of Demonstrate normal anatomical position, various plans, relation, comparison, laterality & movement in our body                | PY2.11h estimation of hemoglobin content of blood<br>Vertical integration with pathology<br><br>BI11.18 Describe the principles of spectrophotometry                                    | 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 | Physio Tutorial  |                 |
| 04-05<br>PM |  |  |  |   | <b>LC-</b> Computer skills-<br><b>Mr. Ashish</b>  |  |                 |

**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)**
- **Foundation Course- !75 hours ( Mustard Yellow)**

**Total Hour – 1750**

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|-------------|--|--|--|-------------------|--|---|-----------------|
| 08-09<br>AM | Sports   | AN78.1-78.5 Second week of development   | PY3.8 Describe action potential and its properties in different muscle types (skeletal & smooth)   | GH                | PY2.8 Describe the physiological basis of hemostasis and anticoagulants. Describe bleeding & clotting disorder (hemophilia purpura) (Part-II) <b>Vertical integration with pathology</b> | <b>AETCOM:</b> Alternate health systems in India  |                 |
| 09-10<br>AM | AN77.1-77.2 ovarian and menstrual cycle  | CM1.6: Describe and discuss the concepts, the principles of Health promotion and Education, IEC and Behavioral change communication (BCC)  | AN 79.1-79.6 3rd to 8th Week of development  |                   | BI3.2 Processes involved in digestion and assimilation of carbohydrate and storage   | PY2.9 Describe different blood groups and discuss the clinical importance of blood grouping, blood banking and transfusion <b>Vertical integration with pathology</b> |                 |
| 10-11<br>AM | PY3.8 Describe action potential and its properties in different muscle types (skeletal & smooth)   | <b>SK – Principles of blood safety and transfusion medicine – Dr. Shailesh (Patho)</b>   | <b>PDE - Medicine and Law Interaction with a lawyer - Dr. Hitesh</b>   |                   | <b>Early Clinical Exposure: Physiology</b>   | AN80.1-80.3 fetal membrane and umbilical cord   |                 |
| 11-01<br>AM | PY2.11j determination of blood group <b>Vertical integration with pathology</b><br><br>BI 11.21 Demonstrate estimation of glucose in serum | AN78.1-78.5. <b>Vertical integration with OBG and Demonstration of embryology models.</b>  | PY2.11j determination of blood group <b>Vertical integration with pathology</b><br><br>BI 11.21 Demonstrate estimation of glucose in serum   |                   |  | AN80.1-80.3 fetal membrane and umbilical cord. Demonstration of embryology models. <b>Vertical integration with OBG</b>   |                 |
|             | <b>L</b>   | <b>U</b>   | <b>N</b>   | <b>C</b>          | <b>H</b>   |   |                 |
| 02-04<br>PM | AN77.3-77.6 Gametogenesis and fertilization. Demonstration of embryology models. <b>Vertical integration with OBG</b>                      | PY2.11j determination of blood group <b>Vertical integration with pathology</b><br><br>BI 11.21 Demonstrate estimation of glucose in serum | AN 79.1-79.6 3 <sup>rd</sup> to 8 <sup>th</sup> Week of development Demonstration of embryology models. <b>Vertical integration with OBG</b> |                   | Physiology Lecture PY3.1-3.8   | Physio Tutorial   |                 |
| 4-5<br>PM   |  |  |  |                   | <b>LC: Hindi Dr Puja</b>   |   |                 |

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|-------------|---|---|--|--|--|--|-----------------|
| 08-09<br>AM | Extracurricular Activities  | AN9.1 introduction to upper limb – pectoral region  | PY3.9 describe the molecular basis of muscle contraction in skeletal and in smooth muscle (1)  | BI3.3 Digestion and assimilation of carbohydrates from food  | PY3.9 describe the molecular basis of muscle contraction in skeletal and in smooth muscle (1)  | AETCOM: Respect to senior & faculty                            |                 |
| 09-10<br>AM | AN73.1-74.4 chromosomes and patterns of inheritance   | CM1.7: Enumerate and describe health indicators   | AN9.2-9.3 Breast   | AN67.1-67.3 Muscle histology   | BI3.4 Pathways of carbohydrate metabolism (Glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt Part- I) (Vertical integration with Medicine) | PY 9.3 Male reproductive system                                |                 |
| 10-11<br>AM | PY2.10 Define and classify different types of immunity, describe the development of immunity and its regulation                 | SK- Importance of reporting, documentation, feedback, referral (MRD) – Dr. Siddharth (Ortho)                                    | O- Universal precautions and vaccination – Dr. Maha Singh  | PDE – First Aid – Dr. Jitendr  | Early Clinical Exposure: Anatomy   | AN8.1-8.3 Feature of individual bones (upper limb)             |                 |
| 11-01<br>AM | PY2.11j determination of blood group Vertical integration with pathology<br><br>BI11.21 Demonstrate estimation of Urea in serum | AN 9.1- Practical - marking of skin incision and reflection of skin and fascia  | PY2.11k preparation of peripheral blood smear integration with pathology<br><br>BI11.21 Demonstrate estimation of Total protein in serum | AN67.1-67.3 DOAP session of demonstration of slides pertaining to Muscle tissue  |  | AN8.1-8.3 Practical - Feature of individual bones (upper limb) |                 |
|             | L   | U   | N  | C  | H  |  |                 |
| 02-04<br>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<br><br>BI11.21 Demonstrate estimation of Urea in serum | AN9.2-9.3 Breast; dissection and demonstration with vertical integration with general surgery  | PY2.11k preparation of peripheral blood smear integration with pathology<br><br>BI11.21 Demonstrate estimation of Total protein in serum | PY 9.4 (1) Female reproductive system  | Physiology Tutorial  |                 |
| 04-05<br>PM |   |   |  |  | LC- Computer skills- Mr. Ashish  |  |                 |

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|-------------|---|-----------------|---|--|---|---|-----------------|
| 08-09<br>AM | Extracurricular<br>Activities   | GH              | PY 8.6<br>Introduction to<br>endocrinology<br>Mechanism of action<br>of steroid protein and<br>amine hormones   | BI3.4 Pathways of<br>carbohydrate<br>metabolism<br>(Glycolysis,<br>gluconeogenesis,<br>glycogen<br>metabolism, HMP<br>shunt Part- II)<br>(Vertical integration<br>with Medicine) | PY 8.1<br>Physiology of bone<br>and calcium<br>metabolism with<br>PTH   | AETCOM: Respect<br>to cadaver   |                 |
| 09-10<br>AM | AN10.1-10.2 Axilla  |                 | AN 10.3-10.9-<br>Brachial Plexus AN<br>Describe, identify and<br>demonstrate the<br>position, attachment,<br>nerve supply and<br>actions of trapezius<br>and latissimus dorsi | AN71.1-71.2 Bone<br>and cartilage<br>Histology   | BI3.4 Pathways of<br>carbohydrate<br>metabolism<br>(Glycolysis,<br>gluconeogenesis,<br>glycogen<br>metabolism, HMP<br>shunt Part- III)<br>(Vertical integration<br>with Medicine) | PY 9.2 Puberty  |                 |
| 10-11<br>AM | PY1.8 describe<br>and discuss the<br>molecular basis of<br>resting membrane<br>potential and<br>action potential in<br>excitable tissue |                 | <b>SK</b> – Tele<br>Medicine  | <b>SK</b> – Role of IT in<br>health ANMOL &<br>health apps   | <b>Joint<br/>sensitization<br/>program<br/>between<br/>junior &amp;<br/>senior in<br/>presence of<br/>faculty</b>   | 10.10-13-Describe<br>and identify the<br>deltoid and rotator<br>cuff muscles and<br>demonstrate<br>shoulder joint           |                 |
| 11-01<br>AM | PY2.11 I Deferential<br>Leucocyte count<br><b>Vertical integration<br/>with pathology</b><br><br>Biochem tutorial                       |                 | PY2.11 I Deferential<br>Leucocyte count<br><b>Vertical integration<br/>with pathology</b><br><br>BI1.22<br>Calculate<br>albumin/globulin<br>ratio                             | AN71.1-71.2 DOAP<br>session of<br>demonstration of<br>slides pertaining to<br>Bone and cartilage<br>Histology  |   | 10.10-13- <b>Practical</b> -<br>Demonstrate the<br>deltoid and rotator<br>cuff muscles and<br>demonstrate<br>shoulder joint |                 |
|             | <b>L</b>  | <b>U</b>        | <b>N</b>  | <b>C</b>   | <b>H</b>  |   |                 |
| 02-04<br>PM | AN10.1-10.2 Axilla;<br>practical and DOAP<br>session  |                 | AN 10.3-10.9-<br><b>Practical</b> -<br>Demonstrate the<br>Brachial Plexus and<br>position, attachment,<br>nerve supply and<br>actions of trapezius<br>and latissimus dorsi    | PY2.11 I Deferential<br>Leucocyte count<br><b>Vertical integration<br/>with pathology</b><br><br>BI1.22<br>Calculate<br>albumin/globulin<br>ratio                                | PY 9.4 (2)<br>Female reproductive<br>system PY 9.11<br>Perimenopause and<br>menopause   | Physiology<br>Tutorial  |                 |
| 04-05<br>PM |   |                 |   |  | <b>LC: English<br/>Dr Sonia Hasija</b>  |   |                 |



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| Time        | 29.03.21<br>Mon | 30.03.21<br>Tue  | 31.03.21<br>Wed  | 01.04.21<br>Thurs   | 02.04.21<br>Fri   | 03.04.21<br>Sat  | 04.04.21<br>Sun |
|-------------|-----------------|--|--|---|---|--|-----------------|
| 08-09<br>AM | <b>GH</b>       | AN 11.1-3-Describe and demonstrate muscle groups of upper limb   | 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 | BI3.4 Pathways of carbohydrate metabolism (Glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt Part- IV) (Vertical integration with Medicine)         | PY 9.6 Contraceptive methods  | <b>AETCOM – Medical ethics</b>   |                 |
| 09-10<br>AM |                 | CM1.8: Demographic profile of India and its impact on health   | AN 11.1 & 11.4- Describe triceps and the anatomical basis of Saturday night paralysis  | AN 68.1-3-Describe & Identify multipolar & unipolar neuron, ganglia, peripheral nerve   | BI3.4 Pathways of carbohydrate metabolism (Glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt Part- IV) (Vertical integration with Medicine) | PY 9.6 Contraceptive methods   |                 |
| 10-11<br>AM |                 | <b>SK – Role play for communication skill (polio) Community Med.</b>                                   | <b>SK – Role play/Skit on DOTS, Chest &amp; TB</b>   | <b>SK – Role of Yoga in Stress management</b>   | <b>Early Clinical Exposure: Biochem</b>   | AN11.6 Describe the anastomosis around the elbow joint                       |                 |
| 11-01<br>AM |                 | AN 11.1-3- <b>Practical</b> - demonstrate and identify muscle groups of upper limb                     | PY2.11 I Deferential Leucocyte count Vertical integration with pathology<br><br>BI 11.9 Demonstrate estimation of serum total cholesterol and HDL cholesterol  | AN 68.1-3- DOAP session of demonstration of slides pertaining to multipolar & unipolar neuron, ganglia, peripheral nerve                                      |   | AN11.6 <b>Practical</b> - demonstrate the anastomosis around the elbow joint |                 |
|             | <b>L</b>        | <b>U</b>   | <b>N</b>   | <b>C</b>  | <b>H</b>  |  |                 |
| 02-04<br>PM |                 | PY2.11g determination of total WBC count - Vertical integration with pathology<br><br>Biochem tutorial | AN 11.1-4 Demonstrate and identify triceps <b>Vertical Integration</b> with General surgery  | PY2.11 I Deferential Leucocyte count Vertical integration with pathology<br><br>BI 11.9 Demonstrate estimation of serum total cholesterol and HDL cholesterol | PY 9.4 Female reproductive system PY 9.11 Perimenopause and menopause   | Physiology Tutorial  |                 |
| 04-05<br>PM |                 |  |  |   | <b>LC- Computer skills- Mr. Ashish</b>  |  |                 |

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| Time        | 05.04.21<br>Mon   | 06.04.21<br>Tue   | 07.04.21<br>Wed  | 08.04.21<br>Thurs  | 09.04.21<br>Fri  | 10.04.21<br>Sat   | 11.04..21<br>Sun |
|-------------|---|---|--|--|--|---|------------------|
| 08-09<br>AM | Sports  | AN12.5-6 Identify & describe small muscles of hand. Also describe movements of thumb and muscles involved                         | PY 9.4 Female reproductive system PY 9.11 Perimenopause and menopause  | BI3.4 Pathways of carbohydrate metabolism (Glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt Part- III) (Vertical integration with Medicine)   | PY 9.4 Female reproductive system PY 9.11 Perimenopause and menopause  | <b>AETCOM -</b><br>Vaccinations for health professionals  |                  |
| 09-10<br>AM | AN12.1-04 Describe and demonstrate important muscle groups of ventral forearm with attachments, nerve supply and actions          | CM17.1 Define and describe the concept of health care to community  | AN12.7-10 Identify & describe course and branches of important blood vessels and nerves in hand  | AN 70.1-Identify exocrine gland under the microscope & distinguish between serous, mucous and mixed acini  | BI3.4 Pathways of carbohydrate metabolism (Glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt Part- III) (Vertical integration with Medicine) | PY 8.1 Physiology of bone and calcium metabolism with PTH   |                  |
| 10-11<br>AM | PY 8.6 Introduction to endocrinology Mechanism of action of steroid protein and amine hormones                                    | <b>Self Directed Learning (SDL):</b><br>Anatomy   | <b>Self Directed Learning (SDL):</b><br>Physiology   | <b>Self Directed Learning (SDL):</b><br>Biochemistry   | <b>Early Clinical Exposure: Physiology</b>   | AN12.11 Identify, describe and demonstrate important muscle groups of dorsal forearm with attachments, nerve supply and actions   |                  |
| 11-01<br>AM | PY2.11 I Deferential Leucocyte count Vertical integration with pathology<br><br>BI11.15 Describe & discuss the composition of CSF | AN12.5-6 <b>Practical -</b> Identify & Demonstrate small muscles of hand. And movements of thumb and muscles involved             | PY2.11 I Deferential Leucocyte count Vertical integration with pathology<br><br>BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including:<br>•Paper chromatography of | AN 70.1-DOAP session of slide pertaining to gland under the microscope & distinguish between serous, mucous and mixed acini  |  | AN12.11 demonstrate & Identify, demonstrate important muscle groups of dorsal forearm with attachments, nerve supply and actions <b>Vertical Integration</b> with General surgery |                  |
|             |   |   |  |  |  |   |                  |
| 02-04<br>PM | AN12.1-04 <b>Practical -</b> demonstrate important muscle groups of ventral forearm with attachments, nerve supply and actions    | PY2.11 I Deferential Leucocyte count Vertical integration with pathology<br><br>BI11.15 Describe & discuss the composition of CSF | AN12.7-10 Identify & demonstrate course and branches of important blood vessels and nerves in hand<br><br><b>Vertical Integration</b> with General surgery   | PY2.11 I Deferential Leucocyte count Vertical integration with pathology<br><br>BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including:<br>•Paper chromatography of | PY 8.1 Physiology of bone and calcium metabolism with PTH  | Physio Tutorial   |                  |
| 04-05<br>PM |   |   |  |  | <b>LC: Hindi</b><br><b>Dr Neetu</b>  |   |                  |

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| Time     | 12.04.21<br>Mon   | 13.04.21<br>Tue  | 14.04.21<br>Wed | 15.04.21<br>Thurs  | 16.04.21<br>Fri  | 17.04.21<br>Sat  | 18.04..21<br>Sun |
|----------|---|--|-----------------|--|--|--|------------------|
| 08-09 AM | Sports  | AN12.14-15 Identify & describe compartments deep to extensor retinaculum   | GH              | BI3.4 Pathways of carbohydrate metabolism (Glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt Part- IV) (Vertical integration with Medicine)              | 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 | AETCOM - Professional behavior at workplace  |                  |
| 09-10 AM | AN12.12-13 Identify & describe origin, course, relations, branches (or tributaries), termination of important nerves and vessels of back of forearm   | CM17.2-3 Describe community diagnosis, primary health care, its components and principles  |                 | AN 70.1.-Identify the lymphoid tissue under the microscope & describe microanatomy of lymph node, spleen, thymus, tonsil and correlate the structure with function | BI 3.5 regulation, functions and integration of carbohydrate along with associate diseases/disorder (Part- I) (Vertical integration with Medicine)   | 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 |                  |
| 10-11 AM | PY 9.5 Physiological effects of sex hormones  | <b>Self Directed Learning (SDL):</b><br>Anatomy  |                 | <b>Self Directed Learning (SDL):</b><br>Biochemistry   | <b>Early Clinical Exposure:</b><br>Anatomy   | AN13.1 Describe and explain Fascia of upper limb and compartments, veins of upper limb and its lymphatic drainage  |                  |
| 11-01 AM | Hematology revision<br><br>BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including: pH meter  | AN12.14-15 demonstrate & Identify compartments deep to extensor retinaculum. <b>Vertical Integration</b> with General surgery        |                 | AN 70.1.- DOAP session of slide pertaining to lymphoid tissue , lymph node, spleen, thymus, tonsil and correlate the structure with function                       |  | AN13.1 <b>Practical</b> - demonstrate & Identify explain Fascia of upper limb and compartments, veins of upper limb and its lymphatic drainage   |                  |
|          |   |  |                 |  |  |  |                  |
| 02-04 PM | AN12.12-13 demonstrate & Identify origin, course, relations, branches (or tributaries), termination of important nerves and vessels of back of forearm <b>Vertical Integration</b> with General surgery | Hematology revision<br><br>BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including: pH meter |                 | Hematology revision<br><br>BIO-Tutorial  | PY 9.5 Physiological effects of sex hormones   | Physio Tutorial  |                  |
| 04-05 PM |   |  |                 |  | <b>LC-</b> Computer skills-<br><b>Mr. Ashish</b>   |  |                  |

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| Time        | 19.04.21<br>Mon  | 20.04.21<br>Tue  | 21.04.21<br>Wed | 22.04.21<br>Thurs  | 23.04.21<br>Fri   | 24.04.21<br>Sat   | 25.04.21<br>Sun |
|-------------|--|--|-----------------|--|---|---|-----------------|
| 08-09<br>AM | Extracurricular Activities   | AN13.3 describe the elbow joint, proximal and distal radio-ulnar joints, wrist joint & first carpometacarpal joint   | GH              | BI 3.5 regulation, functions and integration of carbohydrate along with associate diseases/disorder (Part- I) (Vertical integration with Medicine) | 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 | AETCOM - First Aid  |                 |
| 09-10<br>AM | AN13.2 Describe dermatomes of upper limb   | CM17.4 Describe National policies related to health and health planning and millennium development goals/ Sustainable Development Goals                            |                 | AN 72.1-Identify the skin and its appendages under the microscope and correlate the structure with function  | BI3.6 Concept of TCA cycle as a amphibole pathways and its regulation   | 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 |                 |
| 10-11<br>AM | PY 9.8 (1) Physiology of pregnancy parturition & lactation.  | <b>Self Directed Learning (SDL):</b><br>Anatomy  |                 | <b>Self Directed Learning (SDL):</b><br>Biochemistry   | <b>Early Clinical Exposure: Biochemistry</b>  | AN13.4 Describe Sternoclavicular joint, Acromioclavicular joint, Carpometacarpal joints & Metacarpophalangeal joint   |                 |
| 11-01<br>AM | PY 3.18 Amphibian nerve muscle<br><br>BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including:<br>•Protein electrophoresis | AN13.3 <b>Practical</b> - describe the elbow joint, proximal and distal radio-ulnar joints, wrist joint & first carpometacarpal joint                              |                 | AN 72.1-DOAP session of slide pertaining to skin and its appendages under the microscope and correlate the structure with function                 |   | AN13.4 <b>Practical</b> - demonstrate & Identify Sternoclavicular joint, Acromioclavicular joint, Carpometacarpal joints & Metacarpophalangeal joint  |                 |
|             |  |  |                 |  |   |   |                 |
| 02-04<br>PM | AN13.2 <b>Practical</b> - demonstrate & Identify dermatomes of upper limb  | PY 3.18 Amphibian nerve muscle<br><br>BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including:<br>•Protein electrophoresis |                 | PY 3.18 Amphibian nerve muscle<br><br>BIO-Tutorial   | PY 9.8 (1) Physiology of pregnancy parturition & lactation.   | Physio Tutorial   |                 |
| 04-05<br>PM |  |  |                 |  | <b>LC: English</b><br><b>Dr Asha</b>  |   |                 |

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| Time     | 26.04.21<br>Mon  | 27.04.21<br>Tue  | 28.04.21<br>Wed  | 29.04.21<br>Thurs   | 30.04.21<br>Fri  | 01.05.21<br>Sat  | 02.05.21<br>Sun |
|----------|--|--|--|---|--|--|-----------------|
| 08-09 AM | Extracurricular Activities   | AN15.1 Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of anterior thigh                    | PY 8.2 Synthesis, secretion transport, physiological action, regulation and effect of altered ( hypo and hyper) secretion of pituitary gland, thyroid gland, adrenal, gland, pancreas and hypothalamus | BI3.7 Common poisons that inhibit crucial enzyme of carbohydrate metabolism (e.g.. Fluoride, arsenate) (Horizontal Integration with Physiology)         | PY 8.2 Synthesis, secretion transport, physiological action, regulation and effect of altered ( hypo and hyper) secretion of pituitary gland, thyroid gland, adrenal, gland, pancreas and hypothalamus | AETCOM – Biomedical waste management   |                 |
| 09-10 AM | AN13.8 Describe development of upper limb  | CM 4.1 Describe various methods of health education with their advantages and limitations  | AN15.2 Describe and demonstrate major muscles with their attachment, nerve supply and actions  | AN15.3-4 Describe and demonstrate boundaries, floor, roof and contents of femoral triangle  | BI3.8 interpret laboratory results of analytes associated with metabolism of carbohydrates (Vertical integration with Pathology and Medicine)  | PY 9.8 (2) Physiology of pregnancy parturition & lactation . PY9.10 Physiological basis of various pregnancy tests |                 |
| 10-11 AM | PY 9.8 (2) Physiology of pregnancy parturition & lactation . PY9.10 Physiological basis of various pregnancy tests   | <b>Self Directed Learning (SDL):</b><br>Anatomy  | <b>Self Directed Learning (SDL):</b><br>Physiology   | <b>Self Directed Learning (SDL):</b><br>Biochemistry  | <b>Early Clinical Exposure: Physiology</b>   | AN15.5 Describe and demonstrate adductor canal with its content  |                 |
| 11-01 AM | PY 3.18 Amphibian nerve muscle<br><br>BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including:<br>•Electrolyte analysis by ISE | AN15.1 <b>Practical</b> - demonstrate & Identify origin, course, relations, branches (or tributaries), termination of important nerves and vessels of anterior thigh   | PY 3.18 Amphibian nerve muscle<br><br>BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including:<br>•ABG analyzer  | AN15.3-4 <b>Practical</b> - demonstrate & Identify boundaries, floor, roof and contents of femoral triangle   |  | AN15.5 <b>Practical</b> - demonstrate & Identify adductor canal with its content                                   |                 |
|          | <b>L</b>   | <b>U</b>   | <b>N</b>   | <b>C</b>  | <b>H</b>   |  |                 |
| 02-04 PM | AN13.8 DOAP Session of slide pertaining development of upper limb  | PY 3.18 Amphibian nerve muscle<br><br>BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including:<br>•Electrolyte analysis by ISE | AN15.2 <b>Practical</b> - demonstrate & Identify major muscles with their attachment, nerve supply and actions   | PY 3.18 Amphibian nerve muscle<br><br>BI11.16 Observe use of commonly used equipments/techniques in biochemistry laboratory including:<br>•ABG analyzer | PY 8.2 Synthesis, secretion transport, physiological action, regulation and effect of altered ( hypo and hyper) secretion of pituitary gland, thyroid gland, adrenal, gland, pancreas and              | Physio Tutorial  |                 |
| 04-05 PM |  |  |  |   |  |  |                 |