



Curriculum for Medical Assistance Training Course



The State Medical Faculty of Bangladesh

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Curriculum for Medical Assistance Training Course

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1st Year

Basic Anatomy

Objectives

At the end of the Anatomy course, the students should be able to:

- Mention the basic components/ structure of human body
- Locate the different important organs through which human body maintain its normal body functions.
- Demonstrate the knowledge of anatomy which will help the students as anatomy serves as an important link to understand other basic subjects, para clinical and clinical subjects
- Demonstrate knowledge of Anatomy which will help them in professional life as an ideal medical assistantship job.

List of Competencies

Learning of Anatomy provide better understanding of human body structure and thereby mechanism of body functions. This knowledge helps as building block for better understanding of para-clinical and clinical subjects.

In the process of completing these courses students acquire the following competencies.

1. Describe the different anatomical positions and planes of the body
2. Identify cell and tissue, differentiate them, name different types of cell and tissue
3. Demonstrate the different parts of Respiratory Tract and Cardiovascular organ
4. Describe the vascular system of the body, Mention the parts of heart and circulatory system of heart
5. Locate, tonsil, spleen and lymph nodes
6. Identify the location of para-nasal sinuses
7. Describe the location of different gastro intestinal organs in different regions of abdomen
8. Identify the anatomical position of urogenital organs
9. Identify different bones, joints and muscles involved in gross movement of the body
10. State about structures of skin which enable them to take septic measures and management of superficial wound healing
11. Location of the endocrine glands responsible for important functions of the body
12. Identify important parts of brain, eyeball, ear, location and distribution of cranial nerves and important peripheral nerves.

Subject : Basic Anatomy

Contents	Learning Objectives	Training /Learning experiences		Expected hours /days	Assessment
		Teaching methods	Aids		
1. General Body Structure a. Anatomical Positions, Anatomical planes b. Cell c. Tissue d. Systems of the body	At the end of the session the students will be able to : 1. define anatomy, state different anatomical positions and planes, e.g. anterior, posterior, medial, lateral, proximal, distal, median plane, sagittal planes, coronal and transverse planes 2. draw a cell & label its structures 3. define and classify the basic tissues in the body. 4. mention the structure, distribution of the following tissue: epithelial tissue, connective tissue, muscular tissue, nervous tissue 5. name the different systems of human body	Lecture Tutorial Practical Dissection & others	Skeleton, Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteer.	<u>Total-24 hours</u> Lec.- 10 hrs Tutorial-4 hrs Practical -2 hrs Dissection & others-8 hrs	Written SAQ Oral + Practical
2. Cardio-vascular system a. Different parts of heart b. Main blood vessels of the heart c. Main blood vessels of the body	At the end of the session the students will be able to : 1. identify & demonstrate the surfaces , borders, parts, chambers of the heart. 2. mention the anatomical functions of the heart. 3. name the main arteries & veins of the heart & draw their surface marking on a living body. 4. mention the main arteries (peripheral) supplying limbs, head-neck and other important body organs (Liver, kidney, gut)	Lecture Tutorial Practical Dissection & others	Skeleton, Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	<u>Total-28 hours</u> Lec.- 10 hrs Tutorial-4 hrs Practical -4 hrs Dissection & others-10 hrs	Written (SAQ) Oral + Practical
3. Respiratory System a. Parts of respiratory Tract b. Paranasal Sinuses	At the end of the session the students will be able to : 1. Identify & mention the parts of the respiratory tract & mention their functions. 2. locate the position & functions of paranasal sinuses 3. draw & label the bronchial tree and mention their functions	Lecture Tutorial Practical Dissection & others	Skeleton, Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	<u>Total-24 hours</u> Lec-10 hrs Tutorial-2 hrs Practical -2 hrs Dissection & others-10 hrs	Written (SAQ) Oral + Practical

Subject : Basic Anatomy

Contents	Learning Objectives	Training /Learning experiences		Expected hours /days	Assessment
		Teaching methods	Aids		
4. Digestive System a. Regions of abdomen b. Parts of Alimentary Tract c. Surface Marking of gastrointestinal organs	At the end of the session the students will be able to : 1. draw & name 9 (nine) anatomical regions of the abdomen on living body (surface Marking) 2. draw & name different parts of G I tract 3. draw surface markings of the following : Stomach, Duodenum, liver, Gall bladder, Spleen, pancreas, vermiform appendix	Lecture Tutorial Practical Dissection & others	Skeleton, Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD,volunteers	<u>Total-30 hrs</u> Lec.- 12 hrs Tutorial-2 hrs Practical -4 hrs Dissection & others-12 hrs	Written (SAQ) Oral + Practical
5. Skin & Musculo-skeletal System a. Skin b. Bones c. Joints	At the end of the session the students will be able to : 1. Mention the layers of skin 2. list the functions of the skin 3. classify bones 4. name & identify main bones of the human skeleton 5. function of bones 6. classify main types of joints 7. name & identify main joints of the human body 8. identify the major muscle groups on the body as extensors, flexors, abductors, adductors	Lecture Tutorial Practical Dissection & others	Skeleton, Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	<u>Total-27 hours</u> Lec.- 11 hrs Tutorial-2 hrs Practical -2 hrs Dissection & others-12 hrs	Written (SAQ) Oral + Practical
6. URO-Genital System a. Parts of the Urinary tract b. Parts of the genital tract	At the end of the session the students will be able to : 1. draw & label the different parts of urinary system 2. draw & label the different parts of reproductive system – both male and female. 3. draw & label the different parts of right & left kidney and their relation to other structures of the body. 4. describe parts and anatomical relation/position of urethra- male/female draw the surface marking of : Kidney, ureter, bladder, vas deferens	Lecture Tutorial Practical Dissection & others	Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	<u>Total-27 hrs</u> Lec.- 11 hrs Tutorial-2 hrs Practical -2 hrs Dissection & others-12 hrs	Written (SAQ) Oral + Practical

Subject : Basic Anatomy

Contents	Learning Objectives	Training /Learning experiences		Expected hours /days	Assessment
		Teaching methods	Aids		
7. Nervous System a. Brain & its parts b. Central & Peripheral Nervous system c. Functions of Cranial nerves d. Eyes & Ear	At the end of the session students will be able to : 1. classify nervous system 2. identify following areas of the brain on a model: cerebrum, cerebellum, mid brain, pons, medulla oblongata , basal ganglia, hypothalamus, thalamus. 3. name & mention the function of cranial nerves, spinal cord 4. mention the main peripheral nerves & their surface marking 5. mention the layers of meninges. 6. name & identify structures of eye on a model. 7. identify the external, middle, internal ear & tympanic membrane.	Lecture Tutorial Practical Dissection & others	Skeleton, Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	<u>Total-24 hrs</u> Lec.- 10 hrs Tutorial-2 hrs Practical -2 hrs Dissection & others-10 hrs	Written (SAQ) Oral + Practical
8. Endocrine system a. Endocrine Glands	At the end of the session students will be able to 1. define endocrine gland 2. identify the location of pituitary glands, thyroid, adrenal glands, ovary, testis, islets of langerhans of pancreas	Lecture Tutorial Practical Dissection & others	Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	<u>Total-16 hrs</u> Lec.- 6 hrs Tutorial-2 hrs Practical -2 hrs Dissection & others-6 hrs	Written (SAQ) Oral + Practical

Basic Physiology & Biochemistry

Objectives

At the end of the Physiology and Biochemistry course, the students should be able to:

- Mention normal human body functions from cellular level to different systems of the body.
- Interpret normal composition and functions of different components and differentiate it from abnormal
- Demonstrate knowledge and skills for performing physiological and biochemical tests in abnormal conditions of the body

List of Competencies

Learning Physiology and Biochemistry provide better understanding of human body system and mechanism of body function. This knowledge helps as building block for better understanding of para-clinical and clinical subjects.

In the process of completing these courses students acquire the following competencies.

1. Explain the importance of water intake and output of the body
2. Identify patients with dehydration and oedema
3. Identify different blood corpuscles under microscope
4. Report/ notify clinical condition related to enlarged tonsil, spleen and lymph nodes
5. Measure and records important vital functions- heart rate, pulse rate, blood pressure
6. Describe the mechanism of respiration and measure & record respiratory rate
7. Mention the functions of para-nasal sinuses
8. Describe the functions of different gastro intestinal organs
9. Auscultation of intestinal movements and differentiate normal from abnormal movement of the gut.
10. Describe the physiological functions of urogenital system
11. Identify different bones, joints and muscles involved in gross movement of the body
12. Knowledge about structures of skin enable them to take septic measures and management of superficial wound healing
13. Regulation of body system by hormones released from different endocrine glands
14. Mention the role of hormones in menstrual cycle , process of lactation, intrauterine embryonic development in different trimester
15. Mention functions of brain, eyeball, ear
16. Understanding sympathetic and parasympathetic nervous system and their role in maintaining body functions
17. Describing functions of cranial nerves in performing physiological functions of the body

Subject : Physiology & Biochemistry

Contents	Learning Objectives	Training /Learning experiences		Expected hours /days	Assessment
		Teaching methods	Aids		
1. General Body Structure a. Cell b. Tissue c. Systems of the body	At the end of the session the students will be able to : 1. define physiology, define biochemistry 2. mention the functions of the cell 1. mention the functions of the following tissue: epithelial tissue, connective tissue, muscular tissue, nervous tissue 2. mention general functions of different systems of human body	Lecture Tutorial Practical	Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers.	Total-16 hours Lec.- 8hrs Tutorial-4 hrs Practical-4 hrs	Written SAQ Oral + Practical
2. Body Fluids (biochemistry) a. Types of fluid b. Intake & output of fluid Bood & Lymphatic System a. Blood & It's cells b. Lymph & lymph nodes	At the end of the session the students will be able to : 1. state the body fluid compartments and mention the composition of ECF and ICF. 2. state water turnover, daily water intake & output, describe water balance 3. define and detect dehydration & oedema At the end of the session the students will be able to : 1. state the composition & function of blood 2. state the morphological characteristics of different blood corpuscles and their functions , identify them under microscope 3. state functions of lymphatic system 4. mention the functions of tonsil, spleen & lymph nodes	Lecture Tutorial Practical	Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	Total-20 hours Lec.- 8 hrs Tutorial-6 hrs Practical-6 hrs	Written (SAQ) Oral + Practical
3. Cardio-vascular system a. Heart and it's parts b. Main blood vessels of the heart c. Main blood vessels of the body d. Blood pressure	At the end of the session the students will be able to : 1. mention the functions of the heart. 2. explain functions of arterial system, venous system, cardiac cycle 3. define cardiac output, venous return 4. measure & record heart rate, pulse rate, blood pressure	Lecture Tutorial Practical	Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	Total-20 hours Lec.- 8 hrs Tutorial-6 hrs Practical-6 hrs	Written (SAQ) Oral + Practical

Subject : Physiology & Biochemistry

Contents	Learning Objectives	Training /Learning experiences		Expected hours /days	Assessment
		Teaching methods	Aids		
4. Respiratory System a. Functions of respiratory tract and para nasal sinuses	At the end of the session the students will be able to : 1. mention the functions of upper and lower respiratory tract. 2. state the functions of paranasal sinuses 3. explain the mechanism of respiration	Lecture Tutorial Practical	Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	Total-18 hours Lec-8 hrs Tutorial-4 hrs Practical-6 hrs	Written (SAQ) Oral + Practical
5. Digestive System 1 Functions of GIT 2. Composition of different juice and enzymes secreted by organs of GIT	At the end of the session the students will be able to : 1. state the function of the various parts of gastrointestinal tract e.g. Stomach, Duodenum, liver, Gall bladder, pancreas, small intestine, vermiform appendix , large gut, rectum 2. describe the main composition of gastric juice, intestinal Juice, bile.	Lecture Tutorial Practical	Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	Total-18 hours Lec- 8 hrs Tutorial-4 hrs Practical-6 hrs	Written (SAQ) Oral + Practical
6. Digestion & Metabolism (Biochemistry) a. Digestive juice functions b. Metabolism of CHO, Fat & Protein	At the end of the session the students will be able to : 1. describe peristalsis (movement of gut) 2. Functions of Saliva, Gastric juice, pancreatic juice, intestinal juice, bile 3. out line the digestion & absorption of Protein, Fat, Carbohydrate, 4. define <ul style="list-style-type: none"> • Metabolism • Anabolism • catabolism 	Lecture Tutorial Practical	Lecture Practical demonstration	Total-22 hrs Lec-10 hrs Tutorial-6 hrs Practical-6 hrs	Written (SAQ) Oral + Practical

Subject : Physiology & Biochemistry

Contents	Learning Objectives	Training /Learning experiences		Expected hours /days	Assessment
		Teaching methods	Aids		
7. Skin & Musculo-skeletal System a.Skin b. Bones and Joints	At the end of the session the students will be able to : 1. Mention the functions of skin, bones and joints	Lecture Tutorial Practical	Skeleton Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	Total-12 hours Lec.- 6 hrs Tutorial-4 hrs Practical-2 hrs	Written (SAQ) Oral + Practical
8. URO-Genital System a. Parts of the Urinary tract b. Parts of the genital tract a. Menstrual Cycle b. Intra- uterine embryonic development in different trimester c. Mechanism of lactation	At the end of the session the students will be able to : 1. mention the function of different parts of urinary system 2. mention the function of different parts of reproductive system – both male and female. 3. describe briefly menstrual cycle. 4. name the intrauterine stages of embryonic development 5. outline the main factors that initiate and maintain process of the lactation.	Lecture Tutorial Practical	Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	Total-20 hrs Lec.- 10 hrs Tutorial-6 hrs Practical-4 hrs	Written (SAQ) Oral + Practical

Subject : Physiology & Biochemistry

Contents	Learning Objectives	Training /Learning experiences		Expected hours /days	Assessment
		Teaching methods	Aids		
9. Nervous System a. Brain & its parts b. Central & Peripheral Nervous system b. Functions of Cranial nerves c. Eye & Ear	At the end of the session students will be able to 1. 1. 1.classify nervous system 2. define followings: neuron, sensory nerve, motor nerve, nerve plexus, reflex arch, ganglion, sympathetic & para sympathetic nervous system 3. mention the function of cranial nerves, main functional areas of cerebrum, cerebellum, mid brain, pons, medulla oblongata, basal ganglia, hypothalamus, thalamus, spinal cord 4. composition & functions of cerebro-spinal fluid (CSF) 5. mention their functions of different structures of the eye ball. 6. mention the physiological functions of external middle and internal ear, tympanic membrane	Lecture Tutorial Practical	Skeleton, Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	Total-20 hrs Lec.- 8 hrs Tutorial-6 hrs Practical-6 hrs	Written (SAQ) Oral + Practical
10. Endocrine system a. Endocrine Glands b. Different hormones & their functions	At the end of the session students will be able to 1. define endocrine gland 2. name main endocrine glands and mention functions of pituitary gland, thyroid , adrenal glands, ovary, testis, islets of langerhans of pancreas 3. list the hormones of pituitary glands, thyroid adrenal glands, ovary, testis, islets of langerhans	Lecture Tutorial Practical	Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	Total-14 hours Lec.- 6 hours Tutorial-4 hours Practical-4 hours	Written (SAQ) Oral + Practical

Basic English Language Course

Objectives:

At the end of the course, the students will be able to

- read, write and listen effectively
- improve hand writing & spelling of words.
- use idioms, scientific names etc. properly including elementary knowledge of conjugation, punctuation, correction.
- do conversation in English fluently
- read, understand and interpret any reports, scientific manuals , lecture sheets, publications etc.
- write essays, summary & paragraphs on basic medical subjects/topics
- write reports of observation in the laboratory/ward/clinic or in the field

List of Competencies:

Ability to--

1. read, write and listen effectively
2. do conversation in English fluently
3. read, understand and interpret any reports, scientific manuals, lecture sheets, publications etc.
4. write essays, summary & paragraphs, on basic medical subjects/topics
5. write reports of observation in the laboratory/ward/clinic or in the field

Contents	Learning Objectives	Training /Learning experiences		Expected hours /days	Assessment
		Teaching Method	Aids		
<p>Part -I</p> <p>a. Subjects & predicate</p> <p>b. Parts of speech-</p> <ul style="list-style-type: none"> ▪ Noun & its classification ▪ Pronoun & its classification ▪ Adjective & its classification ▪ Verb-Adverb ▪ Article ▪ Tense ▪ Conjugation ▪ Preposition ▪ Punctuation (capitalization, fragment, end, comma, semi colon, colon, hyphen, underlining) ▪ Spelling ▪ Wrong words <p>c. Translation (Bengali to English, English to Bengali), short story writing, technical description, comprehension.</p> <p>d. Paragraph writing, application writing, letter writing, report writing, summary writing.</p> <p>e. Group discussion with special emphasis on present and future problems relating conversation to population and family planning, food and nutrition, environment and pollution.</p>	<p>On completion of the course the students will be able to -</p> <ol style="list-style-type: none"> i. improve hand writing, spelling of words. ii. use idioms, scientific names etc. properly including elementary knowledge of conjugation, punctuation, correction. iii. write essays, summary & paragraphs, on basic medical subjects/topics iv. understand / utilize the working manual attached with different scientific instruments and equipment/field program, lectures given by guest lecturer. v. write reports of observation in the laboratory/ward/clinic or in the field vi. <u>understand and</u> interpret the scientific manuals, publications etc. 	<p>Lecture</p> <p>Tutorial/ group discussion</p>	<p>Black Board/ Chalk</p> <p>White board/Marker</p> <p>OHP</p> <p>Transparency</p> <p>Paper</p> <p>Multimedia</p>	<p>L-40 hrs</p> <p>T-70 hrs</p>	<p>Written</p> <p>Viva</p>

Subject : Basic English Language Course

Contents	Learning Objectives	Training /Learning experiences		Expected hours /days	Assessment
		Teaching Method	Aids		
Part -II Communicative English <ul style="list-style-type: none"> ▪ Reading skill ▪ Writing skill <ul style="list-style-type: none"> - Paragraph writing : - Letter writing: - Application writing: - Report writing : ▪ Listening skill ▪ Conversations skill 	On completion of the course the students will be able to – <ul style="list-style-type: none"> • Read competently • Write correctly • Listen appropriately • Do Conversation fluently 	Lecture Practical/ Tutorial/Communication	Black board/ chalk White Board/ Marker Multi media Laptop OHP Wall chart Recorder Reading materials	L-20 hrs T-90 hrs	Written - SAQ Communicative Oral/Practical

Basic Computer Science

Objectives:

At the end of the course, the students will be able to

- show comprehensive knowledge about computer with its organization & functions
- start/Shutdown and restore.
- do opening, closing and sizing the windows.
- show skills in ms word, ms-excel, etc.
- create chart , graph, table etc.
- prepare reports of various investigations
- create & project PowerPoint slide
- install different software & programs
- do internet browsing & other applications of internet
- use different tools, shapes and drawing toolbar
- show competence in DHIS (District Health Information System)

List of Competencies:

Ability to -

1. show comprehensive knowledge about computer with its organization & functions
2. show skills in ms word, ms-excel, etc.
3. create chart , graph, table etc.
4. create & project PowerPoint slide
5. install different software & programs
6. do internet browsing & other applications of internet
7. use different tools, shapes and drawing toolbar
8. show competence in DHIS (District Health Information System)

Subject : Basic Computer Science

Contents	Learning Objectives	Training /Learning experiences		Expected hours	Assessment
		Teaching Method	Aids		
<p>Detailed Contents :</p> <ul style="list-style-type: none"> ▪ Information Technology - its concept and scope ▪ Computers for information storage, information seeking, information processing and information transmission ▪ Elements of computer system - computer hardware and software: data - numeric data, alpha numeric data; contents of program, processing. ▪ Computer organization, block diagram of a computer, CPU, memory. ▪ Input devices; keyboard, mouse etc; output devices; VDU and printer, scanner, plotter. ▪ Electrical requirements, inter-connections between units, connectors and cables. ▪ Secondary storage; magnetic disks-tracks and sectors, optical disk (CD and DVD Memory), primary and secondary memory: RAM, ROM, PROM etc. ▪ Capacity; device controllers, serial port ▪ Exercises on file opening and closing; memory management; device management and input-output (I/O) management with respect of windows. ▪ Installation concept and precautions to be observed while installing the system and software. ▪ Introduction about operating systems such as MS-DOS and Windows. ▪ Special features, various commands of MS word and MS- Excel, PowerPoint. ▪ About the internet-server types, connectivity (TCOP/IP, shell); applications of internet like: e-mail and browsing. ▪ Various Browsers like WWW (World Wide Web); hyperlinks; HTTP (Hyper Text Transfer Protocol); FTP (File Transfer Protocol). ▪ Basic of Networking -LAN, WAN, Topologies. 	<p>On completion of the course the students will be able to–</p> <ul style="list-style-type: none"> ▪ acquaint with the modern computer technology. ▪ develop skills in ms word, ms-excel, power point, internet. ▪ prepare reports of various investigations ▪ collect latest information through internet. 	Lectures	Computer, Multi media, Computer lab. Internet, White-Board Marker.	Total L-30 hrs.	Written Viva Practical

Subject : Basic Computer Science

Contents	Learning Objectives	Training /Learning experiences		Expected hours /days	Assessment
		Teaching Methods	Aids		
<p>Detailed Contents :</p> <ul style="list-style-type: none"> ▪ Identify various components of a computer and list their functions. ▪ Identification of various parts of a computer and peripherals. ▪ Practice installing a computer system by giving connection and loading the system software and application software. ▪ Installation of DOS and simple exercises on TYPE, REN, DEL, CD, MD, COPY, TREE, BACKUP commands. ▪ Exercises on entering text and data (Typing Practice). ▪ Installation of Windows 98 or 2000 etc. ▪ Features of windows as an operating system. ▪ Start, Shutdown and restore. ▪ Creating and operating on the icons. ▪ Opening, closing and sizing the windows. ▪ Using elementary job commands like - creating, saving, modifying, finding and deleting a file. ▪ Creating and operating on a folder. ▪ Changing setting like, date, time color (back ground and foreground) ▪ Using short cuts, using on-line help. <p>MS-WORD</p> <ul style="list-style-type: none"> ▪ File Management ▪ Opening, creating and saving a document, locating files, copying contents in some different file (s), protecting files, giving password protection for a file. ▪ Page set up : Setting margins, tab setting, ruler, indenting ▪ Editing a document : Entering text, cut, copy, paste using tool-bars ▪ Formatting a document: Using different fonts, changing font size and colour, changing the appearance through bold/italic/underlines, highlighting a text, changing case, using subscript and superscript using different underline methods, aligning of text in document, inserting bullets and numbering. 	<p>On completion of the course the students will be able to–</p> <p>Identify various parts and components of a computer and peripherals & list their functions.</p> <p>Install Windows, DOS and exercise on simple exercises on TYPE, REN, DEL, CD, MD, COPY, TREE, BACKUP commands</p> <p>Start/Shutdown and restore.</p> <p>Do opening, closing and sizing the windows. do elementary job commands like - creating, saving, modifying, finding and deleting a file. Creating and operating on a folder etc</p>	<p>Practical demonstrations</p>	<p>Computer, Multi media, Computer lab. Internet, White Board Marker.</p>	<p>P-20 hrs</p>	<p>Written- 50 Practical- 50</p>

Subject : Basic Computer Science

Contents	Learning Objectives	Training /Learning experiences		Expected hours	Assessment
		Teaching Methods	Aids		
<p>Detailed Contents :</p> <ul style="list-style-type: none"> ▪ Formatting paragraph, inserting page breaks and column breaks. ▪ Use of headers footers: Inserting footnote, end note, use of comments. ▪ Inserting date, time, special symbols, importing graphic images, drawing tools. ▪ Tables and Borders : Creating a table, formatting cells, use of different border styles, shading in tables, merging of cells, partition of cells, inserting and deleting row in a table. ▪ Print preview, zoom, page set-up, printing options. ▪ Using Find, Replace options. ▪ Using Tools like: Spell checker, help, use of macros, mail merge, thesaurus word content and statistics, printing envelops and labels. ▪ Using shapes and drawing toolbar. ▪ Working with more than one window in MS Word. ▪ How to change the version of the document from one windows to another. ▪ Conversion between different text editors, software and MS word. ▪ MS -Excel : Starting excel, open worksheet, enter, edit, data, formulas to calculate values, format data, create chart, printing chart, save worksheet, switching from another spread sheet ▪ Menu Commands : Create, format charts, organise, manage data, solving problem by analyzing data, exchange with other applications. Programming with MS Excel, getting information while working. ▪ Work Books : Managing workbooks (create, open, close, save) working in work books, selecting the cells, choosing commands, data entry techniques, formula creation and links, controlling calculations, working with arrays. ▪ Editing a worksheet, copying, moving cells, pasting, inserting, deletion cells, rows, columns, find and replace text, numbers of cells, formatting worksheet. 	<p>On completion of the course the students will be able to–</p> <p>Format paragraph, including use of headers footers, footnote, end note, use of comments etc.</p> <p>create tables & its details</p> <p>Use tools like: Spell checker, help, use of macros, mail merge, thesaurus word content and statistics, printing envelops and labels.</p> <p>Use shapes and drawing toolbar.</p> <p>Work with more than one window in MS Word.</p> <p>Expertise on MS – Excel, Menu Commands & Work Books</p>	<p>Practical demonstrations</p>	<p>Computer, Multi media, Computer lab. Internet, White Board Marker.</p>	<p>P-20 hrs.</p>	<p>Written</p> <p>Practical</p>

Subject : Basic Computer Science

Contents	Learning Objectives	Training /Learning experiences		Expected hours	Assessment
		Teaching Methods	Aids		
<p>Detailed Contents :</p> <ul style="list-style-type: none"> ▪ Creating a chart : Working with chart types, changing data in chart, formatting a chart, use chart to analyze data ▪ Using a list to organize data, sorting and filtering data in list ▪ Retrieve data with MS-Query: Create a pivot table, customising a pivot table. Statistical analysis of data. ▪ Customise MS-Excel : How to change view of worksheet, outlining a worksheet, customise workspace, using templates to create default workbooks, protecting work ▪ Exchange data with other application: linking and embedding, embedding objects, linking to other applications, import, export document <p>PowerPoint :</p> <ul style="list-style-type: none"> ▪ Making Slide ▪ Slide Projection <p>Internet and its applications :</p> <ul style="list-style-type: none"> ▪ Log-in to internet ▪ Navigation for information seeking on internet ▪ Browsing and down loading of information from internet ▪ Sending and receiving e-mail ▪ Creating a message ▪ Creating and address book ▪ Attaching a file with e-mail message ▪ Receiving a message ▪ Deleting message 	<p>On completion of the course the students will be able to– Create chart / graph</p> <p>Customise MS-Excel :</p> <p>Create PowerPoint : Slide following the principles of slide preparation & Slide Projection</p> <p>Expertise on Internet and its applications : Log-in to internet , Navigation for information seeking, Browsing and down loading of information, Sending and receiving e-mail, Creating a message Attaching a file with e-mail message, Receiving a message , Deleting message.</p>	<p>Practical demonstrations</p>	<p>Computer, Multi media, Computer lab. Internet, White Board Marker.</p>	<p>P-18 hrs</p> <p>P-12 hrs</p>	<p>Written Practical</p>

2nd Year

Basic Pathology & Microbiology

Objectives:

After completion of pathology & Microbiology course, the students will be able to:

- a) explain basic mechanism of diseases: Etiology, pathogenesis, morphological changes with emphasis on common diseases prevalent in Bangladesh.
- b) describe and understand the aetiopathogenesis of microbial agents such as bacteria, virus,
- c) parasite and fungi commonly prevalent in Bangladesh
- d) co-relate between clinical findings and pathological investigation.
- e) chalk out simple investigation plan for diagnosis and follow up of diseases.
- f) interpret laboratory results and understand their implication.
- g) demonstrate basic knowledge about the use of Histopathology, FNAC, Cytological examination, Pap smear, Frozen section and Immuno-histochemistry
- h) develop skills to perform
 - i. TC, DC, Eosinophil count, estimation of Hb% and ESR
 - ii. Semen analysis
 - iii. Routine examination of Urine
 - iv. Microscopic examination of body fluids
 - v. CSF examination
 - vi. Writing a requisition form for histo-pathological and cytological examination

List of Competencies to Acquire --

1. Writing a histo-pathological requisition form
2. Preservation of surgical specimens in Upozila health complexes and district hospitals and preparation of fixative for surgical specimens in 10% formalin
3. Sending of surgical specimens from Upozila health complexes and district hospitals to nearby medical college and larger hospitals where histopathology service is available
4. Preservation of cyto-pathological smears
5. Sending of cytopathology specimens from Upozila health complexes and district hospitals to nearby medical college and larger hospitals where histopathology and cytopathology service is available
6. Preservation of surgical specimens for immunohistochemistry and immunofluorescence
7. Writing a requisition form for immunohistochemistry or immunofluorescence examination
8. Determination of Hb%, ESR, TC & DC of WBC, total count of eosinophil, BT and CT, preparation of stain and comment on PBF.
9. Performing routine urinary examination at health complexes
10. Handling and maintenance of Microscope
11. Interpretation of pathology reports and data
12. Writing advice for pathological investigations
13. Perceive the etio-pathogenesis of diseases caused by microbes commonly prevalent in Bangladesh
14. Proceed for diagnosing a case caused by microbes in terms of :
 - a. appropriate specimens necessary for diagnosis
 - b. timing of specimen collection and appropriate transport
 - c. appropriate diagnostic tests to advise
15. Interpret the values of tests and the test results.
16. Provide Counseling regarding vaccination against common diseases and chemoprophylaxis

Subject : Basic Pathology & Microbiology

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room instruction	Practical /visit	Aids		
<p>General Pathology :</p> <p>A) Introduction:</p> <p>a) Introduction to different branches of pathology</p> <p>b) Definition of aetiology, morphology and pathogenesis</p> <p>B) Acute & chronic inflammation:</p> <p>a) Definition of inflammation</p> <p>b) Types of inflammation</p> <p>c) Causes of acute and chronic inflammation</p> <p>d) Morphological pattern of acute and chronic inflammation</p> <p>e) Fate of acute and chronic inflammation</p> <p>C) Anaemia:</p> <p>a) Anaemia: morphological and etiological classification</p> <p>b) Lab. diagnosis of nutritional anaemia,</p> <p>D) Haemorrhage:</p> <p>a) Definition of haemorrhage</p> <p>b) Pathophysiological causes of haemorrhage</p> <p>c) Lab investigations for haemorrhage</p> <p>E) Fissure:</p> <p>a) Definition of fissure</p> <p>b) Pathophysiological causes of fissure</p> <p>c) Lab investigations for fissure</p>	<p>A) The students will be able to</p> <p>a) describe in brief the Pathogenesis of diseases</p> <p>b) define pathology and its different branches</p> <p>c) define aetiology, pathogenesis and morphology</p> <p>B) The students will be able to-</p> <p>a) define of inflammation</p> <p>b) classify of inflammation</p> <p>c) state the causes of acute and chronic inflammation</p> <p>d) describe morphological pattern of acute and chronic inflammation</p> <p>e) describe fate of acute and chronic inflammation</p> <p>C) Anaemia: The students will be able to-</p> <p>a) define anaemia</p> <p>b) classify anaemia based on morphology and aetiology</p> <p>c) list the causes of anaemia</p> <p>d) state the laboratory investigations of anaemia</p> <p>D) Haemorrhage: The students will be able to-</p> <p>a) define haemorrhage</p> <p>b) list the pathophysiological causes of haemorrhage</p> <p>c) laboratory investigation for haemorrhage</p> <p>E) Fissure: The students will be able to-</p> <p>a) define fissure</p> <p>b) list the pathophysiological causes of fissure</p> <p>c) laboratory investigation for fissure</p>	<p>Lecture followed by Tutorial</p> <p>Do</p> <p>Do</p>		<p>Overhead Projector / Chalk board / Multimedia/ CD / Chart / Pictures</p>	<p>Lec-3 Tut-2</p> <p>Lec-6 Tut-6</p> <p>Lec8 Tut-10</p>	<p>Post session</p> <p>Written(SAQ)</p> <p>Viva & Practical</p>

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room instruction	Practical /visit	Aids		
<p>F) Fistulae: a) Definition of fistulae b) Causes of fistulae c) Lab investigations for fistulae</p> <p>G) Ischaemia: a) Definition of ischaemia b) Causes of ischaemia c) Lab investigations for ischaemia</p> <p>H) Oedema: a) Definition of oedema b) Classification of oedema c) Causes of oedema d) Lab investigations for oedema</p> <p>I) Thrombosis: a) Definition of thrombosis b) Causes of thrombosis c) Lab investigations for thrombosis</p> <p>J) Embolism: a) Definition of embolism b) Causes of embolism c) Lab investigations for embolism</p> <p>K) Shock: a) Definition of shock b) Classification of shock c) Causes of shock d) Lab investigations for shock</p>	<p>F) Fistulae: The students will be able to- a) define fistulae b) list the pathophysiological causes of fistulae c) laboratory investigation fistulae</p> <p>G) Ischaemia: The students will be able to- a) define ischaemia b) list the pathophysiological causes of ischaemia c) laboratory investigation ischaemia</p> <p>H) Oedema: The students will be able to- a) define oedema b) classify oedema c) list the pathophysiological causes of oedema d) laboratory investigation oedema</p> <p>I) Thrombosis: The students will be able to- a) define thrombosis b) list the pathophysiological causes of thrombosis c) laboratory investigation thrombosis</p> <p>J) Embolism: The students will be able to- a) define embolism b) list the pathophysiological causes of embolism c) laboratory investigation embolism</p> <p>K) Shock: The students will be able to- a) define shock b) classify shock c) list the pathophysiological causes of shock d) laboratory investigation shock</p>					

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room instruction	Practical /visit	Aids		
<p>L) Tumours: a) Definition of tumour b) Classification of tumour c) Causes of tumour d) Lab investigations for tumour</p> <p>M) Gangrene: a) Definition of gangrene b) Classification of gangrene c) Causes of gangrene d) Lab investigations for gangrene</p> <p>N) Hypersensitivity: a) Definition of hypersensitivity b) Classification of hypersensitivity c) Causes of hypersensitivity d) Lab investigations for hypersensitivity</p> <p>O) Wound repair: a) Definition of wound repair b) Causes of wound repair c) Lab investigations for wound repair</p> <p>P) Necrosis: a) Definition of necrosis b) Causes of necrosis c) Lab investigations for necrosis</p>	<p>L) Tumours: The students will be able to- a) define tumour b) classify tumour c) list the pathophysiological causes of tumour d) laboratory investigation tumour</p> <p>M) Gangrene: The students will be able to- a) define gangrene b) classify gangrene c) list the pathophysiological causes of gangrene d) laboratory investigation gangrene</p> <p>N) Hypersensitivity: The students will be able to- a) define hypersensitivity b) classify hypersensitivity c) list the pathophysiological causes of hypersensitivity d) laboratory investigation hypersensitivity</p> <p>O) Wound repair: The students will be able to- a) define wound repair b) list the pathophysiological causes of wound repair c) laboratory investigation wound repair</p> <p>P) Necrosis: The students will be able to- a) define necrosis b) list the pathophysiological causes of necrosis c) laboratory investigation necrosis</p>					

Subject : Basic Pathology & Microbiology

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room instruction	Practical /visit	Aids		
<p>A) Microbiology Introduction</p> <p>a) Brief historical background</p> <p>b) Branches of Microbiology</p> <p>c) Concept of medical biotechnology in relation to Microbiology</p> <p>d) Importance and scope of microbiology in medical science.</p>	<p>A) Microbiology: The students will be able to—</p> <p>a) describe in brief the role of micro organism in producing disease.</p>	<p>Lecture followed by Tutorial</p> <p>Do</p> <p>Do</p>	<p>Practical</p>	<p>Overhead Projector / Slides / Chalk board / Multimedia/ CD / Chart / Pictures / Practical instruments</p>	<p>Lec-2hr Tut-1hr Prac-1hr</p> <p>Lec-3hr Tut-2hr Prac-2hr</p> <p>Lec-3hr Tut-2hr</p>	<p>Post session</p> <p>Written(SAQ)</p> <p>Viva & Practical</p>
<p>B) Sterilization</p> <p>a) Definition, classification and applications of sterilization,</p> <p>b) Methods of sterilizations: details of autoclaving, hot air oven and chemical methods.</p> <p>c) Sterilization of medical equipments: Critical. Semi-critical and non-critical devices</p>	<p>B) Sterilization: The students will be able to-</p> <p>a) define sterilization, disinfection and antisepsis</p> <p>b) describe certain methods of sterilization and disinfection, and outline their application</p> <p>c) select appropriate method of sterilization in their clinical practice.</p>					

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room instruction	Practical /visit	Aids		
C) Bacteriology: Definition Classification Mode of infection Diseases produced by the following common bacteria:	C) Bacteriology: The students will be able to- a) describe in short the name of common bacteria, mode of infection & disease produced by them.					
<ul style="list-style-type: none"> • Staphylococcus • Streptococcus • Pneumococcus 		Do	Do	-Do-	Lec-3hr Tut-2hr Prac-1hr	-Do-
<ul style="list-style-type: none"> • Gonococcus • Meningococcus 		Do	Do	-Do-	Lec-2hr Tut-2hr Prac-1hr	-Do-
<ul style="list-style-type: none"> • Vibrio 		Do	Do	-Do-	Lec-1hr Tut-1hr Prac-1hr	-Do-
<ul style="list-style-type: none"> • E.coli • Salmonella • Shigella 		Do	Do	-Do-	Lec-3hr Tut-2hr Prac-1hr	-Do-

Subject : Basic Pathology & Microbiology

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room instruction	Practical /visit	Aids		
<ul style="list-style-type: none"> M.Tuberculosis M.Leprae C. Diphtheria 		Lecture & Tutorial	Practical	Overhead Projector / Slides / Chalk board / Multimedia/ CD / Pictures /instruments	Lec-4hr Tut-3hr Prac-2hr	Post session Written(SAQ) Viva & Practical
D) Virology: Definition, classification. List the medical importance virus , their spread and the diseases produced by them (including emerging and remerging virus) and their special importance to:	D) Virology: The students will be able to- a) describe in short the name of common Virus, mode of infection & diseases produced by them	-Do-	Do	-Do-	Lec-1hr Tut-1hr Prac-1hr	-Do-
<ul style="list-style-type: none"> Measls virus Influenza virus Varicella virus Herpeses virus 		-Do-	Do	-Do-	Lec-2hr Tut-2hr Prac-1hr	-Do-
<ul style="list-style-type: none"> Poliomyelitis Rota virus 		-Do-	Do	-Do-	Lec-2hr Tut-2hr Prac-1hr	-Do-
<ul style="list-style-type: none"> Hepatitis viruses 		-Do-	Do	-Do-	Lec-2hr Tut-2hr Prac-1hr	-Do-
<ul style="list-style-type: none"> Dengue virus Rabies virus 		-Do-	Do	-Do-	Lec-2hr Tut-2hr Prac-1hr	-Do-
<ul style="list-style-type: none"> HIV virus Flu viruses 		-Do-	Do	-Do-	Lec-2hr Tut-2hr Prac-1hr	-Do-
E) Mycology: Definition, classification of fungus, common superficial fungus & diseases produced by them	E) Mycology: The students will be able to- a) describe the common superficial fungal diseases and superficial candidial infections in short	-Do-	Do	-Do-	Lec-2hr Tut-2hr Prac-1hr	-Do-

Subject : Basic Pathology & Microbiology

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room instruction	Practical /visit	Aids		
F) Parasitology: Introduction Classification Mode of infection Name of disease produced by the following common parasites:	F) Parasitology: Introduction The students will be able to- a) describe in short the name of common parasites, mode of transmission	Lecture & Tutorial		Overhead Projector / Slides / Chalk board / Multimedia/ CD / Chart / Pictures	Lec-2hr Tut- 4hr	Post session Written(SAQ) Viva & Practical
<ul style="list-style-type: none"> Entamoeba histolytica Malairial parasites 		-Do-	Practical	-Do-	Lec-2hr Tut-2hr Prac-1hr	-Do-
<ul style="list-style-type: none"> Giardia Lambia Trichomonus vaganalis 		-Do-	Practical	-Do-	Lec-1hr Tut-2hr Prac-1hr	-Do-
<ul style="list-style-type: none"> Leishmania Donovanii 		-Do-	Practical	-Do-	Lec-1hr Tut-2hr Prac-1hr	-Do-
<ul style="list-style-type: none"> A.L A.D E.V T.T 		-Do-	Practical	-Do-	Lec-2hr Tut-4hr Prac-1hr	-Do-
<ul style="list-style-type: none"> Wuchereia bancrofti (micro filarial) 		-Do-		-Do-	Lec-1hr Tut-2hr Prac-1hr	-Do-

Subject : Basic Pathology & Microbiology

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room instruction	Practical /visit	Aids		
G) Clinical Laboratory : <ul style="list-style-type: none"> Blood 	G) Clinical Laboratory : The students will be able to- a) perform Hb., ESR, T.C, D.C, M.P	Tutorial	Practical	Overhead Projector / Slides / Chalk board / Multimedia/ CD / Pictures / practical instruments / Reagents	Tut-6hrs Prac-7hrs	Post session Written (SAQ) Viva & Practical
<ul style="list-style-type: none"> Urine : 	The students will be able to— Perform : a) Physical examination b) Chemical examination : Sugar, Albumin, Reaction c) Microscopic examination: Puscel, R.B.C. Epithelial cell, Trichomonus	Tutorial	Practical	-Do-	Tut-6hrs Prac-7hrs	-Do-
<ul style="list-style-type: none"> Stool : 	The students will be able to— Perform : a) Physical examination : Blood, Mucus, worms, colour, odour b) Chemical examination: Reaction, occult blood test c) Microscopic examination: Pus cell, R.B.C Cyst & Trophozoits of : E.H E. coli Giardia	Tutorial	Practical	-Do-	Tut-6hrs Prac-7hrs	-Do-
	Ova of : A.L. A.D. T.T E.V					

Basic Pharmacology

Objectives:

At the end of the Basic Pharmacology course, the students should be able to:

- Describe safe and effective prescription of drugs
- Identify /recognize and report the adverse drug reactions
- Mention the list of essential drugs allowed to prescribe by Medical Assistant
- State how to manage in case of emergency by providing emergency medication or administering injections per doctors' advice.

List of Competencies to Acquire:

1. Basic pharmacodynamics (Therapeutic dose) for safe & effective prescribing as per country's rule applicable for medical assistant.
2. Adverse drug reaction (toxic effects, side effects)- recognize them & referred to physician (Reporting)
3. Prescription writing (choosing safe & effective drugs & appropriate dosage formulations)
4. Preparation of ORS
5. Concept of essential drugs and selection of essential drug list for use in community based health care services
6. Ethics of prescribing: informed patient consent about disease, treatment given and alternative options available
7. Give patients injections or medications per doctors' orders

Subject : Basic Pharmacology

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room instruction	Practical /visit	Aids		
1. Basic Concept of Pharmacology	At the end of learning session the students will be able to :	Lecture Group Discussion	Practical	Chalk duster & Audio visual OHP Materials / Multimedia	Lec-8hrs	Post Session Written Test and Viva
	1. define and give example Pharmacology Pharmacy Drugs Dose Therapeutic dose Toxic dose Tolerance Addiction Habituation Drug dependency Side effects Toxic effects Solution Mixture Syrup Ointments Capsules Tablets				Tutorial - 8hrs Practical- 2hrs Visit (hospital dispensary) -4hrs	
	2. Routes of Administration of drugs with their advantages and disadvantages.	Lecture		Chalk duster & OHP/White board with marker , duster	Lec-6 hrs Tuto-6 hrs	
	3. Give the different naming of drugs with example	Lecture		Chalk duster & OHP /	Prac-2 hrs	
4. Outline some factors which influence the action of drugs	Lecture	Chalk duster & OHP				

Subject : Basic Pharmacology

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room instruction	Practical /visit	Aids		
Basic Concept of Pharmacology	Students must be able to : <ul style="list-style-type: none"> - Give the Pharmacological names : - State the Types of dosages formulation - List their main actions - State their normal absorption and exertion of drugs - State their indications, contraindications and side effects - List of essential drugs for union and upazila level should be included in 13+33 drugs respectively 	Lecture Class Followed by Tutorial, group discussion Question- answers and feed back		Chalk duster & OHP/ Multi media		In Course Assess ment Writte n Test (SAQ) Viva
2. Essential drugs in groups. <ol style="list-style-type: none"> i. Antiseptic /Disinfectant <ul style="list-style-type: none"> - Gention violet - Acriflavin - Potasium Permanganate - Chlorhexidine ii. Analgesic, Anti Pyretics and Non Steriodal Anti inflammatory drugs <ul style="list-style-type: none"> - Asprin - Paracetamol - Pethidine iii. Anti spasmodic <ul style="list-style-type: none"> - Atropine - Hyocine N-Butyl Bromide 				Lec- 42hrs Tuto- 44hrs Prac-4 Visit (hospit al dispen sary)- 4hrs		

Subject : Basic Pharmacology

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room instruction	Practical /visit	Aids		
iv. Antacid <ul style="list-style-type: none"> - Aluminium Hydroxide - Magnesium Hydroxide - Magnesium Trisilicate 						
v. Haematinics- <ul style="list-style-type: none"> ✓ Ferrous sulphate ✓ Folic Acid 						
vi. Anti-Helmintics <ul style="list-style-type: none"> - Mebendazole - Albendazole - Pyrental pamoate 						
vii. Anti-Malarial <ul style="list-style-type: none"> - Chlorquine - Quinine - Sulphadoxine +Pyrimethamine 						
viii. Anti Amoebic <ul style="list-style-type: none"> - Metronidazole 						
ix. Electolyte and I/V fluids <ul style="list-style-type: none"> O.R.S I/V fluid of various strength Dextrose aqua/ Dextrose saline , cholera saline 						
x. Bronchodilators- salbutamol, aminophylline						
xi- diuretics <ul style="list-style-type: none"> - Frusemide - Thiazide 						
xii. Antipsychotic drug <ul style="list-style-type: none"> - Chlorpromazine 						
xiii. Hypnotic and Sedative <ul style="list-style-type: none"> - Phenobarbitone Diazepam 						

Subject : Basic Pharmacology

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room instruction	Practical /visit	Aids		
xiv. Antimicrobial - Phenoxymethyl Penicillin - Procanie Penicillin - Ampicillin - Amoxicillin - Cloxacillin - Tetracycline - Co-Trimoxazole, - Ciprofloxacin xv. Anti-Histamines - Chlorpheniramine - Pro methazine HCl xvi. Anti-Scabics - Benzyl-benzoate - Tetmosol xvii. Anti-Fungal - Benzoic Acid+Salicylic Acid - Griseofulvin xviii. Local Anesthetics - Lignocane 2% with or with out adrenaline xix. Hypotensive - Methyldopa, amodipine - Propanolol, atenolol xx. Ecboolic - Ergometrin - oxitocin xxi. Contraceptives - Oral contraceptives - emergency pill						

Subject : Basic Pharmacology

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room instruction	Practical /visit	Aids		
xxii. Vaccines <ul style="list-style-type: none"> - BCG - DPT - TT - Polio - Measles - Hepatitis B vaccine - Influenza vaccines xxiii. Vitamins and trace elements <ul style="list-style-type: none"> - Vit-A - Vit-B Complex - Vit-C - Vit-D - Vit-E - Zinc xxiv. Cortico-Steroid <ul style="list-style-type: none"> - Dexamethasone - Prednisolone 						
3. Prescription Writing 4. Preparation of ORS	At the end of the session the students will be able to : <ol style="list-style-type: none"> 1. Write and ideal prescription of diseases that includes under primary health care e.g. diarrhoea, ARI, Scabies, Ringworm, minor wound infection. 2. Student should know how to prepare O.R.S 	Lecture class and Tutorial class		Black Board Audiovisual aid & materials	Lec-2 Tut-2 hrs Pra-2hrs Visit (hospital dispensary)- 2hrs	Post session written and viva

3rd Year

Basic Community Health & Medical Ethics

Objectives:

At the end of the course, the students should be able to:

- a) provide comprehensive health care to the people
- b) deliver primary auxiliary health care and essential services package
- c) help for organise health education sessions in the community / OPD
- d) provide as auxiliary health care work force with appropriate attitudes
- e) work as a member of health team

List of Competencies to Acquire :

1. Identify health needs and problems of the community and prioritise those.
2. Take measures to meet health needs and problems
3. Provide comprehensive health care to the community
4. Organize health education sessions at the level of community
5. Collect and compile socio-demographic data from the community
6. Manage mass causality incident
7. Conduct community based research work and write report
8. Outline the population trends and problems and its impacts in Bangladesh
9. The importance of doctor /nurse patient relationship
10. Take measures to prevent mal-practices and criminal mal practices
11. Ensure professional secrecy, acquire privileged communication and patients' rights
12. Understand about the job descriptions of different health professionals

Subject : Basic Community Health & Medical Ethics

Contents	Learning Objectives	Training /Learning experiences		Expected hours	Assessment
		Teaching Methods	Aids		
<p>1. Introduction to Community Health</p> <p>i. Health : Definition and determinants of Health</p> <p>ii. Disease : Definition, agents of diseases, Interaction between “host, agent and environment”</p> <p>iii. Define : Medicine, Hygiene, Public Health, Preventive Medicine, Social Medicine</p> <p>iv. Community: Definition, comprehensive health team</p>	<p>At the end of the session the MATS students will be able to :</p> <ul style="list-style-type: none"> ▪ define the terms mentioned in the contents ▪ explain the interaction between agent, host and environment. 	<p>Lecture</p> <p>Tutorial/Group discussion</p>	<p>Model,</p> <p>Picture/ charts</p> <p>Posters</p> <p>Multimedia</p> <p>OHP</p> <p>White board</p> <p>Chalk board</p>	<p>L-7 hrs</p> <p>Tutorial/ group discussion - 7 hrs</p>	<p>Written</p> <p>Viva</p>
<p>b. Community Health; Definition, components, community health care system</p> <p>c. Primary Health Care (PHC); Definition, principles, components, concept of ‘health for all (HFA)’.</p>	<p>At the end of the session the students will be able to :</p> <ul style="list-style-type: none"> ▪ define the terms mentioned in the contents ▪ describe the community health care system ▪ describe the components and principles of PHC ▪ state the concept of HFA 	<p>Lecture</p> <p>Tutorial/Group discussion</p>	<p>Model,</p> <p>Picture/ charts</p> <p>Posters</p> <p>Multimedia</p> <p>OHP</p> <p>White board</p> <p>Chalk board</p>	<p>L-7 hrs</p> <p>Tutorial/ group discussion - 7 hrs</p>	<p>Written</p> <p>Viva</p>

Subject : Basic Community Health & Medical Ethics

Contents	Learning Objectives	Training /Learning experiences		Expected hours	Assessment
		Teaching Methods	Aids		
2. Environmental Health a. Introduction b. Water c. Human excreta/waste d. Air e. Climate change f. Insects of Medical importance g. Personal Hygiene	At the end of the sessions the students will be able to : <ul style="list-style-type: none"> ▪ define environments & other factors related to it ▪ explain the importance of influence of climate change on health of the community ▪ explain the importance of influence of various environmental factors on health of the community 	Lecture Tutorial/Group discussion Field visit	Model, Picture/ charts/ Posters Multimedia OHP White board Chalk board Exposure to community	L-12 hrs T-12 hrs Visit-10 hrs	Written Viva Practical demonstration by students
3. Introduction to Epidemiology & Demography <ul style="list-style-type: none"> ▪ Concept of Epidemiology & its uses ▪ Definition of incidence & prevalence ▪ Definition and components of Demography ▪ Population trends and problems and its impact in Bangladesh 	At the end of the sessions the students will be able to : <ul style="list-style-type: none"> ▪ define epidemiology & its use ▪ define incidence and prevalence of disease ▪ define demography and its components ▪ outline the population trends and problems and its impacts in Bangladesh 	Lecture Tutorial/Group discussion	Model, Picture/ charts/ Posters Multimedia OHP White board Chalk board	L-5 hrs T-5 hrs	

NOTE: Field visit should be completed after completion of the specific topic and should take place under supervision of concerned teacher and the total process will be supervised by the principal of the institute

Subject : Basic Community Health & Medical Ethics

Contents	Learning Objectives	Training /Learning experiences		Expected hours	Assessment
		Teaching Methods	Aids		
<p>4. Food & Nutrition</p> <p>a. Concept of food & nutrition</p> <p>b. Proximate Principle of food</p> <p>c. Sources, requirements & functions of different kinds of foods</p> <p>d. Concept of ‘balanced diet’</p>	<p>At the end of the session the students will be able to :</p> <ul style="list-style-type: none"> ▪ define food & nutrition ▪ list of sources, requirement, function, classification of protein, fat, carbohydrate, minerals and vitamins ▪ define balanced diet 	<p>Lecture</p> <p>Tutorial/Group discussion</p> <p>Field visit</p>	<p>Model,</p> <p>Picture/ charts/ Posters</p> <p>Multimedia</p> <p>OHP</p> <p>White board</p> <p>Chalk board</p> <p>Exposure to community</p>	<p>L-5 hrs</p> <p>T-5 hrs</p> <p>Visit-10 hrs</p>	<p>Written</p> <p>Viva</p> <p>Practical demonstration by students</p>
<p>5. Maternal & Child Health and Family Planning ;</p> <p>a) MCH</p> <ul style="list-style-type: none"> ▪ Concepts of MCH & reproductive health ▪ Causes of Maternal & infant mortality ▪ Prevention of Maternal & infant mortality ▪ Breast feeding ▪ EPI <p>b. Family Planning :</p> <ul style="list-style-type: none"> ▪ Definition of Family Planning ▪ Contraception & its methods (Types, Merits & demerits) ▪ Importance of Family Planning in context of Bangladesh 	<p>a. MCH</p> <p>At the end of the session the MATS students should be able to know-</p> <ul style="list-style-type: none"> ▪ define & explain the importance of MCH ▪ explain the importance of Breast feeding and its merits in contrast to artificial feeding ▪ educate mother regarding EPI <p>b. Family planning</p> <ul style="list-style-type: none"> ▪ define family planning ▪ list methods of contraception and mention merits & demerits of each ▪ describe the importance of family planning in context of Bangladesh. 			<p>L-10 hrs</p> <p>T-10 hrs</p> <p>Visit-10</p>	

Subject : Basic Community Health & Medical Ethics

Contents	Learning Objectives	Training /Learning experiences		Expected hours /days	Assessment
		Teaching Methods	Aids		
6. Behavioural Science a. Concepts & component of behavioural science b. Human interpersonal communication	At the end of the session the students will be able to : <ul style="list-style-type: none"> ▪ define & list the components of behavioural science ▪ describe the importance of doctor /nurse patient relationship 	Lecture Tutorial/Group discussion Field visit	Model, Picture/ charts/ Posters Multimedia OHP White board Chalk board Exposure to community	L-6 hrs T-6 hrs Visit-8 hrs	Written Viva
7. Health Education a. Concept, Principles & Methods of Health Education	At the end of the session the students will be able to : <ol style="list-style-type: none"> a. define health education b. explain the principles of health education c. describe the methods of health education 	Lecture Tutorial/Group discussion Field visit	Model, Picture/ charts/ Posters Multimedia OHP White board Chalk board Exposure to community	L-6 hrs T-6 hrs Visit-8 hrs	Written Viva
8. Mental Health a. Concepts of mental Health b. Factors causing mental illness	At the end of the session the students will be able to : <ul style="list-style-type: none"> ▪ define mental health ▪ list the indicators & common factors causing mental health 	Lecture Tutorial/Group discussion Field visit	Model, Picture/ charts/ Posters Multimedia OHP White board Chalk board Exposure to community	L-6 hrs T-6 hrs	Written Viva

Subject : Basic Community Health & Medical Ethics

Contents	Learning Objectives	Training /Learning experiences		Expected hours /days	Assessment
		Teaching Methods	Aids		
9. Occupational Health a. Definition b. Common occupational health problems at rural level c. Prevention of occupational problems	At the end of the session the students will be able to : <ul style="list-style-type: none"> • define occupational health • describe the common occupational health problems at rural level • mention prevention of occupational problems 	Lecture Tutorial/Group discussion Field Visit	Model, Picture/ charts/ Posters Multimedia OHP White board Chalk board Exposure to community	Lec- 3hrs Tuto-3 hrs Visit-6 hrs	Written Viva
10. Introduction to Bangladesh Health Service a. Organogram of Bangladesh Health Services services from Ministry of Health Service Division to Directorate General Health Services (DGHS) and Ministry of Medical Education & Family Welfare Service Division to Directorate General Medical Education (DGME) b. Organogram of Bangladesh Health Services services from Union Health Sub-Center (UHSC)/ Union Health and Family Planning Center (UHFPC) up to DGHS or DGME c. Organisation chain of supervision from upazila & below up to community clinic.	At the end of the session the students will be able to : <ul style="list-style-type: none"> ▪ Mention the organogram of Bangladesh health services from Ministry of Health Service Division to Directorate General Health Services (DGHS) and Ministry of Medical Education & Family Welfare Service Division to Directorate General Medical Education (DGME) ▪ Mention the organogram of Bangladesh health services from Union Health Sub-Center (UHSC)/ Union Health and Family Planning Center (UHFPC) up to DGHS or DGME ▪ Mention the organogram of UHC and below up to community clinic. ▪ List the job description of UHFPO, MO, RMO, UFPO, MA, FWV, FPA, , CHCP, FWA, HA and other field staff ▪ Mention the chain of supervision from upazilla to below up to community clinic 	Lecture Tutorial/Group discussion Field visit	Model, Picture/ charts/ Posters Multimedia OHP White board Chalk board Exposure to community	Lec- 8hrs Tuto-8 hrs Visit-16 hrs	Written Viva

Subject : Basic Community Health & Medical Ethics

Contents	Learning Objectives	Training /Learning experiences		Expected hours	Assessment
		Class-room	Aids		
Medical Ethics 1. Medical ethics, Geneva, Declaration 2. Central areas of health ethics <ul style="list-style-type: none"> ▪ The health care providers and patient relationship ▪ Fairness and equity ▪ Specific health issue 3. Components of Health service provider & patient relationship – <ul style="list-style-type: none"> ▪ Patient autonomy ▪ Informed consent 4. Medical Etiquette 5. Professional infamous conduct 6. Professional secrecy 7. Negligence 8. Mal practices (Professional Negligence) 9. Criminal mal practices or criminal professional negligence 10. Patient rights	At the end of the course the student will be able to – <ul style="list-style-type: none"> ▪ define medical ethics ▪ state the Geneva declaration ▪ name the central areas of health ethics ▪ explain the difficult components of health care providers are patient relationship ▪ explain patient autonomy ▪ explain informed consent ▪ explain fairness the equity in providing services ▪ define medical etiquette ▪ list and explain the professional infamous conducts ▪ define mal-practices and criminal mal practices ▪ describe professional secrecy, and privileged communication ▪ patients rights state 	Lecture Tutorial/Group discussion	OHP Multimedia Video Chalk board White board	L-15 L-15	Written Viva

NB: Three months (12 weeks) placement at attached Upazilla Health Complex at Indoor, Outdoor, Emergency and ongoing health programmes

Basic Community Medicine & Health Management

Objectives:

At the end of the course, the student should be able to-

- provide promotive, preventive, and first line curative care to the community.
- identify health needs and health problems to serve the demands of the community.
- provide comprehensive health care to the community.
- deliver primary health care and essential services package.
- organize health education program in the community.
- work as a member of health team.
- co-ordinate with national and international health organizations and national health programs.
- Conduct community based research work.

List of competencies to Acquire-

1. Identify community health problems and health needs.
2. Categories health problems.
3. Take measure to fulfill the demand of the community.
4. Deliver primary health care and ESP to the community and help to achieve SDGs.
5. Provide comprehensive health care to the community.
6. Incorporate community awareness programs at the level of the community.
7. Collect, compile, interpretation, presentation and use of data from the community.
8. Formulate different registers and ledgers as per GOVT instruction.
9. Conduct community based research work and report writing.
10. Conduct field staff through monitoring and supervision.

Subject : Basic Community Medicine & Health Management

Classes will be started from the beginning of 2nd year and summative examination will be held at end of 3rd year

Group-A:

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room instruction	Practical /visit	Aids		
1. Introduction to Community Medicine : 1. Definitions 2. Communicable Diseases. 3. Non communicable Diseases.	At the end of learning session the students will be able to - a. define Community Medicine, preventive medicine, community, Communicable diseases, non communicable diseases, diseases, health ii. explain the terms-endemic, epidemic, pandemic, sporadic, reservoir, transmission, intermediate & definite host, carriers, susceptibility, resistant immunity, vector, infection, infestation, control, eradication, disinfection, quarantine, notification, contact, isolation, fomites, surveillance, defaulter, droplets, vector, control & transmission. iii. describe the routes of transmission, prevention and control of communicable diseases. iv. explain epidemiological triad in causation of diseases.	Lecture Group Discussion		Audio-visual Board	Lec-6hrs Tuto-6hrs	Post session Written (SAQ) Viva
2. Contact Diseases Scabies, ring worm, candidiasis (Oral & Vaginal), Conjunctivitis	At the end of learning session the students will be able to - i. describe the causative agents and factors related to etiologic & transmission ii. differentiate the disease in a patient by Symptoms & signs. iii. state the drug treatment iv. enumerate prevention and control	Lecture Group Discussion	Case Demonstration	Audio-visual Board Picture Exposure to community / hospital	Lec-3hrs Tuto-3hrs Visit-3hrs	Post session Written (SAQ) Viva & Diagnosis and management of cases in Ward + community

* Visit= In hospital / Laboratory

Subject : Basic Community Medicine & Health Management

Group: A

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room instruction	Practical /visit	Aids		
<p>3. Sexually transmitted disease (STD)</p> <p>Trichomoniasis, gonorrhoea, syphilis, AIDS</p>	<p>At the end of learning session the students will be able to :</p> <p>i. describe the causative agents and social factors related to transmission</p> <p>ii. diagnosis the diseases by the signs & symptoms</p> <p>iii. state the drug treatment</p> <p>iv. enumerate prevention and control</p>	<p>Lecture Group Discussion</p>	<p>Case Demonstration</p>	<p>Audio-visual Board Picture Exposure to community/ hospital</p>	<p>Lec-3hrs Tuto-3hrs Visit-4hrs</p>	<p>Post session Written (SAQ) Viva & Diagnosis and management of cases in Ward + community</p>
<p>4. Diseases from animals (Zoonosis)</p> <p>Rabies.</p>	<p>At the end of learning session the students will be able to :</p> <p>i. describe the causative agents, transmission & clinical signs</p> <p>ii. describe in detail the preventive measure</p>	<p>Lecture Group Discussion</p>	<p>Case Demonstration</p>	<p>-Do-</p>	<p>Lec-2hrs Tuto-2hrs Visit-4hrs</p>	<p>-Do-</p>
<p>5. Faecal & water borne Disease :</p> <p>(Exclusive Helminthiasis):- Diarrhoeal Diseases, Dysenteries Cholera Typhoid Food poisoning Poliomyelities, viral Hepatitis (A & E)</p>	<p>At the end of learning session the students will be able to :</p> <p>i. describe the causative agents, transmission, clinical features, and complication</p> <p>ii. assess dehydration</p> <p>iii. categorise the main regime of management</p> <p>iv. describe the preventive & control measures</p>	<p>Lecture Group Discussion</p>	<p>Case Demonstration</p>	<p>-Do-</p>	<p>Lec-8hrs Tuto-8hrs Visit-8hrs</p>	<p>-Do-</p>

*visit = In hospital/Laboratory

Subject : Basic Community Medicine & Health Management

Group: A

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room instruction	Practical /visit	Aids		
Arsenicosis	At the end of learning session the students will be able to : i. mention the prevalence in Bangladesh ii. describe the cause, predisposing factors and transmission iii. diagnose the cases by signs & symptoms iv. explain the methods of control, prevention, survey and follow up v. state the standard methods of management and problem included in prevention	Lecture Group Discussion	Case Demonstration	Audio-visual Board Picture Exposure to community / hospital Video	Lec-6hrs Tuto-6hrs Visit-6hrs	Post session Written (SAQ) Viva & Diagnosis of management of cases in Ward + community

* Visit= In hospital / Laboratory

Subject : Basic Community Medicine & Health Management

Group: A

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room instruction	Practical /visit	Aids		
<p>6. Helminthiasis</p> <p>Hookworm, Ascariasis, Enterobiasis Strongyloidiasis Trichuriasis Taeniasis</p>	<p>At the end of learning session the students will be able to :</p> <p>i. explain the parasite, its life cycle and transmission</p> <p>ii. describe the clinical features, complications and treatment</p> <p>iii. mention the control and preventive measures</p>	<p>Lecture Group Discussion</p>	<p>Case Demonstration</p>	<p>Audio-visual Board Picture Exposure to community / hospital Video</p>	<p>Lec-8hrs Tuto-8hrs Visit-8hrs</p>	<p>Post session Written (SAQ)</p> <p>Viva & Diagnosis of management of cases in Ward + community</p>
<p>7. Infectious diseases</p> <p>Respiratory Tract infection (ARI), Pneumonia, meningitis, chicken pox, common cold, Influenza , Mumps, Swine flu.SARS(covid-19)</p> <p>EPI activities: BCG, DPT, OPV, Measles, TT, Hepatitis B, Hib.</p>	<p>At the end of learning session the students will be able to :</p> <p>i. state the cause, transmission and predisposing factors</p> <p>ii. diagnose the cases by clinical signs and symptoms</p> <p>iii. diagnose early, know first line of treatment and refer properly</p> <p>iv. state the main methods of prevention & control</p> <p>v. state the immunization schedule (WHO)</p>	<p>Lecture Group Discussion</p>	<p>Case Demonstration</p>	<p>-Do-</p>	<p>Lec-8hrs Tuto-8hrs Visit-8hrs</p>	<p>-Do-</p>

Subject : Basic Community Medicine & Health Management

Group: A

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room instruction	Practical /visit	Aids		
8. Vector Borne Disease : Malaria Dengue Filaria Kala-azar	At the end of learning session the students will be able to : i. describe the life cycle (Malaria Specially) and causative organism and mode of transmission ii. state the main reservoir of infection iii. diagnose the cases by signs & symptoms iv. state the management v. mention the methods of control and prevention vi. define arthropods and classify arthropods of medical importance. vii. define insecticides and use of specific insecticides.	Lecture Group Discussion	Case Demonstration	Audio-visual Board Picture Exposure to community / hospital Video	Lec-6hrs Tuto-6hrs Visit-6hrs	Post session Written (SAQ) Viva & Diagnosis of management of cases in Ward + community
9. Chronic infections diseases : Tuberculosis Leprosy	At the end of learning session the students will be able to : i. state the prevalence in Bangladesh ii. describe the cause, predisposing factors and transmission iii. diagnose the cases by signs & symptoms iv. explain the interpretation of tuberculin test and BCS v. mention the methods of control, prevention, survey and follow up vi. list the standard methods of management and problem included in control & treatment	Lecture Group Discussion	Case Demonstration	-Do-	Lec-3hrs Tuto-3hrs Visit-4hrs	-Do-

* Visit = Infectious disease Hospital

Subject : Basic Community Medicine & Health Management

Group: A

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room instruction	Practical /visit	Aids		
10. General principle of management	<p>At the end of learning session the students will be able to :</p> <ul style="list-style-type: none"> i. define management, component of management, function of management. ii. define planning , planning cycle, organising, leading, controlling. iii. definition of manager, type of manger, quality of a good manager iv. define emergency & disaster, management of disaster & disaster management team v. definition of Hospital, describe the Hospital functions (clinical & nursing & MA service, supportive, general management & Utility function) vi. type & category Hospitals 	<p>Lecture Group Discussion</p>	<p>Role play Field visit</p>	<p>Audio-visual Board Exposure to community / hospital Video</p>	<p>Lec-8hrs Tuto-8hrs</p>	<p>Post session Written (SAQ)</p> <p>Viva & Observing activities in organisation of team performing task</p>

Subject : Basic Community Medicine & Health Management

Group: B

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room instruction	Practical /visit	Aids		
<p>11. Administration : Public Health a) Principles of administration b) Collection, compilation, interpretation, presentation & use of health data. c) Preparation of different registers and ledgers as per Govt. Proforma: d) technique of official correspondences e) Medical record keeping</p>	<p>At the end of learning session the students will be able to :</p> <p>define public health, what is the dimension of health indicators of health. (Physical, Mental, Social & spiritual)</p> <ol style="list-style-type: none"> 1. explain the principles of administration 2. prepare and maintain different registers 3. collect, compile, interpret, use and display health data and send report of those to the supervising authority 4. maintain attendance of staff and staff disciplines, leave registers etc 5. make office correspondence 6. prepare and forward activity reports and display those in chart in the centre 7. prepare indent for logistic supplies, procedures and maintains stock ledgers 8. define importance and maintenance of medical record keeping 	<p>Lecture Group Discussion</p>	<p>Practical demonstration Field visit Role play</p>	<p>Audio-visual Board Exposure to community / hospital Sample</p>	<p>Lec-3hrs Tuto-3hrs Visit-8hrs</p>	<p>Post session Written(SAQ) Viva & Observing activities in organisation of team performing task</p>

Subject : Basic Community Medicine & Health Management
Group: B

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room instruction	Practical /visit	Aids		
12. Supervision a) Purpose & functions of supervision b) Qualities of a good supervisor c) Requirements and methods of supervision	At the end of learning session the students will be able to : 1. explain the purpose and function of supervision 2. supervise the field staff 3. assess the progress of work	Lecture Group Discussion	Field visit Role play	Audio-visual Board Exposure to community / hospital	Lec-2hrs Tuto-2hrs Visit-4hrs	Post session Written (SAQ) Viva & Observing activities in organisation of team performing task
13. Health team & leadership a) Composition and function of health team b) How to establish good relations with community people	At the end of learning session the students will be able to : 1. explain the compositions and functions of health team 2. organise a health team for community health task 3. establish good relation with community people 4. co-ordinate the activities of a health team 5. mention the quality of a good leader	Lecture Group Discussion	Practical demonstration Field visit Role play	Audio-visual Board Exposure to community / hospital Sample	Lec-2hrs Tuto-2hrs Visit-4hrs	-DO
14. Communication Skill 1. Definition Purpose & major elements 2. Types & methods 3. Barriers	At the end of learning session the students will be able to : 1. define communication & explain its purpose 2. list & explain the major elements of communication 3. name & explain the main barriers of communication 4. prepare and use appropriate methods of communication in his/her working situation	Lecture Group Discussion	Field visit Role play	Audio-visual Board Exposure to community / hospital	Lec-2hrs Tuto-2hrs Visit-4hrs	-DO

Subject : Basic Community Medicine & Health Management

Group: B

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room instruction	Practical /visit	Aids		
<p>15. Primary Health Care:</p> <p>a. Concept of Health for all by the year of 2000 AD.</p> <p>b. Concept of Primary Health care</p> <p>c. Level of health care in context of Bangladesh</p> <p>d. Components & principles of PHC</p> <p>e. Community Health Problems</p> <p>f. Community participation & integrated approach of PHC</p> <p>g. Health related MDG and SDG</p> <p>h. Important National organization.</p> <p>i. Important international health organization. WHO,UNICEF,RED CRESCENT,ICDDR,B, CARE etc.</p>	<p>At the end of learning session the students will be able to :</p> <ol style="list-style-type: none"> 1. define primary Health Care and HFA 2. list the components, Principal & strategies of PHC 3. explain the term “Health for all by the year 2000 AD 4. describe the levels of Health Care in context of Bangladesh 5. organize community participation & involvement 6. identify community priority health problem. 7 .explain universal health coverage 8. implement the integrated approach of PHC both intra-sectoral and inter-sectoral 9. state health related MDGs and SDGs and ESP 10. recognise important national and international health organization and list their programmes. 	<p>Lecture Group Discussion</p>	<p>Field visit Role play</p>	<p>Audio-visual Board Exposure to community / hospital</p>	<p>Lec-2hrs Tuto-2hrs Visit-4hrs</p>	<p>Post session Written (SAQ)</p> <p>Viva & Observing activities in organisation of team performing task</p>
<p>16. HPSP & HNP-SP services Description, component</p>	<p>At the end of learning session the students will be able to :</p> <ol style="list-style-type: none"> 1. define essential service delivery (ESD) 2. List the components with contents in details (ESD) 3. mention the method of delivery of (ESD) 	<p>Lecture Group Discussion</p>	<p>Field visit Role play</p>	<p>Audio-visual Board Exposure to community / hospital</p>	<p>Lec-3hrs Tuto-3hrs</p>	<p>-DO_</p>

Subject : Basic Community Medicine & Health Management

Group: C

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room instruction	Practical /visit	Aids		
<p>1 : Non communicable Disease of public health importance</p> <p>a. Hypertension b. Diabetes c. Bronchial Asthma d. Ischemic heart disease e. Rheumatic fever f. Cancer g. Drowning h. Snake bite i. Injury</p>	<p>At the end of learning session the students will be able to :</p> <ul style="list-style-type: none"> state sign and symptoms of a. hypertension, diabetes, bronchial asthma, ischemic heart disease, rheumatic fever, cancer, snake bite diagnose at primary stage hypertension, diabetes, asthma, ischemic heart disease, rheumatic fever, cancer mention 1st line of management and refer appropriately the patient with the above mentioned health problems measure BP and Urine Sugar 	<p>Lecture followed by tutorials</p>	<p>Field visit (Exposure to community / hospital)</p> <p>Role play</p> <p>-Do-</p> <p>Practical at lab</p>	<p>Audio-visual Board Exposure to community / hospital</p>	<p>Lec-10hrs Tuto-10hrs Visit-10hrs</p>	<p>Post session Written (SAQ)</p> <p>Viva & Observing activities in organisation of team performing task</p>

Subject : Basic Community Medicine & Health Management

Group: D

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room instruction	Practical /visit	Aids		
1 : Promotive, preventive and community issues of the health problems related to Medicine.	At the end of learning session the students will be able to : <ul style="list-style-type: none"> • mention Promotive, preventive and community issues of the health problems relater to Medicine. 	Lecture followed by tutorials		Chalk and Board , OHP, Mutimedia, Chart, Diagram, Poster, Festoon etc	Lec-14hrs Tuto-14hrs	Post session Written (SAQ) Viva
2 : Promotive, preventive and community issues of the health problems related to Surgery.	At the end of learning session the students will be able to : <ul style="list-style-type: none"> • describe Promotive, preventive and community issues of the health problems relater to Surgery. 	Lecture followed by tutorials		Chalk and Board , OHP, Mutimedia, Chart, Diagram, Poster, Festoon etc	Lec-14hrs Tuto-14hrs	Post session Written (SAQ) Viva
2 : Promotive, preventive and community issues of the health problems related to Gynaecology and Obstetrics.	At the end of learning session the students will be able to : <ul style="list-style-type: none"> • mention Promotive, preventive and community issues of the health problems relater to Gynaecology and Obstetrics. 	Lecture followed by tutorials		Chalk and Board , OHP, Mutimedia, Chart, Diagram, Poster, Festoon etc	Lec-14hrs Tuto-14hrs	Post session Written (SAQ) Viva

NB: Three months (12 weeks) placement at attached Upazilla Health Complex at Indoor, Outdoor, Emergency and ongoing health progremmes

4th Year

Basic Medicine & Paediatrics

Objectives:

At the end of the course, the students will be able to

- take basic medical history from adult and children cases with common complaints in a prescribed format
- Perform a routine clinical examination in adult and children cases in a prescribed format
- take basic medical history from emergency cases (adult and children) in a prescribed format
- take basic medical history from critically ill cases (adult and children) in a prescribed format
- Perform a routine clinical examination in emergency cases (adult and children) in a prescribed format
- Perform a routine clinical examination in critically ill and unconscious cases (adult and children) in a prescribed format
- Examine patients for injuries if present in case of RTA patients
- Explain the value of nursing care related to general patient care
- identify and state use of all common types of instruments used in wards and out patients
- do assessment for vital signs in emergency, critically ill and unconscious cases
- make and use growth chart for children
- provide advice and counselling for breast feeding, infant feeding and weaning
- make list of differential diagnoses
- collect specimens for pathological examinations
- make initial probable diagnoses
- List the causes of infant morbidity & mortality in Bangladesh
- provide first line management for routine, emergency, critically ill and unconscious patients
- provide / assist procedural services such as giving injections, introducing catheter/ ryles tube , sterilizing instruments, distributing medicines
- Give first line management of Hyperpyrexia, Dehydration, convulsions, poisoning, surgical emergencies, acute abdominal distension
- refer the patients properly to appropriate place
- Perform competently the following procedure
 - i. all immunization procedures
 - ii. weighting, plotting, weight in chart & graphing
 - iii. mouth to mouth artificial respiration
 - iv. resuscitation of a new born
 - v. passing a Nasogastric tube
 - vi. setting up scalp vein infusion
 - vii. removal of foreign body from ear & nose

List of Competencies to Acquire:

Ability to -

1. take basic medical history from adult and children cases with common complaints in a prescribed format
2. perform a routine clinical examination in adult and children cases in a prescribed format
3. take basic medical history from emergency cases (adult and children) in a prescribed format
4. take basic medical history from critically ill cases (adult and children) in a prescribed format
5. perform a routine clinical examination in emergency cases (adult and children) in a prescribed format
6. perform a routine clinical examination in critically ill and unconscious cases (adult and children) in a prescribed format
7. do assessment for vital signs in emergency, critically ill and unconscious cases
8. make and use growth chart for children
9. provide advice and counselling for breast feeding, infant feeding and weaning
10. make list of differential diagnoses
11. collect specimens for pathological examinations
12. make initial probable diagnoses
13. provide first line management for routine, emergency, critically ill and unconscious patients
14. provide / assist procedural services such as giving injections, introducing catheter/ ryles tube , sterilizing instruments, distributing medicines
15. refer the patients properly to appropriate place
16. perform competently the following procedure
 - all immunization procedures
 - weighting, plotting, weight in chart & graphing
 - mouth to mouth artificial respiration
 - resuscitation of a new-born
 - passing a Nasogastric tube
 - setting up scalp vein infusion
 - removal of foreign body from ear & nose

Subject : Basic Medicine & Paediatrics (1st year)

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room	Practical /visit	Aids		
Part-I A. Examination of Patient : 1. Clinical Examination of: a) Adult case b) Children case	At the end of learning session the students will be able to : a. I) Take basic medical history in a prescribed proforma./ format II) Perform a routine clinical examination b. <u>Weigh</u> a child and graph the weight (Road to health chart) and make an assessment of the nutritional status of Children.	Bed side clinical class Morning session	Hospital Bed side (indoor) & Outdoor	- Oral - Patient - Picture - Multimedia (CD/DVD) - Presentation of Pts. Examination	Bed side clinical class morning session 10 hours	Practical examination with patient (Adult cases & children case) & viva Written (SAQ)
2. Examination of Emergency cases & first aid	At the end of learning session the students will be able to : a. Assess the vital signs (Pulse, BP, Respiration, Temperature) b. Estimate presence and severity of haemorrhage (internal and external) c. Examine for injuries if present d. Make a rapid probable diagnosis of an unconscious patient e. Take appropriate First aid measure.	Bed side clinical class Morning session	Hospital emergency Dept.	- Patient - Picture - XRay, ECG,CT,MRI USG & other lab reports - Multimedia (CD/DVD presentation)	Bed side clinical class morning session 10 hours	Written (SAQ) Practical & Viva

* 10 weeks morning session = 10 x 2= 20 hours

Subject : Basic Medicine & Paediatrics (2nd year)

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room	Practical /visit	Aids		
Part-I A. Examination of Patient : 1. Clinical Examination of: a) Adult case b) Children case	At the end of learning session the students will be able to : a. i) Take basic medical history in a prescribed format ii) Perform a routine clinical examination b. <u>Weigh</u> a child and graph the weight (Road to health chart) and make an assessment of the nutritional status of Children.	Bed side clinical class Morning session Evening session	Hospital Bed side (indoor) & Outdoor	- Oral - Patient - Picture - Multimedia (CD/DVD) - Presentation of Pts. Examination	Lecture-06 hrs Morning session 24hrs Evening session 24hrs	Practical examination with patient (Adult cases & children case) & viva Written (SAQ)
2. Examination of Emergency cases & first aid	At the end of learning session the students will be able to : a. Assess the vital signs (Pulse, BP, Respiration, Temperature, Heartbeat, Pupil, Reflexes) b. Estimate presence and severity of haemorrhage (internal and external) c. Examine for injuries if present d. Make a rapid probable diagnosis of an unconscious patient e. Take appropriate First aid measure.	Bed side clinical class Morning session Evening session	Hospital emergency Dept.	- Patient - Picture - XRay, ECG,CT,MRI USG & other lab reports - Multimedia (CD/DVD presentation)	Lecture-06 hrs Morning session 24hrs Evening session 24hrs	Written (SAQ) Practical & Viva
3. Differential diagnoses of common complaints Fever, cough, Dyspnoea, chest pain, oedema, skin rash, Red eye, dysphagia, abdominal pain, vomiting/diarrhea,headache, Ear ache, pain in the throat, pain in the joints.	At the end of learning session the students will be able to : a. Ask a few relevant questions and look for a few relevant signs within a short period b. State the most common causes and main differentiating features for each of these causes.	Small group teaching morning session	Hospital Bed side (indoor) & outdoor Morning session Evening session	Patient X Ray, ECG,CT,MRI USG & other lab reports Multimedia (CD/DVD presentation)	Lec-18 hrs. Morning session 72hrs Evening session 72 hrs	Written (SAQ) Practical & Viva

Subject : Basic Medicine & Paediatrics (3rd year)

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room	Practical /visit	Aids		
Part II Patient Care : 1. Introduction to the concept of general patient care 2. Practical General care	At the end of learning session the students will be able to : a. Theory : Explain the value of nursing care related to general patient care b. Practical I. Patient General care : - Place a patient in any of the following position (e.g.. supine, recumbent, prone, lateral) - perform tepid sponging, mouth toileting - give initial care to paralysed patient, unconscious patient, patient with head injuries and refer the patient to the appropriate place - monitor an unconscious patient (record level of consciousness, vital signs etc) II. Record of patient's condition & collection of specimens : - take and record on a chart - temperature, pulse, respiration; blood pressure, fluid intake & output - Collect specimen of stool, urine, sputum, blood and pus for laboratory examination	Lecture	Morning session Evening session	Patient Picture - Multimedia (CD/DVD presentation) & CD Player & TV	Lec-4 hours Morning session 16 hours Evening session 16 hours	Practical & Viva Written (SAQ)

* Visit = Bed side teaching within tutorial class

Subject : Basic Medicine & Paediatrics (3rd year)

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room	Practical /visit	Aids		
<p>Part II</p> <p>Patient Care :</p> <p>1. Introduction to the concept of general patient care</p> <p>2. Practical General care</p>	<p>At the end of learning session the students will be able to :</p> <p>a. Theory : Explain the value of nursing care related to general patient care</p> <p>b. Practical</p> <p>I. Patient General care :</p> <ul style="list-style-type: none"> - Place a patient in any of the following position (e.g.. supine, recumbent, prone, lateral) - perform tepid sponging, mouth toileting - give initial care to paralysed patient, unconscious patient, patient with head injuries and refer the patient to the appropriate place - monitor an unconscious patient (record level of consciousness, vital signs etc) <p>II. Record of patient's condition & collection of specimens :</p> <ul style="list-style-type: none"> - take and record on a chart - temperature, pulse, respiration; blood pressure, fluid intake & output - Collect specimen of stool, urine, sputum, blood and pus for laboratory examination 	Lecture	Practical demonstration in hospital (indoor, Outdoor & emergency)	<p>Patient</p> <p>Picture</p> <p>- Multimedia (CD/DVD presentation)</p> <p>& CD Player & TV</p>	<p>Lec-4 hours</p> <p>Morning session 16 hours</p> <p>Evening session 16 hours</p>	<p>Practical & Viva</p> <p>Written (SAQ)</p>

Subject: Basic Medicine & Paediatrics (3rd year)

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room	Practical /visit	Aids		
3. General Procedures	<p>At the end of learning session the students will be able to :</p> <ul style="list-style-type: none"> - identify and state use of all common types of instruments used in wards and out patients - sterilize surgical instruments - dress a wound & burn - give intra muscular and intravenous, subcutaneous and intradermal & topical drugs - apply treatment for scabies and ring worm (Topical) - clean eye and install eye droop/ointment - deliver oxygen to patient 	Lecture	<p>Practical demonstration on patients & dummies</p> <p>(CD Player & TV)</p>	<p>Patient/Students Instruments, Medicine, Oxygen cylinder Dummies Computer/multimedia CD player</p>	<p>Lec-10 hours</p> <p>Morning session 40 hours</p> <p>Evening session 40 hours</p>	<p>Practical & Viva</p> <p>Written (SAQ)</p>

Subject : Basic Medicine & Paediatrics (4th Year)

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room	Practical /visit	Aids		
Part III Diseases & Medical Emergencies : A. Diseases to be studied : Stomatitis & mouth ulcer, peptic ulcer, Enteric fever, cirrhosis of the liver, Bronchitis, Bronchial Asthma, Pneumonia, status asthmaticus, pulmonary Tuberculosis, pleural effusion, hypertension, congestive cardiac failure, Ischemic heart diseases, malaria*, Anaemia & other common blood disorders,, Rheumatoid arthritis, headache, diabetes mellitus, Goitre, hysteria, malnutrition, Vitamin deficiencies	At the end of learning session the students will be able to : 1. state briefly causes, signs symptoms, and important complications of common diseases in the HFWC 2. recognise the common diseases in the HFWC clinically 3. give 1 st line management of the common diseases in the HFWC, where applicable 4. give drugs including DOTs for tuberculosis 5. state indications for referral and refer properly the patients to appropriate place * Management according to WHO guidelines.	Lecture	In Hospital & community clinics Bed side clinical class Morning session Evening session	OHP/Board - Patient chart - Picture - Multimedia - TV & DVD	Lec- 23 hours Morning session 34 hours Evening session 34 hours	Written (SAQ) Practical & Viva
B. Medical Emergencies : a) Snake bite, dog bite, b) Drowning c) Convulsion, status asthmaticus, shock, Poisoning (Kerosine, Datura, sleeping pills, Insecticide)	At the end of learning session the students will be able to : a) Manage the injuries and complications of emergency conditions b) give adequate first line management and proper referral of disease/conditions listed	Lecture Group discussion	In Hospital & community & clinics Emergency wards	- Patient - Picture - Multimedia (TV & DVD) OHP/Board	Lec-6 hours Morning session 10 hours Evening session 10 hours OPD/emergency 60 hours	Written (SAQ) Viva & Practical Demonstration

Subject : Basic Medicine & Paediatrics (4th year)

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room	Practical /visit	Aids		
Part IV Child Care : A. Growth : Child Development and infant feeding	At the end of learning session the students will be able to : - Describe the growth and development and average weight of a normal child (growth chest) - outline the normal physical & mental development of children Autism - advise mothers on infant feeding including <ul style="list-style-type: none"> ➤ importance and advantages of breast feeding ➤ dangers of artificial bottle feeding ➤ ways and means of successful breast feeding ➤ Advise mothers on supplementary food for infants ➤ Advise mothers on weaning, preparation of weaning foods. 	Lecture Group Discussion	Practical demonstration in hospital & community Morning session Evening session	-patient HOP/Board - growth chart - Picture - Multimedia	Lec-4 hours Morning session 07 hours Evening session 07 hours	Written (SAQ) Viva & Practical
B. Pattern of childhood diseases :	At the end of learning session the students will be able to : 1. State causes, significance and prevention of childhood diseases in Bangladesh 2. List the causes of infant morbidity in Bangladesh 3. Explain important socio economic, medical and attitudinal (superstition and hygiene related) factors that influence diseases pattern.	Lecture Group discussion	Practical demonstration in hospital & community	- OHP/Board - chart - Picture - Multimedia	Lec-11 hrs Morning session 17 hours Evening session 17 hours	Written (SAQ) Viva & Practical

Subject : Basic Medicine & Paediatrics (4th year)

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room	Practical /visit	Aids		
C. Paediatric emergencies :	<p>At the end of learning session the students will be able to :</p> <ol style="list-style-type: none"> 1. Give first line management of Hyperpyrexia, Dehydration, convulsions, poisoning, surgical emergencies, acute abdominal distension 3. state indications for referral and refer properly the patients to appropriate place 3. Perform competently the following procedure <ul style="list-style-type: none"> - all immunization procedures - weighing plotting, weight in chart & graphing - mouth to mouth artificial respiration - resuscitation of a newborn - passing a Nasogastric tube - setting up scalp vein infusion - removal of foreign body from ear & nose 	<p>Lecture</p> <p>Group discussion</p>	<p>Practical demonstration in hospital & community</p> <p>Morning session</p> <p>Evening session</p> <p>Emergency setup</p>	<p>- OHP/Board</p> <p>- chart</p> <p>- Picture</p> <p>- Multimedia</p>	<p>Lec-23 hrs</p> <p>Morning session 38 hours</p> <p>Evening session 38 hours</p> <p>OPD/emergency 60 hours</p>	<p>Written (SAQ)</p> <p>Viva & Practical</p>
<p>D. Common diseases of childhood :</p> <p>Diphtheria, ARI* (Tonsillitis, Otitis media, pneumonia), whooping, cough, childhood tuberculosis, Bronchial asthma, measles, mumps, diarrhoeal diseases and dehydration*, Anaemia, congenital heart disease, urinary tract infection, nephritis, Rheumatic fever arthritis, mephitic syndrome. meningitis, Malnutrition*, Hypothermia, (Goitre), Malaria*, Dengue* covid</p>	<p>At the end of learning session the students will be able to :</p> <ol style="list-style-type: none"> 1. Recognise the common diseases of children clinically 2. state sign symptoms and differential diagnosis and complications. 3. give 1st line management of diseases in the HFWC, where applicable 4. Sate indications for referral and refer properly <p>* Management according to WHO guideline</p>	<p>Lecture</p>	<p>In Hospital & community</p> <p>Bedside case demonstration</p> <p>Morning session</p> <p>Evening session</p>	<p>- OHP/Board</p> <p>- chart</p> <p>- Picture</p> <p>- Multimedia Patient</p>	<p>Lec-23 hrs</p> <p>Morning session 38 hours</p> <p>Evening session 38 hours</p>	<p>Written (SAQ)</p> <p>Viva & Practical Clinical assessment</p>

Basic Surgery

Objectives:

At the end of the course, the students will be able to

- State the causes, symptoms, signs and complications of common diseases like infection of tissue and wound infection, tumour, acute abdomen, diseases of rectum and anal canal, pelvis and perineum, Eye and E.N.T, teeth, emergency and traumatology, burn, fracture and dislocation.
- Recognise early, provide first aid (1st line management) and provide proper referral services to the patients of the common surgical diseases/problems.
- Perform sterilization and prevent infection procedurally; perform wound toilet, introduce, local anaesthetics during wound stitching, perform superficial simple wound suture & stitch removal dressing and wound bandaging; drain superficial abscess.
- Apply arm sling and immobilization the injured part; introduce of nasogastric tube, male & female urethral catheter.
- Give I/V fluids, I/M Injection to the patients as indicated
- Provide CPR (external cardiac massage, artificial respiration by mouth to mouth) to the patients of cardiorespiratory arrest.
- Provide early appropriate referral services to the patients of all surgical diseases/problems.

List of competencies to Acquire -

- Recognise early common surgical diseases /problems.
- Provide complete care to the patients of simplest surgical diseases/problems.
- Provide first aid (1st line management) of all common surgical diseases/problems.
- Refer early the patients of surgical diseases/problems to appropriate place when needed.

Subject : Basic Surgery

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room	Practical /visit	Learning aids		
General Surgery: Infection, Sterilization Wounds, Abscess, Cellulites, Ulcer, Carbuncle, Tetanus, Gangrene, Tumour	At the end of learning session the students will be able to : <ul style="list-style-type: none"> • State the principal of sterilization, perform sterilization and prevent infection procedurally. • Mention the common causes of the listed disease, recognise the listed diseases by the symptoms and signs, mention the complications of the listed disease. • Perform surgical toileting of wound, dress wound, stitch superficial uncomplicated wound, and remove stitch as per procedures. • Perform draining of superficial abscess stepwise, and injecting local anaesthesia as per indications. • Provide the 1st line management of infection, tetanus, gangrene. • Recognise and differentiate clinically benign and malignant tumours. • Provide proper referral services to the patients of the diseases. 	Lecture	Case demonstration in Hospitals & Health centres	Black Board / White Board/ Multimedia Surgical and Sterilization Instruments Instruments and cleaning agents, antiseptics, medicines and dressing materials used for the procedures Patients	Lec-10 hrs Visit/Pr.-10 hrs	Written (SAQ) Viva & Clinical/ Practical

Subject : Basic Surgery

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room	Practical /visit	Learning aids		
<p>Regional Surgery.</p> <p>Relating to thorax</p> <ul style="list-style-type: none"> Breast lump Breast Abscess <p>Relating to abdomen</p> <ul style="list-style-type: none"> Acute abdomen <p>Relating to rectum and anal canal</p> <ul style="list-style-type: none"> Haemorrhoids Anal fissure Anal Fistula <p>Relating to pelvis and perineum</p> <ul style="list-style-type: none"> Acute and chronic retention of urine Haematuria Inguinal and scrotal swelling 	<p>At the end of learning session the students will be able to :</p> <ul style="list-style-type: none"> State the causes, common symptoms, signs and complications of the listed diseases. Recognise early the listed diseases. Provide the 1st line management of the diseases. Provide proper referral services to the patients of the diseases. 	Lecture	Case demonstration in Hospitals & Health centres	<p>Black Board / White Board/ Multimedia</p> <p>Instruments for examination and medicines</p> <p>Patients</p>	<p>Lec- 12 hrs</p> <p>Visit/Pr.-16 hrs</p>	<p>Written (SAQ)</p> <p>Viva & Clinical/ Practical</p>

Subject : Basic Surgery

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room	Practical /visit	Learning aids		
Relating to Eye and E.N.T <ul style="list-style-type: none"> • Conjunctivitis • Sty, Chalazion • Foreign body in Ear • Wax • Epistaxis • Sore throat • Acute tonsillitis 	At the end of learning session the students will be able to : <ul style="list-style-type: none"> • State the causes, common symptoms, signs and complications of the listed diseases. • Recognise early the listed diseases. • Provide the 1st line management of the diseases. • Provide proper referral services to the patients of the diseases. 	Lecture	Case demonstration in Hospitals & Health centres	Black Board / White Board/ Multimedia, Instruments for examination and medicines Patients	Lec-10 hrs Visit/Pr.- 10 hrs	Written (SAQ) Viva & Clinical/ Practical
Relating to teeth <ul style="list-style-type: none"> • Gingivitis • Caries teeth 	At the end of learning session the students will be able to : <ul style="list-style-type: none"> • State the causes, common symptoms, signs and complications of the listed diseases. • Recognise early the listed diseases. • Provide the 1st line management of the diseases. • Provide proper referral services to the patients of the diseases. 	Lecture	Case demonstration in Hospitals & Health centres	Black Board / White Board/ Multimedia, Instruments for examination and medicines Patients	Lec-8 hrs Visit- 6 hrs	Written (SAQ) Viva & Clinical/ Practical
Surgical Emergency and Traumatology <ul style="list-style-type: none"> • Wound • Haemorrhage 	At the end of learning session the students will be able to : <ul style="list-style-type: none"> • State the causes, common symptoms, signs and complications of the listed diseases. • Recognise early the listed diseases. • Provide the 1st line management of the diseases. • Provide proper referral services to the patients of the diseases. 	Lecture	Case demonstration in Hospitals' emergency departments & Health centres	Black Board / White Board/ Multimedia Instruments and cleaning agents, antiseptics and dressing materials, medicines used for the procedures and Patients	Lec- 12 hrs Visit-20 hrs	Written (SAQ) Viva & Clinical/ Practical

Subject : Basic Surgery

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room	Practical /visit	Learning aids		
<p>Shock :</p> <ul style="list-style-type: none"> Types, causes, severity, complications and 1st line management <p>IV fluids:</p> <ul style="list-style-type: none"> Types of IV fluids, indication, procedures and complications of IV fluid administrations. 	<p>At the end of learning session the students will be able to :</p> <ul style="list-style-type: none"> State types, causes and complications of shock. Recognise early different types of shock. Estimate the severity of shock with clinical signs and symptoms. State types of I/V fluid with their indication and procedure of I/V fluid administration. Provide 1st line management of shock. Provide proper referral services to the patients of shock. 	Lecture	Case demonstration in Hospitals & Health centres	Black Board / White Board/ Multimedia, Instruments, reagents, medicines and IV fluids and Patients	Lec- 10 hrs Visit- 8 hrs	Written (SAQ) Viva & Clinical/ Practical
<p>Burn:</p> <ul style="list-style-type: none"> Types, causes , complication, determination of percentage of burn and 1st line management 	<p>At the end of learning session the students will be able to</p> <ul style="list-style-type: none"> State types of burn and estimate the percentage of burn, complication and danger of burn. Mention the open and close method of treatment in simple burn. Provide 1st line of management of burn. Provide proper referral services to the patients of burn. 	Lecture	Case demonstration in Hospitals & Health centres	Black Board / White Board/ Multimedia Instruments and cleaning agents, antiseptics, medicines and dressing materials used for the procedures and Patients	Lec-8 hrs Visit-8 hrs	Written (SAQ) Viva & Clinical/ Practical

Subject : Basic Surgery

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room	Practical /visit	Learning aids		
Fracture and dislocation: <ul style="list-style-type: none"> • Definition, types, sign symptoms and complications 	At the end of learning session the students will be able to <ul style="list-style-type: none"> • Recognise clinically fracture and dislocation • State specific signs, symptoms complications of fracture of clavicle, tibia, humours, radius, ulna, femur • Provide 1st-line conservative management of the common fractures with (First aid) <ul style="list-style-type: none"> - proper positioning - ensuring circulation - wound toileting if necessary - proper immobilization - analgesic if necessary - I/V fluid if necessary - antibiotics if necessary - appropriate transport procedure • Provide adequate immediate care to prevent complications of fractures and dislocations by ensuring respiration, managing shock, controlling haemorrhage, and saving vital organs and adjacent tissues. • Provide proper referral services to the patients of fracture and dislocation. 	Lecture	Case demonstration in Hospitals & Health centres	Black Board / White Board/ Multimedia, Instruments and cleaning agents, antiseptics and dressing, immobilization materials and medicines used for the procedures Patients	Lec-8 hrs Pr -16 hrs	Written (SAQ) Viva & Clinical / Practical

Subject : Basic Surgery

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room	Practical /visit	Learning aids		
<ul style="list-style-type: none"> - Acute abdomen - Acute appendicitis - Acute Cholecystitis - Acute Cholithiasis - Acute exacerbation of Chronic D.U - Acute hematemesis - Perforation of hollow viscus - Intestinal obstruction of different types 	<p>At the end of learning session the students will be able to</p> <ul style="list-style-type: none"> • State signs, symptoms and complications of mentioned diseases. • Recognise early different condition of acute abdomen clinically • Provide 1st line conservative management of mentioned diseases. • Assess improvement of general condition clinically after first-line conservative management. • Provide proper referral services to the patients of the diseases. 	Lecture	Case demonstration in Hospitals & Health centres	Black Board / White Board/ Multimedia Instruments and medicines for the procedures Patients	Lec- 12 hrs Pr -26 hrs	Written (SAQ) Viva & Clinical/ Practical

Practical Skill

The students must obtain necessary experiences as close observers and assistants on the following procedures at hospital indoor / outdoor / emergency department / health centres. Ultimately they must be competent enough at end of course on the listed procedures:

Items	List of contents of gaining experiences	Assessment
1. Skin and subcutaneous tissues	<ul style="list-style-type: none"> • Wound toilet • Superficial simple wound suture & stitch removal • Dressing and wound bandaging • Drain superficial abscess 	Written (SAQ) Viva & Clinical/ Practical
2. Musculo-skeletal	<ul style="list-style-type: none"> • Apply arm sling and immobilization the injured part 	
3. Circulatory system	<ul style="list-style-type: none"> • Give I/V fluids • I/M Injection • External cardiac massage 	
4. Respiratory System	<ul style="list-style-type: none"> • Give artificial respiration by mouth to mouth • Oropharyngeal suction 	
5. Digestive system	<ul style="list-style-type: none"> • Introduce nasogastric tube 	
6. Urinary system	<ul style="list-style-type: none"> • Introduce male & female urethral catheter 	
7. Anaesthetics	<ul style="list-style-type: none"> • Introduction of local anaesthetics during wound stitching 	

The students must be able to recognise early and perform 1st line management and refer appropriately the following surgical conditions:

- Road traffic accident with unconsciousness
- Road traffic accident with vomiting
- Facial, maxillary and mandibular injuries
- Sever muscle and tendon injuries
- Crush injuries of the thorax injuries
- Penetrating wounds of thorax and abdomen
- Sever injuries involving pelvis and perineum
- Spinal and head injuries
- Acute abdomen
- Fracture and dislocation
- Lacerated and crush injuries
- Gunshot injuries

Basic Gynaecology and Obstetrics

Objectives:

At the end of the course, the students will be able to

- Define and explain the common gynaecological and obstetrical terms and issues.
- Provide antenatal check-up, advice and treatment of minor ailments and diseases of pregnant mother.
- Provide intra natal care in presence of graduate doctor.
- Provide postnatal check-up, advice and treatment of minor ailments and diseases of mother and new-born.
- Detect early high risk pregnancy, intra natal and postnatal problems of mother and new-born.
- Provide early appropriate referral services when needed.

List of Competencies to Acquire-

- Recognise early common gynaecological and obstetrical diseases/ problems.
- Provide complete care to the patients of simplest gynaecological and obstetrical diseases/ problems.
- Provide 1st line management of all common gynaecological and obstetrical diseases/ problems.
- Refer early the patients of gynaecological and obstetrical diseases/ problems to appropriate place when needed.

Subject : Basic Gynaecology and Obstetrics

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room	Practical /visit	Aids		
Section -1 1. Normal Pregnancy : <ul style="list-style-type: none"> • Gravida • Primipara • Multipara • Expected date of delivery (E.D.D) • Last menstrual period (L.M.P) 	At the end of learning activities the students must be able to : <ul style="list-style-type: none"> • Define the terms: Gravida , Primipara and Multipara • Calculate Gravida, Para, L.M.P and E.D.D 	Lecture	Case demonstration in Hospitals' indoor/outdoor & Health centres	Black Board / White Board/ OHP/Multimedia Instruments for the procedures Patients	Lec-2 hrs Visit/Pr.-4 hrs	Written (SAQ) Viva & Clinical/ Practical
2. Obstetrical examination: <ul style="list-style-type: none"> • History taking • General examination • Par –abdominal examination of pregnant women 	At the end of learning activities the students must be able to : <ul style="list-style-type: none"> • Take obstetrical history • Take relevant personal, medical, surgical and family history • Conduct general examination of pregnant women • Conduct routine obstetrical examination • Determine height of the fundus, lie of the foetus, presentation of foetus by the following factors by palpation of the abdomen of pregnant woman. • Provide proper referral services when needed. 	Lecture	Case demonstration in Hospitals' indoor/outdoor & Health centres	Black Board / White Board/ OHP/ Multimedia Instruments for the procedures Patients	Lec-5 hrs Visit/Pr.— 7 hrs	Written (SAQ) Viva & Clinical / Practical

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room	Practical /visit	Aids		
Section -1						
3. Labour : <ul style="list-style-type: none"> • Definition • Onset of labour • Stages of labour • Progress of labour 	At the end of learning activities the students must be able to : <ul style="list-style-type: none"> • Define labour • State characteristics of descent of head of foetus, dilatation of cervix and strength, duration and frequency of contractions. • Mention the characteristics of onset of labour, stages of labour and progress of labour by symptoms and signs. 	Lecture	Case demonstration in Hospitals' & Health centres' labour room	Black Board / White Board/ OHP/ Multimedia Instruments and medicines for the procedures Patients & Dummy	Lec-3 hrs Visit/Pr.-- 3 hrs	Written (SAQ) Viva & Clinical/ Practical
4. Conduction of labour	At the end of learning activities the students will be able to conduct normal labour in presence of graduate doctor recognising: <ul style="list-style-type: none"> • Onset of labour, stages of labour and progress of labour by symptoms and signs. • Descent of head of foetus, dilatation of cervix and strength, duration and frequency of contractions. 	Lecture	Case demonstration in Hospitals' & Health centres' labour room	Black Board / White Board/ OHP/ Multimedia Instruments and medicines for the procedures Patients & Dummy	Lec-4 hrs Visit/Pr.-- 6 hrs	Written (SAQ) Viva & Clinical/ Practical

Subject: Basic Gynaecology and Obstetrics

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room	Practical /visit	Aids		
Section -3						
1. Common conditions related to pregnancy & their managements	At the end of learning activities the students must be able to recognise & serve the patients with following minor ailments encountered during pregnancy: <ul style="list-style-type: none"> • Morning sickness • Headache • Heart burn • Dyspepsia • Constipation • Oedema • Vomiting • Provide proper referral services when needed 	Lecture	Case demonstration in Hospitals' indoor/outdoor & Health centres	Black Board / White Board/ OHP/ Multimedia Instruments and medicines for the procedures Patients	Lec-5 hrs Visit/Pr.- 4 hrs	Written (SAQ) Viva & Clinical/ Practical
2. General disease in Pregnancy	At the end of learning activities the students must be able to recognise & serve the patients with following minor diseases encountered during pregnancy : <ul style="list-style-type: none"> • Urinary tract infection • Genital tract infection • Anaemia • Moniliasis • Trichomoniasis • Gonorrhoea • Fever • Abdominal pain • Hyperemesis gravidarum • Provide proper referral services when needed 	Lecture	Case demonstration in Hospitals' indoor/outdoor & Health centres	Black Board / White Board/ OHP/ Multimedia Instruments and medicines for the procedures Patients	Lec-5 hrs Visit/Pr - 4 hrs	Written (SAQ) Viva & Clinical/ Practical

Subject : Basic Gynaecology and Obstetrics

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room	Practical /visit	Aids		
3. High Risk Pregnancy	Able to define and recognise/suspect clinically and refer properly after giving adequate 1 st line management to the following high risk pregnancy: <ul style="list-style-type: none"> • Pre-eclampsia • Eclampsia • Abortions • Ectopic Pregnancy 	Lecture	Case demonstration in Hospitals & Health centres	Black Board / White Board/ OHP/ Multimedia Instruments and for the procedures Patients	Lec-4 hrs Visit/Pr -4 hrs	Written (SAQ) Viva & Clinical/ Practical
	Pregnancy with any bad obstetrical history: <ul style="list-style-type: none"> • Previous caesarean section • Still birth • Jaundice during pregnancy • Diabetic mother • Any other abnormalities during pregnancy • Ante Partum haemorrhage (APH) 	Lecture		Black Board / White Board/ OHP/ Multimedia Instruments and for the procedures Patients	Lec-2 hrs Visit/Pr - 2 hrs	

Subject : Basic Gynaecology and Obstetrics

Contents	Learning Objectives	Training /Learning experiences			Expected hours /days	Assessment
		Class-room	Practical /visit	Aids		
5. Family Planning <ul style="list-style-type: none"> • Definition and importance of family planning • Common contraceptive methods 	<ul style="list-style-type: none"> • Define family planning • Mention the importance of family planning • List the common contraceptive methods : <ul style="list-style-type: none"> Temporary methods : <ul style="list-style-type: none"> Oral pills Condom IUD Injection Permanent methods : <ul style="list-style-type: none"> Vasectomy Tubectomy • Explain the correct use of the common contraceptive methods 	Lecture	Demonstration in F.P. Clinic	Black Board / White Board/ OHP/Poster/Slide / Image/ Videos /Multimedia Instruments and medicines for the procedures Family planning clients	Lec-6 hrs. Visit/Pr- 4 hrs	Written (SAQ) Viva & Clinical/ Practical

Upper Extremity

Sl. No.	Name of Items	Total Marks	Marks Obtained	Others Examination	Remarks
1.	Clavicle	10			
2.	Scapula	10			
3.	Humerus	10			
4.	Radius	10			
5.	Ulna	10			
6.	Carpal, Meta Carpal & Phalanges	10			
7.	Joints	10			
Lower Extremity					
1.	Hip bone and bony Pelvis	10			
2.	Femur & Patella	10			
3.	Tibia & Fibula	10			
4.	Tarsal, Metatarsal & phalanges	10			
5.	Joints	10			

Abdomen

Sl. No.	Name of Items	Total Marks	Marks Obtained	Others Examination	Remarks
1.	Abdominal Region	10			
2.	Lumbar, Sacrum & Coccyx	10			
3.	Abdominal Cavity & Peritoneum	10			
4.	Intestine	10			
5.	Extra-Hepato-biliary Apparatus	10			
6.	Spleen & Liver	10			
7.	Kidney & Supra-renal Gland	10			
8.	Diaphragm	10			
9.	Male Genital Organs	10			
10.	Female Genital Organs	10			
11.	Uterus, Urinary bladder & Urethra	10			
12.	Rectum & Anal canal	10			
13.	Joints	10			

Medical Assistant Training School ITEM CARD

Subject : Pathology & Microbiology

Name : _____ Roll No. _____ Year : _____ Session :

Pathology

Sl. No	Name of Items		Marks Obtained		Remarks
			Viva	Practical	
1.	Nutrition	:			
2.	Inflammation: a) Acute inflammation b) Chronic inflammation	:			
3.	Healing and Repair	:			
4.	Degeneration	:			
5.	Necrosis	:			
6.	Gangrene	:			
7.	Oedema & Dehydration	:			
8.	Shock	:			
9.	Ischaemia	:			
10.	Infarction	:			
11.	Thrombosis & embolism	:			
12.	Tumour	:			
Parasitology :					
1.	Classification & Protozoa	:			
2.	Entamoeba histolytica	:			
3.	Giardiasis & Trichomoniasis	:			
4.	Mastigophora	:			
5.	Kala-azar	:			
6.	Plasmodium	:			
7.	Round worm & Hook worm	:			
8.	Filariasis	:			
9.	Echinococcus Granulosus	:			

Microbiology

Sl. No	Name of Items		Marks Obtained		Remarks
			Viva	Practical	
1.	Bacteria-general feature	:			
2.	Virus-general feature, DNA & RNA Virus	:			
3.	Immunity –general /Types	:			
4.	Coccus & bacillus classification	:			
5.	Sterilization	:			
6.	Staphylococcus	:			
7.	Strepto coccus	:			
8.	Diphtheria	:			
9.	Gonococcal infection	:			
10.	Meningococcal infection	:			
11.	Enterobacterial organism	:			
12.	Mycobacteria	:			
13.	Anaerobic organism	:			
14.	Bacterial endotoxin & exotoxin	:			
Practical					
1.	Urine	:			
2.	Jaundice	:			
3.	Stool	:			
4.	Blood	:			
5.	Sputum (gram staining. AFB staining)	:			
6.	Agglutination				

Medical Assistant Training School ITEM CARD

Subject : Basic Pharmacology

Name : _____ Roll No. _____ Year : Ist. _____ Session :

General Pharmacology

Sl. No	Name of Items		Marks Obtained		Remarks
			Viva	Practical	
1.	Define pharmacology. Branches of Pharmacology	:			
2.	Sources of drugs	:			
3.	Dosage form of drugs	:			
4.	Routes of drug administration	:			
5.	Advantage & disadvantage of I/V & oral route	:			
6.	Factors modifying drug action	:			
Analgesics					
1.	Define & classify analgesics	:			
2.	Pharmacological action of morphine on CNS	:			
3.	Differences between Narcotic & non narcotic analgesics	:			
4.	Indication, contraindication & adverse effects of morphine, diclofenec, Aspirin & paracetamol	:			
Cardiovascular system :					
1.	Classify antihypertensive drug	:			
2.	Name 5 antihypertensive drug & their dose	:			
3.	Indication, coutraindication & adverse effects of Propranolol & methyl dopa	:			

Respiratory System

Sl. No	Name of Items		Marks Obtained		Remarks
			Viva	Practical	
1.	Define & classify bronchodilator	:			
2.	Indication, contra indication & adverse effects of fruesemide	:			
Antibiotics					
1.	Define & classify antiobiotics	:			
2.	Indication, connta indication & adverse effects of <ul style="list-style-type: none"> • Co- trimoxazole • Tetracycline • Penicillin 	:			
Define & classify					
1.	Antituber cular drug	:			
2.	Antimalarial drug	:			
3.	Anti amoebic drug	:			
4.	Antihelminthic drug	:			
5.	Purgative	:			
6.	Indication, contra indication, adverse effect of – metronidazole - purgative	:			
Ecbolic					
1.	Define & classify Ecbolic	:			
2.	Indication, Contraindication of oxytocin	:			
Contraceptive					
1.	Methods of contraceptive	:			
2.	Indication, contra indication & odverse effect of oral pill	:			
Vitamin					
1.	Define & classify vitamin	:			
2.	Sources & indication of Vitamin A,D,C				
Antacid					
1.	Define & classify antacid	:			
2.	Criteria of an ideal antacid	:			
3.	Indication, Contra in-dication of the H ₂ blocker	:			
4.	Define & classify hypogly caemic agent	:			

Medical Assistant Training School ITEM CARD

Subject : Basic Community Health

Name : _____ Roll No. _____ Year : _____ Session :

Sl. No	Name of Items		Marks Obtained		Remarks
			Viva	Practical	
1.	Define PHC. Principles of PHC	:			
2.	Components of PHC	:			
3.	Define MCH. Components of MCH	:			
4.	Define family planning objectives of F.P	:			
5.	What is contraception? Methods of contraceptives	:			
6.	Advantage & disadvantage of oral contraceptive pill	:			
7.	Criteria of an ideal contraceptives	:			
8.	Complications of M.R.	:			
9.	Define epidemiology. Aims & objectives of epidemiology	:			
10.	Define biostatistics uses of biostatistics	:			
11.	Define demography. Stages is demography	:			
12.	What is health educatin? Methods of it Education	:			
13.	What is mental health, Criteria of a mental health person	:			
14.	Define health, Indicators of health	:			
15.	Determinants of health	;			
16.	Define hygiene. Factors of personal hygiene	:			
17.	What is immunity. Classify immunity	:			
18.	EPI schedule	:			
19.	Adverse effects of EPI vaccination	:			
20.	Advantages of Breast feeding	:			
21.	Define balance diet, Criteria of balance diet	:			
22.	Define PEM. Difference between kwashiorkor & marasmus	:			
23.	Difference between active & passive immunity	:			
24.	What is refuse? Methods of refuse disposal:	:			
25.	What is excreta? Methods of excreta disposal	:			
26.	Effect of vit. A,D,C deficiency	:			
27.	What is ventilation? Give some air borne diseases	:			

Sl. No	Name of Items		Marks Obtained		Remarks
			Viva	Practical	
28.	What are water borne diseases	:			
29.	Classify arthropods of medical importance				
30.	What is housing? Criteria a of good housing	:			
31.	What is food? Classify food	:			
32.	What is vitamin, Classify Zoonotic diseases	:			
33.	What is Zoonotic? Classify Zoonotic diseases	:			
34.	Define MMR. Factors responsible for high MMR	:			
35.	What is IMR?: factors responsible for high IMR	:			
36.	Preventive measures against high MMR	:			
37.	Preventive measures against high IMR	:			
38.	What is incidence rate? Give its calculation	:			
39.	What is prevalence rate? Give its calculation	:			

Job Description of Medical Assistant (তিন পর্যায়)

থানা কেন্দ্রে অবস্থিত হাসপাতাল

- ১। কার্যালয় : থানা স্বাস্থ্য ও পরিবার কল্যাণ কমপে-ক্স।
- ২। পদের নাম : উপ-সহকারী কমিউনিটি মেডিকেল অফিসার/ মেডিকেল এ্যাসিস্টেন্ট।
- ৩। বেতন গ্রেড : ১১শ গ্রেড।
- ৪। তত্ত্বাবধানকারী : আবাসিক মেডিকেল অফিসার।
- ক. আবাসিক মেডিকেল অফিসার কর্তৃক নির্ধারিত মাসিক রোস্টার অনুযায়ী থানা কেন্দ্রে অবস্থিত হাসপাতালের ইমার্জেন্সীতে দায়িত্ব পালনকারী চিকিৎসকের সহকারী হিসাবে কাজ করা;
- খ. আবাসিক মেডিকেল অফিসার কর্তৃক প্রদত্ত অন্যান্য বিশেষ দায়িত্ব, যেমন: ও. আর. টি. কর্নার পরিচালনা, ARI case management, DOTS পদ্ধতিতে যক্ষ্মা রোগের চিকিৎসা, কুষ্ঠ রোগের MDT পর্যায়সূচক ইত্যাদি দায়িত্ব পালন করা;
- গ. সরকার কর্তৃক নির্ধারিত ঔষধ ব্যবস্থাপত্রের মধ্যে সীমাবদ্ধ থাকিয়া সাধারণ পীড়াসমূহ যেমন, ডায়রিয়া, জ্বর, চর্মরোগ, অপুষ্টি, অস্-, হাঁপানি, হাম ইত্যাদি রোগের চিকিৎসা প্রদান।
- ঘ. প্রয়োজনবোধে সাধারণ জখম, সর্প দংশন, কুকুরে কামড়ানো, পানিতে ডোবা, আঙুনে/এসিডে পোড়া/ঝলসানো, বিষপান, জ্বর, ব্যথা, হাঁপানি, চর্মরোগ এবং চোখ, দাঁত ও কানের সাধারণ রোগের ক্ষেত্রে প্রাথমিক চিকিৎসা;
- ঙ. রোগের কারণ, রোগ উপশমের উপায়, ঔষধ সেবনের নিয়মাবলী, খাওয়া-দাওয়ার নিয়মাবলী, রোগীর অন্যান্য করণীয় বিষয় ইত্যাদি ক্ষেত্রে অন্তর্ভুক্তি ও বহির্ভাগের রোগীর পরামর্শক (Patient Counsellor) হিসাবে দায়িত্ব পালন;
- চ. আবাসিক মেডিকেল অফিসার কর্তৃক প্রদত্ত অন্তর্ভুক্তি ও বহির্ভাগের চিকিৎসা সংক্রান্ত অন্যান্য বিশেষ দায়িত্ব;
- ছ. থানা ও নিম্ন পর্যায়ে দক্ষতাসহকারে ও সফলভাবে ইএসপি সেবা প্রদানে সহায়ক ভূমিকা পালন করা; এবং
- জ. অর্পিত অন্যান্য দায়িত্ব পালন।

থানা কেন্দ্র হইতে দূরবর্তী হাসপাতাল

- ১। কার্যালয় : থানা স্বাস্থ্য ও পরিবার কল্যাণ কমপে-ক্স।
(থানা কেন্দ্র হইতে দূরবর্তী ৩১ শয্যা বিশিষ্ট হাসপাতাল)
- ২। পদের নাম : উপ-সহকারী কমিউনিটি মেডিকেল অফিসার/ মেডিকেল এ্যাসিস্টেন্ট।
- ৩। বেতন গ্রেড : ১১শ গ্রেড।
- ৪। তত্ত্বাবধানকারী : আবাসিক মেডিকেল অফিসার।
- ক. আবাসিক মেডিকেল অফিসার কর্তৃক নির্ধারিত মাসিক রোস্টার অনুযায়ী হাসপাতালের ইমার্জেন্সীতে দায়িত্ব পালনকারী চিকিৎসকের সহকারী হিসাবে কাজ করা;

- খ. আবাসিক মেডিকেল অফিসার কর্তৃক প্রদত্ত অন্যান্য বিশেষ দায়িত্ব, যেমন: ও. আর. টি. কর্নার পরিচালনা, ARI case management, DOTS পদ্ধতিতে যক্ষ্মা রোগের চিকিৎসা, কুষ্ঠ রোগের MDT পর্যায়সূচী ইত্যাদি দায়িত্ব পালন করা;
- গ. সরকার কর্তৃক নির্ধারিত ঔষধ ব্যবস্থাপত্রের মধ্যে সীমাবদ্ধ থাকিয়া সাধারণ পীড়াসমূহ যেমন, ডায়রিয়া, জ্বর, চর্মরোগ, অপুষ্টি, অস্-, হাঁপানি, হাম ইত্যাদি রোগের চিকিৎসা প্রদান।
- ঘ. প্রয়োজনবোধে সাধারণ জখম, সর্প দংশন, কুকুরে কামড়ানো, পানিতে ডোবা, আঙুনে/এসিডে পোড়া/ঝলসানো, বিষপান, জ্বর, ব্যথা, হাঁপানি, চর্মরোগ এবং চোখ, দাঁত ও কানের সাধারণ রোগের ক্ষেত্রে প্রাথমিক চিকিৎসা;
- ঙ. রোগের কারণ, রোগ উপশমের উপায়, ঔষধ সেবনের নিয়মাবলী, খাওয়া-দাওয়ার নিয়মাবলী, রোগীর অন্যান্য করণীয় বিষয় ইত্যাদি ক্ষেত্রে অন্ড:বিভাগ ও বহি:বিভাগের রোগীর পরামর্শক (Patient Counsellor) হিসাবে দায়িত্ব পালন;
- চ. আবাসিক মেডিকেল অফিসার কর্তৃক প্রদত্ত অন্ড:বিভাগ ও বহি:বিভাগের চিকিৎসা সংক্রান্ত অন্যান্য বিশেষ দায়িত্ব ;
- ছ. হাসপাতালে দক্ষতাসহকারে ও সফলভাবে ইএসপি সেবা প্রদানে সহায়ক ভূমিকা পালন করা; এবং
- জ. অর্পিত অন্যান্য দায়িত্ব পালন।

ইউনিয়ন স্বাস্থ্য ও পরিবার কল্যাণ কেন্দ্র

- ১। কার্যালয় : থানা স্বাস্থ্য ও পরিবার কল্যাণ কমপে-ক্স।
- ২। পদের নাম : উপ-সহকারী কমিউনিটি মেডিকেল অফিসার/ মেডিকেল এ্যাসিস্টেন্ট।
- ৩। বেতন গ্রেড : ১১শ গ্রেড।
- ৪। তত্ত্বাবধানকারী : মেডিকেল অফিসার/ মেডিকেল অফিসার (পঃকঃ)
- ক. ইউনিয়ন স্বাস্থ্য ও পরিবার কল্যাণ কেন্দ্র পরিচালনায় মেডিকেল অফিসার অথবা মেডিকেল অফিসার (পঃকঃ) কিংবা দায়িত্বপ্রাপ্ত কর্মকর্তাকে সহায়তা করা এবং প্রয়োজনবোধে তত্ত্বাবধানকারী কর্মকর্তা কর্তৃক প্রদত্ত ক্ষমতাবলে ইউনিয়ন স্বাস্থ্য ও পরিবার কল্যাণ কেন্দ্রের অফিস ব্যবস্থাপনা, নিরাপত্তা এবং পরিষ্কার-পরিচ্ছন্নতার দায়িত্ব পালন;
- খ. ইউনিয়ন স্বাস্থ্য ও পরিবার কল্যাণ কেন্দ্রে আগত ও রেফারকৃত সকল রোগীর রেজিস্ট্রেশনের ব্যবস্থা করা;
- গ. সরকার কর্তৃক নির্ধারিত ঔষধ ব্যবস্থাপত্রের মধ্যে সীমাবদ্ধ থাকিয়া সাধারণ পীড়াসমূহ যেমন, জ্বর, চর্মরোগ, অপুষ্টি, অস্-, হাঁপানি ইত্যাদি রোগের চিকিৎসা প্রদান।
- ঘ. শিশুদের জটিল ডায়রিয়া রোগের ক্ষেত্রে **Oral Rehydration (Plan 'B')** এর সাহায্যে চিকিৎসা ও পরিবীক্ষণ করা;
- ঙ. শিশুদের আমাশয় রোগের জন্য সঠিক এন্টিবায়োটিক চিকিৎসা প্রদান;
- চ. হামের জটিল অবস্থার (পেটের ঘা, নিউমোনিয়া, উদরাময়) চিকিৎসা করা;
- ছ. শিশুদের রোগের সমন্বিত চিকিৎসা (IMCI) বিষয়ক প্রটোকল অনুযায়ী শিশু রোগের ব্যবস্থাপনা;
- জ. টিকা হইতে উদ্ভূত জটিলতা নির্ণয় ও চিকিৎসা;
- ঝ. সাধারণ জখম, সর্প দংশন, কুকুরে কামড়ানো, পানিতে ডোবা, আঙুনে/এসিডে পোড়া/ঝলসানো, বিষপান, জ্বর, ব্যথা, হাঁপানি, চর্মরোগ এবং চোখ, দাঁত ও কানের সাধারণ রোগের ক্ষেত্রে প্রাথমিক চিকিৎসা প্রদান;
- ঞ. প্রজনন পথের সংক্রমন (RTI) এবং যৌনরোগের (STD) প্রাথমিক চিকিৎসা;

- ট. যে সকল প্রজনন পথের সংক্রমণ (RTI) এবং যৌনরোগের সংক্রমণ (STI) চিকিৎসায় ফলোদয় হয় না, সেগুলি থানা কেন্দ্রে অবস্থিত হাসপাতালে রেফার করা;
- ঠ. যৌনরোগ (STD) প্রতিরোধ এবং পরিকল্পিত পরিবারের জন্য কনডম সরবরাহ করা;
- ড. যৌনরোগ (STD) এইচ আইভি/এইডস এবং যৌনরোগের সংক্রমণ (STI) হইতে সৃষ্ট বন্ধ্যাত্ব সম্পর্কে পরামর্শ দান;
- ঢ. বন্ধ্যাত্ব চিকিৎসার জন্য আগত সেবাগ্রহণকারীদের থানা কেন্দ্রে অবস্থিত হাসপাতালে রেফার করা;
- ণ. কমিউনিটি ক্লিনিক হইতে রেফারকৃত গর্ভনিরোধক দ্রব্য ব্যবহারের ফলে সৃষ্ট জটিলতা/পার্শ্ব-প্রতিক্রিয়ার চিকিৎসা করা;
- ত. পরিষ্কার-পরিচ্ছন্নতা, স্বাস্থ্য বিধি (Sanitation), খাদ্যাভ্যাস ইত্যাদি সম্পর্কিত আচার-আচরণ ও দৃষ্টিভঙ্গির পরিবর্তন (BCC) বিষয়ক বিভিন্ন পরামর্শ/ গণসংযোগ কার্যক্রমের আয়োজন ও অংশগ্রহণ;
- থ. স্বাস্থ্য, খাদ্য ও পুষ্টি, রোগ প্রতিষেধক টিকা, ক্রিমি, বুকের দুধ খাওয়ানো, পরিবেশ স্বাস্থ্য, নিরাপদ পানি ও পয়ঃনিষ্কাশন, পেটের পীড়া ইত্যাদি বিষয়ে কেন্দ্রে আগত সেবাগ্রহণকারীদের গ্রুপ ভিত্তিক পরামর্শ (Counselling) দান;
- দ. রোগের কারণ, রোগ উপশমের উপায়, ঔষধ সেবনের নিয়মাবলী, পার্শ্ব-প্রতিক্রিয়া, খাওয়া দাওয়ার নিয়মাবলী, রোগীর অন্যান্য করণীয় বিষয় ইত্যাদি ক্ষেত্রে রোগীর পরামর্শক (Patient Counsellor) হিসাবে দায়িত্ব পালন;
- ধ. প্রবীন জনগোষ্ঠীকে সুস্থ জীবন-যাপনে (Counselling) পরামর্শ ও প্রয়োজনীয় চিকিৎসা প্রদান;
- ন. প্রযোজ্য ক্ষেত্রে স্থায়ী/দীর্ঘ মেয়াদী গর্ভনিরোধক পদ্ধতি গ্রহণে আগ্রহী সেবাগ্রহণকারীদের থানা কেন্দ্রে অবস্থিত হাসপাতালে রেফার করা;
- প. মারাত্মক ডায়রিয়া, শ্বাস যন্ত্রের তীব্র সংক্রমণ (ARI), মারাত্মক ম্যালেরিয়া, উচ্চমাত্রায় জ্বর, প্রজনন পথের সংক্রমণ (RTI), যৌনরোগের সংক্রমণ (STI) সহ অন্যান্য জটিল কেইস যথাসময়ে থানা কেন্দ্রে অবস্থিত হাসপাতালে রেফার করা;
- ফ. নিজ কাজের মাসিক অগ্রিম পরিকল্পনা তত্ত্বাবধায়ক কর্মকর্তাকে প্রদান;
- ব. ইউনিয়ন স্বাস্থ্য ও পরিবার কল্যাণ কেন্দ্র হইতে প্রদানকৃত সেবার পরিসংখ্যানসহ আওতাধীন কমিউনিটি ক্লিনিক/স্যাটেলাইট ক্লিনিকসমূহ হইতে প্রদত্ত সেবার পরিসংখ্যান সংকলন ও সংরক্ষণ; এবং
- ভ. অর্পিত অন্যান্য দায়িত্ব পালন।