

1st Year

May - 2nd week
50%

Subject : Basic English Language Course

Contents	Learning Objectives	Training /Learning experiences		Expected hours /days	Assessment
		Teaching Method	Aids		
Part -I a. Subjects & predicate b. Part of speech- ▪ 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 c. Translation (Bengali to English, English to Bengali), short story writing, technical description, comprehension. d. Paragraph writing, application writing, letter writing, report writing, summary writing. e. Group discussion with special emphasis on present and future problems relating conversation to population and family planning, food and nutrition, environment and pollution.	On completion of the course the students will be able to - i. improve hand writing, spelling of words. ii. use idioms, scientific manes etc. properly including elementary knowledge of conjugation, punctuation, correction. iii. write essays, summery & paragraphs, on basic medical subjects/topics iv. understand 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. understand and interpret the scientific manuals, publications etc.	Lecture Tutorial/ group discussion	Chalk Board OHP Transparency Paper Marker Multimedia	L-40 hrs T-70 hrs	Written Viva

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 ▪ 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	Multi media Laptop OHP White Board Marker Wall chart Recorder Reading materials	L-20 hrs T-40 hrs	Written - SAQ Communicative Oral/Practical

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Subject : Basic Computer Science

Contents	Learning Objectives	Training /Learning experiences		Expected hours	Assessment
		Teaching Method	Aids		
Detailed Contents : Relevant Instruction for Practical : <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, parallel port system bus 47 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 –</p> <ul style="list-style-type: none"> be acquainted 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. 	<p>Lectures & Practical demonstrations</p>	<p>Computer, Multi media, Computer lab. Internet, White-Board Marker.</p>	<p>Total L-30 hrs.</p>	<p>Written Viva Practical</p>

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. 		Lectures & Practical demonstrations	Computer, Multi media, Computer lab. Internet, White Board Marker.	P-30 hrs	Written Viva Practical

Subject : Basic Computer Science

Contents	Learning Objectives	Training /Learning experiences		Expected hours	Assessment
		Teaching Methods	Aids		
Detailed Contents : <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. 		Lectures & Practical demonstrations	Computer, Multi media, Computer lab. Internet, White Board Marker.	P-30 hrs.	Written Viva Practical

Subject : Basic Computer Science

Contents	Learning Objectives	Training / Learning experiences		Expected hours	Assessment
		Teaching Methods	Aids		
Detailed Contents : <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 PowerPoint : <ul style="list-style-type: none"> ▪ Making Slide ▪ Slide Projection Internet and its applications : <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 		Lectures & Practical demonstrations	Computer, Multi media, Computer lab. Internet, White Board Marker.	P-25 hrs	Written Viva Practical
				P-15 hrs	

Subject : Basic Community Health & Medical Ethics

40-1
May

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

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. Insects of Medical importance f. 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 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		
2. Food & Nutrition a. Concept of food & nutrition b. Proximate Principle of food c. Sources, requirements & functions of different kinds of foods d. Concept of 'balanced diet'	At the end of the session the students will be able to : <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 	Lecture Tutorial/Group discussion Field visit	Model, Picture/ charts/ Posters Multimedia OHP White board Chalk board Exposure to community	L-5 hrs T-5 hrs Visit-10 hrs	Written Viva Practical demonstration by students
3. Maternal & Child Health and Family Planning ; a) MCH <ul style="list-style-type: none"> Concepts of MCH & reproductive health Causes of Maternal & infant mortality Prevention of Maternal & infant mortality Breast feeding EPI b. Family Planning : <ul style="list-style-type: none"> Definition of Family Planning Contraception & its methods (Types, Merits & demerits) Importance of Family Planning in context of Bangladesh 	a. MCH At the end of the session the MATS students should be able to know- <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 b. Family planning <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. 			L-10 hrs T-10 hrs Visit-10	

Subject : Basic Community Health & Medical Ethics

Contents	Learning Objectives	Training /Learning experiences		Expected hours /days	Assessment
		Teaching Methods	Aids		
2. 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
3. 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"> define health education explain the principles of health education 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
4. 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		
2. 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
3. Introduction to Bangladesh Health Service a. Organogram of Bangladesh Health Services with emphasis to Upazila & below b. Job description of UHFPO, MO, RMO, UFPO, MA, FWV, FPA, FWA, HA and other field staff c. Organisation chain of supervision from upazila & below	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 Mention the organogram of UHC and below List the job description of UHFPO, MO, RMO, UFPO, MA, FWV, FPA, FWA, HA and other field staff Mention the chain of supervision from upazilla to below 	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 ▪ The health care providers and patient relationship ▪ Fairness and equity ▪ Specific health issue 3. Components of Health service provider & patient relationship – ▪ 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 – ▪ 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

Subject : Basic Anatomy & Physiology

May 2nd 50. /

Contents	Learning Objectives	Training /Learning experiences		Expected hours /days	Assessment
		Teaching methods	Aids		
1. General Body Structure a. Anatomical Positions b. Cell c. Tissue d. System	At the end of the session the students will be able to : 1. define anatomy, physiology, different anatomical position e.g. anterior, posterior, medial, lateral, proximal, distal etc. 2. draw a cell & label its structures 3. mention the structure & functions of the following tissue: epithelial tissue, connective tissue, muscular tissue, nervous tissue 4. name different systems of human body and mention general function of each systems	Lecture Practical demonstration	Skeleton, Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers.	Total-24 hours Lec.- 12 hrs Demo-12 hrs	Written SAQ Oral + Practical
2. Body Fluids a. Types of fluid b. Intake & output of fluid	At the end of the session the students will be able to : 1. mention the main types of body fluid, explain extra cellular and intercellur fluid 2. state daily intake & output of fluid 3. define dehydration& oedema	Lecture Practical demonstration	Skeleton, Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	Total-18 hours Lec.- 9 hrs Demo--9 hrs	Written (SAQ) Oral + Practical
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 composition & function of blood 2. state the morphological characteristics of different blood corpuscles and their functions 3. name main groups of lymph nodes & function of lymphatic system 4. identify the location of tonsil, spleen & lymph nodes and their functions.				

Subject : Basic Anatomy & Physiology

Contents	Learning Objectives	Training /Learning experiences		Expected hours /days	Assessment
		Teaching methods	Aids		
3. Cardio-vascular system a. Heart and it's parts b. Main Vessels c. Blood pressure	At the end of the session the students will be able to : 1. name & draw the different parts of heart and their function 2. name the main arteries & veins & their surface markings 3. mention the main arteries supplying limbs, head & neck important body organs 4. explain function of arterial system, venous system, cardiac cycle 5. define cardiac output venous return 6. measure heart rate, pulse rate, blood pressure	Lecture Practical demonstration	Skeleton, Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	Total-20 hours Lec.- 10 hrs Demo--10 hrs	Written (SAQ) Oral + Practical
4. Respiratory System a. Parts of respiratory Tract b. Paranasal Sinuses c. Respiration	At the end of the session the students will be able to : 1. name the parts of respiratory tract. and mention their function 2. indicate the position & functions of paranasal sinuses 1. draw the bronchial tree and mention their function 2. locate the tonsils & mention their function 4. explain the mechanism of respiration	Lecture Practical demonstration	Skeleton, Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	Total-16 hours Lec.- 8 hrs Demo--8 hrs	Written (SAQ) Oral + Practical

Subject : Basic Anatomy & Physiology

Contents	Learning Objectives	Training /Learning experiences		Expected hours /days	Assessment
		Teaching methods	Aids		
5. Digestive System a. Regions of abdomen b. Parts of Alimentary Tract c. Surface Marking	At the end of the session the students will be able to : 1. Draw & name 9 (nine) anatomical regions of the abdomen 2. Draw & name deferent part of digestive system 3. Draw & name deferent part of and alimentary tract 4. 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 5. Draw surface markings of the following : Stomach, Duodenum, liver, Gall bladder, Spleen, pancreas, vermiform appendix 6. Describe the main composition of gastric juice, intestinal juice, bile.	Lecture Practical demonstration	Skeleton, Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	Total-24 hours Lec.- 12 hrs Demo--12 hrs	Written (SAQ) Oral + Practical
6. Digestion & Metabolism a. Digestive juices functions b. Metabolism of CHO, Fat & Protein	At the end of the session the students will be able to : 1. Describe peristalsis 2. Describe Functions of Saliva, Gastric juice, pancreatic juice, intestinal juice, bile 3. out line the digestion & absorption of • Protein, Fat, Carbohydrate, 4. Define • Metabolism • Anabolism • catabolism	Lecture Practical demonstration	Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	Total-18 hrs Lec.- 9 hrs Demo--9 hrs	Written (SAQ) Oral + Practical

Subject : Basic Anatomy & Physiology

Contents	Learning Objectives	Training /Learning experiences		Expected hours /days	Assessment
		Teaching methods	Aids		
7. Skin & Musculo-skeletal System	At the end of the session the students will be able to : 1. List 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 8. Identify the major muscle groups on the body as extensors, flexors, abductors, adductors	Lecture Practical demonstration	Skeleton, Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	Total-24 hours Lec.- 12 hrs Demo--12 hrs	Written (SAQ) Oral + Practical
8. URO-Genital System a. Parts of the Urinary tract b. Parts of the genital tract c. Menstrual Cycle	At the end of the session the students will be able to : 1. Draw & label the different parts of urinary system 2. Mention the function of different parts of urinary system 3. Draw & label the different parts of reproductive system – both male and female. 4. Mention the function of different parts of reproductive system – both male and female. 5. Draw & label the different structure of kidney 6. Describe parts and anatomical relation of urethra male/female 7. Describe briefly menstrual cycle. 8. Name the intrauterine stages of embryonic development 9. Outline the main factors that initiate and maintain process of the lactation. 10. Draw the surface marking of : Kidney, ureter, bladder, vas deferens	Lecture Practical demonstration	Models, chalk & Board, Chart & diagram, OHP, Multimedia, CD, volunteers	Total-22 hrs Lec.- 11 hrs Demo--11 hrs	Written (SAQ) Oral + Practical