

Sr. No.	Branch	Sem./Year	Subject Name	Subject Topic	Nature of Digital Contents
1	DMLT	1st Year	Haematology	Introduction to haematology	https://www.slideshare.net/rajud521/introduction-to-hematology
2				Apparatus and Instruments used in hematology lab.	www.fch.vut.cz/~fiserova/download/laboratory%20equipment.ppt
3				Haemopoiesis	https://www.slideshare.net/rimbiosraju/haemopoiesis-45250369
4				Anticoagulants	https://www.slideshare.net/peddananusilkumar/anticoagulant
5				Collection and preservation of blood	https://www.slideshare.net/globalsoin/blood-collection-and-preservation
6				Diluting fluid (Hb, TLC, Platelets, RBC count)	https://www.slideshare.net/kps_senthil/rbcwbc-count
7				Romanowsky stains	https://www.youtube.com/watch?v=tzNsaCrUMw
8				Haemoglobinometry	https://slideplayer.com/slide/10357467/
9				Haemocytometry	https://www.slideshare.net/GovardhanJoshi/hemocytometer
10				Differential leucocyte counting (DLC)	https://www.slideshare.net/VarugheseGeorge/differential-leukocyte-count
11				Quality Assurance in haematology such as accuracy, precision etc.	https://www.slideshare.net/dabaah/quality-assurance-in-hematology-laboratory-72051066
12				Automation in haematology	https://www.slideshare.net/SidduSiddu4/automation-in-hematology https://en.wikipedia.org/wiki/Automated_analyser
1	MLT	1st	Anatomy & Physiology	Introduction to anatomy and physiology	lyceum.algonquincollege.com/lts/onlineCourses/anatomy/content/module1-2.htm
				Position of body	https://www.youtube.com/watch?v=kvHWNJwBkmo
				Movement of body	https://www.youtube.com/watch?v=zkL6r9hi86A
				Cell structure	https://www.slideshare.net/AamirAliKhan1/cells-structure-49798596
				Function of cell	https://www.mheducation.ca/web_resources/sch/SL10_sample_unit1_topic1_1.pdf
				Introduction to tissue	https://en.wikipedia.org/wiki/Tissue_(biology)
				Classification of tissue	https://www.slideshare.net/guestbbebe5/tissue-powerpoint
				Epithelial tissue	https://www.slideshare.net/stewart_j/epithelial-tissue-26797809
				Connective tissue	https://www.slideshare.net/rongon28us/connective-tissue-57634775
				Muscular tissue	https://www.slideshare.net/claidin/muscle-tissue-39881289
				Nervous tissue	https://www.slideshare.net/ani4578/nervous-tissue-50969203
				Introduction to skin structure	https://www.slideshare.net/saosmith/skin-structure
				Structure & Function of skin	https://www.slideshare.net/yousrydermatology/functions-of-skin
				Skeletal system (structure, important bone)	https://www.slideshare.net/coachhuey/skeletal-system-9908871
				Digestive system (liver, stomach, intestine)	https://www.slideshare.net/sjcena/human-digestive-system
				Process of digestion of food	https://www.youtube.com/watch?v=Og5xAdC8EUI
				Respiratory System	https://www.slideshare.net/dindin04/respiratory-system-10815800
				Regulation of respiration	https://www.youtube.com/watch?v=hc1YtXc_84A
				Excretory system (organs)	https://www.slideshare.net/itutor/excretory-system-23183659
				Excretion process	https://www.youtube.com/watch?v=kMVMQnZh-M
				Structure of nephron	https://en.wikipedia.org/wiki/Nephron
				Nervous system	https://www.slideshare.net/itutor/nervous-system-22589837
				Sensory organs	https://www.slideshare.net/VanjaDrjevic/sense-organs-12875004
				CNS & PNS	https://www.youtube.com/watch?v=1uG0AEnoLDU
				Muscular system	https://www.slideshare.net/angellacx/the-muscular-system-powerpoint-presentation
				Muscle Fatigue	https://en.wikipedia.org/wiki/Muscle_fatigue
				Circulatory system	https://www.slideshare.net/itutor/the-irculatory-system
				Circulation of blood	https://www.youtube.com/watch?v=CWFyxn0qDEU
Lymphatic system	https://www.slideshare.net/SeanHildebrandt/lymphatic-system-notes				
Endocrine system	https://www.slideshare.net/levouge777/endocrine-system-257192				
Reproductive System	https://www.slideshare.net/ciellauren/rreproductive-system-elementary				
				Introduction to biochemistry	https://www.slideshare.net/AshfaqAhmad52/introduction-to-biochemistry-67924875
				Volumetric apparatus	https://www.slideshare.net/brunobasil/laboratory-wares
				Cleaning and care of laboratory glass and plastic ware	https://www.slideshare.net/tskinnersbec/chemistry-lab-equipment-2012
				Methods of cleaning and storage	https://www.slideshare.net/BELETECHANE/chapter-2-69466830
				Centrifuge	https://www.slideshare.net/pankajnalyapara/centrifuge-33701880
				Colorimeter	https://www.slideshare.net/TapeshwarYadav1/colorimeter-52697150
				Analytical balance	https://www.slideshare.net/JasperFalalimpa/analytical-balance-78821597
				Glucometer	https://www.slideshare.net/BenseTony/glucometer-10717800
				Deionizer	https://www.slideshare.net/shubhamdhiman459/deionizer-74788398

	DMLT	1st Year	Biochemistry	<p>Ion Selective electrode https://www.slideshare.net/ShwetaSingh44/ion-selective-electrodes-18411285</p> <p>Plasma separation https://www.youtube.com/watch?v=1sO991zbvB8</p> <p>Serum separation https://www.youtube.com/watch?v=TELwOCABvNq</p> <p>Blood sample collection & preservation https://www.slideshare.net/globalsoin/blood-collection-and-preservation</p> <p>Urine, faeces sample collection https://www.slideshare.net/YESANNA/saple-collection</p> <p>Glucose estimation https://www.slideshare.net/gangadharchatterjee/estimation-of-blood-glucose</p> <p>Glucose tolerance test https://www.healthline.com/health/glucose-tolerance-test</p> <p>Renal threshold https://en.wikipedia.org/wiki/Renal_threshold</p> <p>blood urea https://www.youtube.com/watch?v=szc8WIAjs-o</p> <p>Estimation of serum urea https://fac.ksu.edu.sa/sites/default/files/lab_5_3.pdf</p> <p>Creatinine estimation https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3613509/</p> <p>plasma proteins https://www.slideshare.net/mpasadnaidu/plasma-proteins-32909503</p> <p>Different method of protein estimation www.annclinlabsci.org/content/8/2/106.full.pdf</p> <p>Electrolytes www.surgeryencyclopedia.com/Ce-Fi/Electrolyte-Tests.html</p> <p>Uric acid estimation https://www.slideshare.net/xabahat/estimation-of-uric-acid</p> <p>Quality assurance in biochemistry lab https://www.slideshare.net/SanjayNegi4/quality-assurance-52547272</p>
1	MLT	3rd	Biochemistry	<p>Introduction to bilirubin https://www.slideshare.net/andrew176/bilirubin-12955112</p> <p>Formation & Excretion of bilirubin https://www.slideshare.net/andrew176/bilirubin-12955112</p> <p>Bilirubin estimation method https://slideplayer.com/slide/5949111/</p> <p>Clinical significance of estimation bilirubin https://www.webmd.com/a-to-z-guides/bilirubin-test</p> <p>Introduction to SGOT https://www.medicinenet.com/script/main/art.asp?articlekey=6320</p> <p>Estimation of SGOT www.tulipgroup.com/.../SGOT%20ASAT%20Kit%20Reitman%20Frankel%20method...</p> <p>Introduction to SGPT https://www.medicinenet.com/script/main/art.asp?articlekey=6320</p> <p>Estimation of SGPT www.tulipgroup.com/.../SGPT%20ASAT%20Kit%20Mod%20IFCC%20method.pdf</p> <p>Clinical significance of estimation of sgot & sgpt https://www.slideshare.net/sshelvys/sgot-and-sgpt</p> <p>Introduction to ALP & Clinical significance of estimation https://www.slideshare.net/asifzeb1/alkaline-phosphatase</p> <p>Introduction to ACP & Clinical significance of estimation https://www.slideshare.net/Stymass225/acidic-phosphatase-enzyme-acp</p> <p>Estimation Pprocedure for ALP https://www.slideshare.net/asifzeb1/alkaline-phosphatase</p> <p>Introduction to Calcium & Phosphorus estimation https://www.slideshare.net/.../serum-calcium-estimation-and-bone-biochemistry</p> <p>Introduction to Serum amylase estimation www.uobabylon.edu.iq/eprints/paper_3_19308_407.pdf</p> <p>Estimation of serum amylase https://www.youtube.com/watch?v=zxrKSP8sIQE</p> <p>Introduction to urinary protein estimation https://www.slideshare.net/NitinDudeja1/protein-estimation-64309706</p> <p>Creatinine estimation https://www.slideshare.net/Urendersingh/creatinine-estimation</p> <p>Renal function test https://www.slideshare.net/onlyuforu3/renal-function-test-19309670</p> <p>Creatinine clearance test https://www.slideshare.net/YESANNA/renal-function-tests-rft</p> <p>Introduction to Lipid profile https://www.slideshare.net/kinggoolden/lipid-profile</p> <p>Importance of lipid profile https://www.slideshare.net/callhealth/importance-of-lipid-profile-test</p> <p>Triglycerides https://www.slideshare.net/Moinkhan444/triglycerides-65579507</p> <p>Estimation of Triglycerides https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1936586/</p>
1	MLT	1st	Environmental studies	<p>Introduction to environment https://www.tutorvista.com/content/science/science-ii/environment/introduction.php</p> <p>Basic of ecology https://www.slideshare.net/farrellw/ecology-notes-ppt</p> <p>Eco system https://en.wikipedia.org/wiki/Ecosystem</p> <p>Sustainable development https://www.slideshare.net/KuldeepMishra15/sustainable-development-53121161</p> <p>Renewable and non renewable resources https://www.slideshare.net/darknight472009/renewable-nonrenewableenergyresources</p> <p>Air Pollution and effect on human health https://www.slideshare.net/ahmedrashid771/outline-2</p> <p>Air pollution control method https://www.slideshare.net/pramodgpramod/air-pollution-control-74445648</p> <p>Water Pollution https://www.slideshare.net/april.cruda/water-pollution-43696530</p> <p>Water pollution treatment https://www.slideshare.net/rekhagoyal7564/ppt-rekha</p> <p>Soil Pollution https://www.slideshare.net/chandan001/soil-pollution</p> <p>Effect of soil on human health https://www.slideshare.net/JasmineJohn/soil-pollution-health-effect-of-the-soil</p> <p>Disposal of waste https://en.wikipedia.org/wiki/Waste_management</p> <p>Noise pollution https://www.slideshare.net/gauravhtandon1/noise-pollution-29887197</p> <p>Noise pollution control method https://www.slideshare.net/SabaShahzadi/noise-pollutionsourcescauses-and-effects</p> <p>Environment legalisation download.nos.org/333courseE/23.pdf</p> <p>National green tribunal cpbenvnis.nic.in/pdf/NATIONAL%20GREEN%20TRIBUNAL%20ACT,%202010.pdf</p> <p>Environmental impact assessment https://www.env.go.jp/earth/coop/coop/document/eia_e/10-eiae-1.pdf</p> <p>Global warming https://www.slideshare.net/AbinoDavid/global-warming-14620613</p>

				Green house effect	https://www.britannica.com/science/greenhouse-effect
				Recycle of material	https://en.wikipedia.org/wiki/Recycling
				Concept of green building	https://www.slideshare.net/garun93/green-building-concept
1	DMLT	IIIrd/2nd	Haematology	Erythrocyte sedimentation rate (ESR) and PCV	https://www.slideshare.net/JananiMathialagan1/esr-pcv-blood-indices-copy https://en.wikipedia.org/wiki/Hematocrit https://en.wikipedia.org/wiki/Erythrocyte_sedimentation_rate
2				Red Cell Indices	https://www.slideshare.net/MananShah133/rbc-indices-74518656 https://en.wikipedia.org/wiki/Red_blood_cell_indices
3				Supravital stain & Reticulocyte count.	https://www.slideshare.net/AmaalMarey/reticulocytes https://en.wikipedia.org/wiki/Reticulocyte
4				Anaemia	https://www.slideshare.net/robingulati30/anaemia-12154490 https://en.wikipedia.org/wiki/Anemia
5				Red cell Fragility Test	https://www.slideshare.net/fateh11/osmotic-fragility-test https://en.wikipedia.org/wiki/Erythrocyte_fragility
1	MLT	Ist	Microbiology	introduction to microbiology, history of microbiology	https://www.slideshare.net/sarah_jumali/1-introduction-to-microbiology
2				application of microbiology	http://www.biologydiscussion.com/microbiology-2/applications-microbiology-2/17-applications-of-microbiology/71675
3				morphological structure of bacterial cell	https://www.researchgate.net/publication/315803754_MORPHOLOGY_AND_CLASSIFICATION_OF_BACTERIA
4				bacterial nutritional requirement and bacterial growth curve	https://www.researchgate.net/publication/315803754_MORPHOLOGY_AND_CLASSIFICATION_OF_BACTERIA
5				morphological classification of bacteria	https://www.researchgate.net/publication/315803754_MORPHOLOGY_AND_CLASSIFICATION_OF_BACTERIA
6				Microscopy - principle and care, working of compound microscope	https://www.researchgate.net/publication/315803754_MORPHOLOGY_AND_CLASSIFICATION_OF_BACTERIA
7				Principle of (i) dark field microscope (ii) fluorescent microscope	
8				(iii) phase contrast microscope and (iv) electron microscope	
9				sterilization and its various methods	https://www.slideshare.net/saravananchandran712/sterilization-methods-of-parenterals?qid=d150665c-8f0b-45f9-b78d-006e
10				Antiseptics and disinfectants- Introduction, types, use of disinfectants and antiseptic	https://www.slideshare.net/arkam741/antiseptic-and-disinfectant-88221452?qid=ff8ead9f-a35f-4146-a1f8-be06c52f8e0a8v=
11				Ideal culture media and its types (Liquid and Solid media, Defined and synthetic media, Enriched, Selective, Indicator, and Transport media)	https://en.wikipedia.org/wiki/Growth_medium
12				Methods of smear preparation, Procedure of Gram stain, Ziehl-Neelson's (Z-N) stain, Albert Stain	http://www.microrao.com/staining.htm
13				Identification & characteristics of bacteria by biochemical test	http://qu.edu.iq/el/pluginfile.php/55907/mod_resource/content/1/biochemical%20test.pdf
14				Motility demonstration methods	http://vlab.amrita.edu/?sub=3&brch=73&sim=697&cnt=1
15				microscopic examination of bacteria	https://www.slideshare.net/DanaSinzianaBreharCi/macroscopic-and-microscopic-examination-in-bacteriology
1				Disc Diffusion method – principle, procedure and precautions	https://repository.seafdec.org.ph/bitstream/handle/10862/1635/Chapter2-Disk-Diffusion-Method.pdf?sequence=1&isAllowed
2				morphology, staining, culture, biochemical charactersticks of staphylococci	https://www.slideshare.net/binuenchappanal/staphylococci-66024904?qid=ee97b488-a41c-4e67-807a-71b0dd58ad7b&v=&from_se
3				morphology, staining, culture, biochemical charactersticks of streptococci	https://www.slideshare.net/binuenchappanal/streptococcus-66045829
4				morphology, staining, culture, biochemical charactersticks of E.coli and salmonella	https://www.slideshare.net/AnikBanik2/salmonella-and-ecoli-infection-106240583?qid=99019379-c564-4087-8597-497e7ca5
5				morphology, staining, culture, biochemical charactersticks of vibrio cholera	https://www.slideshare.net/RaNaMB1/vibrio-cholera-and-all-about-it?qid=253ebbc7-9483-4925-8aa9-8fb7621f805a&v=&from_se
6				morphology, staining, culture, biochemical charactersticks of mycobacterium tb	https://www.slideshare.net/promotemedical/mycobacterium-tb-22065521
7				morphology, staining, culture, biochemical charactersticks of proteus	https://www.slideshare.net/ElafAbdulhakem/proteus-spp-2?qid=53b607d7-dca5-4ba5-9604-9410513cd8ac&v=&from_se
8				morphology, staining, culture, biochemical charactersticks of T.pallidium	https://www.slideshare.net/bond2214/syphilis-14164964?qid=15a21703-d3f5-461c-a46a-9cb7c203e3cd&v=&from_se
9				Bacterial pathogenicity, its types, sources of infection	https://en.wikipedia.org/wiki/Infection
10				nosocomial infection	https://en.wikipedia.org/wiki/Hospital-acquired_infection
11				lab diagnosis of RTI	https://slideplayer.com/slide/3936776/
12				wound infection	https://www.drugs.com/cg/wound-infection.html
13				UTI	https://www.slideshare.net/crisbertc/urinary-tract-infection-presentation
14				Intestinal infection	http://www.biomerieux-diagnostics.com/gastrointestinal-infections
15				enteric fever	https://www.slideshare.net/srinivaskinjarapu/enteric-fever-44129429?qid=23ba2ee6-fb3d-423c-bf95-6473ddd93c0a&v=&from_se
1				Introduction to medical parasitology	https://www.slideshare.net/foda44y/lecture-notes-parasitology-2
2				General characteristics, morphology, classification	https://www.slideshare.net/foda44y/lecture-notes-parasitology-2
3				Protozoa, Helminths	
4				Collection, transportation, processing and preservation of samples for routine investigations – Blood	https://www.gmsurat.edu.in/lib/exe/fetch.php?media=pg:microbiology_sample_collection.pdf
5				Collection, transportation, processing and preservation of samples for routine investigations – stool	https://microbeonline.com/collection-storage-and-transport-of-fecal-specimens-stool-for-microbiological-investigations/ https://www.cdc.gov/dpdx/diagnosticprocedures/stool/specimencoll.html
6				Introduction to Concentration techniques	https://fac.ksu.edu.sa/sites/default/files/concentration_teq_0.pptx
7				Principle and application of concentration techniques of stool for demonstration	

			of ova and cysts		
5	MLT	IIRd	Microbiology	Morphology , life cycle and lab diagnosis of giardia lamblia	https://www.slideshare.net/foda44y/lecture-notes-parasitology-2
				Morphology , life cycle and lab diagnosis of E. Histolytica	https://www.slideshare.net/foda44y/lecture-notes-parasitology-2
6				Morphology , life cycle and lab diagnosis of ancylostoma	https://www.slideshare.net/RaNaMB1/ancylostoma-duodenale-hookwormi2015?qid=0e43123c-29d1-479b-b17d-40dffaca51a
				Morphology , life cycle and lab diagnosis of Ascaris lumbricoides	https://www.slideshare.net/foda44y/lecture-notes-parasitology-2
7				Morphology , life cycle and lab diagnosis of T. solium	https://www.slideshare.net/foda44y/lecture-notes-parasitology-2
				Morphology , life cycle and lab diagnosis of t.saginata	https://www.slideshare.net/foda44y/lecture-notes-parasitology-2
8				Morphology , life cycle and lab diagnosis of malarial parasites	https://www.slideshare.net/foda44y/lecture-notes-parasitology-2
				Introduction to virology	https://www.slideshare.net/doctorrao/medical-virology-introduction
9				General Characteristics, Classification Structure of viruses	
				Pathogenicity, Lab diagnosis and prevention of – Rabies	https://www.slideshare.net/mnaje80/rabies-ppt
10				Pathogenicity, Lab diagnosis and prevention of – Polio	https://www.slideshare.net/doctorrao/picornaviruses?qid=f78e5513-f922-46f7-93e5-7ab759521fbb&v=&b=&from_search=12
	Pathogenicity, Lab diagnosis and prevention of –HIV	https://en.wikipedia.org/wiki/HIV			
	Pathogenicity, Lab diagnosis and prevention of – HBV	https://en.wikipedia.org/wiki/Hepatitis_B			
11	Collection, transportation, storage of virological samples	http://www.ksvdl.org/laboratories/virology/sample-submission.html			
				https://path.upmc.edu/virology/G-02.htm	
1		Topic	E-Link		
2		Role of medical laboratory technology in total health care, principles of management, techniques of planning, physical facilities/equipments – layout and desian	https://www.slideshare.net/TapeshwarYadav1/introduction-of-clinical-laboratory-science		
2					
2		2.1. Laboratory organization, operation, job description, evaluation, performance 2.2. Layout of clinical laboratories 2.3. Lay out of Blood Bank	https://www.slideshare.net/pratikpoladia/lab-management-27126968		
2					
6		Material management, procurement, financial resources, importing, inventory, control and analysis, inspection, storage etc	https://www.slideshare.net/atimurugesh/mlt-69937085		
7		Analytical control, Internal and external quality assurance in clinical laboratories, precision, accuracy, standard deviation as per national standards	https://www.slideshare.net/GiftSam1/medical-laboratory-quality-assurance		
8					
9		Safety measures in clinical laboratories (microbiology, haematology, biochemistry, histopathology and cytology, transfusion medicine), Disposal of Biomedical waste.	https://www.slideshare.net/VarshaShahane/laboratory-safety		

10		
11	First Aid in Clinical Laboratory: (09 hrs) a) Acid burn/Alkali burn b) Accidental trauma c) Gas/Toxic inhalation d) Spillage	https://www.labce.com/first-aid.aspx
12		
13	Ethics and code of conduct - legal aspects – confidentiality malpractice/ negligence; legal implications, law suits, consumer protection and insurance for professional health hazards	https://www.slideshare.net/dr Bharatpaul/medical-ethics-48927587
14		
15	Preventive maintenance and care of various laboratory equipment	https://www.slideshare.net/WubshetMamo/laboratory-equipment-training
16		
17	Role of Computer in Lab services (03 hrs) Storage and retrieval of laboratory data manually and with help of computers	https://www.slideshare.net/mtzaroon/role-of-computer
18		https://www.slideshare.net/bestcare-lab/medical-laboratory
19		
20	Laboratory Accreditation – Introduction	https://www.slideshare.net/GiftSam2/laboratory-accreditation

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