

Ref: No. Y/REG/ACA/38-ACM/2020

14.05.2020

NOTIFICATION – 38-ACM/12 /2020 dtd. 14.05.2020

Sub: Revised curriculum of the existing B.Sc. (Tech) programmes and Starting of additional programmes under the Faculty of Allied and Healthcare Professions

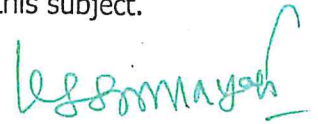
Ref: Resolution of the Academic council at its 38th meeting held on 27.04.2020, vide agenda - 23

The Academic Council at its 38th meeting held on 27.04.2020 and subsequently the Board of Management at its 49th meeting held on 30.04.2020 have resolved to approve the revised curricula and regulations of existing 08 B.Sc. Technology Programmes (Anaesthesia & O.T. Technology, Renal Dialysis Technology, Respiratory Care Technology, Medical Laboratory Technology, Medical Imaging Technology, Cardio Vascular Technology, Perfusion Technology, Optometry Technology) and starting of 04 new programmes under the Faculty of Allied & Healthcare Professions

1. B.Sc. in Physician Assistant
2. B.Sc. in Clinical Psychology
3. B.Sc. in Emergency Medicine Technology
4. B.Sc. in Neuro Science Technology

All these programmes shall follow Choice Based Credit System.

This notification will supersede all the earlier notifications issued on this subject.



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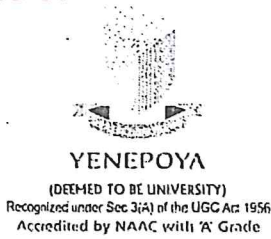
1. Dean, Faculty of Allied and Healthcare Professions
2. Controller of Examinations
3. File copy

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Approval of amendment in B.Sc Medical Laboratory Technology Program in the 31st AC Meeting
Agenda 06



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Ref: No.YU/REG/ACA/Academic Council-31/2018

27.02.2018

The Principal
Yenepoya Medical College

Sub: Amendment in Biochemistry syllabus for B.Sc. Medical Laboratory
Technology
Ref: Resolution of the Academic Council at its 31st meeting held on 06.02.2018
Vide, agenda - 6

The Academic Council at its 31st meeting held on 06.02.2018 approved the recommendation of the Faculty of Medicine for amendment in Biochemistry syllabus for B.Sc. Medical Laboratory Technology as follows to be implemented prospectively

1. B.Sc Technology Practical Syllabus:

Existing	Now Amended
Experiment No. 4. Urinary screening for inborn errors of metabolism	To be deleted
Experiment No. 5. Common renal disease	To be deleted
Experiment No. 6. Urinary calculus	To be deleted
Reference books ShivanandNayak B, Manipal Manual of Clinical Biochemistry - Jaypee publishers, 4 th Ed, 2013.	Addition of following Book: Burtis CA and Ashwood ER, Tietz Fundamentals of Clinical Chemistry , Harcourt (India) Ltd., 7 th Ed, 2014.

II B.Sc Medical Laboratory Technology theory Syllabus:

Existing	Now Amended
Chapter I Carbohydrate chemistry of sugar reaction, metabolism of glucose, diabetes and curve patterns	Deletion of term - Sugar reaction. Addition of terms- Classification, Isomerism, General reactions of Carbohydrates under the topic Carbohydrate chemistry. Rephrase Diabetes to Diabetes mellitus, curve patterns to GTT
Chapter VI Flame photometry and atomic absorption, Burner system.	To be deleted ATTESTED <i>LS</i>

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Dr. Gangadhara Somayaji K S
27/2/2018


Chapter Lipids: Chemistry of fatty acids, triglycerides, cholesterol, phospholipids and metabolism	Addition by shifting from III year BSc MLT theory syllabus. Specifying the subtopics – Lipids: Chemistry, Classification, Metabolism: β - oxidation, Lipolysis, Outlines of Fatty Acid Synthesis, Ketone body metabolism, Lipoproteins- Classification and functions
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II B.Sc Medical Laboratory Technology practical syllabus

Existing	Now Amended
Practical II Non-protein nitrogenous compounds diminution of blood urea, ammonia, uric acid, creatinine. Creatinine clearance.	To delete Deletion of ammonia Correction of error- diminution to estimation
Practical III Protein: Determination of total protein in serum/plasma/CSF/urine, determination of albumin, globulin and fibrinogen, electrophoretic separation of proteins.	Deletion determination of fibrinogen in serum/plasma/urine

III B.Sc Medical Laboratory Technology theory Syllabus:

Existing	Now Amended
Chapter No.2: Gastric analysis	Recombination of chapter No. 2 and 3 and rephrase as Gastric Function Tests: Augmented/histamine test
Chapter No.3: Composition of gastric juice: concept of free and bound acid, Gastric stimulations. Accuracy, Precision, quality control. Statics classifications of observation, frequency distribution, error in laboratory tests, definition of terms, quality control charts. Normal values.	Deletion of Accuracy, Precision, quality control. Statics classifications of observation, frequency distribution, error in laboratory tests, definition of terms, quality control charts. Normal values from chapter No.3
Chapter No.4: Radio isotope techniques. Principles of RTA: definition of units, measurements of radiation standards, crystal counting, conditions of use, resources and application	Rephrase as - Applications of Radio isotopes in medicine. Safety precautions while dealing with Radio isotopes.
Chapter No. 6 Calculi : theory of formation and analysis, Renal clearance concentration and Phenol sulfonaphthalein	To be deleted



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Chapter No. 7 Automation, micro and ultra micro techniques- Theory	Rephrase as – Automation in clinical labs, types of analysers - Full, Semi, Dry and wet
Chapter 9 Lipid- Chemistry of fatty acids, triglycerides, cholesterol, phospholipids and metabolism	Deletion and including this in IIInd year Theory Syllabus
Chapter 13 Quality Control- Accuracy, Precision, Specificity, Sensitivity, Standard deviation, co-efficient, frequency distribution, Errors in calculation, Reference values, Quality control charts.	Rephrase as- Quality Control- Measurement of central tendency, Normal distribution, Tests - parametric and non parametric To delete- Accuracy, precision, specificity, from the chapter

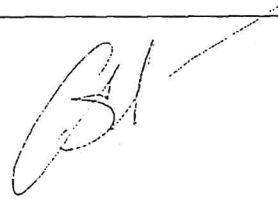
III B.Sc Medical Laboratory Technology practical syllabus

Existing	Now amended
Practical 1 Enzymes: Simple enzymatic reaction, demonstration of factors affecting enzyme action, determination of ALK Phosphates, LDH SGOT, Acid Phosphatase, amylase - Salivary and pancreatic, determination of LDH isoenzymes.	Deletion of determination of salivary amylase, LDH isoenzymes.
Practical 2 Liver function tests. Estimation of Bilirubin – total and conjugated, urobilinogen, urobilin and bile-acids.	Deletion of urobilin and bile-acid. Addition of bile salts. Rephrase as - Liver function tests. Estimation of serum Bilirubin – total and conjugated, urine urobilinogen and bile salts.
Practical 3 Gastric analysis. Determination of free and total acid, gastric stimulation. Specimen collection.	Rephrase as Charts on Gastric Function Test
Practical 4 Accuracy, precision and quality control – Demonstration and preparation of two methods, F-test and barrettes test.	To be deleted
Practical 5 Radio isotope technique. Determination of CEA, AFP, T3, T4, TSH, HCG.	Deletion of Radio isotope technique. Rephrase as- Estimation of hormones and tumor markers in clinical lab.
Practical 6 Collection and measurements	To be deleted
Practical 7 Automation, micro and ultra micro techniques	To be deleted

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Practical 8 Lipids determination of serum lipids, cholesterol ester, triglycerides on lipoprotein fractionation.	Rephrase as- Lipid profile.
Practical 9 Inorganic ions, determination of calcium in serum and urine, serum phosphates, iron, copper chloride, sodium and potassium.	Rephrase as - Serum and Urine Electrolytes
Practical 11 Estimation of calcium, phosphorous and iron	To be deleted
Practical Cardiac markers estimation in clinical lab.	Addition
Practical Urinary screening for inborn errors of metabolism - aminoacidurias, Lactate and Pyruvate, Sample collection methods	Addition



(Dr. G. Shreekumar Menon)
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Copy to :

1. The Professor & HoD, Department of Biochemistry
2. CoE
3. Academic Section

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