



B.L.D.E. UNIVERSITY

[Declared as Deemed-to-be-University u/s 3 of UGC Act, 1956 vide Government of India Notification No. F.9-37/2007-U.3(A)]
The Constituent College

SHRI. B. M. PATIL MEDICAL COLLEGE, HOSPITAL AND RESEARCH CENTRE VIJAYAPURA

DEPARTMENT OF BIOCHEMISTRY

Ref.No.Bioch/2016/

Date: 09-03-2016

To,
The Registrar
BLDE University,
Vijayapur.

Sub: Minutes of the BOS Meeting.

Respected sir,

Herewith I am submitting the minutes of the BOS meeting held on 01-03-2016 (Tuesday) between 9.30am to 11.30am Dr. B B Devaranavadi welcomed all the BOS members for the meeting. Following points were discussed and unanimously accepted by all the members.

1. Minutes of the previous meeting which was held on 30-07-2015 were confirmed and accepted.
2. Review of UG and PG courses were done and accepted.

PG syllabus was reviewed and following modifications were advised under theory following topics to be included.

MD Biochemistry:


- Basics of Binocular microscopy.
- Biochemistry of ageing.
- Neurochemistry in health and disease,
- Biochemical changes in pregnancy and lactation.
- NABL accreditation of laboratories.
- Biotechnology, Genomics and proteomics.
- Medical Bioinformatics.

Practical topics to be included

- Estimation of VMA.
- Isolation of DNA and PCR technique.
- Safety measures for laboratory personnel.

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BLDE (Deemed to be University)
Vijayapura-586103, Karnataka



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Rotational posting:

Following rotational posting has to be included Pathology, Microbiology, Blood Bank, Paediatrics – 15 days each.

Clinical Biochemistry posting has to be increased from 6 months to 18 months.

- Log book has to be awarded – 10 Marks along with log book there will be brief presentation of dissertation work.
- Introduction of OSPE and regular theory class 1hr/week.
- Along with dissertation work short project for PG students can be given.
- Internees have to be posted for 15 days in clinical Biochemistry laboratory.

UG syllabus

UG syllabus was reviewed and following modifications were advised.

- **Theory:** Following topics to be added
Body fluids, Environment and health.
- **Practical:** Following practicals has to be deleted which are redundant
 - Spectroscopic examination of Haemoglobin derivatives.
 - Flame photometer.
 - Estimation of ascorbic acid in urine.

3. Lists of Ph.D and PG guides in Biochemistry were reviewed and accepted.

4. Progress reports of Ph. D scholars were reviewed and accepted.

5. Draft of Ph.D course work was reviewed and accepted.

6. Question paper Vs result analysis

UG question papers of university examinations held during August 2015 were analysed and found to be appropriate. Out of 150 students (Regular) 148 students appeared for university examination, 114 students passed (pass% 77.02) No of students passed with distinction 15, No of students with first class 54, No of students with second class 30, No of students with pass class 15.

Total No. of students failed 34, No. of students failed in all 3 subjects – 29. No of students failed in Biochemistry and Anatomy 03, No. of students failed in Biochemistry and Physiology 01.

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Out of 42 repeaters, 41 students appeared for the examination, No. of students passed 13 and pass percentage was 31.70%, No of students failed in all 3 subjects 21, No of students failed in Biochemistry and Physiology NIL, and total No. of students failed is 28.

UG question paper of university examination held during 2016 was analysed and found to be appropriate, out of 61 students assigned, No. of students appeared 57, No of students passes 40 and pass percentage was 70%, No of students failed in all 3 subjects is 16, No of students failed in Biochemistry and Anatomy 05

No of students failed in Biochemistry and Physiology NIL, No of students failed only in Biochemistry NIL, Total No of students failed is 21.

To improve performance of students, as per the MCI guidelines equal weightage of marks has to given to the Biochemistry subjects (i.e on per with Anatomy and Physiology 100 marks 2 paper). Student should attend teaching activities seriously. Otherwise it is difficult to improve the result. External member suggested to have student counsel cell at the college level.

Along with external member Dr. Ajit Sontakke following members were present for the BOS meeting

1. Dr. B B Devaranavadagi
2. Dr. B S Aski
3. Dr. Nilima Dongre
4. Dr. Deepa S
5. Dr. Shivaleela M Biradar

It was decided by the BOS members to conduct the next meeting in the **1st week of December 2016**. At the end of the meeting Dr. B B Devaranavadagi conveyed thanks to all the members for having attended the meeting and also for giving their valuable suggestions.

This is for your kind information and needful

Thanking you sir,

Place: Vijayapur

Date: 09-03-2016

Yours faithfully,

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Dr.B.B.Devaranavadagi,
Prof and Head, M.D
Dept. of Biochemistry,
BLDE University, Shri B.M.Patil Medical
College, VIJAYAPUR-586103



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Highlights of changes made in UG Curriculum - 2016

Existing Factors	Changes to be brought about (Revised Part)
Biochemistry	Added - Human Biochemistry To inculcate good behavioral skills, soft skills and communication skills.
Deleted – (Practical) Determination of ascorbic acid and interpretation Spectroscopic examination of Hemoglobin derivatives and preparation of hemin crystals. Flame photometer	Added – (Theory)Body Fluids Milk,CSF,Amniotic Fluid, Synovial Fluid, Ascitic Fluid Environment & Health - Introduction, Classification of Environment Environmental Biochemistry, Environmental Pollution- Water Pollution, Air Pollution, Adaptation to an altered environmental temperature- Heat Stress & Cold Stress Added - (Practical): Ion selective electrode (ISE)
	1) Tutorials/Small Group Discussion/Problem based learning/ open book examination. 2) Seminars / Monthly tests/ Integrated Teaching Programm - Internal assessment & Revision classes. 3) Case history, charts / visit to laboratory / video / photographs 4) Practicals / Demonstrations/Revision practicals. TOPICS FOR INTEGRATED TEACHING Transport across cell membrane, Anaemia, Jaundice, Coronary Circulation, Malnutrition and starvation, Human genetics, Acid base balance, Thyroid gland, Diabetes mellitus, Acid peptic disease

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University Examination.

Theory: 100 Marks.

There shall be two papers of 50 marks each.

The total marks will be 100. The total duration of the paper will be 3 hrs. There shall be 3 types of questions.

Types of question & distribution of marks:

Topics Type of questions No of Que & Marks

Paper I Long essay 1 x 10 = 10

Short essay 5 x 5 = 25

Short answer 5 x 3 = 15

Paper II Long essay 1 x 10 = 10

Short essay 5 x 5 = 25

Short answer 5 x 3 = 15

Exercise II : 20 Marks

2) **Qualitative analysis** – Every candidate shall perform one given procedure such as – identification of carbohydrates, proteins, substances of Biochemical importance, analysis of normal and abnormal constituents of urine. (Correct procedure for the analysis is given and practical examination is done).

i) For selection of appropriate reactions 5 Marks

ii) For reasoning of analysis and correct reporting
5 Marks.

iii) For interpretation of results 5 Marks.

3) **Five spotters** including Biochemical techniques, instruments, crystals, biochemical tests and reagents (at the beginning of practical examinations). 1X5= 5 Marks.

c) **Viva-Voce: 20 Marks**

The viva voce examination shall carry 20 marks and all the four examiners will conduct the viva examination. The distribution of topics for each examiner is clearly mentioned.

Topics for Group Discussion:

1. Application of radioactive isotopes in Medicine.
2. Diagnostic and Therapeutic uses of enzymes.
3. Antioxidant vitamins.
4. Biochemical investigations in Diabetes Mellitus.

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5. Lipid storage disorders.
6. Inborn errors of aminoacid metabolism.
7. Recombinant DNA Technology.
8. Haemoglobinopathies.
9. Thyroid function tests.
10. Kidney function tests.

Topics for Interactive sessions:

1. ABG Analysis and interpretation.
2. Diet planning in health and diseases.
3. Obesity.
4. Biochemistry of ageing.
5. Biochemical markers of Atherosclerosis and MI.
6. Abnormal constituents of urine and interpretation.
7. Glucose tolerance test.
8. Liver function test.
9. Electrophoretic pattern in different diseases.
10. Analytical biochemistry and instrumentation.

(Dr. B B Devaranavadagi)

Copy to:

- The Principal & Dean, faculty of Medicine
BLDE University Shri.B M Patil Medical College, Vijayapur

Dr.B.B.Devaranavadagi,
Prof and Head,
Dept. of Biochemistry,
BLDE University, Shri B.M.Patil Medical College,
Vijayapur-586103, Karnataka

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Revised curriculum of PG in MD Biochemistry – 2016	
Existing Factors	Changes to be brought about (Revised Part)
	Addition - Also student should be able to supervise modern laboratory techniques and procedures in Clinical Biochemistry in the hospital.
	Addition - Be humble and accept the limitations in his knowledge and skill and to ask for help from colleagues when needed.
1. Estimation of proteins by Folins method and dye binding method.	Theory – Addition- 1. Whole organism study, organ perfusion, tissue slice technique, cell and tissue culture, Cell fractionation, Isolation and purification of N. A. 2. Laboratory safety measures. 3. Nanotechnology Practical- 2. Estimation of proteins by Biuret method and dye binding method. Deleted- 1. Titration of amino acid – Formal titration & pK values 2. Estimation of ethyl alcohol in blood and urine
	Course postings revised as follows: I) Pathology - 15 days II) Microbiology -15 days III) Blood bank – 15 days IV) Paediatrics – 15 days V) Neurology: 15 days. VI) Cardiology: 15 days.

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	<p>VII) Medicine: 1 month. VIII) Peripheral postings - A. Genetics – 15 days B. Oncology – 15 DAYS C. High end biochemistry lab- 1 month</p>
	<p>1. Pedagogy Exercise -10 marks A topic would be given to each candidate along with the Practical Examination question paper on the first day. Student is asked to make a presentation on the topic on the second day for 8-10 minutes.</p> <p>2. LogBook- 10 marks Candidate is asked to make a presentation for 8-10 minutes on the dissertation topic and the review of Log Book.</p>


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Dr. B. B. Devaranavada
Dr. B. B. Devaranavada
Dept. of Biochemistry, M.D.
BLDE University, Shri B.M. Patil Medical
College, VIJAYAPUR-586103

Smt. Bangaramma Sajjan Campus, Sholapur Road, Vijayapur – 586103, Karnataka, India.

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