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The Constituent College

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

1.1.2 Minutes of relevant Academic Council/BoS meetings

MBBS (Phase-I) 2016 curriculum revision minutes of relevant BoS meetings.

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Vijayapura-586103, Karnataka



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VIJAYAPURA

BOARD OF STUDIES (ANATOMY)

MINUTES OF MEETING

TIME: 10A.M TO 12-30 A.M
VENUE: UNIVERSITY PREMISES

DATE: 17-02-2016

DR. B.M.BANNUR. Chaired the meeting and welcomed the members,

External BOS member **Dr. V S Shirol** JNMC Belgaum attended the meeting

Following points were discussed and suggestions were made.

PREVIOUS MINUTES OF MEETING CONFIRMATION

1. Confirmation of the BOS meeting held on 29/08/15 were read and accepted
Resolution: confirmed

The following are the points which discussed in the meeting

2) CURRICULUM OF ALLIED COURSES

Approved as existed

3) NEW COURSES

Approved as existed and No new courses were suggested

4) REVIEW OF EXISTING COURSES

Undergraduate MBBS:

After obtaining inputs from various stakeholders regarding existing curriculum, revision was done. (Annexure I)

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POST GRADUATE CURRICULUM:

Reviewed and approved the existing courses

Examinations: Suggested for final Theory examination each question carry 10 marks total 10 questions in each paper **10X10=100 marks**

5) REVIEW OF PH.D PROGRAMMES

Reviewed and approved the existing programmes

6) QUESTION PAPERS VS RESULTS ANALYSIS

Question Papers Vs Results: Were discussed and suggested the following points
Question papers to be moderated every examination.

7) PREPARATION OF CURRICULUM ON AREA OF SPECIALIZATION FOR PH.D EXAMINATION (BACKGROUND PAPER).

Maintained as it is discussed in the last BOS meeting

8) REVIEW OF PROGRESS REPORTS OF PH.D SCHOLARS

Remarks from the Ph.D Committee about the report of Ph.D scholars were discussed and approved

Two Ph.D Scholars 2010 batch awarded Ph.D Degree

1. Mr Javeed Ansar Rasheed 2nd progress report submitted 2012-13 batch
2. Mrs Rohini Kori 7th progress report submitted 2011-12 batch
3. Mr Shaikh Hussain sahib 7th progress report submitted 2011-12 batch
4. Mrs Saniya Institutional Ethical clearance obtained 2014-15 batch
5. Dr. Prakash K G. Institutional Ethical clearance obtained 2014-15 batch
6. Dr Lohit shaha 2nd progress report submitted 2014-15 batch
7. Dr Roshini S. Synopsis submitted 2015-16 batch

9) PANEL OF EXAMINERS: Copy attached

10) Any other matter with the permission of the chair.

DATE: 17/02/2016

PLACE: Vijayapur

Chairman Board of Studies
PROF & HOD

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Professor & H.O.D.
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Annexure I : Undergraduate MBBS : Changes made in Anatomy Curriculum 2016-17

Sl. No	Content	Existing	Change made
01	Course content	Karyotyping procedure was taught in theory	Procedure is taught and shown in the genetic lab
02	Teaching learning methods	Integrated Teaching was not present in existing syllabus	<p>Integrated Teaching added in revised syllabus</p> <p>Human Genetics: Anatomical considerations (Anat), applied aspects (OBG & Paed.)</p> <p>Acid Peptic disease: Anatomy of stomach (Anat), Functional aspects of stomach (Phy), Pathophysiology of Acid Peptic disease (Path), Medical Management of acid peptic disease (Med), Surgical Management of acid peptic disease (Surg)</p> <p>Liver: Structure of Liver (Anat), functional aspect of liver (Phys), Biochemical aspect of liver (Bioch)</p> <p>Parkinsonism: Anatomy of Basal Ganglia (anat), Physiology of BG (Phys), clinical features, investigations & treatment (Med)</p> <p>Uterus: Anatomy of Uterus (Ana), Physiological changes (Phy), Applied aspects (OBG)</p> <p>Inguinal Hernia: Anatomy of Inguinal canal, Hernia (Ana), Surgical aspects & Management (Sur)</p> <p>Thyroid Gland: Anatomy of Thyroid Gland (Ana), Synthesis of</p>

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			<p>thyroid Hormones (Phy.) ,Medical Management of Thyroid disorders(Med),Surgical Management of Thyroid disorders (Sur)</p> <p>Shoulder Joint. - Anatomy of Shoulder joint.(Ana) Radiological features (Radio.) Applied Aspects and management (ortho)</p> <p>Knee Joint - Anatomy ofKnee joint.(Ana) Radiological features (Radio.) Applied Aspects and management (ortho)</p> <p>Blood Supply to Heart – Anatomy of Coronary Arteries, Physiology of Blood supply, Medical Management</p> <p>Congenital Anomalies of Heart – Development of Heart,(Ana) Applied Aspect (Paed.)</p> <p>Lungs –Bronchopulmonary segments Anatomy of BPS(Ana) Physiological Aspects of Respiration (Phy) Medical Management (Med)</p> <p>Mediastinum – Anatomy of mediastinum (Ana) Applied Aspects and management (Med.)</p>
3		Dissection practical was 5 days a week	Modified to 4 days a week and remaining 1 day spared for integrated teaching or quiz or seminar
4	Exam pattern	<p>University Examinations – Theory -2 Papers Each 100marks</p> <p>Long questions 10X2= 20 marks</p> <p>Short questions 5X 10= 50 marks</p>	<p>Proposed University Examinations –no changes made</p> <p>Theory -2 Papers -100marks</p> <p>Each paper 50marks Exam pattern Detail in minutes of Meeting.</p> <p>Practicals- 80marks</p> <p>Dissection 50marks</p> <p>Histology 30marks</p>

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	Short answers 3X10= 30 marks	Viva - 40marks
	Practicals - 80marks Dissection 50marks Histology 30marks Viva - 40marks	

List of Topics for Integrated Teaching Programme

During MBBS Phase – I course

Sl. No.	Topics	Department to organize	Departments to participate
1	Human Genetics: Anatomic considerations(Anat), applied aspects (Surgery & Paed)	Anatomy	Anatomy, Physiology, Biochemistry, Surgery & Pediatrics.
2	Acid Peptic disease: Anatomy of stomach(Anat), Functional aspects of stomach (Phy), Pathophysiology of Acid Peptic disease (Path), Medical Management of acid peptic disease (Med), Surgical Management of acid peptic disease (Surg)	Anatomy	Anatomy, Physiology, Pathology, Medicine & Surgery.
3	Liver: Structure of Liver (Anat), functional aspect of liver (Phys), Biochemical aspect of liver (Bioch)	Anatomy	Anatomy, Physiology, Biochemistry.
4	Parkinsonism: Anatomy of Basal Ganglia (anat), Physiology of BG (Phys), clinical features, investigations & treatment (Med)	Anatomy	Anatomy, Physiology, Medicine.
5	Uterus: Anatomy of Uterus(Ana), Physiological changes(Phy), Applied aspects(OBG)	Anatomy	Anatomy, Physiology, OBG

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6	Inguinal Hernia: Anatomy of hernia(Ana),Surgical aspects(Sur)	Anatomy	Anatomy, Surgery
7	Thyroid Gland: Anatomy of Thyroid Gland (Ana),Synthesis of thyroid Hormones (Phy),Medical Management of Thyroid disorders(Med),Surgical Management of Thyroid disorders (Sur)	Anatomy	Anatomy,Physiology ,Medicine,Surgery
8	Joints	Anatomy	Anatomy,Orthopeadi c,Radiology & Physiotherapy

MD Anatomy curriculum changes made in 2016:

Sl. No	Content	Existing	Change made
01	Course content	Chick embryo mounting and serial sections of embryo should be taken, stained with Haematoxyllin and Eosin.	Deleted: Chick embryo mounting and serial sections of embryo should be taken, stained with Haematoxyllin and Eosin Addition: Living anatomy
02	Suggested changes in summative assessment	Each Theory paper consists of Total 100marks 1 Long Essay questions 2x20=40 2 short Essay questions 6x10=60	Each Theory paper consists of – no change 1 Long Essay questions 2x20=40 2 short Essay questions 6x10=60 Total 100marks

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	<p>Practical's – 200 marks</p> <ol style="list-style-type: none"> Gross Anatomy – 100 marks, Histology – 100 marks <p>Gross anatomy=100 marks</p> <ul style="list-style-type: none"> Surface anatomy- 10 Dissection 40 Discussion 50 <p>Histology</p> <ol style="list-style-type: none"> Identification and discussion of 10 stained sections: 10 x 4 = 40 marks, which includes Neuro anatomy and Embryology Human Genetics 2 charts discussion: 2 x 5 = 10 marks Preparation of block & staining <ol style="list-style-type: none"> Prepare of a paraffin block -10 Taking serial sections from blocks provided -10 35 marks Staining of the given section with H & E and discussion -15 Discussion on Histological techniques -15 marks <p>Total =100 marks</p>	<p>Practical's – 300 marks</p> <ol style="list-style-type: none"> Gross Anatomy – 150 marks, Histology – 150 marks <p>Gross Anatomy – 150 marks</p> <p>Surface anatomy- 10</p> <p>Dissection 60</p> <p>Discussion 60</p> <p>Embalming 20</p> <p>Total 150</p> <p>Histology</p> <ol style="list-style-type: none"> Identification and discussion of 10 stained sections; 10 x 5 = 50 marks, 50 marks which includes Neuroanatomy, Embryology Human Genetics 2 charts discussion -2 x 10 = 20 marks 20 marks Preparation of block & staining <ol style="list-style-type: none"> Prepare of a paraffin block 20 Taking serial sections from blocks provided 20 Staining of the given section with H & E and discussion 20 Discussion on Histological techniques 20 marks
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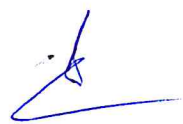
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		<p>M.D. (Anatomy) Examination Maximum marks</p> <ul style="list-style-type: none"> • Theory :400 Marks • Practicals :200 Marks • Viva-Voce :100 marks • Total:700 marks 	<p>Total =150 marks</p> <p>M.D. (Anatomy) Examination Maximum marks</p> <ul style="list-style-type: none"> • Theory :400 Marks • Practicals :300 Marks • Viva-Voce :100 marks • Total:800 marks
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DEPARTMENT OF PHYSIOLOGY

Ref. No. Phy/2016-17/

Date : 22-02-2016

To,
The Registrar,
BLDE University
BIJAPUR-586103.

Sub : Information regarding Proceedings of BOS meeting in Physiology.

Respected Sir,

BOS meeting in Physiology was held on 19-02-2016 (Friday) between 10am to 1.15pm in the chamber of HOD of Physiology.

The gist of proceedings during the meeting are as follows:

- Minutes of previous meeting which was held on 30-07-2015 were confirmed.
- List of Examiners (UG and PG) in Physiology was reviewed and accepted.
- Lists of Ph.D and PG guides in Physiology were reviewed and accepted.
- Draft of Pre Ph.D. course work was reviewed and accepted.
- Progress reports of Ph.D scholars were reviewed and accepted.
- Question Papers vs Results :

- a) UG Question papers of University examinations held during August-2015 were analysed and found to be appropriate. Out of 148 students (Regular) who appeared for Uni. Examination, 114 students passed (Passing %age : 77%). 25 students secured more than 75% (Ms. Aishwarya Honawad, Topper, 343/400=86%), 52 students secured % age of marks in the range of 65-74.9%, 36 students secured %age of marks in the range of 55-64.9% and 01 student secured %age of marks in the range of 50-54.9%. 34 students failed in the exams (from Regular batch) (29 students failed in Anatomy, Physiology and Biochemistry, 03

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Out of 34 repeater students appeared for Uni. Examinations held during August-2015., 09 students passed (Passing % age : 27%). 25 students failed in the Uni. Exams. (22 students failed in Anatomy , Physiology and Biochemistry and 03 students failed in Anatomy and Physiology).

- b) UG question papers of University examinations held during January-2016 were also analysed and found to be appropriate. Out of 54 students (Repeaters) (05 did not appear for Uni. Exams) appeared for Uni. Exams., 32 students passed (%age of passing : 59%) and 22 students failed (15students failed in Anatomy, Physiology and Biochemistry and 07 students failed in Anatomy and Physiology). To improve performance of Repeater batch students and to improve University result, Students should attend special classes and additional teaching programmes conducted by the department. They should also participate in periodic tests with full preparation. They should also discuss with the teachers regarding their difficulties in studies and find solutions. Unless they attend teaching activities seriously, It is difficult to improve the result of repeater batch students. In this connection, Parent counseling along with their wards may be done. It may help in reducing the magnitude of repeated failures in exams (that to in all three subjects of Preclinical phase). External member suggested to have a strong student counseling cell with Psychologist. Irrespective of whether the student is having Psychiatric problem or not, it is desirable to have assessment of mental health of individual student in the beginning of course and to identify the students with problems if any in the early phase of their career. Accordingly, corrective steps may be taken without undue delay.

➤ **PG syllabus was reviewed and following modifications were advised.**

Under Practical Training: In clinical Physiology: Along with General Examination, Physical examination to be included. In cardiovascular system: Examination of various arterial pulses, Measurement of JVP, Recording of BP and effect of posture and different exercises to be

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In Renal System : Renal Function Tests- Particularly clearance tests (Urea and creatinine) to be included. In Hematology in regard of Laboratory Procedures along with Blood grouping and cross matching, Blood transfusion techniques to be added. In place of determination of bleeding time and clotting time, Hemostatic tests to be added. Under year wise PG activities during 1st year of course, PG student is required to attend research methodology workshop, to attend teaching methodology workshop and to attend presentation skill workshop (to be newly added).

Under the section of Recommended Text and Reference books, Serial order of books has to be changed. Serial order of books – Ganong, Guyton and Best and Taylor as 1st, 2nd and 3rd (instead of 3,2, and 1).

External member suggested to include Dr. R.L Bijalani's Text Book of Physiology as Reference Book.

Under topics for Integrated teaching programme, In edema, along with subtopics for Depts of Physiology and Pathology, a subtopic : Medical approach to Edema- to Dept of Medicine to be added.

In Anemia, along with subtopics for depts. of Physiology, Pathology, Biochemistry, Medicine and Comm. Medicine., a subtopic : Childhood Anemia- to dept of Pediatrics to be added.

In hyper tension, along with subtopics for depts. of Physiology, Pathology and Medicine, a Sub topic: Non pharmacological management of Hypertension for dept of Behavioural Medicine to added.

In Diabetes mellitus, along with subtopics for depts. of Physiology, Medicine and Surgery, Subtopic : Regulation of blood glucose level and investigations in Diabetes mellitus to dept of Biochemistry, Subtopic : Oral hypoglycemic agents and insulin derivatives to dept of Pharmacology to be added.

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In Peptic ulcer, along with subtopics for depts. of Physiology, Pathway, Medicine and Surgery,
Subtopic : Gastric Function Tests – to dept of Biochemistry to be added.

New topics such as clinical approach to Infertility, Middle ear disorders, Pathophysiology of pain and Chronic Obstructive Airway Diseases to be added for Integrated teaching programme.

➤ UG syllabus was reviewed and following modifications were advised.

To add a separate subtopic –Biopotentials in General Physiology. To add subtopics- Reticulo endothelial system, morphology and function of Platelet and Blood bank – in System, Blood.

To add a separate subtopic – Space Physiology in Resp. System. To add separate subtopics – Cardiovascular regulatory mechanism and Exercise Physiology in CVS. To add separate

subtopics –Energetics of Nerve and muscle, Work Physiology, Injury and repair of Nerves and Muscle, Types of contraction in M N. Physiology. To add separate subtopic – Nutrition

(Introduction to Nutrition, BMR, Carbohydrates and dietary fibres, Proteins and Fats, Recommended dietary allowances, Diet during infancy, Childhood, pregnancy and lactation,

Obesity and its complications) in GIT.

To add new topic Yoga (Introduction, Yoga Practices, Meditation-Principles and Practice, Physiological effects of Yoga, Yoga in health and disease).

To add new topic – Environmental Physiology (Introduction, Body temp. regulation, Man in hot and cold environment. Hypothermia and its uses, Physiological response to high attitude and high atmospheric pressure).

Under Practical Physiology, In hematology section, Describing- Determination of Total RBC Count, Total WBC Count, Differential WBC Count and AEC-as Hematology Major

Experiments. Describing – Determination of Hemoglobin content of blood, BT, CT, Blood Group and Blood indices as Hematology Minor Experiments. In the section-Interpretation of

charts, External member suggested to add the following :

- ECG in Lead II- to calculate HR, duration of PR Interval and to identify J Point.
- Flow –Volume loop.

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- Artificial Kidney
- Ryles' Tube
- Investigation reports of Patients.

In the University Examination, External Member suggested to add MCQs of Single Best Answer type without negative marking to an extent of 20% (in each theory paper).

- He also suggested to have adequate floor space in various sections of dept (Amphibian Laboratory and Accommodation for staff) as per MCI requirements.

Along with External Member, Following staff members were present during meeting

- Following staff members were present during meeting.

Sl.No.	Name of the staff	Designation
01	Dr. Manjunatha Aithala	Chairman,
02	Dr. Sumangala Patil	Member
03	Dr. K.K.Das	Member
04	Dr. Lata Mullur	Member
05	Dr. C.M.Kulkarni	Member
06	Dr. Shrilaxmi Bagali	Member
07	Dr. Gouher Banu S	Member

Thanking you,

Yours Faithfully

Dr. Manjunatha Aithala

Professor & H. O. D.

Dept. of Physiology,

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Medical College, VIJAYAPUR.

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Changes in UG Syllabus theory 2016-17

Existing factors	Changes to be brought about (Revised part)
New sub topic in General Physiology	Biopotentials in General Physiology
In Blood	Reticulo endothelial system, morphology and function of Platelet and Blood bank
In Respiratory system	Space Physiology
In CVS	Cardiovascular regulatory mechanism and Exercise Physiology
Separate sub topic	Energetics of Nerve and muscle, Work Physiology
In N M Physiology	Injury and repair of Nerves and Muscle, Types of contraction
Separate sub topic in GIT	Nutrition
New sub topic	Yoga
New sub topic	Environmental Physiology

Changes in UG Syllabus Practical 2016-17

Existing factors	Changes to be brought about (Revised part)
New Topic	ECG in Lead II- to calculate HR, duration of PR Interval and to identify J Point.
New Topic	Flow –Volume loop
New Topic	Artificial Kidney
New Topic	Ryles' Tube insertion
New Topic	Investigation reports of Patients

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Changes in PG curriculum 2016-17

Existing factors	Changes to be brought about (Revised part)
Clinical examination of CVS	Examination of various arterial pulses, Measurement of JVP, Recording of BP and effect of posture and different exercises to be included.
Clinical examination of RS	Basic Life Support to be included.
Clinical examination of Abdoman	Fractional Test Meal and Liver Function Tests to be included.
In Renal System	:Renal Function Tests- Particularly clearance tests (Urea and creatinine) to be included.
Blood grouping and cross matching	Blood transfusion techniques to be added
bleeding time and clotting time	Hemostatic tests

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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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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
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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,
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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.	<p>Theory – Addition-</p> <ol style="list-style-type: none"> Whole organism study, organ perfusion, tissue slice technique, cell and tissue culture, Cell fractionation, Isolation and purification of N. A. Laboratory safety measures. Nanotechnology <p>Practical-</p> <ol style="list-style-type: none"> Estimation of proteins by Biuret method and dye binding method. <p>Deleted-</p> <ol style="list-style-type: none"> Titration of amino acid – Formal titration & pK values Estimation of ethyl alcohol in blood and urine
	<p>Course postings revised as follows:</p> <ol style="list-style-type: none"> Pathology - 15 days Microbiology -15 days Blood bank – 15 days Paediatrics – 15 days Neurology: 15 days. 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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