



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

BOARD OF STUDIES (MICROBIOLOGY)

Minutes of B.O.S. meeting conducted on 20.02.2016.

B.O.S meeting of Microbiology was held on 20.02.2016 at 10:30 A.M. in the Board room of BLDE University, following members attended the meeting.

1. Dr.P.R.Shahapur, Chairman B.O.S Microbiology
2. Dr Aparna Takpere- Member B.O.S
3. Dr A G Sajjan- Member B.O.S
4. Dr.Smitha. Bagali – Member B.O.S
5. Dr.Jyoti P -Member B.O.S
6. Dr Rashmi Karigoudar– Member B.O.S
7. Dr.Savio Rodrigues External member, B.O.S Microbiology

Confirmation of the minutes of previous meeting were passed.

Curriculum of allied courses and new courses – DMLT as allied course was suggested once again by external member of B.O.S. Physiotherapy Diploma was also suggested as a new course, as these courses can be started with existing infrastructure only.

Review of existing courses: P.G. Curriculum –

P.G curriculum is as per the MCI norms but external member suggested the Animal Experiments exercise can be removed as it is not practiced routinely by most of the departments in country. Feedbacks from various stakeholders regarding existing curriculum was collected and analyzed. Following changes were suggested for revision of curriculum.

(Annexure I)

U.G. Curriculum

All members suggested, in UG practical examination viva voce virology should be covered separately. Feedbacks from various stakeholders regarding existing curriculum was collected and analyzed. Following changes were suggested for revision of curriculum. (Annexure II)

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Review of PhD Programs: For PhD course in microbiology 1 candidate registered this year. The need of co-guide from the department/university was once again stressed upon and that will in turn help in the academic and research growth in the campus.

Preparation of curriculum on area of specialization for Pre PhD Examination: The

external member is of the opinion that , the degree awarded will be Ph.D in Microbiology hence the back ground Paper for Pre-PhD should include Recent advances, ongoing epidemics, molecular diagnostic methods and relevant National programmes of concerned specialty.

Question paper Versus result analysis

Question paper & result analysis of M.B.B.S Students Phase II appeared in Jan 2016 was analyzed. Question papers were found to be adequate. The result analysis was as follows

Total allotted for the examination:- 126

Candidates absent – 13

Appeared for the examination:-113

Pass- 86 (76.1%)

First class: 47 (54.7%)

Pass Class: 39 (45.3%)

Fail- 27 (23.9%)

Review of panel of examiners: Panel of internal and external examiner was reviewed by all B.O.S. members and approved by the members.


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Annexure I

PG curriculum Revision 2016 (MICROBIOLOGY)			
Sl. No	Content	Existing	Change made
1	Goals	<p>At the end of course the student may be able to work following areas as</p> <ol style="list-style-type: none">1.Clinical microbiologist - Train students of medicine in the field of medical Microbiology. Theoretical and Practical training is given to in the subspecialties viz., Bacteriology, Virology, Parasitology, Immunology and Mycology so that Microbiologist should guide the clinician for proper diagnosis and treatment of infectious diseases for better patient care.2.Biomedical research - They are introduced to basic research methodology in Medical Microbiology. He may be able to plan and organize the basic research in medical Microbiology conduct fundamental and applied research.3. Teaching: They are also trained in teaching methods which may enable them to take up teaching assignment in medical colleges/institutions and also guide the designing of curriculum, lesson plan for theory and practical classes.	No changes suggested
2	Objectives	<p>At the end of the course the students will be able to:</p> <ol style="list-style-type: none">1. Establish good "Laboratory medicine" in hospital and community in the field of bacteriology, virology, Parasitology, immunology and mycology.2. Participate in hospital infection control and guide appropriate hospital waste disposal.3. Undertake teaching assignment of microbiology in a medical college.4. Undergo specialization in any of the above subspecialties.5. Carry out applied and	No changes suggested

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		<p>fundamental research in various branches of medicine involving microbiological work. 6. Assist to conduct investigations of outbreaks of infectious diseases in public health field.</p> <p>Specific Learning Objectives: At the end of the course a postgraduate student in Microbiology should be able to: 1. Demonstrate comprehensive knowledge and understanding of Microbiology. 2. Comprehend and understand the life cycles of microbes and the diseases caused by them. 3. Select and use appropriate teaching techniques and resources. 4. Critically evaluate published journal literature and to effectively use the library facilities including computer, C.D. Rom and Satellite search. 5. Carryout relevant research. 6. Function as an effective member of teaching team or research team. 7. Carryout professional obligations ethically and keeping in view national health policy.</p>	
3	Course Content	<p>Theory topics existing in the present curriculum Biomedical waste management, 1998.</p> <p>Skills: Care and breeding of laboratory animals viz., Mice, Rats, Guinea pigs Rabbits, and also experiments on various laboratory animals, Conjugation experiments, In-vitro culture for parasites, viz., Malarial parasites and Amoeba, Maintenance of</p>	<p>Topics removed from curriculum: Theory: Biomedical waste management, 1998.</p> <p>Skills: Care and breeding of laboratory animals viz., Mice, Rats, Guinea pigs Rabbits,</p>

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		toxoplasma, Fecal culture for diagnosis of Nematode larvae, Chick embryo techniques,	and also experiments on various laboratory animals, Conjugation experiments, In-vitro culture for parasites, viz., Malarial parasites and Amoeba, Maintenance of toxoplasma, Fecal culture for diagnosis of Nematode larvae, Chick embryo techniques, Topics included: Theory: Biomedical waste management, 2015. Antifungal drugs and susceptibility testing Immunization Schedules Sexually transmitted diseases Skills: Sputum concentration techniques, Laboratory diagnosis of toxoplasma, Laboratory diagnosis of malaria, Laboratory diagnosis of Coccidian parasites, ELISA technique for viral diagnosis
4	Teaching-	1 Seminars 2. Culture seminars &	No changes suggested

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	Learning methods	<p>serological tests 3. Animal experiments 18 4. Journal clubs 5. Symposia 6. Teaching – undergraduate students 7. Slide seminars 8. Preparation of dissertation under the guidance of a recognized teacher 9. Postings to other institutions 10. Guest lectures Seminars once in week, Culture seminars once a week, Clinical sample seminars once a month, journal club once a week, symposia once in semester.</p> <p>Students will be posted for Allied and Applied Departments during the period of III, IV and V terms. Total period not exceeding 3 months. The departments are: 1. Virology & Vaccinology etc., - 1 month 2. Clinical Pathology - 1 month 3. Clinical Biochemistry - 1 month The candidates are posted to different institutions for applied Microbiology like Virology, Vaccinology etc</p>	
5	Formative assessment	<p>Progress of the student is monitored by conducting periodical assessment tests The Student shall maintain a Log Book and assessment records are maintained by the Guide/s and Head of the Department.</p>	No changes suggested
6	Suggested changes in summative	<p>Theory consists of four papers each of 100 marks : 400 Marks Practicals conducted for 3 days : 200 Marks Viva-voce : 100 Marks</p> <p>Details of distribution of topics for each paper will be as follows: PAPER I General Microbiology and Immunology PAPER II Systematic Bacteriology PAPER III Mycology and Virology PAPER IV Parasitology.</p>	<p>Changes suggested Practicals : 300 Marks</p> <p>PAPER IV : Parasitology and Applied Microbiology</p> <p>Topic distribution for practical 1 Long exercise Bacteriology 60 marks</p>

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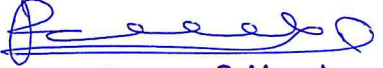
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	<p>Topic distribution for practical</p> <ol style="list-style-type: none">1 Exercise in clinical bacteriology. Isolation and identification of bacteria from various clinical samples(50 marks),2. Exercise in bacteriological techniques.(20 marks) Isolation and identification of bacteria from a pure culture3. Identification of various fungi, and slide culture (20 marks)4. Exercise in virological techniques(20 marks)5. Exercise in Parasitology(20 marks)6. Histopathology: Identification of slides (20 marks)7. Serology exercise in Bacteriology and Virology(20 marks)8. Applied bacteriological techniques or special Staining or Serology exercise any one exercise (20 marks)9. Laboratory animals; handling,use and care of laboratory animals(10 marks) <p>Total marks for practical 200</p>	<p>2 Short exercise Bacteriology 30 marks 3Mycobacteriology / Special staining 30 marks Exercise in Virology 30 marks Exercise in Immunology 30 marks 6 Exercise in Mycology 30 marks 7 Exercise in Parasitology 30 marks 8 Serology Exercise 30 marks 9 Identification of Slides 30 marks</p> <p>Total marks for Practicals 300 marks</p>
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Annexure II

UG curriculum revision 2016 (MICROBIOLOGY)			
Sl. No	Content	Existing	Change made
1	Goals	-	Goals introduced: 1. Globally competitive centre of excellence in infectious disease diagnosis and research 2. To produce next generation of global leaders in infectious disease. 3. To produce highly skilled & competent microbiologist to face emerging infectious disease threats 4. To support our national needs of infectious disease diagnosis, outbreak investigations and preventive measures.
2	Objectives	As per previous pattern	No changes suggested
3	Course Content	Demonstration of three serological tests 1) Hemagglutination test 2) Hemagglutination inhibition test 3) complement fixation test were present in existing syllabus	Demonstration of three serological tests 1) Hemagglutination test 2) Hemagglutination inhibition test 3) complement fixation test were present in existing syllabus are removed from revised syllabus. Following topics are added: Theory: Collection of samples Viral Vaccines Emerging & remerging viral infections Automated systems in microbiology Molecular methods in diagnostic microbiology Practical: Determination of C reactive protein Determination of Antistreptolysin O Determination of Rheumatoid factor Weil-Felix test Brucella agglutination test
4	Teaching-Learning methods	Students were motivated to prepare models	Teaching schedule theory specified with topics for various teaching- learning methods like lecture, seminars, group discussion, tutorials & self study.

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		and flow charts for better understanding of structure of microorganism and their life cycle	Teaching schedule practical specified with topics for various teaching- learning methods like chart discussion. Topics for seminar: 1. Normal microbial flora 2. Monoclonal antibodies 3. Non sporing anaerobes 4. Miscellaneous Bacteria – I 5. Miscellaneous Bacteria – II 6. Miscellaneous Viruses 7. Trematodes (except schistosomes) 8. Oncogenic viruses 9. Mycotoxicosis, otomycosis and occulomycosis 10. Larva migrans Topics for Tutorial: 1. Collection & transportation of sample 2. ABST 3. Biomedical waste management 4. Immunoprophylaxis 5. Bacteriology of Water, milk air 6. Recent advances in diagnostic microbiology 7. Lab diagnosis of Parasitic infection 71 8. Lab diagnosis of Fungal infection 9. National programs 10. Standard Precaution Topics for Group discussion: 1. Blood stream Infection 2. Respiratory Tract Infections 3. Meningitis 4. Urinary Tract Infections 5. Sexually Tract Infections 6. Diarrhea and food poisoning 7. Skin and soft Tissue Infections 8. Pyrexia of Unknown origin 9. Zoonoses 10. Nosocomial Infections
5	Formative assessment	As per previous pattern	No changes suggested
6	Suggested changes in summative assessment	As per previous pattern	No changes suggested


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