

S.P. Manadali's

RAMNARAIN RUIA AUTONOMOUS COLLEGE, MUMBAI-19

Minutes of the meeting of the Board of Studies in BIOTECHNOLOGY

Date: 23rd August 2019

Time: 11a.m.-12.00am

Venue: Department of Biotechnology

Members Present:

Sr. No.	Name	
1.	Ms. Supriya Kale	Head, Department of Biotechnology
2.	Ms. Pramada Karnik	Assistant Professor, Dept of Biotechnology
3	Ms. Navjeet Kaur	Assistant Professor, Dept of Biotechnology
4.	M. Neha Ahir	Assistant Professor, Dept of Biotechnology
5	Ms. Kalpana Dabhade	Assistant Professor, Dept of Biotechnology
6	Ms. Pallavi Ghogale	Assistant Professor, Dept of Biotechnology
7.	Ms. Grishma Shetty	Assistant Professor, Dept of Biotechnology
8.	Dr. Sneha Panvalkar	Head, Dept of Biotechnology, G.N.Khalsa College, VC nominee.
8.	Dr. Reena Pandit	Member from university other than parent University
9.	Dr. Manju Sharma	Member from university other than parent University
10.	Dr. Manavi Vernekar	Meritorious alumni
11.	Mr. Viraj Tawsalkar	Industry Expert
12.	Dr. Sujata Suvarnapatki	Dean Academics, Ramnarain Ruia Autonomous college.



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AGENDA NO. 1 : To approve minor changes in the syllabus

Discussed : the suggested changes in annexure 1

Resolved : the changes was approved

Following changes were made:-

Msc Part II

- Msc Part II (RPSBTK402) Additions :Neurulation (Formation of notochord)-Overview of Developmental milestones (Second to ninth month),How to determine age of a foetus & date of delivery, Clinical Correlates (in Brief) like Erythroblastosis fetalis, effect of teratogen, umbilical cord abnormalities, amniotic fluid abnormalities, twin defects & preterm births.
- Semester IV project shifted to semester III
- No changes in other papers

SYBSC

- SYBSC (RUSBTK304)-ADDITION:- Special Chromosomes (A)- Giant- Polytene, Lampbrush; (B)- B Chromosomes/Supernumery (Introduction only).
- No changes in rest of the papers

TYBSC

- RPSBTK505 applied component unit III and unit IV rearranged
- No changes in the rest of papers.

AGENDA NO. 2: To discuss and approve paper pattern

Discussed : the existing paper pattern of UG and PG both internal and Semester was presented

Resolved: the paper pattern for UG and PG was approved.

Paper Pattern for UG

Questions Options Marks Questions on

Q.1)A) Any 5 out of 8 05M Unit I

Q.1)B) Any 3 out of 5 15M

Q.2)A) Any 5 out of 8 05M Unit II

Q.2)B) Any 3 out of 5 15M

Q.3)A) Any 5 out of 8 05M Unit III

Q.3)B) Any 3 out of 5 15M



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Paper Pattern for PG

Questions	Options	Marks	Questions on
Q.1)A)	Any 1 out of 2	8	Unit I
Q.1)B)	Compulsory	7	
Q.2)A)	Compulsory	8	Unit II
Q.2)B)	Any 1 out of 2	7	
Q.3)A)	Any 1 out of 2	8	Unit III
Q.3)B)	Compulsory	7	
Q.4)A)	Compulsory	8	Unit IV
Q.4)B)	Any 1 out of 2	7	

AGENDA NO. 3: To approve question papers of last semester set under autonomy for UG and PG was approved

Discussed : All the question papers of last semester of UG and PG classes were presented

Resolved: Approved

AGENDA NO. 4: to approve PHD coursework

Discussed : PhD coursework as in alignments with University of Mumbai was presented

Resolved: PhD coursework approved with some suggestions from BOS

1. PhD coursework should be peer reviewed every year instead of once.

AGENDA NO. 5 feedback discussion from alumni, industry and peers

Discussed : feedback from alumni were presented and discussed



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Resolved : feedback regarding including MALDI TOF topic in bioinstrumentation in msc part 1 was approved. BOS also suggested to have a documented data of alumni and their placements

AGENDA NO.6: BOS asked for any other suggestion on overall academics for its improvement and development

Discussed : Different activities to be undertaken for the students to develop their interest

Resolved : Group presentation for UG and PG students on varied applied topics related to the field of biotechnology

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Ms. Supriya kale

HOD

Biotechnology

Ramnarain Ruia Autonomous College

Mumbai



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**S.P.Mandali's
Ramnarain Ruia Autonomous College
Department of Biotechnology
Minutes of the Meeting
E- BOS meeting**

Date : 09/04/2020

Time: 11a.m-1.00am

Meeting attended By:

Sr. No	Name of the Member	Designation of the Member
1	Ms. Supriya Kale	Head, Department of Biotechnology
2	Ms. Pramada Karnik	Assistant Professor, Dept of Biotechnology
3	Ms. Neha Ahir	Assistant Professor, Dept of Biotechnology
4	Ms. Grishma Shetty	Assistant Professor, Dept of Biotechnology
5	Ms. Rutuja Gupte	Assistant Professor, Dept of Biotechnology
6	Ms. Sowbhagya Nadar	Assistant Professor, Dept of Biotechnology
7	Dr. Sneha Panvalkar	Head Department, Biotechnology, Guru nanak Khalsa College
8	Dr. Reena Pandit	Member from University other than parent University
9	Dr. Manju Sharma	Member from University other than parent University
10	Dr. Aditya Sarnaik	Special Invitee
11	Dr. Manvi Vernekar	Meritorious alumni
12	Mr. Viraj Tawsalkar *	Industry expert
13	Dr. Varsha Shukla	College representative

- *: Due to prior commitment our industry expert could attend the meeting only for half an hour.

AGENDA:



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1. To revise and approve the syllabi for FY/SY/TYBSc/ MSC Part I& II Odd semester classes.

Discussed That:

Following changes were proposed :-

FYBSC SEMSTER I

1. RUSBTK105 - Addition of **Study of Food Contaminants in** Unit III- Food and agriculture Biotechnology.
2. No change in rest of the papers.

FYBSC SEMSTER II

1. RUSBTKP205 practicals-Addition Invertase/ Pectinase/ Pepsin
2. No changes in the rest of papers.

SYBSC SEMESTER III

1. RUSBTK306 Bioprocess Technology & **General Microbiology**, 1. Addition of General Microbiology of air,water and soil in unit III
2. RUSBTK307 Research Methodology & Scientific writing addition of separate unit of scientific writing
3. RUSBTKP303:Addition of few new practicals - Qualitative & Quantitative WIDAL test) Abnormal Karyotype (By software)
4. RUSBTKP305: following practicals added
 - Addition of enrichment of organisms from air.
 - Addition of enrichment of organisms from water
 - Addition of enrichment of organisms from soil.
 - Addition of preparation of Winogradsky's column.
 - Addition of contact slide method
5. No changes in rest of the papers

TYBSC SEMESTER V

1. RUSBTK501 Cell biology:-Addition of topics related to basics of cancer biology in units 1 , Cell permeability, transporters and cell junctions topics added in Unit IV
2. RUSBTK503 Genetics and Molecular biology-Addition of **cancer** genetics topics : Molecular genetics of cancer, oncogenes and tumor suppressor genes in Unit IV
3. RUSBTK504 Industrial Biotechnology -opics added :production of Vitamin B12, Microbiological Assays for pharmaceutical products, Regulatory Microbiological testing in pharmaceuticals in Unit IV
4. RUSBTK505 Forensic Science- 1- Paper introduced as applied component
5. RUSBTKP501-Detection of diabetes by GOD-POD was removed, practicals added- smosis, Lipid Solubility of membranes, Production of micelles, Titration curve of amino acids, Bioassay of Vitamin b12.



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6. No changes in the rest of papers.

MSc Semester I

1. RPSBTK102 Immunology- **ADDITIONS** : INFLAMMATION:- Key mediators of inflammation, inflammation process, anti-inflammatory drugs
2. RPSBTK104 BIOCHEMICAL AND BIOPHYSICAL: **ADDITIONS**: types of PCR: Multiplex PCR, Nested PCR, RT – PCR, Real time-PCR
3. RPSBTK104 : Standardization /optimization of PCR, Demonstration of HPLC/GC/FTIR/ NMR- Practicals were added
4. No changes in rest of papers.

Msc Semester III

1. RPSBTK301 NANOTECHNOLOGY-paper shifted from semester IV to semester III.
2. RPSBTK302 IPR : Paper shifted from semester IV to semester III
3. RPSBTK303 CLINICAL STUDIES-Paper shifted from semester IV to semester III
4. RPSBTK304 BIOSTATISTICS-Shifted from semester IV to Semester III

Suggestions From the BOS:-

1. Suggested Mr. **Aditya Sarnaik** for Addition of reference management software like Mendley in RUSBTK307
2. Suggested Mr. **Dr. Reena Pandit** for **Addition of grammarly software** Mendley in RUSBTK307 .
3. RUSBTKP505-One suggestion given by Dr. Sneha Panvalkar to explore the possibility to include odontology in practicals as well For next academic year
4. RUSBTK104-suggestion from Dr. Aditya Sarnaik to add following techniques CPEC, Gibson assembly, golden gate assembly, CRISPR-Cas9
5. Rest all the changes were approved without any further suggestions .

Resolved that

- Suggested changes from the BOS accepted and approved and would be incorporated in the respective syllabi.

AGENDA II

2. To decide on the changes in the modalities of assessment, is any, which includes the question paper pattern, for internal and external examination.

Discussed That



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- The changes were done in practical component of FYBSC & SYBSC section, no changes for TYBSC. MSC 1 & 2 both practical and Theory component changes were done.
- All are attached in the form of table

APPEENDIX 2- changes in Modalities

Class	Theory / practical component	Proposed changes	Approved / Suggestions by BOS members
FYBSC	Practical assessment modality	10 marks previously assigned for viva split into 05 marks for viva and 05 marks for spots.	APPROVED
SYBSC	Practical assessment modality	10 marks previously assigned for viva split into 05 marks for viva and 05 marks for spots.	APPROVED
TYBSC	No changes	--	APPROVED
MSC	Theory component	The 7 and 8 marks questions can be further (If needed) be divided into 4,3/4, 4 marks sub questions	APPROVED
MSC I	Practical component	Research proposal to be given in semester I weightage: 25 M in paper IV removal of the Read outs of HPLC, GC, NMR from practical.	APPROVED



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MSC II	Practical component	As given in the following table	APPROVED
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Suggestions from the BOS:-

- For Msc part II research project assessment: marks to be included from the project guide as one of the criterion..

Resolved That:

- Department would look into the changes suggested by BOS and make amend for the same

DISSERTATION MARKS DISTRIBUTION FOR 2019-2021 BATCH

TOTAL- 200 MARKS

GUIDE (50M)	INTERNAL EXAMINER (50M)	Departmental teachers panel (Three) (Excluding the internal examiner) (50M)	EXTERNAL EXAMINER (50M)
Punctuality - 5M	Viva Voce - 15M	Timely submission - 10M	Viva Voce - 15M
Attendance - 10M	Interpretation/ discussion/ conclusion - 15M	Fortnight report - 10M	Interpretation/ discussion/ conclusion - 15M
Table work - 30 M	Presentation skills- 20M	Thesis and Table work- 30M	Presentation skills- 20M
Reference - 5M			

3rd AGENDA:

To identify and approve 2-4 Certificate Courses offered by NPTEL Swayam /MOOC.

Discussed That:-

Following courses were suggested



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NPTEL

1. Interactomics: Basics & applications of forensic science (UG)
2. Introduction to proteogenomics.(UG)
3. Introduction to proteomics. (UG)
4. Introduction to biomicrofluidics(UG)
5. Biostatistics: Designs of experiments analytical techniques (PG)
6. Biomedical nanotechnology (PG)
7. Biomaterials for tissue engineering and applications (PG)

MOOC

1. Drug development (both UG&PG)

Suggestions by BOS:-

Suggestions by Dr. Varsha Shukla : younger staff members attend the courses and give reviews. And then give feedback for which students can attend.--

Resolved That

MS. Pramada Karnik will be attending Biostatistics: Designs of experiments analytical techniques (PG) course.

4th AGENDA:

To review the feedback of students on the Curricula.

Discussed That

1. The feedback was reviewed class wise starting from TYBSC to FYBSc followed by MSC I & II.
2. Majority the students are happy with syllabus the overall rating for syllabus was good. However certain specific suggestions were given by the students were addressed separately.
3. Feedback By FYBSC-inclusion of neuroscience
4. Feedback By SYBSC- Syllabus for medical microbiology should be divided into two semesters, Syllabus should include industry internship
5. Feedback by TYBSC-Advanced Practicals ,Marine biotechnology should be removed, Some of the topics and practicals are repeated
6. Feedback from Msc - removal of repeated UG topics, introduction of bioinformatics new tools

Resolved That

1. Feedbackby FYBSC-inclusion of neuroscience- is a heavy topic for FYBSc level so it can probably be included in higher classes.
2. Feedbackly SYBSC-Not feasible – existing syllabus has only few bacterial diseases and does not include viral, parasitic infections. So need not be divided in different semesters. Industries don't allow students of SY level for internships and its not feasible to include in Syllabus, however students are encouraged to attend the internship ,repeated chemistry topics removed



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3. Feedback by TYBSC- Marine Biotechnology is removed and Forensic Science is added .
4. Feedback from MSc- The new and more recent topics are already included, Biostatistics is included in semester III in alignment with their project as its needed there. Bioinformatics tools will be introduced in MSC 1 wherever possible – details however will be covered in paper 4 as a part of syllabus

5th AGNEDA:

To review Questions Papers of previous exams and comparison with the University Question Papers.

Discussed That

The comparative table displaying the variety in the questions of Biotechnology Department question paper w.r.t analytical, evaluative to that of University Biotechnology papers with major emphasis on memory based questions was studied by the members.

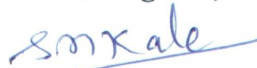
Also some of the question papers were displayed on the screen which were approved by the members.

Resolved That :-

As per Dr. Sneha Panvalkar Madam's suggestion the PDF copy of the question paper will be separately sent to the BOS members for their perusal.

Thank you,

With best regards,



Supriya Kale,

Head, Department of Biotechnology,

Ramnarain Ruia Autonomous College

