

RAMNARAIN RUIA AUTONOMOUS COLLEGE, MUMBAI-19

Dept of Bioanalytical Sciences

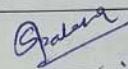
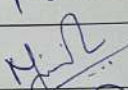

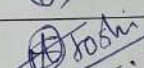
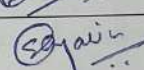
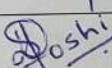
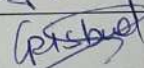
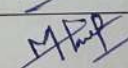
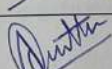
Minutes of the meeting of the Board of Studies in Bioanalytical Sciences

Date: 26.09.2024

Time: 2:00 pm to 3:00pm

Venue: e-meeting via Google Meet platform

Members Present:

Sr. No.	Name	Signature
1.	<u>Dr. Krishnapriya Mohanraj</u>	Present online
2.	<u>Dr. Ajit Datar</u>	Present online
3.	<u>Dr. Sachin Palekar</u>	
4.	<u>Dr. Sanket Bapat</u>	Present online
5.	<u>Dr. Nandini Girish</u>	
6.	<u>Dr. Madhura Dhavale</u>	
7.	<u>Ms. Anushka Joshi</u>	
8.	<u>Ms. Sayali Rane</u>	
9.	<u>Ms. Dhanashree Dharap</u>	
10.	<u>Ms. Gauri Risbud</u>	
11.	<u>Ms. Monali Thorat</u>	
12.	<u>Dr. Anuttama Kulkarni</u>	

Minutes of Meeting

Agenda I: To confirm the minutes of the previously held BOS Meeting.

Discussed that:

1. The minutes were confirmed by the members.

Resolved that: NA

Agenda Item No. II:

To seek approval for the changes in the syllabi as per NEP2020 structure for FY/SYBA/SYBSc/SYBVoc (Semester II and IV for the year 2024-25), MA/MSc (Part I/II for the year 2024-25) and TYBA/BSc/BVoc Semester VI (Non-NEP)

Discussed that: No new changes were introduced.

Resolved that: NA

Agenda Item No. III: To seek suggestion on Field Projects/CEP (Community Engagement Programs) to be conducted in Semester III and IV (2024-25)

Discussed that:

1. Field projects will be done in group of 4/5
2. Marks will be given as per individual contribution
3. Evaluation will be done on the basis of – Attendance, Concept, Data, Learning outcomes
4. Reports will be submitted individually

Agenda Item No. IV: To seek approval for the changes in the Modalities of assessment, if any

Discussed that: BOS members suggested to increase credits for practicals for the next academic year.

Resolved that: It will be discussed in Academic Council Meeting.

Agenda Item No. V: To seek approval for the new certificate courses, if any (for 2024-25)

Discussed that: Following certificate course were approved:

1. **Essentials in Planar Chromatography (Skill based)**

Duration: 30 hours

Syllabus:

- Principles of Planar Chromatography
- Advances in Planar Chromatography (TLC, HPLTC)
- Instrumentation, Working and applications of HPTLC
- Lab sessions on TLC, HPTLC

2. Essentials in High Performance Liquid Chromatography (Skill based)

Duration: 30 hours

Syllabus:

- Principles of Liquid Chromatography
- Instrumentation, Working and applications of HPLC
- Lab sessions on HPLC

3. Phytochemical Extractions (Skill based)

Duration: 30 hours

Syllabus:

- Basic principles of extraction
- Concepts in Phytochemical Extraction
- Classical & modern methods of extraction
- Lab sessions on phytochemical extractions

4. Analytical instrumentation for Phytochemical Analysis (Skill based)

Duration: 30 hours

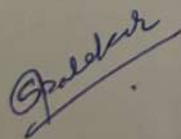
Syllabus:

- Spectroscopy in phytochemical analysis
- TLC & HPTLC in Phytochemical Analysis
- HPLC in Phytochemical Analysis

Discussed that: These syllabi were approved.

Agenda VI: Any other matter with the permission of the chair.

Discussed that: NA



Dr. Sachin Palekar
Head, Dept. of Bioanalytical Sciences

RAMNARAIN RUIA AUTONOMOUS COLLEGE, MUMBAI-19

Dept of Bioanalytical Sciences

Minutes of the meeting of the Board of Studies in Bioanalytical Sciences

Date: 04.04.2025

Time: 2:30 pm to 4:30pm

Venue: Hybrid mode, Dept of Bioanalytical Sciences & Google Meet platform

Members Present:

Sr. No.	Name
1.	Dr.Krishnapriya Mohanraj
2.	Dr. Ajit Datar
3.	Mr. Subodh Chavan
4.	Dr. Sanket Bapat
5.	Dr. Sujata Suvarnapatki
6.	Dr. Sachin Palekar
7.	Dr. Sandhya Menon
8.	Dr. Nandini Girish
9.	Ms. Anushka Joshi
10.	Ms. Sayali Kadge
11.	Ms. Dhanashree Dharap
12.	Ms. Gauri Risbud
13.	Ms. Monali Thorat

Sachin Palekar



RAMNARAIN RUIA AUTONOMOUS COLLEGE, MUMBAI-19

Department of Bioanalytical Sciences

Attendance sheet of the Board of Studies in Bioanalytical Sciences

Date: 04.04.25

Time: 2:30 pm to 3:30pm

Venue: Department of Bioanalytical Sciences

Members Present:

Sr. No.	Name	Signature
1	Dr.Krishnapriya Mohanraj	
2	Dr. Ajit Datar	
3	Mr. Subodh Chawan	
4	Dr. Sanket Bapat	
5	Dr. Sujata Suvarnapathki	 ONLINE
6	Dr. Sachin Palekar	
7	Ms. Sae Jishi	—
8	Dr. Sandhya Menon	—
9	Dr. Nandini Girish	 ONLINE
10	Dr. Madhura Dhavale	—
11	Ms. Anushka Joshi	
12	Ms. Sayali Kadge	
13	Ms. Dhanashree Dharap	
14	Ms. Gauri Risbud	
15	Ms. Monali Thorat	



Minutes of Meeting

Agenda I: To revise and approve the syllabi for TYBA/BSc/BVoc/BACM for the academic year 2025-26 under NEP.

Discussed that:

Existing TYBSC Structure (2024-25)

Type	Name of the subject	Credits
Theory	Biological Sciences	03
Theory	Chemical Sciences	06
Theory	Computational Sciences	03
Practical	Biological Sciences	02
Practical	Chemical Sciences	02
Practical	Computational Sciences	02
Theory	Entrepreneurship Skills	04
Practical	Project/Case study/Industry Visit	02
	Total	24

Proposed TYBSc structure under NEP:

- Semester per Credits Change
 - 24 as per old system
 - 22 as per NEP System
- Verticals to be introduced as per School Structure(semester V & VI)
 - Major 3 papers
 - Minor 1 paper
 - Vocational & Skills(VSC Semester V)
 - OJT (to be offered at Semester VI)

Proposed TYBSC BAS Structure Under NEP (Semester V)

Type	Name of the subject	Theory/Practical	Credits
Major 1	Bioanalytical Sciences	Theory	04

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		Practical	02
Major 2	Chemical Sciences	Theory	04
		Practical	02
Major 3	Pharmaceutical Sciences	Theory	04
		Practical	02
Minor	Computational Sciences	Theory	02
VSC	Tools and Techniques in Biology	Theory	02
	Total		22

Proposed TYBSC BAS Structure Under NEP (Semester VI)

Type	Name of the subject	Theory/Practical	Credits
Major 1	Bioanalytical Sciences	Theory	04
	Bioanalytical Sciences	Practical	02
Major 2	Chemical Sciences	Theory	04
	Chemical Sciences	Practical	02
Major 3	Pharmaceutical Sciences	Theory	04
	Pharmaceutical Sciences	Practical	02
Minor	Computational Sciences	Theory	02
VSC	On Job Training	-	02
	Total		22

Proposed TYBSC Paper Titles Under NEP (Semester V)

Type	Name of the subject	Paper Title	Theory/Practical	Credits
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Major 1	Bioanalytical Sciences	Natural Products	Theory +Practical	04 +02
Major 2	Chemical Sciences	Spectroscopy I	Theory +Practical	04 +02
Major 3	Pharmaceutical Sciences	Recent Trends in Pharmaceutical Industry	Theory +Practical	04 +02
Minor	Computational Sciences	Bioinformatics II	Theory	02
VSC	Vocational & Skills	Tools & Techniques in Biology V	Theory	02
	Total			22

Proposed TYBSC Syllabus Under NEP (Semester V)

Details	Paper Title	Credits	Topics
Major 1 <i>Bioanalytical Sciences</i>	Natural Products	04	<ul style="list-style-type: none"> • Phytochemistry • Techniques in Herbal Extraction • Herbal Analysis • Instrumental Analysis of Natural Products
Major 2 <i>Chemical Sciences</i>	Spectroscopy I	04	<ul style="list-style-type: none"> • Atomic Spectroscopy • Molecular Spectroscopy • UV Visible Spectroscopy • Raman and IR Spectroscopy
Major 3 <i>Pharmaceutical Sciences</i>	Recent Trends in Pharmaceutical Industry	04	<ul style="list-style-type: none"> • Recent Trends in Pharmaceuticals • Pharmaceutical Applications of Spectroscopic Techniques • Phytopharmaceuticals • Biopharmaceuticals & Biosimilars I

Details	Paper Title	Credits	Topics
Minor		02	<ul style="list-style-type: none"> • Sequence alignment

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<i>Computational Sciences</i>	Bioinformatics II		<ul style="list-style-type: none"> • Molecular Phylogenetics
Vocational & Skills	Tools & techniques in Biology	02	<ul style="list-style-type: none"> • Techniques in Recombinant DNA Technology I • Techniques in Recombinant DNA Technology II

Proposed TYBSC Paper Titles Under NEP (Semester VI)

Type	Name of the subject	Paper Title	Theory/ Practical	Credits
Major 1	Bioanalytical Sciences	Advances in Biology	Theory +Practical	04 +02
Major 2	Chemical Sciences	Chromatography 1	Theory +Practical	04 +02
Major 3	Pharmaceutical Sciences	Modern Pharmaceutical Industry	Theory +Practical	04 +02
Minor	Computational Sciences	AI & its Applications	Theory	02
OJT	On Job Training	Tools & Techniques in Biology V	Theory	02
	Total			22

Proposed TYBSC Syllabus Under NEP (Semester VI)

Details	Paper Title	Credits	Topics
Major 1 <i>Bioanalytical Sciences</i>	Immunology & Introductory Bioanalysis	04	<ul style="list-style-type: none"> • Advanced Immunology • Sample Handling & Biological matrices • Sample Preparation Techniques for Biological Analysis • Electrophoresis

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Major 2 <i>Chemical Sciences</i>	Chromatography I	04	<ul style="list-style-type: none"> • Advances in Planar Chromatography • Fundamentals of Liquid Chromatography • High performance Liquid Chromatography • Gas chromatography
Major 3 <i>Pharmaceutical Sciences</i>	Modern Pharmaceutical Industry	04	<ul style="list-style-type: none"> • Drug Discovery & Development • Quality Control & Quality Assurance in Pharma • Pharmaceutical Microbiology • Pharmaceutical Applications of HPLC & GC
Details	Paper Title	Credits	Topics
Minor Computational Sciences	AI & its Applications	02	<ul style="list-style-type: none"> • Introduction to Artificial Intelligence • Industrial Applications of AI
Vocational & Skills	OJT	02	On job training: Internship of 120 hours/ 2-3 weeks

Resolved that: Paper titles and topics were approved. Industry collaborations were suggested for OJT.

Agenda II: To decide on the changes in the modalities of assessment, is any, which includes the question paper pattern, for internal and external examination for FY/SY/PG Part I & II.

Discussed that: No changes in the modalities of assessment.

Resolved that: NA.

Agenda III: To discuss our own Certificate Courses and approve 2-4 credit Certificate Courses offered by NPTEL Swayam /MOOC.

Discussed that: The existing courses will be run this year as well. No new courses added.



Resolved that: No new courses introduced.

Agenda IV: To review the feedback of students on the Curricula.

Discussed that: Electives well appreciated by the students at PG Level, thus we plan to introduce Psychology as GE at FY/SY Level

Resolved that: Proposal was appreciated by the members.

Agenda V: To review Questions Papers of previous exams.

Discussed that: Quality of Question papers was assessed.


Resolved that: Blooms taxonomy is followed and question papers are aligned with Course outcomes and Program outcomes

Agenda VI: Any other matter with the permission of the Chair.

Discussed that: Introduction of Psychology as General Elective at FY & SY Level

- Semester II: Introduction to Psychology- 2 Credits
- Semester III: Psychology of Adjustments - 2 Credits
- Semester IV: Health Psychology- 2 Credits

Resolved that: It was unanimously decided to offer GE at FY and SY level.


Dr. Sachin Palekar
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