

MINUTES

18th Meeting of Board of Studies (Pharm. Sciences)

27th November, 2021

11.00 am



Arora
REGISTRAR
SVKM'S NMIMS
V L Mehta Road,
Vile Parle (West),
Mumbai-400 056.

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Shobhaben Pratapbhai Patel
School of Pharmacy & Technology Management, Mumbai
and
School of Pharmacy & Technology Management, Shirpur & Hyderabad

Minutes of 18th Meeting of Board of Studies (Pharm. Sciences) held on 27th November, 2021 at 11.00 am using ZOOM platform.

Following members and special invitees were present in the meeting :

1. Dr. R. S. Gaud
2. Dr. Bala Prabhakar
3. Dr. Bhupinder Singh Bhoop
4. Dr. Rahul Somani
5. Dr. Hemant Jadhav
6. Dr. Mayur Yergeri
7. Dr. B. Sateesh
8. Dr. Vaishali Londhe
9. Dr. Pravin Shende
10. Dr. Ajazuddin
11. Dr. Kapil Juvale

Dr. C. Bonde, Dr. Yogesh Kulkarni, Dr. Payal Dande, Mr. Ashish Apte and Dr. Santosh Yele were granted leave of absence.

Dr. Bala Prabhakar, Dean, SPPSPTM welcomed the new Board members and special invitee for the meeting.

All the members introduced themselves to the Board. Dr. Bala Prabhakar presented the journey of Pharmacy and Technology Management Schools of Mumbai, Shirpur and Hyderabad campus.

Further, the following agenda items were taken up for consideration:

1. **To confirm the minutes of the last meeting.**

The minutes of the last meetings were read and confirmed.



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2. Action points arising out of minutes of previous meeting.

Dr. Bala Prabhakar informed the Board about the action points arising out of the minutes of the last meeting and the action taken in this regard.

3. Consideration of all the requisite parameters for starting of M.Pharm. (Regulatory Affairs) program.

The Board was informed by Dr. Bala Prabhakar about the introduction of the programme of M.Pharm (Regulatory affairs) in the year 2022-2023.

Dr. Pravin Shende, Professor and Chairperson of PG programmes presented the proposed course syllabus and changes based on the PCI syllabus for M.Pharm (Regulatory affairs). The proposed changes were in line with the structure and scheme provided by PCI. The members approved the same.

The members appreciated the proactive approach by School to implement the Regulatory affairs programme and the course work in M.Pharm. The Board approved the syllabus, course structure, credits, etc. and recommended the same.

4. Consideration and approval of Soft Skills course (Employability-I and Employability-II) to be included in the existing course structure of UG and PG programs.

Dr. Bala Prabhakar mentioned that students from different regions of the country are joining UG and PG programs at pharma schools of NMIMS. She informed the member that soft skills and communication skills courses are being taught to students to bring them on common platform. But these courses are value added courses. These courses are delivered by faculty from soft skills dept. of University through workshop. She informed members that instead of delivering these courses as add on, it proposed to include them in the curriculum so that students will be benefited. Dr. Bala presented details of these courses to be added in the UG and PG program.

The Board members considered the syllabus in detail and recommended the same.

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**SVKM's Narsee Monjee Institute of Management Studies School Pharmacy & Technology Management
Recommendations of Board of Studies for Pharmaceutical Sciences**

The proposed changes were circulated to the following members of Board of Studies for Pharmaceutical Sciences through email dated 14th May, 2022 :

1. Dr. Bhupinder Singh Bhoop
2. Dr. Hemant Jadhav
3. Dr. Rahul Somani

The proposed changes in the existing programs are as listed below:

- 1) To change the course outcomes of all the subjects in the area of Pharmacy for B.Pharm/MBA Pharma Tech and M.Pharm programs.
- 2) To change the credit, evaluation pattern and category for the subjects, namely, Life skills and Career Initiation Skills, offered to B.Pharm/MBA Pharma Tech & M.Pharm programs.
- 3) To introduce the research related subjects, namely, Inventions in Science, Introduction to Research I -Theory and Introduction to Research II- Theory, for B.Pharm/MBA Pharma Tech programs in Semester II, III and IV respectively.
- 4) To introduce the new subjects, namely, Life skills and Career Initiation Skills in Part I and Part II of D.Pharm. program respectively which will be implemented from A.Y. 2022-23.
- 5) To change the credit for the subject, namely, Soft Skills, offered to Pre. Ph.D.-Semester I as "one credit"

All the proposed changes in existing programs were considered and accepted by the Board members.

B. Prabhakar

**Dr. Bala Prabhakar
Dean, SPPSPTM**



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5. **Implementation of Assurance of Learning (AOL) course outline for 1st and 2nd year of UG programs.**

Dr. Bala Prabhakar outlined the importance and advantages of AOL for the courses in UG programs. She informed the members that AOL is being implemented for 1st and 2nd year of UG programs. The Board members appreciated AOL activity.

The meeting ended with thanks to the chair.



Dr. Bala Prabhakar
Dean, SPPSPTM



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Shobhaben Pratapbhai Patel
School of Pharmacy & Technology Management
Mumbai

Course Structure
MBA Pharma Tech (Bachelor of Pharmacy + MBA) – 5 years Programme (2022-23)

Semester I

Area	Sr. No.	Subject	Credits	Total credits area-wise
Pharmacy	1	Human Anatomy and Physiology I – Theory	4	32
	2	Pharmaceutical Analysis – Theory	4	
	3	Pharmaceutics I – Theory	4	
	4	Pharmaceutical Inorganic Chemistry – Theory	4	
	5	Communication skills – Theory	2	
	6	Remedial Biology – Theory	2	
	7	Remedial Mathematics – Theory	2	
	8	Human Anatomy and Physiology I - Practical	2	
	9	Pharmaceutical Analysis – Practical	2	
	10	Pharmaceutics I – Practical	2	
	11	Pharmaceutical Inorganic Chemistry – Practical	2	
	12	Communication skills – Practical	1	
	13	Remedial Biology – Practical	1	
Total credits				32

Semester II

Area	Sr. No.	Subject	Credits	Total credits area-wise
Pharmacy	1	Human Anatomy and Physiology II – Theory	4	30
	2	Pharmaceutical Organic Chemistry I – Theory	4	
	3	Biochemistry - Theory	4	
	4	Pathophysiology – Theory	4	
	5	Computer Applications in Pharmacy – Theory	3	
	6	Environmental sciences – Theory	3	
	7	Human Anatomy and Physiology II – Practical	2	
	8	Pharmaceutical Organic Chemistry I – Practical	2	
	9	Biochemistry – Practical	2	
	10	Computer Applications in Pharmacy – Practical	1	
	11	Inventions in Science	1	
Total credits				30

Semester III

Area	Sr. No.	Subject	Credits	Total credits area-wise
Pharmacy	1	Pharmaceutical Organic Chemistry II – Theory	4	24
	2	Physical Pharmaceutics I – Theory	4	
	3	Pharmaceutical Microbiology – Theory	4	
	4	Pharmaceutical Engineering – Theory	4	
	5	Pharmaceutical Organic Chemistry II – Practical	2	
	6	Physical Pharmaceutics I – Practical	2	
	7	Pharmaceutical Microbiology – Practical	2	
	8	Pharmaceutical Engineering – Practical	2	
Total credits				24

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Semester IV

Area	Sr. No.	Subject	Credits	Total credits area-wise
Pharmacy	1	Pharmaceutical Organic Chemistry III – Theory	4	27
	2	Medicinal Chemistry I – Theory	4	
	3	Physical Pharmaceutics II – Theory	4	
	4	Pharmacology I – Theory	4	
	5	Pharmacognosy and Phytochemistry I – Theory	4	
	6	Medicinal Chemistry I – Practical	2	
	7	Physical Pharmaceutics II – Practical	2	
	8	Pharmacology I – Practical	2	
	9	Pharmacognosy and Phytochemistry I – Practical	2	
Total credits				27

Semester V

Area	Sr. No.	Subject	Credits	Total credits area-wise
Pharmacy	1	Medicinal Chemistry II – Theory	4	27.5
	2	Industrial Pharmacy I – Theory	4	
	3	Pharmacology II – Theory	4	
	4	Pharmacognosy and Phytochemistry II – Theory	4	
	5	Pharmaceutical Jurisprudence – Theory	4	
	6	Industrial Pharmacy I – Practical	2	
	7	Pharmacology II – Practical	2	
	8	Pharmacognosy and Phytochemistry II – Practical	2	
	9	Technical Writing and Publication I	1.5	
Management	1	Pharma Environment	2	4
	2	Statistics for Management with MS Excel	2	
Total credits				31.5

Semester VI

Area	Sr. No.	Subject	Credits	Total credits area-wise
Pharmacy	1	Medicinal Chemistry III – Theory	4	31.5
	2	Pharmacology III – Theory	4	
	3	Herbal Drug Technology – Theory	4	
	4	Biopharmaceutics and Pharmacokinetics – Theory	4	
	5	Pharmaceutical Biotechnology – Theory	4	
	6	Pharmaceutical Quality Assurance - Theory	4	
	7	Medicinal Chemistry III – Practical	2	
	8	Pharmacology III – Practical	2	
	9	Herbal Drug Technology – Practical	2	
	10	Technical Writing and Publication II	1.5	
Management	1	Pharma Selling Process, PSS & KAM	2	4
	2	Operations Research	2	
Total credits				35.5

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Semester VII

Area	Sr. No.	Subject	Credits	Total credits area-wise
Pharmacy	1	Instrumental Methods of Analysis – Theory	4	28
	2	Industrial Pharmacy II – Theory	4	
	3	Pharmacy Practice – Theory	4	
	4	Novel Drug Delivery Systems – Theory	4	
	5	Instrumental Methods of Analysis – Practical	2	
	6	Practice School	6	
	7	Internship (Industrial Training)	4	
Management	1	Marketing Management	2	7
	2	Business Economics	2	
	3	Financial Management I	1	
	4	Health Insurance & Hospital Management	2	
Life Skills	1	Life Skills	1	1
Total credits				36

Semester VIII

Area	Sr. No.	Subject	Credits	Total credits area-wise
Pharmacy	1	Biostatistics and Research Methodology - Theory	4	14
	2	Social and Preventive Pharmacy - Theory	4	
	3	Project Work	6	
Management	1	Operations Management & Strategy	2	12
	2	Organizational Behavior	2	
	3	Marketing Research Methodology including Advanced Statistical Tools	2	
	4	Project Management	2	
	5	Brand Plan for Pharma Products	2	
	6	Quality Management Systems and Practices	2	
Pharmacy		Elective 1	4	4
	1	Pharmaceutical Marketing Management - Theory		
	2	Pharmaceutical Regulatory Science – Theory		
	3	Pharmacovigilance – Theory		
	4	Quality Control and Standardization of Herbals – Theory		
	5	Computer Aided Drug Design – Theory		
	6	Cell and Molecular Biology – Theory		
	7	Cosmetic Science – Theory		
	8	Pharmacological Screening Methods – Theory		
	9	Advanced Instrumentation Techniques – Theory		
	10	Dietary Supplements and Nutraceuticals - Theory		
11	Pharmaceutical Product Development – Theory			
Total credits				30

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Semester IX

Area	Sr. No.	Subject	Credits
Management	1	Internship (Management Internship Programme)	17
	2	Brand and Product Management	2
	3	Business Analytics	2
	4	Consumer Behaviour	2
	5	Customer Relationship Management	2
	6	Entrepreneurship Management: Theory & Practices	2
	7	Financial Management II	2
	8	Health Insurance & Hospital Management	2
	9	Human Resource Management	2
	10	Laws Relevant to Pharmaceutical Industry	2
	11	Pharma Supply Chain	2
	12	Sales Management	2
	13	Career Initiation Skills	1
	14	Life Skills	1
Total Credits			41

Semester X

Area	Sr. No.	Subject	Credits
Management	1	Business Strategy Management	2
	2	Indian Ethos and Business Ethics in Pharma	2
		List of Electives (Choose any 4)	
	1	Advance Course in Marketing Strategy	2
	2	Corporate Social Responsibility	2
	3	Digital Strategy in Pharma Industry	2
	4	Enterprise Resource Planning	2
	5	International Marketing	2
	6	Marketing of Biosimilars & Specialty Products	2
	7	Marketing of Cosmeceuticals	2
	8	Marketing of Medical Devices	2
	9	Marketing of OTC / Nutraceuticals	2
	10	Marketing of Services	2
	11	Mergers and Acquisitions	2
	12	Operational Excellence in Pharmaceutical Industry	2
13	Pharma Tech Transfer	2	
14	Predictive Analytics	2	
15	Quantitative Techniques for Forecasting & Decision Making	2	
Total Credits			20

B. Prabhakar

Dr. Bala Prabhakar
Dean, SPPSPTM

A. Prasad

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Course structure: AY 2022-23

M.Pharm. (Regulatory Affairs)

**First Year
Semester I**

Area	Subject	Total Hrs.	Credits
Pharmacy	Good Regulatory Practices	60	4
	Documentation and Regulatory Writing	60	4
	Clinical Research Regulations	60	4
	Regulations and legislation for drugs & cosmetics, Medical devices, Biologicals & herbals, and Food & Nutraceuticals in India and Intellectual property Rights	60	4
	Regulatory Affairs Practical - I	180	6
	Seminar / Assignment	105	4

Semester II

Area	Subject	Total Hrs.	Credits
Pharmacy	Regulatory Aspects of Drugs & Cosmetics	60	4
	Regulatory Aspects of Herbal and Biologicals	60	4
	Regulatory Aspects of Medical Devices	60	4
	Regulatory Aspects of Food & Nutraceuticals	60	4
	Regulatory Affairs Practical - II	180	6
	Seminar / Assignment	105	4

**Second Year
Semester III**

Area	Subject	Total Hrs.	Credits
Pharmacy	Research Methodology & Biostatistics	60	4
	Journal Club	15	1
	Discussion / Presentation (Proposal Presentation)	30	2
	Research Work	420	14
	Career Initiation Skills	15	1

Semester IV

Area	Subject	Total Hrs.	Credits
Pharmacy	Journal Club	15	1
	Discussion / Final Presentation	45	3
	Research Project (Research Work and Colloquium)	465	16
	Life Skills	15	1

Balabhar

Dr. Bala Prabhakar
Dean, SPPSPTM

