



Department of Pharmaceutical Sciences

Board of Studies

Minutes of the Meeting

The Board of studies (BoS) Meeting was conducted on 28.10.2019 at Vignan's Foundation for Science Technology & Research (VFSTR) under the chairmanship of HoD, of Pharmaceutical Sciences, VFSTR (Deemed to be University). The following members were present for the Board of Studies meeting:

1. Dr. Prakash V Diwan- Director, Central Research Laboratory, Belgaum, Karnataka
2. Mr. B.Ravi Kumar - Manager – Injectable Analytical Dept., Mylan Laboratories Ltd, Hyderabad.
3. Mr. M. Ravi Kanth - Manager – Regulatory Affairs, Natco Pharma Ltd, Hyderabad.
4. Dr. R.Nagaraju - Professor, Institute of Pharmaceutical Sciences, SPMVV, Tirupathi.
5. Dr. Devesh Sawanth - Asst. Prof., Central University of Rajasthan, Rajasthan.
6. Dr. Jithendra Chimakurthy HoD, Pharmaceutical Sciences.







The following resolutions were made and passed during the BoS meeting:

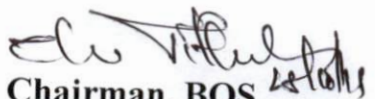
1. The existing curriculum of the Bachelor of Pharmacy Programme is in accordance with the syllabus framed by the Pharmacy Council of India.
2. The curriculum follows a choice based credit system and is presented as the course structure of B.Pharmacy programme along with the electives. (Annexure I)
3. List of courses that enable employability or entrepreneurship or skill development in the B.Pharmacy curriculum are listed in Annexure-II.
4. 21 credit-less elective courses are included in the Curriculum based on stakeholders (Faculty, Employers and Students) feedback to impart contemporary skills in pharmaceutical and allied fields. 21% of curriculum is revised. The courses are listed in Annexure- III.
5. Members have suggested establishing industrial tie-ups for the effective implementation of the program.



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S No	Name of the Internal Member	Designation & Address	Signature
1.	Dr Jithendra Chimakurthy	HoD, Pharmaceutical Sciences, VFSTR	
S No	Name of the External Members	Designation & Address	Signature
2.	Dr. Prakash V Diwan	Director, Central Research Laboratory, Belgaum, Karnataka	
3.	Mr. B.Ravi Kumar	Manager – Injectable Analytical Dept., Mylan Laboratories Ltd, Hyderabad	
4.	Mr. M. Ravi Kanth	Manager – Regulatory Affairs, Natco Pharma Ltd, Hyderabad	
5.	Dr R Nagaraju	Prof., SPMVV, Tirupathi	
6.	Dr. Devesh M Sawant	Asst. Prof., Central University of Rajasthan, Rajasthan	


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Annexure-I

B. Pharmacy

Table-I: Course of study for semester - I

Name of the course	No. of Hours	Tutorial	Credit Points
Human Anatomy and Physiology I- Theory	3	1	4
Pharmaceutical Analysis I – Theory	3	1	4
Pharmaceutics I – Theory	3	1	4
Pharmaceutical Inorganic Chemistry – Theory	3	1	4
Communication skills – Theory *	2	-	2
Remedial Biology/ Remedial Mathematics – Theory*	2	-	2
Human Anatomy and Physiology – Practical	4	-	2
Pharmaceutical Analysis I – Practical	4	-	2
Pharmaceutics I – Practical	4	-	2
Pharmaceutical Inorganic Chemistry – Practical	4	-	2
Communication skills – Practical*	2	-	1
Remedial Biology – Practical*	2	-	1
Total	32/34^s/36[#]	4	27/29^s/30[#]

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Table-II: Course of study for semester - II

Name of the course	No.of hours	Tutorial	Credit Points
Human Anatomy and Physiology II – Theory	3	1	4
Pharmaceutical Organic Chemistry I – Theory	3	1	4
Biochemistry – Theory	3	1	4
Pathophysiology – Theory	3	1	4
Computer Applications in Pharmacy – Theory *	3	-	3
Environmental sciences – Theory *	3	-	3
Human Anatomy and Physiology II –Practical	4	-	2
Pharmaceutical Organic Chemistry I– Practical	4	-	2
Biochemistry – Practical	4	-	2
Computer Applications in Pharmacy – Practical*	2	-	1
Total	32	4	29

Table-III: Course of study for semester - III

Name of the course	No.of hours	Tutorial	Credit Points
Pharmaceutical Organic Chemistry II – Theory	3	1	4
Physical Pharmaceutics I – Theory	3	1	4
Pharmaceutical Microbiology – Theory	3	1	4
Pharmaceutical Engineering – Theory	3	1	4
Pharmaceutical Organic Chemistry II – Practical	4	-	2
Physical Pharmaceutics I – Practical	4	-	2

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Pharmaceutical Microbiology – Practical	4	-	2
Pharmaceutical Engineering –Practical	4	-	2
Total	28	4	24

Table-IV: Course of study for semester - IV

Name of the course	No.of hours	Tutorial	Credit Points
Pharmaceutical Organic Chemistry III– Theory	3	1	4
Medicinal Chemistry I – Theory	3	1	4
Physical Pharmaceutics II – Theory	3	1	4
Pharmacology I – Theory	3	1	4
Pharmacognosy and Phytochemistry I– Theory	3	1	4
Medicinal Chemistry I – Practical	4	-	2
Physical Pharmaceutics II – Practical	4		2
Pharmacology I – Practical	4	-	2
Pharmacognosy and Phytochemistry I – Practical	4	-	2
Total	31	5	28

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Table-V: Course of study for semester - V

Name of the course	No.of hours	Tutorial	Credit Points
Medicinal Chemistry II – Theory	3	1	4
Industrial Pharmacy-I– Theory	3	1	4
Pharmacology II – Theory	3	1	4
Pharmacognosy and Phytochemistry II– Theory	3	1	4
Pharmaceutical Jurisprudence – Theory	3	1	4
Industrial Pharmacy-I – Practical	4	-	2
Pharmacology II – Practical	4	-	2
Pharmacognosy and Phytochemistry II – Practical	4	-	2
Total	27	5	26

Table-VI: Course of study for semester VI

Name of the course	No.of hours	Tutorial	Credit points
Medicinal Chemistry III – Theory	3	1	4
Pharmacology III – Theory	3	1	4
Herbal Drug Technology – Theory	3	1	4
Biopharmaceutics and Pharmacokinetics – Theory	3	1	4
Pharmaceutical Biotechnology – Theory	3	1	4
Quality Assurance –Theory	3	1	4

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Medicinal chemistry III – Practical	4	-	2
Pharmacology III – Practical	4	-	2
Herbal Drug Technology – Practical	4	-	2
Total	30	6	30

Table-VII: Course of study for semester - VII

Name of the course	No.of hours	Tutorial	Credit points
Instrumental Methods of Analysis – Theory	3	1	4
Industrial Pharmacy-II – Theory	3	1	4
Pharmacy Practice – Theory	3	1	4
Novel Drug Delivery System – Theory	3	1	4
Instrumental Methods of Analysis –Practical	4	-	2
Practice School*	12	-	6
Total	28	5	24

Table-VIII: Course of study for semester - VIII

Name of the course	No.of Hours	Tutorial	Credit points
Biostatistics and Research Methodology	3	1	4
Social and Preventive Pharmacy	3	1	4
ELECTIVES*			
Pharma Marketing Management			
Pharmaceutical Regulatory Science			



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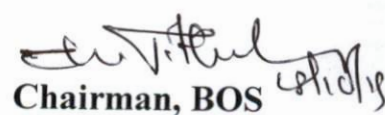
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Pharmacovigilance	$3 + 3 = 6$	$1 + 1 = 2$	$4 + 4 = 8$
Quality Control and Standardization of Herbals			
Computer Aided Drug Design			
Cell and Molecular Biology			
Cosmetic Science			
Experimental Pharmacology			
Advanced Instrumentation Techniques			
Dietary Supplements and Nutraceuticals			
Project Work	12	-	6
Total	24	4	22

*The highlighted courses comes under the Choice Based Credit System (CBCS)


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Annexure-II**List of courses that enable employability or entrepreneurship or skill development in the R-18 B.Pharmacy curriculum**

S. No.	Course Name	Course Nature
1	Human Anatomy and Physiology I – Theory	Skill Development
2	Pharmaceutical Analysis I – Theory	Employability
3	Pharmaceutics I – Theory	Employability
4	Pharmaceutical Inorganic Chemistry – Theory	Employability
5	Human Anatomy and Physiology II – Theory	Skill Development
6	Pharmaceutical Organic Chemistry I – Theory	Employability
7	Biochemistry – Theory	Employability
8	Pathophysiology – Theory	Skill Development
9	Pharmaceutical Organic Chemistry II – Theory	Employability
10	Physical Pharmaceutics I – Theory	Skill Development
11	Pharmaceutical Microbiology – Theory	Employability
12	Pharmaceutical Engineering – Theory	Skill Development
13	Pharmaceutical Organic Chemistry III – Theory	Employability
14	Medicinal Chemistry I – Theory	Employability
15	Physical Pharmaceutics II – Theory	Employability
16	Pharmacology I – Theory	Skill Development
17	Pharmacognosy and Phytochemistry I – Theory	Skill Development
18	Medicinal Chemistry II – Theory	Employability
19	Industrial Pharmacy I – Theory	Employability
20	Pharmacology II – Theory	Skill Development
21	Pharmacognosy and Phytochemistry II – Theory	Skill Development
22	Pharmaceutical Jurisprudence –	Skill Development



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	Theory	
23	Medicinal Chemistry III – Theory	Employability
24	Pharmacology III – Theory	Skill Development
25	Herbal Drug Technology – Theory	Employability
26	Biopharmaceutics and Pharmacokinetics – Theory	Employability
27	Pharmaceutical Biotechnology – Theory	Employability
28	Quality Assurance – Theory	Employability
29	Instrumental Methods of Analysis – Theory	Employability
30	Industrial Pharmacy II – Theory	Employability
31	Pharmacy Practice – Theory	Skill Development
32	Novel Drug Delivery System – Theory	Skill Development
33	Biostatistics and Research Methodology	Skill Development
34	Social and Preventive Pharmacy	Skill Development
35	Pharma Marketing Management	Employability
36	Pharmaceutical Regulatory Science	Employability
37	Pharmacovigilance	Employability
38	Quality Control and Standardization of Herbals	Employability
39	Computer Aided Drug Design	Employability
40	Cell and Molecular Biology	Skill Development
41	Cosmetic Science	Skill Development
42	Experimental Pharmacology	Employability
43	Advanced Instrumentation Techniques	Employability
44	Dietary Supplements and Nutraceuticals	Employability

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Annexure-III

NEW ELECTIVE COURSES IN R20 REGULATIONS

S. No	Name of the course	Skill development/ Employability/ Entrepreneurship oriented
1.	Biopharmaceutical technology	Skill development
2.	Molecular modeling	Entrepreneurship
3.	Handling of animals for experiments	Skill development
4.	Medicinal plants and ethnobotany	Skill development
5.	Immunotechnology	Employability
6.	Molecular interaction	Skill development
7.	Plant tissue culture	Employability
8.	Physiology and histology	Skill development
9.	Drug toxicity evaluation	Skill development
10.	Metabolic pathway	Skill development
11.	Python programming for medical applications	Employability
12.	Professional communication laboratory	Skill development
13.	Biomedical equipment	Skill development
14.	Medical imaging technique	Employability
15.	Programming for Problem Solving	Skill development
16.	GxP	Skill development



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17.	Supply chain management	Employability
18.	Scale up and tech transfer	Employability
19.	Method Transfer, Quality Control & Assurance	Skill development
20.	Clinical data management	Employability
21.	Health care management	Skill development


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