

**Minutes of 5<sup>th</sup>BOS meeting for Bachelor of Pharmacy held on 01/06/2021**

The 5<sup>th</sup>BOS meeting of School of Pharmacy for Bachelor of Pharmacy, was held on 01/06/2021 at 2.30 PM by Online Webinar Conferencing, in view of the COVID pandemic. The following were present-

- 1 Prof A Balasubramaniam- Chairman
- 2 Prof Subodh Dubey- Senior Member
- 3 Mr Anurag Agrawal- Member
- 4 Mr Nem Kumar Jain- Member
- 5 Mr Shivam Tayal- Member
- 6 Mr Manoj Kushwah- Member
- 7 Mr Hero Khan – Member
- 8 Ms Priyanka Kesari- Member
- 9 Prof S H Ansari , Professor Jamia Hamdard University New Delhi- External expert.

Prof. S H Ansari , Professor Jamia Hamdard University New Delhi- External expert and the Chairman welcomed all the members, and briefed about various agenda items which were to be discussed.

**Agenda 1.** "To discuss about including an extra topic on Colloid Mill in the Chapter Size Reduction of BP 304 (Pharmaceutical Engineering) in the PCI Syllabus."

The matter of inclusion was discussed and appreciated. And decided to include it as a topic in the chapter Size Reduction of BP-304 (Pharmaceutical Engineering) without any reduction of the prevailing syllabus.

**Agenda 2.** "To discuss the continuation of a non University exam, credit course of

- a. Fine Arts
- b. Humanities "

Matter was discussed at length, keeping in view of the all round development of the students, this attempt is to develop the sensitive faculty of the students with abundance of enthusiasm and energy, it was therefore decided to continue the same.

**Agenda 3.** "To discuss inclusion of a non University exam credit to be offered for NCC as an elective subject in accordance to the directive by the UGC communication Ref; D.O. No. 1-18/2019 (CPP-II) dated 15<sup>th</sup> April 2021"

The matter was discussed in detail, keeping in view of the directive of the UGC. It was decided to include the same from the 2021 batch. However a choice of alternative equivalent credit

  
**Dr. Omveer Singh**  
REGISTRAR  
ITM University  
Gwalior (M.P.)





UNIVERSITY  
GWALIOR · MP · INDIA

\* CELEBRATING DREAMS \*

courses should be offered to the students who have not opted or have not been selected for NCC. The alternative credit course pool could be decided and offered to those non NCC students.

**Agenda 4.** "To discuss to either continue with 75:25 ratio marks (external-internal respectively) or change to 60:40 ratio marks (external-internal respectively)"

It was decided to continue with the 75:25 ratio for External and internal respectively this time too, which by the way is the PCI norm.

**Agenda 4.** "Any other item with the permission of chair"

As none were discussed, the meeting ended with a vote of thanks to the invited expert and the members present

**Members**

Prof. A. Balasubramaniam- Chairman

Prof SH Ansari- External Expert

Prof. Subodh Dubey- Senior Member

Mr. Anurag Agrawal- Member

Mr. Manoj Kushwah- Member

Mr. Nem Kumar Jain- Member

Mr Shivam Tayal- Member

Mr. Hero Khan – Member

Ms Priyanka Kesari

Mrs Ekta Khare- Member

Dr. Omveer Singh  
REGISTRAR  
ITM University  
Gwalior (M.P.)

**Minutes of 3<sup>rd</sup> BOS for Diploma in Pharmacy meeting held on 01/06/2021**

The 3<sup>rd</sup> BOS meeting of School of Pharmacy for Diploma in Pharmacy, was held on 01/06/2021 at 2:45 PM by Online Webinar Conferencing, in view of the COVID pandemic. The following were present-

1. Prof. A. Balasubramaniam- Chairman
2. Prof. Subodh Dubey- Senior Member
3. Mr. Anurag Agrawal- Member
4. Mr. Nem Kumar Jain- Member
5. Mr Shivam Tayal- Member
6. Mr. Manoj Kushwah- Member
7. Mr. Hero Khan – Member
8. Ms Priyanka Kesari – Member
9. Prof. S H Ansari , Professor Jamia Hamdard University New Delhi- External expert.

Prof. S H Ansari , Professor Jamia Hamdard University New Delhi- External expert and the Chairman welcomed all the members, and briefed about various agenda items which were to be discussed.

**Agenda 1.** “Implementation of the New Education Policy, as suggested by the PCI.”.

The matter was discussed and debated and decided to implement the New Education policy, once the PCI communicates the detailed Syllabus for the same.

**Agenda 2** “To discuss inclusion of a non University exam credit to be offered for NCC as an elective subject in accordance to the directive by the UGC communication Ref; D.O. No. 1-18/2019 (CPP-II) dated 15<sup>th</sup> April 2021.

It was noted that, as this directive holds for the Undergraduate students, this need not be implemented in Diploma course. However if any student wants to join NCC, he should be encouraged.

  
**Dr. Omveer Singh**  
REGISTRAR  
ITM University  
Gwalior (M.P.)





"CELEBRATING DREAMS"

**Agenda 3. "Any other item with the permission of chair"**

As none were discussed, the meeting ended with a vote of thanks to the invited expert and the members present.

**Members**

Prof. A. Balasubramaniam- Chairman

Prof SH Ansari- External Expert

Prof. Subodh Dubey- Senior Member

Mr. Anurag Agrawal- Member

Mr. Manoj Kushwah- Member

Mr. Nem Kumar Jain- Member

Mr Shivam Tayal- Member

Mr. Hero Khan – Member

Ms Priyanka Kesari

Mrs Ekta Khare- Member

**Dr. Omveer Singh**  
REGISTRAR  
ITM University  
Gwalior (M.P.)





"CELEBRATING DREAMS"

### Minutes of 3<sup>rd</sup> BOS meeting for Master of Pharmacy held on 01/06/2021

The 3<sup>rd</sup> BOS meeting of School of Pharmacy for Master of Pharmacy, was held on 01/06/2021 at 2:50 PM by Online Webinar Conferencing, in view of the COVID pandemic. The following were present-

1. Prof. A. Balasubramaniam- Chairman
2. Prof. Subodh Dubey- Senior Member
3. Mr. Anurag Agrawal- Member
4. Mr. Nem Kumar Jain- Member
5. Mr Shivam Tayal- Member
6. Mr. Manoj Kushwah- Member
7. Mr. Hero Khan – Member
8. Ms Priyanka Kesari – Member
9. Prof. S H Ansari, Professor Jamia Hamdard University New Delhi- External expert.

Prof. S H Ansari, Professor Jamia Hamdard University New Delhi- External expert and the Chairman welcomed all the members, and briefed about various agenda items which were to be discussed.

**Agenda 1.** "To discuss continuation of a non University exam credit course of Online Courses related to the field of Pharmacy"

It was decided to continue with the inclusion of the non University exam credit course of Online Courses related to the field of Pharmacy, in continuation of the last meeting decision


**Agenda 2.** "To discuss inclusion of a non University exam credit to be offered for NCC as an elective subject in accordance to the directive by the UGC communication Ref; D.O. No. 1-18/2019 (CPP-II) dated 15<sup>th</sup> April 2021"

It was noted that, as this directive holds for the Undergraduate students, this need not be implemented in Post graduate course. However if any student wants to join NCC, he should be encouraged.

**Agenda 3.** "To discuss the compulsory publication or submission of scientific manuscript in reputed journals as a pre requisite for award of degree"

It was noted that even the council is also of the same opinion. Hence for the award of degree, the student must have an acceptance of a review article based on his/her literature review of designated topic, and a submission confirmation of his research manuscript in UGC Care/Scopus list of journals

  
Dr. Omveer Singh  
REGISTRAR  
ITM University  
Gwalior (M.P.)





"CELEBRATING DREAMS"

**Agenda 3. "Any other item with the permission of chair"**

As none were discussed, the meeting ended with a vote of thanks to the invited expert and the members present.

**Member**

Prof. A. Balasubramaniam- Chairman

Prof SH Ansari- External Expert

Prof. Subodh Dubey- Senior Member

Mr. Anurag Agrawal- Member

Mr. Manoj Kushwah- Member

Mr. Nem Kumar Jain- Member

Mr Shivam Tayal- Member

Mr. Hero Khan – Member

Ms Priyanka Kesari

Mrs Ekta Khare- Member

Dr. Omveer Singh  
REGISTRAR  
ITM University  
Gwalior (M.P.)



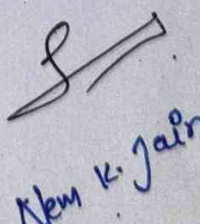
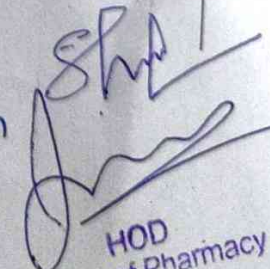
## Syllabus-2020-2021

(SOP)(BPharm)

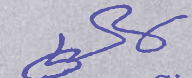
|                     |                            |
|---------------------|----------------------------|
| Title of the Course | Pharmaceutical Engineering |
| Course Code         | BP304T                     |

| Part A   |                 |          |     |                |   |   |   |   |
|--|-----------------|----------|-----|----------------|---|---|---|---|
| Year   | 2nd             | Semester | 3rd | Credits        | L | T | P | C |
| Course Type  | Theory only     |          |     |                | 3 | 1 | 0 | 4 |
| Course Category  | Discipline Core |          |     |                |   |   |   |   |
| Pre-Requisite/s  |                 |          |     | Co-Requisite/s |   |   |   |   |
| CO1- To know various unit operations used in pharmaceutical industries (RI 1, Demerit) |                 |          |     |                |   |   |   |   |

| Part B  |   |  |       |
|---------|---|--|-------|
| Modules | Contents  | Pedagogy   | Hours |
| UNIT-I  | Flow of fluids: Types of manometers, Reynolds number and its significance, Bernoulli's theorem and its applications, Energy losses, Orifice meter, Venturimeter, Pitot tube and Rotometer. <b>Size Reduction:</b> Objectives, Mechanisms & Laws governing size reduction, factors affecting size reduction, principles, construction, working, uses, merits and demerits of Hammer mill, ball mill, fluid energy mill, Edge runner mill, colloidal mill & end runner mill. <b>Size Separation:</b> Objectives, applications & mechanism of size separation, official standards of powders, sieves, size separation Principles, construction, working, uses, merits and demerits of Sieve shaker, cyclone separator, Air separator, Bag filter & elutriation tank. | Lecture based learning, interactive class, Peer tutorial, Class using ICT tool/PPT/white board | 10    |
|         | Heat Transfer: Objectives, applications & Heat transfer mechanisms. Fourier's law, Heat transfer by conduction, convection &  |  |       |

  
 Hem K. Jain  
  
 HOD

School of Pharmacy  
 ITM University  
 Gwalior, Madhya Pradesh

  
**Dr. Omveer Singh**  
 REGISTRAR  
 ITM University  
 Gwalior (M.P.)