

**Third B.Pharmacy**

Prospectus No. 2013146

Semester-V Examination - Winter-2012,

Semester-VI Examination - Summer-2013

**संत गाडगे बाबा अमरावती विद्यापीठ**  
**SANT GADGE BABA AMRAVATI UNIVERSITY**

**आयुर्विज्ञान विद्याशाखा**  
**(FACULTY OF MEDICINE)**

**PROSPECTUS**  
**OF**  
**THE DEGREE OF**  
**BACHELOR OF PHARMACY (FOUR YEAR –**  
**EIGHT SEMESTER DEGREE COURSE)**  
**SEMESTER-V EXAMINATION, WINTER-2012**  
**SEMESTER-VI EXAMINATION, SUMMER-2013**



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**SANT GADGE BABA AMRAVATI UNIVERSITY**

**SPECIAL NOTE FOR INFORMATION OF THE STUDENTS**

(1) Notwithstanding anything to the contrary, it is notified for general information and guidance of all concerned that a person, who has passed the qualifying examination and is eligible for admission only to the corresponding next higher examination as an ex-student or an external candidate, shall be examined in accordance with the syllabus of such next higher examination in force at the time of such examination in such subjects, papers or combination of papers in which students from University Departments or Colleges are to be examined by the University.

(2) Be it known to all the students desirous to take examination/s for which this prospectus has been prescribed should, if found necessary for any other information regarding examinations etc. refer the University Ordinance Booklet the various conditions/provisions pertaining to examinations as prescribed in the following Ordinances-

- |                        |   |  |
|------------------------|---|--|
| Ordinance No. 1        | : | Enrolment of Students.   |
| Ordinance No.2         | : | Admission of Students  |
| Ordinance No. 4        | : | National Cadet Corps   |
| Ordinance No. 6        | : | Examination in General (relevant extracts)   |
| Ordinance No. 18/2001  | : | An Ordinance to provide grace marks for passing in a Head of passing and Improvement of Division (Higher Class) and getting Distinction in the subject and condonation of deficiency of marks in a subject in all the faculties prescribed by the Statute NO.18, Ordinance 2001. |
| Ordinance No.9         | : | Conduct of Examinations (Relevant extracts)  |
| Ordinance No.10        | : | Providing for Exemptions and Compartments  |
| Ordinance No. 19       | : | Admission Candidates to Degrees  |
| Ordinance No.109       | : | Recording of a change of name of a University Student in the records of the University   |
| Ordinance No.6 of 2008 | : | For improvement of Division/Grade.   |

Ordinance No.19/2001 : An Ordinance for Central Assessment Programme, Scheme of Evaluation and Moderation of answerbooks and preparation of results of the examinations, conducted by the University, Ordinance 2001.

**Dineshkumar Joshi**  
Registrar  
Sant Gadge Baba Amravati University

**DIRECTION**

No.: 21/2010

Date : 21/06/ 2010

**Subject : Examination Leading to the Degree of भेषजी स्नातक (Bachelor of Pharmacy) (Four Year - Eight Semester Degree Course), Direction 2010.**

Whereas, the Sub-committee appointed by Board of Studies in Pharmaceutical Sciences have prepared and recommended the Schemes of Teaching and Examinations along with provisions to be incorporated in the Ordinance for B.Pharm. Semester-I to VIII as per Semester Pattern and Credit Based Performance and Assessment System.

AND

Whereas, the Hon'ble Vice-Chancellor has accepted the aforesaid recommendations under sub-section (7) of Section 14 of the Maharashtra Universities, Act, 1994 on behalf of the Board of Studies in Pharmaceutical Sciences and faculty of Medicine on 27.5.2010.

AND

Whereas, the aforesaid recommendations were placed before the Academic Council in its meeting held on 28.5.2010 vide item No.45 and the Council resolved to accept the refer the Schemes/ provisions to be incorporated in the Ordinance to the Ordinance Committee for placing it directly before the Management Council.

AND

Whereas, the making of Ordinance/Regulation for B.Pharm. Semester-I to VIII is a time consuming process.

AND

Whereas, the Academic Session is starting from 14<sup>th</sup> June 2010 and it is necessary to provide the Schemes of examinations, eligibility criteria along with other details.

Now, therefore, I, Dr. Kamal Singh, Vice Chancellor of Sant Gadge Baba Amravati University, in exercise of powers conferred upon me under sub-section (8) of section 14 of the Maharashtra Universities Act., 1994, do hereby direct as under:

- 1) This Direction may be called "Examination Leading to the Degree of भेषजी स्नातक (Bachelor of Pharmacy) (Four Year - Eight Semester Degree Course), Direction, 2010".
- 2) This direction shall come into force from the date of its issuance.
- 3) There shall be Eight Examinations leading to the Degree of भेषजी स्नातक ( Bachelor of pharmacy), namely:

- (i) the First B.Pharm Examination consisting of Semester-I & II at the end of the each semester;
  - (ii) the Second B.Pharm Examination consisting of Semester-III & IV at the end of the each semester;
  - (iii) the Third B. Pharm. Examination consisting of Semester-V & VI at the end of the each semester;
  - (iv) the Final B. Pharm Examination consisting of Semester-VII & VIII at the end of the each semester.
- 4) The duration of each semester shall be of six months.
  - 5) The examinations specified in Paragraph 3 shall be held twice a year at such places and on such dates as may be appointed by the Board of Examination.
  - 6) An applicant for admission to an examination specified in Paragraph 3 shall prosecute a regular course of study in courses prescribed for the examination concerned for not less than one semester in a particular semester in a College affiliated to the University.
  - 7) Subject to his compliance with the provisions of this Direction and of other Ordinances in force from time to time, an applicant for admission to-
    - (A) The प्रथम भेषजी स्नातक (First B. Pharm- Semester I and II) Examination shall have passed not less than one academic year previously-
      - (i) The Diploma in Pharmacy Examination from an Institution recognized by the Pharmacy Council of India ; with minimum 40% marks.

or

    - (ii) The 12th Standard Examination of the Maharashtra State Board of Secondary and Higher Secondary Education with English , Physics , Chemistry and Biology or Mathematics as subjects of study at the 12th Standard; securing minimum 50% marks(45% marks for backward class candidates from Maharashtra) in the said subjects taken together and passed in the same sitting

or

  - (iii) An Examination recognised as equivalent thereto in such subjects and with such standards of attainments as may be prescribed.

(iv) The norms laid down by the Directorate of Technical Education, Mumbai, Government of Maharashtra from time to time.

(B) The द्वितीय भेषजी स्नातक (Second B.Pharm- Semester III and IV) Examination –

Shall have passed not less than one academic year previously the प्रथम भेषजी स्नातक ( First B. Pharm) Examination of the University or the post H.S.S.C. Diploma in Pharmacy (i.e. according to Education Regulation, 1991 of Pharmacy Council of India) from the Board of Technical Education or equivalent from an institute approved by Pharmacy Council of India in first attempt scoring not less than 600 marks out of 1000 marks at D.Pharm. Part-II Examination, provided that they appear and pass in the theory papers of Mathematics of First year B.Pharm. (Semester-II) examination otherwise, their result of the third year B.Pharm. (Semester-V) examination shall not be declared.

(C) The तृतीय भेषजी स्नातक (Second B.Pharm- Semester V and VI) Examination shall have passed the द्वितीय भेषजी स्नातक (Second B. Pharm i.e. Semester-III & IV) Examination of the University not less than one Academic year previously.

(D) The अंत्य भेषजी स्नातक (Final B.Pharm- Semester VII and VIII) Examination shall have passed the तृतीय भेषजी स्नातक (Third B. Pharm i.e. Semester V & VI) Examination of the University not less than one Academic year previously.

- 8) Subject to his/her compliance with the provisions of this Direction & other Ordinances pertaining to Examination in force from time to time, the applicant for admission , at the end of the course of study of a particular semester/session, to an Examination specified in column (1) of the table below, shall be eligible to appear if
- he/she satisfies with the conditions in the table and the provisions thereunder.
  - he/she complies with the provisions of the ordinance pertaining to the Examination in general from time to time.
  - he/she has prosecuted a regular course of study in a college affiliated to the University.
  - he/she has in the opinion of the Principal shown satisfactory progress in his/her studies.

**TABLE**

Name of the Exam.	The student should have passed the exam. of	The student should have satisfactorily completed the following session/ semester	The student should have passed the following examination
B.Pharm. Semester-I	As mentioned in Para 7 (A)	—	—
B.Pharm. Semester-II	—	B.Pharm. Semester-I	—
B.Pharm. Semester-III	—	B.Pharm. Semester-II	2/3 <sup>rd</sup> Heads of I & II Semester combined together
B.Pharm. Semester-IV	—	B.Pharm. Semester-III	-do-
B.Pharm. Semester-V	B.Pharm. I & II Semester	B.Pharm. Semester-IV Semester-V	2/3 <sup>rd</sup> Heads of III & IV Semester combined together
B.Pharm. Semester-VI	-do-	B.Pharm. Semester-V	-do-
B.Pharm. Semester-VII	B.Pharm. III & VI Semester	B.Pharm. Semester-VI	2/3 <sup>rd</sup> Heads of V & VI Semester combined together
B.Pharm. Semester-VIII	-do-	B.Pharm. Semester-VII	-do-

**Explanation :**

- While calculating 2/3 rd heads of passing, fraction if any shall be ignored
  - For considering the heads of passing, every theory and every practical shall be considered as separate head of passing.
  - An examinee who has passed 2/3rd heads of passing shall be allowed to keep term in the next higher class.
- Without prejudice to the other provisions of Ordinance No. 6 relating to the Examination in General , the provisions of Paragraphs 5,7,8,10,27,31 and 32 of the said Ordinance shall apply to every Collegiate candidate.
  - The fee for each examination and practical examination shall be as prescribed by the University, from time to time.
  - An applicant for admission to an examination shall satisfy the Head of the Department /Principal in the Terminal and other Tests conducted during the academic year regarding his suitability to take the examination.



- 12) The maximum marks allotted to the Sessional Examination in each paper, the written part and the practical part for each of the Four Examinations shall be per **Appendices-I to V** appended with this Direction.
- 13) The scope of the subjects shall be as indicated in the Syllabus.
- 14) The Head/ Principal shall maintain in his office a complete record of marks obtained by the candidate in the sessionals. He shall send to the Registrar in a sealed cover the final marks in sessional examination obtained by every applicant.
- 15) In order to pass an examination an examinee-
  - (i) Shall obtain not less than 45% of the total marks allotted to each written paper and its respective sessional Examination taken together as shown in the concerned Appendix;
  - (ii) Shall obtain not less than 50% of the total marks allotted to each practical and its respective sessional taken together as shown in concerned appendix.
- 16) There shall be no classification of successful examinees at the प्रथम, द्वितीय व तृतीय भेषजी स्नातक (First : Sem-I & II , Second: Sem-III & IV and Third B.Pharm : Sem-V & VI) Examinations.
- 17) Division of Successful examinees at the अन्त्य भेषजी स्नातक (Final B.Pharm- Semester VII and VIII) examination shall be determined on the basis of the aggregate marks obtained at the तृतीय आणि अन्त्य भेषजी स्नातक (Third and Final B.Pharm- Semester V, VI, VII, and VIII) examinations taken together.
- 18) Those obtaining 60% or more marks in the aggregate shall be placed in the First Division, and all other successful examinees in the second Division.
- 19) An examinees who is successful at an examination and obtains not less to 75% of the total marks prescribed in a subject, shall be declared to have pass examination with Distinction in that subject.
- 20) If a student fails in an examination his marks of Internal/ Sessional Assessment of Theory of the examination shall be carried over for the next examination. However, he can give a declaration to the effect that his Internal/Sessional Assessment marks of the Theory should not be counted and his marks in the Theory shall be only on the basis of external examination.
- 21) Improvement of Internal Assessment :-
  - If a candidate desires for improvement of internal assessment of theory/practical, he may reappear for an examination and fresh marks for internal assessment will be considered. There

- is only one chance to appear for improvement of internal assessment examination for internal theory/practical subject.
- Examination of the subject head “Project and the Seminars” will be conducted by the institute. The criteria for marks distribution is specified in the scheme of examination. The institute must submit the marks awarded in the Project report and in seminar to the controller of examination along with the periodic test marks (i.e. internal assessment marks). Once the candidate has passed in the subject head “Project report and seminar,” the candidate will not be allowed to reappear for examination in this subject head.
- 22) Provisions of Ordinance No. 18 of 2001 relating to an Ordinance to provide grace marks for passing in a Head of passing and Improvement of Division (Higher Class) and getting distinction in the subject and condonation of deficiency of marks in a subject in all the faculties prescribed by the Statute No.18, Ordinance 2001 shall apply to the examinations under this Direction.
  - 23) As soon as possible after the examination, but not later the 30th June next following in case of examinations held in summer and 28th february next following in case of examinations held in winter, the Board of Examination shall publish a list of successful examinees. The list of successful examinees at the अन्त्य भेषजी स्नातक (Final B.Pharm.- Semester VII and VIII) Examination shall be arranged in the First and Second Division, as envisaged in Paragraph 17 of this Direction the names of Examinees passing the B.Pharm. Examination as a whole in the minimum prescribed period and obtaining the prescribed number of places in the First or Second Division shall be arranged in order of Merit as provided in the examinations in General Ordinance No. 6.
  - 24) Notwithstanding anything to the contrary in this Direction , the Degree of Bachelor of Pharmacy shall not be conferred upon a person unless:-
 

He Undergoes a practical training of not less than four weeks after taking the Third year (Semester-V & VI) or Final year (Semester-VII & VIII) B. Pharm. Examination in Pharmaceutical industry/Primary Health Centre/Private Hospitals with 20 bed capacity and Medical shop (Whole sale or Retail) approved by the Head/Principal and unless the Head/ Principal certifies that the person has satisfactorily completed the said practical training as the case may be.
  - 25) Successful examinees at the प्रथम भेषजी स्नातक , द्वितीय भेषजी स्नातक व तृतीय भेषजी स्नातक (First B.Pharm,- (Sem. I and II) Second B.

Pharm, (Sem. III and VI) and Third B. Pharm (Sem. V and VI)) Examinations shall be entitled to receive a Certificate signed by the Registrar; and those successful at the अन्त्य भेषजी स्नातक (Final B.Pharm. Sem. VII and VIII Examination) shall, on payment of the prescribed fees, receive a degree, in the prescribed form, signed by the Vice-Chancellor.

Amravati  
Dated : 19/06/2010

Sd/-  
(Dr.Kamal Singh)  
Vice-Chancellor

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**Appendix-I**  
**Scheme of teaching for B. Pharm (Semester wise)**  
**First to Eight semester**

Sub. Code	Subject	Scheme of teaching	
		Theory	Practical
Semester-I			
1.1	Pharmaceutics-I	03	03
1.2	Pharmaceutical Biochemistry-I	03	03
1.3	Anatomy and Physiology-I	03	03
1.4	Pharmacognocyt-I	03	03
1.5	Pharmaceutical Engineering-I	03	03
Semester-II			
2.1	Pharmaceutics-II	03	03
2.2	Anatomy and Physiology-II	03	03
2.3	Pharmacognocyt-II	03	03
2.4	Pharmaceutical Engineering-II	03	03
2.5	Pharmaceutical Biochemistry-II	03	03
2.6	Mathematics	03	—
Semester-III			
3.1	Physical Pharmaceutics-I	03	03
3.2	Pharmaceutical Microbiology	03	03
3.3	Pharmaceutical Organic chemistry-I	03	03
3.4	Hospital and Community Pharmacy	03	03
3.5	Pharmaceutical Inorganic Chemistry	03	03
3.6	Pathophysiology	03	—
Semester-IV			
4.1	Physical Pharmaceutics-II	03	03
4.2	Pharmaceutical Organic chemistry-II	03	03
4.3	Pharmaceutical Analysis-I	03	03
4.4	Pharmaceutical Biotechnology	03	03
4.5	Pharmacology-I	03	03
4.6	Basic Computer Applications	03	—
Semester-V			
5.1	Pharmaceutics-III	03	03
5.2	Medicinal Chemistry-I	03	03
5.3	Pharmaceutical Organic Chemistry-III	03	03
5.4	Pharmacognocyt-III	03	03
5.5	Pharmacology-II	03	03
5.6	Biopharmaceutics-I	03	—

Sub. Code	Subject	Scheme of Examination						Minimum Marks for passing		Total Marks in theory/ practical (Credits)
		Theory		Practical		Theory Int. Marks	Pract. Int. Marks	Theory	Practical	
		Hrs	Marks	Hrs	Marks					
<b>Semester-I</b>										
1.1	Pharmaceutics-I	3	60	5	50	20	30	36	40	80 (04) + 80 (04)
1.2	Pharmaceutical Biochemistry-I	3	60	5	50	20	30	36	40	80 (04) + 80 (04)
1.3	Anatomy and Physiology-I	3	60	5	50	20	30	36	40	80 (04) + 80 (04)
1.4	Pharmacognocny-I	3	60	5	50	20	30	36	40	80 (04) + 80 (04)
1.5	Pharmaceutical Engineering-I	3	60	5	50	20	30	36	40	80 (04) + 80 (04)
		Total Marks (credits) for the Semester								800 (Total Credits: 40)
<b>Semester-II</b>										
2.1	Pharmaceutics-II	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
2.2	Anatomy and Physiology-II	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
2.3	Pharmacognocny-II	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
2.4	Pharmaceutical Engineering-II	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
2.5	Pharmaceutical Biochemistry-II	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
2.6	Mathematics	3	60	—	—	20	—	36	—	80 (04)
		Total Marks (credits) for the Semester								880 (Total Credits: 44)
<b>Semester-III</b>										
3.1	Physical Pharmaceu-tics-I	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
3.2	Pharmaceutical Microbiology	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
3.3	Pharmaceutical Organic chemistry-I	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
3.4	Hospital and Community Pharmacy	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
3.5	Pharmaceutical Inorganic chemistry	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
3.6	Pathophy siology	3	60	—	—	20	—	36	—	80 (04)
		Total Marks (credits) for the Semester								880 (Total Credits: 44)
<b>Semester-IV</b>										
4.1	Physical Pharmaceutics-II	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
4.2	Pharmaceutical Organic chemistry-II	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
4.3	Pharmaceutical Analysis-I	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
4.4	Pharmaceutical Biotechnology	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
4.5	Pharmacology-I	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
4.6	Basic Computer Applications	3	60	—	—	20	—	36	—	80 (04)
		Total Marks (credits) for the Semester								880 (Total Credits: 44)

Semester-V										
5.1	Pharmaceutics-III	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
5.2	Medicinal Chemistry-I	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
5.3	Pharmaceutical Organic Chemistry-III	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
5.4	Pharmacognocny-III	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
5.5	Pharmacology-II	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
5.6	Biopharmaceutics-I	3	60	—	—	20	—	36	—	80 (04)
		Total Marks (credits) for the Semester								880 (Total Credits: 44)
Semester-VI										
6.1	Pharmaceutics-IV	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
6.2	Medicinal Chemistry-II	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
6.3	Pharmaceutical Analysis-II	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
6.4	Pharmacognocny-IV	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
6.5	Biopharmaceutics-II	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
6.6	Clinical Pharmacy	3	60	—	—	20	—	36	—	80 (04)
6.7	Project*	—	—	3	80	—	—	—	—	80 (04)
		Total Marks (credits) for the Semester								960 (Total Credits: 48)
Semester-VII										
7.1	Pharmaceutics-V	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
7.2	Medicinal Chemistry-III	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
7.3	Pharmacology-III	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
7.4	Pharmacognocny-V	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
7.5	Pharmaceutical Analysis-III	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
7.6	Pharmaceutical Jurisprudence	3	60	—	—	20	—	36	—	80 (04)
7.7	Seminar (one per each student)*	3	80	—	—	—	—	36	—	80 (04)
		Total Marks (credits) for the Semester								960 (Total Credits: 48)
Semester-VIII										
8.1	Pharmaceutics-VI	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
8.2	Medicinal Chemistry-IV	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
8.3	Pharmaceutical Analysis-IV	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
8.4	Pharmacognocny-VI	3	60	5	50	20	30	36	40	80 (04)+ 80 (04)
8.5	Clinical Pharma cotherapeutics	3	60	—	—	20	—	36	—	80 (04)
8.6	Communication Skills	3	60	—	—	20	—	36	—	80 (04)
		Total Marks (credits) for the Semester								800 (Total Credits: 40)

### Project Report :-

- \* The topic for the project shall be based on the practical work /theoretical/ review oriented /any topic from current Pharmaceutical development and shall be assigned to him/her by the respective guide from faculty members immediate from the date of the commencement of the sixth semester.

- \* Report to be submitted in the institute and examination (seminars on the project report) shall be conducted at the college level.

Examination/ Evaluation of the project shall be based on Introduction and information retrieval systems, Organization of material and references in the project report, Representation, Skill in oral presentation, Questioning and defending, and finally on the report.

### Seminar :-

- \* The topic for the seminar shall be assigned to him/her by the faculty members of Seventh semester & topic should be decided from the syllabus of same semester, with immediate from the date of the commencement of the seventh semester.  
Evaluation of seminar shall be based on the communication, representation and skill in oral presentation.

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### Appendix-III

#### Semester-I

Subject Code	Subject	Maximum Marks (Credits)		Total Marks (Credits)
		Theory	Practical	
1.1	Pharmaceutics-I	80 (04)	80 (04)	160 (08)
1.2	Pharmaceutical Biochemistry-I	80 (04)	80 (04)	160 (08)
1.3	Anatomy and Physiology-I	80 (04)	80 (04)	160 (08)
1.4	Pharmacognocny-I	80 (04)	80 (04)	160 (08)
1.5	Pharmaceutical Engineering-I	80 (04)	80 (04)	160 (08)
	Total			800 (40)

#### Semester-II

Subject Code	Subject	Maximum Marks (Credits)		Total Marks (Credits)
		Theory	Practical	
2.1	Pharmaceutics-II	80 (04)	80 (04)	160 (08)
2.2	Anatomy and Physiology-II	80 (04)	80 (04)	160 (08)
2.3	Pharmacognocny-II	80 (04)	80 (04)	160 (08)
2.4	Pharmaceutical Engineering-II	80 (04)	80 (04)	160 (08)
2.5	Pharmaceutical Biochemistry-II	80 (04)	80 (04)	160 (08)
2.6	Mathematics	80 (04)	—	80 (04)
	Total			880 (44)

**Semester-III**

Subject Code	Subject	Maximum Marks (Credits)		Total Marks (Credits)
		Theory	Practical	
3.1	Physical Pharmaceutics-I	80 (04)	80 (04)	160 (08)
3.2	Pharmaceutical Microbiology	80 (04)	80 (04)	160 (08)
3.3	Pharmaceutical Organic chemistry-I	80 (04)	80 (04)	160 (08)
3.4	Hospital and Community Pharmacy	80 (04)	80 (04)	160 (08)
3.5	Pharmaceutical Inorganic chemistry	80 (04)	80 (04)	160 (08)
3.6	Pathophysiology	80 (04)	—	80 (04)
	Total			880 (44)

**Semester-IV**

Subject Code	Subject	Maximum Marks (Credits)		Total Marks (Credits)
		Theory	Practical	
4.1	Physical Pharmaceutics-II	80 (04)	80 (04)	160 (08)
4.2	Pharmaceutical Organic chemistry-II	80 (04)	80 (04)	160 (08)
4.3	Pharmaceutical Analysis-I	80 (04)	80 (04)	160 (08)
4.4	Pharmaceutical Biotechnology	80 (04)	80 (04)	160 (08)
4.5	Pharmacology-I	80 (04)	80 (04)	160 (08)
4.6	Basic Computer Applications	80 (04)	—	80 (04)
	Total			880 (44)

**Semester-V**

Subject Code	Subject	Maximum Marks (Credits)		Total Marks (Credits)
		Theory	Practical	
5.1	Pharmaceutics-III	80 (04)	80 (04)	160 (08)
5.2	Medicinal Chemistry-I	80 (04)	80 (04)	160 (08)
5.3	Pharmaceutical Organic Chemistry-III	80 (04)	80 (04)	160 (08)
5.4	Pharmacognocny-III	80 (04)	80 (04)	160 (08)
5.5	Pharmacology-II	80 (04)	80 (04)	160 (08)
5.6	Biopharmaceutics-I	80 (04)	—	80 (04)
	Total			880 (44)

**Semester-VI**

Subject Code	Subject	Maximum Marks (Credits)		Total Marks (Credits)
		Theory	Practical	
6.1	Pharmaceutics-IV	80 (04)	80 (04)	160 (08)
6.2	Medicinal Chemistry-II	80 (04)	80 (04)	160 (08)
6.3	Pharmaceutical Analysis-II	80 (04)	80 (04)	160 (08)
6.4	Pharmacognocny-IV	80 (04)	80 (04)	160 (08)
6.5	Biopharmaceutics-II	80 (04)	80 (04)	160 (08)
6.6	Clinical Pharmacy	80 (04)	—	80 (04)
6.7	Project	80 (04)	—	80 (04)
	Total			960 (48)

**Semester-VII**

Subject Code	Subject	Maximum Marks (Credits)		Total Marks (Credits)
		Theory	Practical	
7.1	Pharmaceutics-V	80 (04)	80 (04)	160 (08)
7.2	Medicinal Chemistry-III	80 (04)	80 (04)	160 (08)
7.3	Pharmacology-III	80 (04)	80 (04)	160 (08)
7.4	Pharmacognocny-V	80 (04)	80 (04)	160 (08)
7.5	Pharmaceutical Analysis-III	80 (04)	80 (04)	160 (08)
7.6	Pharmaceutical Jurisprudence	80 (04)	—	80 (04)
7.7	Seminar (one per each student)	80 (04)	—	80 (04)
	Total			960 (48)

**Semester-VIII**

Subject Code	Subject	Maximum Marks (Credits)		Total Marks (Credits)
		Theory	Practical	
8.1	Pharmaceutics-VI	80 (04)	80 (04)	160 (08)
8.2	Medicinal Chemistry-IV	80 (04)	80 (04)	160 (08)
8.3	Pharmaceutical Analysis-IV	80 (04)	80 (04)	160 (08)
8.4	Pharmacognocny-VI	80 (04)	80 (04)	160 (08)
8.5	Clinical Pharmaco- therapeutics	80 (04)	—	80 (04)
8.6	Communication Skill	80 (04)	—	80 (04)
	Total			800 (40)

## Appendix-IV

## DISTRIBUTION OF TOTAL MARKS/ CREDITS SEMESTER WISE :

Year	Semester	Total Marks/Credits
First year	Semester-I	800(40)
	Semester-II	880(44)
Second year	Semester-III	880(44)
	Semester-IV	880(44)
Third year	Semester-V	880(44)
	Semester-VI	960(48)
Fourth year	Semester-VII	960(48)
	Semester-VIII	800(40)
	<b>Total Marks/Credits</b>	<b>7040(credits= 352)</b>

## Appendix-V

Sant Gadge Baba Amravati University, Amravati

## B. Pharm Syllabus

Credit-grade based performance and assessment system (CGPA))

Features of the Credit System

With effect from June 2010

## FEATURES OF THE CREDIT SYSTEM

- Degree course would be of total 352 credits.
- Two credit course of theory will be of two clock hours per week running for 08 weeks.
- Four credit course of theory will be of three clock hours per week running for 12 weeks.
- Two credit courses of practical will consist of three hours of laboratory exercise for 12 weeks.
- Three credit course of practical will consist of three hours of laboratory exercise for 12 weeks.

**FIRST YEAR MAY DEVIDE INTO TOTAL TWO SEMESTERS (SEMESTER-I AND SEMESTER-II) AND SHALL HAVE TOTAL 11 THEORY COURSES, 10 PRACTICAL COURSE.**

- 11 Theory courses x 4 credits = 44 credits
- 10 Laboratory courses x 4 credits = 40 credits
- Total = 84 credits

**SECOND YEAR MAY DEVIDE INTO TOTAL TWO SEMESTERS (SEMESTER-III AND SEMESTER-IV) AND SHALL HAVE TOTAL 12 THEORY COURSES, 10 PRACTICAL COURSE.**

- 12 Theory courses x 4 credits = 48 credits
- 10 Laboratory courses x 4 credits = 40 credits
- Total = 88 credits

**THIRD YEAR MAY DEVIDE INTO TOTAL TWO SEMESTERS (SEMESTER-V AND SEMESTER-VI) AND SHALL HAVE TOTAL 12 THEORY COURSES, 11 PRACTICAL COURSE AND 1 PROJECT**

- 12 Theory courses x 4 credits = 48 credits
- 10 Laboratory courses x 4 credits = 40 credits
- 1 Project x 4 credits = 04 credit
- Total = 92 credits

**FORTH YEAR MAY DEVIDE INTO TOTAL TWO SEMESTERS (SEMESTER-VII AND SEMESTER-VIII) AND SHALL HAVE TOTAL 12 THEORY COURSES, 8 PRACTICAL COURSE AND 1 SEMINAR**

- 12 Theory courses x 4 credits = 48 credits
- 9 Laboratory courses x 4 credits = 36 credits
- 1 SEMINAR x 4 credits = 04 credit
- Total = 88 credits

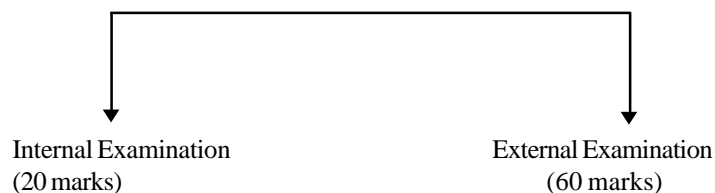
**EVERY STUDENT SHALL COMPLETE MINIMUM 262 CREDITS IN EIGHT SEMESTERS.**

- First year have two semesters and will consist of 84 credits.
  - Second year have two semesters and will consist of 88 credits.
  - Third year have two semesters and will consist of 92 credits.
  - Forth year have two semesters and will consist of 88 credits.
- First year ( semester-I and II) = 84 credits
  - Second year ( semester-III and IV) = 88 credits
  - Third year ( semester-V and VI) = 92 credits
  - Forth year ( semester-VII and VIII) = 88 credits
  - Eight semesters total credits = 352 credits**

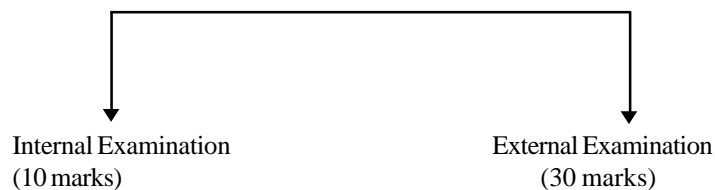
### SCHEME OF SYLLABUS AND CREDIT SYSTEM

Two credits = 40 marks, three credits = 60 marks and four credits = 80 marks.

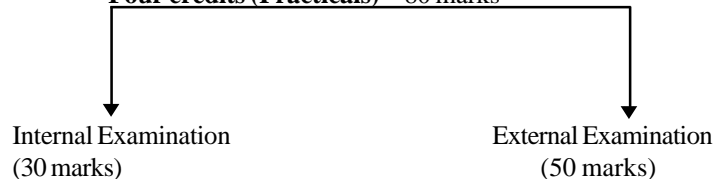
- **Four credits (theory) = 80 marks**



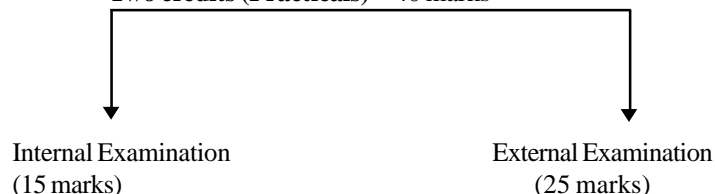
- **Two credits (theory) = 40 marks**



- **Four credits (Practicals) = 80 marks**



- **Two credits (Practicals) = 40 marks**



Academic calendar showing dates of commencement and end of teaching, internal assessment tests and term end examination shall be duly notified before commencement of each semester every year by the school.

- Credit system offers more options to students and has more flexibility.
- Students can get requisite credits from the concerned school where he is mutually permitted on terms mutually agreed to complete the same and be eligible to appear for term end examination.
- Seminar and the project shall be compulsory to each student at the end semester of third and final year.

- Paper setting and assessment for a particular course would be the responsibility of the course In-charge.
- A student who passes the internal tests but fails in Term End Examination of a course shall be given FC grade.
- Student with FC grade in a course would be granted credit for that course but not the grade for that course and shall have to clear the concerned course within 1.5 year from appearing for first time in the concerned paper.
- The evaluation is based on average weightage system. Every subject has credit point based system. Every student is awarded grade point out of maximum 10 points in each subject (based on 10 point scale).
- Grades-Marks for each course would be converted to grades as shown in following Table 1 for theory and table 2 for practical.

**Table 1: Final Grade point for SGPA and CGPA for Theory**

Final grade	Range of Marks obtained out of 100 or equivalent fraction	Grade point
A+	90-100	10
A	80-89	9
B+	70-79	8
B	60-69	7
C+	50-59	6
C	50-54	5
D	40-49	4
F	Below 40	0

**Table 2: Final Grade point for SGPA and CGPA for Practical**

Final grade	Range of Marks obtained out of 100 or equivalent fraction	Grade point
A+	90-100	10
A	80-89	9
B+	70-79	8
B	60-69	7
C+	55-59	6
C	50-54	5
D	Below 50	0

- Equivalence of the conventional division/class with the CGPA in final semester is in accordance with the following table 3.

**Table-3: Equivalence of Class/Division to CGPA**

Sr. No.	CGPA	Class/Division
1.	7.5 or more than 7.5	First Class with Distinction
2.	6.00 or more but not less than or equal to 7.49	First Class
3.	5.50 or more but not less than or equal to 5.99	Higher Second Class
4.	5.00 or more but not less than or equal to 5.49	Second Class

- Based on the grade point obtained in each subject, Semester Grade Point Average (SGPA) and then Cumulative Grade Point Average (CGPA) are computed as follows.

#### Computation of SGPA and CGPA

Every student is awarded point out of maximum out of 10 point in each subject (Based on 10 point scale). Based on the Grade point obtained in subject the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) are computed. The computation of SGPA and CGPA is as under.

Semester Grade Point Average (SGPA) is the weightage average of point obtained by a student in a semester and computed as follows.

$$SGPA = \frac{U_1 \times M_1 + U_2 \times M_2 + \dots + U_n \times M_n}{U_1 + U_2 + \dots + U_n}$$

Where  $U_1, U_2, \dots$  are subject credit of the respective course and  $M_1, M_2, \dots$  are the Grade point obtained in the respective subject (out of 10).

The Semester Grade Point Average (SGPA) for all the four semester is also mentioned at the end of every semester.

The Cumulative Point Average (CGPA) is used to describe the overall performance of a student in the course and is computed as under. CGPA shall be calculated on semester V, VI, VII & VIII.

$$CGPA = \frac{\sum_{n=1}^n SGPA(n) C_n}{\sum^n C_n}$$

Where SGPA (n) is the nth semester SGPA of the student and  $C_n$  is the nth semester total credit. The SGPA and CGPA are rounded off to the second place of decimal.

- Degree will be awarded on the basis of the performance of credits from the Semester-V to VIII.

#### ACADEMIC CALENDAR AND TERMS

The terms and academic activities of the Sant Gadge Baba Amravati University, Amravati under CGPA shall be as per the dates given below, only the years shall be changed i.e. the dates shall remain same as given below irrespective of the year.

Beginning of First Term (Semester I, III, V and VII) : As Per University Academic Calendar  
Beginning of Second Term (Semester II, IV, VI and VIII) : As Per University Academic Calendar  
Vacation : As Per University Academic Calendar

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**SANT GADGE BABA AMRAVATI UNIVERSITY****DIRECTION**

No.: 68/ 2010

Date : 11/11/ 2010

**Subject : Consideration of equivalence of D.Pharm. passed students admitted in B.Pharm. 1<sup>st</sup> year semester pattern, Direction 2010.**

Whereas, Direction No. 21/2010 in respect of Examination Leading to the Degree of भेषजी स्नातक (Bachelor of Pharmacy) (Four Year - Eight Semester Degree Course) is in existence from the Academic Session 2010-11.

AND

Whereas, in the aforesaid direction the equivalence for D.Pharm. passed students admitted in the first year B.Pharm. semester pattern is not provided.

AND

Whereas, the Board of Studies in Pharmaceutical Science in its emergent meeting held on 21.10.2010 vide item No.60 have resolved to recommend provisions for aforesaid students.

AND

Whereas, the Hon'ble Vice-Chancellor has accepted the above recommendation of B.O.S. in Pharmaceutical Sciences on behalf of faculty of Medicine and Academic Council on 25.10.2010.

AND

Whereas, the aforesaid recommendations are to be regularized by framing the concerned Ordinance & making of the Ordinance may likely to take some time and the above provision is to be implemented from the current session.

Now, therefore, I, Pravin Pardesi, Vice Chancellor of Sant Gadge Baba Amravati University, in exercise of powers conferred upon me under sub-section (8) of section 14 of the Maharashtra Universities Act., 1994, do hereby direct as under:

- 1) This Direction may be called "Consideration of equivalence of D.Pharm. passed students admitted in B.Pharm. 1<sup>st</sup> year semester pattern, Direction, 2010".
- 2) This direction shall come into force from the date of its issuance.
- 3) Exempted to the candidates from appearing in all the subjects excluding the subject Mathematics of First Year B.Pharm. Ist &

IInd semester those who are admitted on the basis of D.Pharm. Such candidates have to pass in the theory paper of Mathematics of first year B.Pharm. second semester otherwise his/her result of third year B.Pharm. Semester-V examination will not be declared.

Amravati  
Dated : 09/11/2010

Sd/-  
(Pravin Pardesi)  
Vice-Chancellor

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**SANT GADGE BABA AMRAVATI UNIVERSITY****DIRECTION**

No.: 4/ 2012

Date : 22/02/ 2012

**Subject : Corrigendum to Direction No.21/2010 & 8 of 2011 in respect of Examination Leading to the Degree of भेषजी स्नातक (Bachelor of Pharmacy) (Four Year - Eight Semester Degree Course).**

Whereas, Direction No.21/2010 in respect of Examination Leading to the Degree of भेषजी स्नातक (Bachelor of Pharmacy) (Four Year - Eight Semester Degree Course) is in existence in the University.

AND

Whereas, the aforesaid Direction is corrected by issuing corrigendum to Direction No.21 of 2010 vide Direction No.8/2011.

AND

Whereas, the Academic Council in its meeting held on 13.1.2012 vide item No.14 7) A) R-2, R-3 & R-4 has accepted the recommendations of the faculty of Medicine (including Pharmaceutical Sciences, Dentistry & Homoeopathy) regarding corrections in the aforesaid Directions from the Academic Session 2011-12.

AND

Whereas, the Hon'ble Vice-Chancellor has approved the corrections recommended by the Dean, faculty of Medicine (including Pharmaceutical Sciences, Dentistry & Homoeopathy) on behalf B.O.S. in Pharmaceutical Sciences, faculty of Medicine and Academic Council on 9.2.2012 to be implemented from the Academic Session 2011-12.

AND

Whereas, the said matter is required to be regulated by framing an Ordinance/Regulation.

AND

Whereas, conversion of above said Directions into respective Ordinance/Regulation is before the Ordinance Committee for making Draft Ordinance/Regulation and onward submission to higher authorities.

AND

Whereas, making of Ordinance/Regulation may likely to take some time.

AND

Whereas, the Academic Session 2011-12 is already started and hence it is necessary to issue corrigendum to above directions in this regard.

Now, therefore, I, Dr. Mohan K.Khedkar, Vice Chancellor of Sant Gadge Baba Amravati University, in exercise of powers conferred upon me under sub-section (8) of section 14 of the Maharashtra Universities Act., 1994, do hereby direct as under:

- 1) This Direction may be called “Corrigendum to Direction No.21/2010 & 8 of 2011 in respect of Examination Leading to the Degree of भेषजी स्नातक (Bachelor of Pharmacy) (Four Year - Eight Semester Degree Course)”.
- 2) This direction shall come into force from the date of its issuance.
- 3) the following corrections be made in Direction No.8 of 2011 for rectifying the Direction which are to be implemented from the Academic Session 2011-12 as follows-
  - i) the present tables i.e. Table-1 & Table-2 be substituted by the following tables as Table-1 & Table-2 :

**Table 1: Grade point for Theory**

Grade	Range of Marks obtained out of 100 or equivalent fraction	Grade point
AA	90-100	10
AB	80-89	9
BB	70-79	8
BC	60-69	7
CC	55-59	6
CD	45-54	5
FF	Below 45	0
ZZ	Absent in Examination	

**Table 2: Grade point for Practical**

Grade	Range of Marks obtained out of 100 or equivalent fraction	Grade point
AA	90-100	10
AB	80-89	9
BB	70-79	8
BC	60-69	7
CC	55-59	6
CD	50-54	5
FF	Below 50	0
ZZ	Absent in Examination	

- ii) In Table 3 “Equivalence of Class/Division to CGPA”, in Sr.No.2, 3, & 4, the word ‘not’ appearing in the column CGPA be deleted.
- iii) The following additional Table for ‘Grade Points for SGPA & CGPA’ of B.Pharm. be inserted.

**Table-4 : Grade Points for SGPA and CGPA of B.Pharm.**

Grade Point	Final Grade
9 - 10	AA
8 - 8.99	AB
7 - 7.99	BB
6 - 6.99	BC
5.5 - 5.99	CC
4.5 - 5.49	CD
0 - 4.49	FF
Absent in Examination	ZZ

- iv) The formula for CGPA be corrected as-

$$CGPA = \frac{\sum_{n=5}^{n=8} SGPA(n)C(n)}{\sum_{n=5}^{n=8} C(n)}$$

- v) Grade for failure students should be ‘FF’ instead of ‘FC’.
- vi) The words and figure “within 1.5 year from appearing for first time in the concerned paper” appearing in aforesaid Direction at Sr.No. 3), in line 9 & 10, be deleted.

- vii) In Direction No.8 of 2011, the following provision be inserted in Sr.No.3), after the contents of first bullet (i.e. ● ).  
“The students who passed D.Pharm. examinations and admitted to B.Pharm. Ist year Ist / IInd semester should be exempted for award of “FF” Grade in B.Pharm. first year, IInd Semester Examination.”
- 4) i) In Direction No.21 of 2010, the following provision be inserted.  
“There should be 5 incentive marks for each semester of B.Pharm. examinations.”
- ii) The word “Candidate” appearing in the first line of Para 21 of the Direction No.21 of 2010 be substituted by the word “Ex-student”.
- iii) In Direction No.21 of 2010, the words, “The post H.S.S.C. Diploma in Pharmacy (i.e. according to Education Regulation, 1991 of Pharmacy Council of India) from the Board of Technical Education or Equivalent from an institute approved by Pharmacy Council of India in first attempt scoring not less than 600 marks out of 1000 marks at D.Pharm.Part-II examination.” appearing in Para 7 (B) be substituted by the words “The norms laid down by the Directorate of Technical Education, Mumbai, Government of Maharashtra from time to time.”

Amravati

Dated : 21/02/2012

Sd/-  
(Dr.M.K.Khedkar)  
Vice-Chancellor

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**SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI**  
**% ORDINANCE NO. 42 OF 2005**

**Examination in Environmental Studies leading to Bachelor Degree, Ordinance, 2005**

Whereas it is expedient to frame an Ordinance relating to Examination in Environmental Studies leading to Bachelor Degree level, hereinafter appearing, the Management Council is hereby pleased to make the following Ordinance.

1. This Ordinance may be called “Examination in Environmental Studies leading to Bachelor Degree, Ordinance, 2005.”
2. This Ordinance shall come into force from the Academic session 2005-06.
3. In this Ordinance and in other ordinances relating to the examination, unless there is anything repugnant in the subject or context :-
  - (i) “Academic session” means a session commencing on such date and ending with such date of the year following as may be appointed by the Management Council.
  - (ii) “Admission to an examination” means the issuance of an admission card to a candidate in token of his having complied with all the conditions laid down in the relevant ordinance, by a competent officer of the University.
  - (iii) “Applicant” means a person who has submitted an application to the University in the form prescribed for admission to an examination.
  - (iv) “Candidate” means a person who has been admitted to an examination by the University.
  - (v) “Regular Candidate” means an applicant who has applied for admission to a University examination through an affiliated college, Department or Institute in which he/she has prosecuting a regular course of study.
  - (vi) “Examinee” means a person who present himself/herself for an examination to which he/she has been admitted.
  - (vii) “Examination” means an examination prescribed by the University under the relevant Ordinance.
  - (viii) “External Candidate” means a candidate who is allowed to take a University examination in accordance with the provision of Original Ordinance No. 151.
  - (ix) “Non-Collegiate Candidate” means a candidate who is not a collegiate candidate.
  - (x) An “Ex-student” is a person who having once been admitted to an examination of this University, is again required to take the same examination by reason of his failure or absence thereat and shall

include a student who may have joined a college, Department or Institute again in the same class.

- (xi) "Bachelor Degree Examination" means a examination leading to Bachelor Degree of the University.
  - (xii) "Previous Year" means a year following by final year of Bachelor Degree.
4. Save as otherwise specifically provided, the conditions prescribed for admission to the examination under this Ordinance shall apply to all persons who wish to take the examination to the Degrees of the University mentioned in para 5 below.
  5. The conditions prescribed for admission to examination under this Ordinance shall apply to following degrees of the University :-
    - 1) Bachelor of Arts
    - 2) Bachelor of Performing Arts
    - 3) Bachelor of Fine Arts
    - 4) Bachelor of Mass Communication
    - 5) Bachelor of Social Work
    - 6) Bachelor of Commerce
    - 7) Bachelor of Business Administration
    - 8) Bachelor of Science
    - 9) Bachelor of Computer Science
    - 10) Bachelor of Computer Applications
    - 11) Bachelor of Pharmacy
    - 12) Bachelor of Science (Home Science)
    - 13) Bachelor of Technology (Cosmetics)
    - 14) Bachelor of Engineering
    - 15) Bachelor of Engineering (Part Time) (Civil)
    - 16) Bachelor of Textile
    - 17) Bachelor of Technology (Chemical Technology)
    - 18) Bachelor of Technology (Chemical Engg.)
    - 19) Bachelor of Architecture, and
    - 20) Bachelor of Laws (Five Year Course)
  - 6 i) Environmental Studies shall be a compulsory subject for a previous year examination of the following Bachelor Degrees of the University,
    - 1) Bachelor of Arts
    - 2) Bachelor of Performing Arts
    - 3) Bachelor of Fine Arts
    - 4) Bachelor of Mass Communication

- 5) Bachelor of Social Work
  - 6) Bachelor of Commerce
  - 7) Bachelor of Business Administration
  - 8) Bachelor of Science
  - 9) Bachelor of Computer Science
  - 10) Bachelor of Computer Applications
  - 11) Bachelor of Pharmacy
  - 12) Bachelor of Science (Home Science)
  - 13) Bachelor of Technology (Cosmetics)
  - 14) Bachelor of Engineering (Part Time) (Civil)
- ii) Environmental Studies shall be a compulsory subject for IIIrd & IVth Semester of the following Bachelor Degrees of the University,
    - 1) Bachelor of Engineering
    - 2) Bachelor of Textile
    - 3) Bachelor of Technology (Chemical Technology)
    - 4) Bachelor of Technology (Chemical Engineering)
    - 5) Bachelor of Architecture, and
  - iii) Environmental Studies shall be a compulsory subject for Vth & VIth Semester of the Degree of Bachelor of Laws (Five Year Course)
  - iv) Students admitted to Second Year/Third Year/IVth Semester Vth Semester of various degree examination courses in different faculties in the academic session 2005-06 or thereafter shall have to appear for examination in the subject Environmental studies.
7. The main Examination leading to Environmental Studies shall be held in Summer and Supplementary examination in Winter every year, at such places and on such date as may be appointed by the Board of Examinations.  
**Explanation :-** Examination shall be conducted on the basis of one common question paper for all Bachelor Degree examination courses irrespective of annual or semester pattern.
  8. Scope of the subject for annual pattern examination and or semester pattern examination shall be as provided under the syllabus.
  9. Common question paper for all courses covered under this Ordinance alongwith answer books shall be supplied by the University to the Colleges, Departments and Institutes for conducting the examination of the subject.

10. Valuation of the answer books relating to this subject shall be done at College/Department/Institution level only. Remuneration for valuation of answer books shall not be paid by the University.  
Provided that prescribed evaluation fee for evaluation of each answer Book/s of an external examinee/s appeared from the examination centre shall be paid to each examination centre.
11. It shall be obligatory on the part of the College/Department/Institute to submit candidate wise following information to the University on or before the date as may be prescribed by the University :-

Sr. No.	Grade/Category	Marks secured
1.	“A”	- 60 and above
2.	“B”	- 45 to 59
3.	“C”	- 35 to 44
4.	“D”	- 25 to 34
5.	“Fail”	- 24 and below
6.	“Absent”	

12. For the purposes of teaching, learning and examination, the Committee consisting of three teachers shall be appointed by the Principal/ Head of the Department/Head of the Institution under his/her Chairmanship/ Chairpersonship. While appointing three teachers on the said committee, the Principal shall take care that the teachers to be appointed on the committee, if necessary, shall be from different faculty.
13. i) Duration of theory examination of this subject shall be three hour.  
ii) For all Bachelor Degree examinations, common question paper of 100 marks shall be provided by the University.  
iii) Distribution of these 100 marks shall be as follows :-
- |   |           |
|---|-----------|
| a) Part-A, Short Answer Pattern           | -25 Marks |
| b) Part-B, Essay type with inbuilt choice | -50 Marks |
| c) Part-C, Essay on Field Work            | -25 Marks |
14. Medium of instruction shall be English or Marathi or Hindi. Question paper shall be supplied in English and Marathi and Hindi. A candidate shall have option to write answers in English or Marathi or Hindi.
15. Examination for the subject Environmental Studies shall be compulsory for external candidates appearing as a fresh candidate at Winter and/or Summer examination.

16. For teaching of the subject, there shall be atleast two hour per week.  
For teaching the subject to the regular candidates, a full time approved teacher of the University and or a person having Postgraduate Degree in any faculty with second class shall be considered eligible.
17. For teaching of the subject, additional fee to be charged to regular candidate shall be as prescribed by the University.
18. Every College/University Teaching Department shall Charge additional fee of Rs. 100/- to every student of the subject Environmental Studies. Out of this Rs.100/-, the College/University Teaching Department shall have to pay Rs.25/- to the University as an examination fee of each candidate for the subject Environmental Studies.
19. The Grade secured by an examinee in the examination of this subject shall not be considered for providing the facility of A.T.K.T. in next higher class.
20. The provisions of Ordinance No. 18/2001 shall not be applicable for securing a grade or higher grade in the examination of this subject.
21. Result of the Final Year of the respective Degree shall not be declared of an examinee unless he/she secures any one of the grade in the examination of subject.  
Provided an examinee admitted to Five Year LL.B. course desiring not to continue his/her education beyond Sixth Semester of the said course shall have to secure any one of the grade in the examination of the subject otherwise his/her result of Sixth Semester for awarding B.A. degree shall not be declared.
22. Certificates shall be issued, to the successful examinees in the subject Environmental Studies, after the examination.

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## SANT GADGE BABA AMRAVATI UNIVERSITY

### SPECIAL NOTE FOR INFORMATION OF THE STUDENTS

(1) Notwithstanding anything to the contrary, it is notified for general information and guidance of all concerned that a person, who has passed the qualifying examination and is eligible for admission only to the corresponding next higher examination as an ex-student or an external candidate, shall be examined in accordance with the syllabus of such next higher examination in force at the time of such examination in such subjects, papers or combination of papers in which students from University Departments or Colleges are to be examined by the University.

(2) Be it known to all the students desirous to take examination/s for which this prospectus has been prescribed should, if found necessary for any other information regarding examinations etc. refer the University Ordinance Book let the various conditions/provisions pertaining to examinations as prescribed in the following Ordinances-

Ordinance No. 1	:	Enrolment of Students.
Ordinance No. 2	:	Admission of Students
Ordinance No. 4	:	National Cadet Corps
Ordinance No. 6	:	Examination in General (relevant extracts)
Ordinance No. 18/2001	:	An Ordinance to provide grace marks for passing in a Head of passing and Improvement of Division (Higher Class) and getting Distinction in the subject and condonation of deficiency of marks in a subject in all the faculties prescribed by the Statute NO.18, Ordinance 2001.
Ordinance No.9	:	Conduct of Examinations (Relevant extracts)
Ordinance No.10	:	Providing for Exemptions and Compartments
Ordinance No. 19	:	Admission Candidates to Degrees
Ordinance No.109	:	Recording of a change of name of a University Student in the records of the University
Ordinance No. 6/2008	:	For Improvement of Division/Grade.
Ordinance No.19/2001	:	An Ordinance for Central Assessment Programme, Scheme of Evaluation and Moderation of answer books and preparation of results of the examinations, conducted by the University, Ordinance 2001.

Registrar  
Sant Gadge Baba Amravati University

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SANT GADGE BABA AMRAVATI UNIVERSITY

DIRECTION

NO. 27/2017

Dated : 13/07/2017

**Subject :** Examinations Leading to the Degree of भेषजी स्नातक (Bachelor of Pharmacy) (Four year - Eight Semester Degree Course) (Credit Based Semester System)(CBSS), Direction, 2017.

Whereas, Direction No.11 of 2013 & Direction No. 04 of 2014 in respect of Examinations Leading to the भेषजी स्नातक (Bachelor of Pharmacy) (Four year - Eight Semester Degree Course) (Credit Based Semester System)(CBSS), Direction, are in existence in the University.

AND

Whereas, Pharmacy Council of India, New Delhi has notified the Bachelor of Pharmacy (B.Pharm.) Course Regulation 2014 and prescribed the Scheme & syllabus for Bachelor of Pharmacy courses vide letter No. date :- 14-136/2016-PCI 14-154/2015-PCI/53895-54431 dt. 21<sup>st</sup> Dec, 2016 and instructed to all University for implementation of the same and to submit compliance of implementation of Syllabus and Regulation Pharmacy Council of India

AND

Whereas, the Board of Studies in Pharmaceutical Sciences in its meeting held on 23.3.2017 has recommended the Draft schemes, Draft Syllabi and necessary provisions as given by PCI to be implemented from the academic session 2017-18

AND

Whereas, the Vice Chancellor has accepted the recommendations of Board of Studies in Pharmaceutical Sciences and recommended to the Academic Council for its approval under section 12(7) of Maharashtra Public Universities Act, 2016 on behalf of Faculty of Science & Technology.

AND

Whereas, the Academic Council in its meeting held on 06.06.2017 vide item No.43 has approved the recommendations of the Faculty of Science & Technology.

Whereas, the above Schemes and draft provisions are to be incorporated in the Ordinance/Regulation and Syllabus of Bachelor of pharmacy are to be implemented from the Academic Session 2017-18.

AND

Whereas, the above Scheme and provisions are to be Regulated by framing the Ordinance/Regulation.

AND

Whereas, making Ordinance/ Regulation is a time consuming process

Now, therefore, I, Dr. Murlidhar G. Chandekar, Vice-Chancellor, Sant Gadge Baba Amravati University, Amravati in exercise of powers conferred upon me under sub-section (8) of Section 12 of the Maharashtra Public Universities Act, 2016, do hereby direct as under-

1. This Direction may be called "Examinations Leading to the Degree of भेषजी स्नातक (Bachelor of Pharmacy) (Four year - Eight Semester Degree Course) (Credit Based Semester System)(CBSS), , Direction, 2017".
2. This Direction shall come into force from the Academic Session 2017-18 for B.Pharm. Semester -I & II & onwards.

**3. Short Title and Commencement**

These regulations shall be called as "The Revised Regulations for the B. Pharm. Degree Program (CBCS) of the Pharmacy Council of India, New Delhi". They shall come into effect from the Academic Year 2017-18. The regulations framed are subject to modifications from time to time by Pharmacy Council of India

**4. Minimum qualification for admission**

**4.1 First year B. Pharm:**

Subject to his compliance with the provision of this direction and of other ordinance in force from time to time, and applicant for admission to -

A) The भेषजी स्नातक (First B.Pharm - Semester I & II) Examination shall have passed not less than one academic year previously -

- i) The Diploma in Pharmacy Examination from an institution recognized by the pharmacy council of India with minimum 40 % marks.



- ii) The 12<sup>th</sup> Standard Examination of the Maharashtra State Board of Secondary and Higher Secondary Education with English, Physics, Chemistry and Biology or Mathematics as subject of study of the 12<sup>th</sup> Standard. Securing minimum: 50% Marks ( 45% Marks for Backward Class Candidates from Maharashtra) in the said subject taken together and passed in the same sitting.

- iii) And Examination recognized as equivalent thereto in each subject and with such standards of attainment as may be prescribed.
- iv) The Marks laid down by the Directorate of Technical Education, Mumbai, Government of Maharashtra from time to time.

### 3. B. Pharm lateral entry (to third semester):

A candidate in B. Pharm. degree from an institution approved by the Pharmacy Council of India under section 12 of the Pharmacy Act.

### 5. Duration of the program

The course of study for B. Pharm shall extend over a period of eight semesters (four academic years) and six semesters (three academic years) for lateral entry students. The curricula and syllabi for the program shall be prescribed from time to time by Pharmacy Council of India, New Delhi and approved by Sant Gadge Baba Ambedkar University, Awarant.

### 6. Medium of instruction and examinations

Medium of instruction and examination shall be in English.

### 7. Working days in each semester

Duration of each semester shall consist of six months or Examination with not less than 100 working days. The odd semesters shall be conducted from the month of June/July to November/December and the even semesters shall be conducted from December/January to May/June in every calendar year.

### 8. Attendance and progress

A candidate is required to put in at least 80% attendance in individual courses considering theory and practical separately. The candidate shall complete the prescribed course satisfactorily to be eligible to appear for the respective examinations.

### 9. Program/Course credit structure

As per the philosophy of Credit Based Semester System, credit equivalent of academic work viz. theory classes, tutorial hours, practical classes, etc. are assessed in terms of credits. On satisfactory completion of the courses, a candidate earns credits. The amount of credit associated with a course is dependent upon the number of hours of instruction per week in that course. Similarly, the credit associated with any of the other academic, co-curricular or extra-curricular activities is dependent upon the quantum of work expected to be put in for each of these activities per week.

#### 9.1. Credit assignment

##### 9.1.1. Theory and Laboratory courses

Courses are broadly classified as Theory and Practical. Theory courses consist of lectures (L) and tutorial (T) hours, and Practical (P) courses consist of hours spent in the laboratory. Credits (C) for a course is dependent on the number of hours of instruction per week in that course, and is obtained by using a multiplier of one (1) for lecture and tutorial hours, and a multiplier of half (1/2) for practical (laboratory) hours. Thus, for example, a theory course having three lectures and one tutorial per week throughout the semester carries a credit of 4. Similarly, a practical having four laboratory hours per week throughout semester carries a credit of 2.

##### 9.2. Minimum credit requirements

The minimum credit points required for award of a B. Pharm. degree is 208. These credits are divided into Theory courses, Tutorials, Practical, Practice School and Project over the duration of eight semesters. The credits are distributed semester-wise as shown in Table IX. Courses generally progress in sequence, building competencies and their positioning indicates certain academic maturity at the part of the learners. Learners are expected to follow the semester-wise schedule of courses given in the syllabus.

The lateral entry students shall get 52 credit points transferred from their B. Pharm. program. Such students shall take up additional remedial courses of 'Communication Skills' (Theory and Practical) and 'Computer Applications in Pharmacy' (Theory and Practical) equivalent to 3 and 4 credit points respectively, a total of 7 credit points to attain 59 credit points, the maximum of 1<sup>st</sup> and 2<sup>nd</sup> semesters.

### 10. Academic work

A regular record of attendance both in Theory and Practical shall be maintained by the teaching staff of respective courses.

### 11. Course of study

The course of study for B. Pharm shall include Semester Wise Theory & Practical as given in Table I to VIII. The number of hours to be devoted to each theory, tutorial and practical course in any semester shall not be less than that shown in Table -I to VIII.



Table-I: Course of study for semester I

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP101T	Human Anatomy and Physiology I – Theory	3	1	4
BP102T	Pharmaceutical Analysis – Theory	3	1	4
BP103T	Pharmaceutics I – Theory	3	1	4
BP104T	Pharmaceutical Inorganic Chemistry – Theory	3	1	4
BP105T	Communication skills – Theory *	2	-	2
BP106RBT	Remedial Biology/	2	-	2
BP106RMT	Remedial Mathematics – Theory*	2	-	2
BP107P	Human Anatomy and Physiology – Practical	4	-	2
BP108P	Pharmaceutical Analysis – Practical	4	-	2
BP109P	Pharmaceutics I – Practical	4	-	2
BP110P	Pharmaceutical Inorganic Chemistry – Practical	4	-	2
BP111P	Communication skills – Practical*	2	-	1
BP112RBP	Remedial Biology – Practical*	2	-	1
Total		32/34 <sup>5</sup> /36 <sup>#</sup>	4	27/29 <sup>5</sup> /30 <sup>#</sup>

<sup>#</sup>Applicable ONLY for the students who have studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology (RB)course.

<sup>5</sup>Applicable ONLY for the students who have studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics (RM) course.

\* Non University Examination (NUE)

Table-II: Course of study for semester II

Course Code	Name of the course	No. of hours	Tutorial	Credit points
BP201T	Human Anatomy and Physiology II – Theory	3	1	4
BP202T	Pharmaceutical Organic Chemistry I – Theory	3	1	4
BP203T	Biochemistry – Theory	3	1	4
BP204T	Pathophysiology – Theory	3	1	4
BP205T	Computer Applications in Pharmacy – Theory *	3	-	3
BP206T	Environmental sciences – Theory *	3	-	3
BP207P	Human Anatomy and Physiology II –Practical	4	-	2
BP208P	Pharmaceutical Organic Chemistry I– Practical	4	-	2
BP209P	Biochemistry – Practical	4	-	2
BP210P	Computer Applications in Pharmacy – Practical*	2	-	1
Total		32	4	29

\*Non University Examination (NUE)

Table-III: Course of study for semester III

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP301T	Pharmaceutical Organic Chemistry II – Theory	3	1	4
BP302T	Physical Pharmaceutics I – Theory	3	1	4
BP303T	Pharmaceutical Microbiology – Theory	3	1	4
BP304T	Pharmaceutical Engineering – Theory	3	1	4
BP305P	Pharmaceutical Organic Chemistry II – Practical	4	-	2
BP306P	Physical Pharmaceutics I – Practical	4	-	2
BP307P	Pharmaceutical Microbiology – Practical	4	-	2
BP308P	Pharmaceutical Engineering – Practical	4	-	2
Total		28	4	24

Table-IV: Course of study for semester IV

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP401T	Pharmaceutical Organic Chemistry III – Theory	3	1	4
BP402T	Medicinal Chemistry I – Theory	3	1	4
BP403T	Physical Pharmaceutics II – Theory	3	1	4
BP404T	Pharmacology I – Theory	3	1	4
BP405T	Pharmacognosy and Phytochemistry I – Theory	3	1	4
BP406P	Medicinal Chemistry I – Practical	4	-	2
BP407P	Physical Pharmaceutics II – Practical	4	-	2
BP408P	Pharmacology I – Practical	4	-	2
BP409P	Pharmacognosy and Phytochemistry I – Practical	4	-	2
Total		31	5	28

Table-V: Course of study for semester V

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP501T	Medicinal Chemistry II – Theory	3	1	4
BP502T	Industrial Pharmacy I – Theory	3	1	4
BP503T	Pharmacology II – Theory	3	1	4
BP504T	Pharmacognosy and Phytochemistry II – Theory	3	1	4
BP505T	Pharmaceutical Jurisprudence – Theory	3	1	4
BP506P	Industrial Pharmacy I – Practical	4	-	2
BP507P	Pharmacology II – Practical	4	-	2
BP508P	Pharmacognosy and Phytochemistry II – Practical	4	-	2
Total		27	5	26

Table-VI: Course of study for semester VI

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP601T	Medicinal Chemistry III – Theory	3	1	4
BP602T	Pharmacology III – Theory	3	1	4
BP603T	Herbal Drug Technology – Theory	3	1	4
BP604T	Biopharmaceutics and Pharmacokinetics – Theory	3	1	4

BP605T	Pharmaceutical Biotechnology – Theory	3	1	4
BP606T	Quality Assurance –Theory	3	1	4
BP607P	Medicinal chemistry III – Practical	4	-	2
BP608P	Pharmacology III – Practical	4	-	2
BP609P	Herbal Drug Technology – Practical	4	-	2
<b>Total</b>		<b>30</b>	<b>6</b>	<b>30</b>

**Table-VII: Course of study for semester VII**

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP701T	Instrumental Methods of Analysis – Theory	3	1	4
BP702T	Industrial PharmacyII – Theory	3	1	4
BP703T	Pharmacy Practice – Theory	3	1	4
BP704T	Novel Drug Delivery System – Theory	3	1	4
BP705P	Instrumental Methods of Analysis – Practical	4	-	2
BP706PS	Practice School*	12	-	6
<b>Total</b>		<b>28</b>	<b>4</b>	<b>24</b>

\* Non University Examination (NUE)

**Table-VIII: Course of study for semester VIII**

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP801T	Biostatistics and Research Methodology	3	1	4
BP802T	Social and Preventive Pharmacy	3	1	4
BP803ET	Pharma Marketing Management	3 + 3 = 6	1 + 1 = 2	4 + 4 = 8
BP804ET	Pharmaceutical Regulatory Science			
BP805ET	Pharmacovigilance			
BP806ET	Quality Control and Standardization of Herbals			
BP807ET	Computer Aided Drug Design			
BP808ET	Cell and Molecular Biology			
BP809ET	Cosmetic Science			
BP810ET	Experimental Pharmacology			
BP811ET	Advanced Instrumentation Techniques			
BP812ET	Dietary Supplements and Nutraceuticals			
BP813PW	Project Work	12	-	6
<b>Total</b>		<b>24</b>	<b>4</b>	<b>22</b>

**Table-IX: Semester wise credits distribution**

Semester	Credit Points
I	27/29 <sup>5</sup> /30 <sup>6</sup>
II	29
III	26
IV	28
V	26
VI	26
VII	24
VIII	22
Extracurricular/ Co curricular activities	01*
Total credit points for the program	209/211 <sup>5</sup> /212*

\* The credit points assigned for extracurricular and/or co-curricular activities shall be given by the Principals of the colleges and the same shall be submitted to the University. The criteria to allocate the credit points shall be defined by the colleges from time to time.

<sup>2</sup>Applicable ONLY for the students studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics course.

<sup>3</sup>Applicable ONLY for the students studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology course.

## 12. Program Committee

1. The B. Pharm. program shall have a Program Committee constituted by the Head of the institution in consultation with all the Heads of the departments.
2. The composition of the Program Committee shall be as follows:

A senior teacher shall be the Chairperson; One Teacher from each department handling B Pharm. courses; and four student representatives of the program (one from each academic year), nominated by the Head of the institution.

### 3. Duties of the Program Committee:

- i. Periodically reviewing the progress of the classes.
- ii. Discussing the problems concerning curriculum, syllabus and the conduct of classes.
- iii. Discussing with the course teachers on the nature and scope of assessment for the course and the same shall be announced to the students at the beginning of respective semesters.
- iv. Communicating its recommendations to the Head of the institution on academic matters.
- v. The Program Committee shall meet at least twice in a semester preferably at the end of mid-Semestrial exam (Internal Assessment) and before the end semester exam.

## 13. Examinations/Assessments

The scheme for internal assessment and end semester examinations is given in Table – X.

### 13.1. End semester examinations

The End Semester Examinations for each theory and practical course through semesters I to VIII shall be conducted by the university except for the subjects with asterix symbol (\*) in table I and II for which examinations shall be conducted by the subject experts at college level and the marks/grades shall be submitted to the university.

**Tables-X: Schemes for internal assessments and end semester examinations semester wise**

**Semester I**

Course code	Name of the course	Internal Assessment				End Semester Exams		Total
		Continuous Mode	Sessional Exams		Total	Marks	Duration	Marks
			Marks	Duration				
BP101T	Human Anatomy and Physiology I– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP102T	Pharmaceutical Analysis I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP103T	Pharmaceutics I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP104T	Pharmaceutical Inorganic Chemistry – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP105T	Communication skills – Theory *	5	10	1 Hr	15	35	1.5 Hrs	50
BP106RBT BP106RMT	Remedial Biology/ Mathematics – Theory*	5	10	1 Hr	15	35	1.5 Hrs	50
BP107P	Human Anatomy and Physiology – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP108P	Pharmaceutical Analysis I – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP109P	Pharmaceutics I – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP110P	Pharmaceutical Inorganic Chemistry – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP111P	Communication skills – Practical*	5	5	2 Hrs	10	15	2 Hrs	25
BP112RBP	Remedial Biology – Practical*	5	5	2 Hrs	10	15	2 Hrs	25
<b>Total</b>		<b>70/75<sup>§</sup>/80<sup>#</sup></b>	<b>115/125<sup>§</sup>/130<sup>#</sup></b>	<b>23/24<sup>§</sup>/26<sup>#</sup> Hrs</b>	<b>185/200<sup>§</sup>/210<sup>#</sup></b>	<b>490/525<sup>§</sup>/ 540<sup>#</sup></b>	<b>31.5/33<sup>§</sup>/ 35<sup>#</sup> Hrs</b>	<b>675/725<sup>§</sup>/ 750<sup>#</sup></b>

<sup>#</sup> Applicable ONLY for the students studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology (RB)course.

<sup>\$</sup> Applicable ONLY for the students studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics (RM)course.

\* Non University Examination (NUE)

## Semester II

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP201T	Human Anatomy and Physiology II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP202T	Pharmaceutical Organic Chemistry I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP203T	Biochemistry – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP204T	Pathophysiology – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP205T	Computer Applications in Pharmacy – Theory*	10	15	1 Hr	25	50	2 Hrs	75
BP206T	Environmental sciences – Theory*	10	15	1 Hr	25	50	2 Hrs	75
BP207P	Human Anatomy and Physiology II –Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP208P	Pharmaceutical Organic Chemistry I– Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP209P	Biochemistry – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP210P	Computer Applications in Pharmacy – Practical*	5	5	2 Hrs	10	15	2 Hrs	25
Total		80	125	20 Hrs	205	520	30 Hrs	725

\* The subject experts at college level shall conduct examinations

### Semester III

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP301T	Pharmaceutical Organic Chemistry II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP302T	PhysicalPharmaceuticsI –Theory	10	15	1 Hr	25	75	3 Hrs	100
BP303T	Pharmaceutical Microbiology – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP304T	Pharmaceutical Engineering – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP305P	Pharmaceutical Organic Chemistry II – Practical	5	10	4 Hr	15	35	4 Hrs	50
BP306P	Physical Pharmaceutics I – Practical	5	10	4 Hr	15	35	4 Hrs	50
BP307P	Pharmaceutical Microbiology – Practical	5	10	4 Hr	15	35	4 Hrs	50
BP308P	Pharmaceutical Engineering – Practical	5	10	4 Hr	15	35	4 Hrs	50
Total		60	100	20	160	440	28Hrs	600

### Semester IV

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP401T	Pharmaceutical Organic Chemistry III– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP402T	Medicinal Chemistry I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP403T	Physical Pharmaceutics II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP404T	Pharmacology I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP405T	Pharmacognosy I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP406P	Medicinal Chemistry I – Practical	5	10	4 Hr	15	35	4 Hrs	50
BP407P	Physical Pharmaceutics II – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP408P	Pharmacology I – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP409P	Pharmacognosy I – Practical	5	10	4 Hrs	15	35	4 Hrs	50
Total		70	115	21 Hrs	185	515	31 Hrs	700



### Semester V

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP501T	Medicinal Chemistry II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP502T	Industrial PharmacyI– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP503T	Pharmacology II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP504T	Pharmacognosy II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP505T	Pharmaceutical Jurisprudence – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP506P	Industrial PharmacyI– Practical	5	10	4 Hr	15	35	4 Hrs	50
BP507P	Pharmacology II – Practical	5	10	4 Hr	15	35	4 Hrs	50
BP508P	Pharmacognosy II – Practical	5	10	4 Hr	15	35	4 Hrs	50
Total		65	105	17 Hr	170	480	27 Hrs	650

## Semester VI

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP601T	Medicinal Chemistry III – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP602T	Pharmacology III – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP603T	Herbal Drug Technology – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP604T	Biopharmaceutics and Pharmacokinetics – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP605T	Pharmaceutical Biotechnology– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP606T	Quality Assurance– Theory	10	15	1 Hr	25	75	3 Hrs	100
BP607P	Medicinal chemistry III – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP608P	Pharmacology III – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP609P	Herbal Drug Technology – Practical	5	10	4 Hrs	15	35	4 Hrs	50
Total		75	120	18 Hrs	195	555	30 Hrs	750

## Semester VII

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP701T	Instrumental Methods of Analysis – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP702T	Industrial Pharmacy – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP703T	Pharmacy Practice – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP704T	Novel Drug Delivery System – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP705 P	Instrumental Methods of Analysis – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP706 PS	Practice School*	25	-	-	25	125	5 Hrs	150
Total		70	70	8Hrs	140	460	21 Hrs	600

\* The subject experts at college level shall conduct examinations

### Semester VIII

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP801T	Biostatistics and Research Methodology – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP802T	Social and Preventive Pharmacy – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP803ET	Pharmaceutical Marketing – Theory	10 + 10 = 20	15 + 15 = 30	1 + 1 = 2 Hrs	25 + 25 = 50	75 + 75 = 150	3 + 3 = 6 Hrs	100 + 100 = 200
BP804ET	Pharmaceutical Regulatory Science – Theory							
BP805ET	Pharmacovigilance – Theory							
BP806ET	Quality Control and Standardization of Herbals – Theory							
BP807ET	Computer Aided Drug Design – Theory							
BP808ET	Cell and Molecular Biology – Theory							
BP809ET	Cosmetic Science – Theory							
BP810ET	Experimental Pharmacology – Theory							
BP811ET	Advanced Instrumentation Techniques – Theory							
BP812PW	Project Work	-	-	-	-	150	4 Hrs	150

<b>Total</b>	<b>40</b>	<b>60</b>	<b>4 Hrs</b>	<b>100</b>	<b>450</b>	<b>16 Hrs</b>	<b>550</b>
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### 11.2. Internal assessment: Continuous mode

The marks allocated for Continuous mode of Internal Assessment shall be awarded as per the scheme given below.

**Table-XI: Scheme for awarding internal assessment: Continuous mode**

Theory		
Criteria	Maximum Marks	
Attendance (Refer Table – XII)	4	2
Academic activities (Average of any 3 activities e.g. quiz, assignment, open book test, field work, group discussion and seminar)	3	1.5
Student – Teacher interaction	3	1.5
<b>Total</b>	<b>10</b>	<b>5</b>
Practical		
Attendance (Refer Table – XII)	2	
Based on Practical Records, Regular viva voce, etc.	3	
<b>Total</b>	<b>5</b>	

**Table- XII: Guidelines for the allotment of marks for attendance**

Percentage of Attendance	Theory	Practical
95 – 100	4	2
90 – 94	3	1.5
85 – 89	2	1
80 – 84	1	0.5
Less than 80	0	0

#### 11.2.1. Sessional Exams

Two Sessional exams shall be conducted for each theory / practical course as per the schedule fixed by the college(s). The scheme of question paper for theory and practical Sessional examinations is given below. The average marks of two Sessional exams shall be computed for internal assessment as per the requirements given in tables – X.

Sessional exam shall be conducted for 30 marks for theory and shall be computed for 15 marks. Similarly Sessional exam for practical shall be conducted for 40 marks and shall be computed for 10 marks.

#### Question paper pattern for theory Sessional examinations

##### For subjects having University examination

I. Multiple Choice Questions (MCQs)	=	10 x 1 = 10
OR		OR
Objective Type Questions (5 x 2)	=	05 x 2 = 10
(Answer all the questions)		
I. Long Answers (Answer 1 out of 2)	=	1 x 10 = 10
II. Short Answers (Answer 2 out of 3)	=	2 x 5 = 10
		-----
Total	=	30 marks

**For subjects having Non University Examination**

I. Long Answers (Answer 1 out of 2)	=	1 x 10 = 10
II. Short Answers (Answer 4 out of 6)	=	4 x 5 = 20
		-----
Total	=	30 marks
		-----

**Question paper pattern for practical sessional examinations**

I. Synopsis	=	10
II. Experiments	=	25
III. Viva voce	=	05
		-----
Total	=	40 marks
		-----

**12. Promotion and award of grades**

A student shall be declared PASS and eligible for getting grade in a course of B.Pharm. program if he/she secures at least 50% marks in that particular course including internal assessment. For example, to be declared as PASS and to get grade, the student has to secure a minimum of 50 marks for the total of 100 including continuous mode of assessment and end semester theory examination and has to secure a minimum of 25 marks for the total 50 including internal assessment and end semester practical examination.

**13. Carry forward of marks**

In case a student fails to secure the minimum 50% in any Theory or Practical course as specified in 12, then he/she shall reappear for the end semester examination of that course. However his/her marks of the Internal Assessment shall be carried over and he/she shall be entitled for grade obtained by him/her on passing.

**14. Improvement of internal assessment**

A student shall have the opportunity to improve his/her performance only once in the Sessional exam component of the internal assessment. The re-conduct of the Sessional exam shall be completed before the commencement of next end semester theory examinations.

**15. Re-examination of end semester examinations**

Reexamination of end semester examinations shall be conducted as per the schedule given in table XIII. The exact dates of examinations shall be notified from time to time.

**Table-XIII: Tentative schedule of end semester examinations**

Semester	For Regular Candidates	For Failed Candidates
I, III, V and VII	November / December	May / June
II, IV, VI and VIII	May / June	November / December

**Question paper pattern for end semester theory examinations****For 75 marks paper**

I. Multiple Choice Questions(MCQs)	=	20 x 1	= 20
OR		OR	
Objective Type Questions (10 x 2)	=	10 x 2	= 20
(Answer all the questions)			
II. Long Answers (Answer 2 out of 3)	=	2 x 10	= 20
III. Short Answers (Answer 7 out of 9)	=	7 x 5	= 35

Total = 75 marks

**For 50 marks paper**

I. Long Answers (Answer 2 out of 3)	=	2 x 10	= 20
II. Short Answers (Answer 6 out of 8)	=	6 x 5	= 30

Total = 50 marks

**For 35 marks paper**

I. Long Answers (Answer 1 out of 2)	=	1 x 10	= 10
II. Short Answers (Answer 5 out of 7)	=	5 x 5	= 25

Total = 35 marks

**Question paper pattern for end semester practical examinations**

I. Synopsis	=	5
II. Experiments	=	25
III. Viva voce	=	5

Total = 35 marks

**16. Academic Progression:**

No student shall be admitted to any examination unless he/she fulfills the norms given in 6. Academic progression rules are applicable as follows:

A student shall be eligible to carry forward all the courses of I, II and III semesters till the IV semester examinations. However, he/she shall not be eligible to attend the courses of V semester until all the courses of I and II semesters are successfully completed.

A student shall be eligible to carry forward all the courses of III, IV and V semesters till the VI semester examinations. However, he/she shall not be eligible to attend the courses of VII semester until all the courses of I, II, III and IV semesters are successfully completed.

A student shall be eligible to carry forward all the courses of V, VI and VII semesters till the VIII semester examinations. However, he/she shall not be eligible to get the course completion certificate until all the courses of I, II, III, IV, V and VI semesters are successfully completed.

A student shall be eligible to get his/her CGPA upon successful completion of the courses of I to VIII semesters within the stipulated time period as per the norms specified in 26.

A lateral entry student shall be eligible to carry forward all the courses of III, IV and V semesters till the VI semester examinations. However, he/she shall not be eligible to attend the courses of VII semester until all the courses of III and IV semesters are successfully completed.

A lateral entry student shall be eligible to carry forward all the courses of V, VI and VII semesters till the VIII semester examinations. However, he/she shall not be eligible to get the course completion certificate until all the courses of III, IV, V and VI semesters are successfully completed.

A lateral entry student shall be eligible to get his/her CGPA upon successful completion of the courses of III to VIII semesters within the stipulated time period as per the norms specified in 26.

Any student who has given more than 4 chances for successful completion of I / III semester courses and more than 3 chances for successful completion of II / IV semester courses shall be permitted to attend V / VII semester classes ONLY during the subsequent academic year as the case may be. In simpler terms there shall NOT be any ODD BATCH for any semester.



Note: Grade AB should be considered as failed and treated as one head for deciding academic progression. Such rules are also applicable for those students who fail to register for examination(s) of any course in any semester.

## 17. Grading of performances

### 17.1. Letter grades and grade points allocations:

Based on the performances, each student shall be awarded a final letter grade at the end of the semester for each course. The letter grades and their corresponding grade points are given in Table – XII.

**Table – XII: Letter grades and grade points equivalent to Percentage of marks and performances**

Percentage of Marks Obtained	Letter Grade	Grade Point	Performance
90.00 – 100	O	10	Outstanding
80.00 – 89.99	A	9	Excellent
70.00 – 79.99	B	8	Good
60.00 – 69.99	C	7	Fair
50.00 – 59.99	D	6	Average
Less than 50	F	0	Fail
Absent	AB	0	Fail

A learner who remains absent for any end semester examination shall be assigned a letter grade of AB and a corresponding grade point of zero. He/she should reappear for the said evaluation/examination in due course.

## 18. The Semester grade point average (SGPA)

The performance of a student in a semester is indicated by a number called ‘Semester Grade Point Average’ (SGPA). The SGPA is the weighted average of the grade points obtained in all the courses by the student during the semester. For example, if a student takes five courses (Theory/Practical) in a semester with credits C<sub>1</sub>, C<sub>2</sub>, C<sub>3</sub>, C<sub>4</sub> and C<sub>5</sub> and the student’s grade points in these courses are G<sub>1</sub>, G<sub>2</sub>, G<sub>3</sub>, G<sub>4</sub> and G<sub>5</sub>, respectively, and then students’ SGPA is equal to:

$$\text{SGPA} = \frac{C_1G_1 + C_2G_2 + C_3G_3 + C_4G_4 + C_5G_5}{C_1 + C_2 + C_3 + C_4 + C_5}$$

The SGPA is calculated to two decimal points. It should be noted that, the SGPA for any semester shall take into consideration the F and AB grade awarded in that semester. For example if a learner has a F or AB grade in course 4, the SGPA shall then be computed as:

$$\text{SGPA} = \frac{C_1G_1 + C_2G_2 + C_3G_3 + C_4 \text{ ZERO} + C_5G_5}{C_1 + C_2 + C_3 + C_4 + C_5}$$

### 19. Cumulative Grade Point Average (CGPA)

The CGPA is calculated with the SGPA of all the VIII semesters to two decimal points and is indicated in final grade report card/final transcript showing the grades of all VIII semesters and their courses. The CGPA shall reflect the failed status in case of F grade(s), till the course(s) is/are passed. When the course(s) is/are passed by obtaining a pass grade on subsequent examination(s) the CGPA shall only reflect the new grade and not the fail grades earned earlier. The CGPA is calculated as:

$$\text{CGPA} = \frac{C_1S_1 + C_2S_2 + C_3S_3 + C_4S_4 + C_5S_5 + C_6S_6 + C_7S_7 + C_8S_8}{C_1 + C_2 + C_3 + C_4 + C_5 + C_6 + C_7 + C_8}$$

where  $C_1, C_2, C_3, \dots$  is the total number of credits for semester I, II, III, ..., and  $S_1, S_2, S_3, \dots$  is the SGPA of semester I, II, III, ....

### 20. Declaration of class

The class shall be awarded on the basis of CGPA as follows:

First Class with Distinction	= CGPA of 7.50 and above
First Class	= CGPA of 6.00 to 7.49
Second Class	= CGPA of 5.00 to 5.99

### 21. Project work

All the students shall undertake a project under the supervision of a teacher and submit a report. The area of the project shall directly relate any one of the elective subject opted by the student in semester VIII. The project shall be carried out in group not exceeding 5 in number. The project report shall be submitted in triplicate (typed & bound copy not less than 25 pages).

The internal and external examiner appointed by the University shall evaluate the project at the time of the Practical examinations of other semester(s). Students shall be evaluated in groups for four hours (i.e., about half an hour for a group of five students). The projects shall be evaluated as per the criteria given below.

***Evaluation of Dissertation Book:***

Objective(s) of the work done	15 Marks
Methodology adopted	20 Marks
Results and Discussions	20 Marks
Conclusions and Outcomes	20 Marks

---

<b>Total</b>	<b>75 Marks</b>
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***Evaluation of Presentation:***

Presentation of work	25 Marks
Communication skills	20 Marks
Question and answer skills	30 Marks

---

<b>Total</b>	<b>75 Marks</b>
--------------	-----------------

---

*Explanation:* The 75 marks assigned to the dissertation book shall be same for all the students in a group. However, the 75 marks assigned for presentation shall be awarded based on the performance of individual students in the given criteria.

**22. Industrial training (Desirable)**

Every candidate shall be required to work for at least 150 hours spread over four weeks in a Pharmaceutical Industry/Hospital. It includes Production unit, Quality Control department, Quality Assurance department, Analytical laboratory, Chemical manufacturing unit, Pharmaceutical R&D, Hospital (Clinical Pharmacy), Clinical Research Organization, Community Pharmacy, etc. After the Semester – VI and before the commencement of Semester – VII, and shall submit satisfactory report of such work and certificate duly signed by the authority of training organization to the head of the institute.

**23. Practice School**

In the VII semester, every candidate shall undergo practice school for a period of 150 hours evenly distributed throughout the semester. The student shall opt any one of the domains for practice school declared by the program committee from time to time.

At the end of the practice school, every student shall submit a printed report (in triplicate) on the practice school he/she attended (not more than 25 pages). Along with the exams of semester VII, the report submitted by the student, knowledge and skills acquired by the student through practice school shall be evaluated by the subject experts at college level and grade point shall be awarded.

#### **25. Award of Ranks**

Ranks and Medals shall be awarded on the basis of final CGPA. However, candidates who fail in one or more courses during the B.Pharm program shall not be eligible for award of ranks. Moreover, the candidates should have completed the B. Pharm program in minimum prescribed number of years, (four years) for the award of Ranks.

#### **26. Award of degree**

Candidates who fulfill the requirements mentioned above shall be eligible for award of degree during the ensuing convocation.

#### **27. Duration for completion of the program of study**

The duration for the completion of the program shall be fixed as double the actual duration of the program and the students have to pass within the said period, otherwise they have to get fresh Registration.

#### **\*Non University Examination**

28. After issuance of this Direction, the provisions of Direction No. 11/2013 & Direction No. 4 of 2014 shall be applicable for the failure students of B.Pharm. who have sought their admission through these Directions. There after it shall stand cancelled.

Dated : 13 /7/2017

Sd/-  
(Dr.M.G. Chandekar)  
Vice-Chancellor,  
Sant Gadge Baba Amravati University,  
Amravati

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संत गाडगे बाबा  
अमरावती विद्यापीठ, अमरावती



सहपत्रांचे पुस्तक

विद्वत् परिषद सभा

दिनांक : 6 JUN 2017

पुस्तक क्र. : 9(A) / २०१७

-92(A)-

**SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI**

BOOK OF ENCLOSURES OF  
ACADEMIC COUNCIL

## CONTENTS

BOOK NO. 9(A) OF 2017

MEETING OF ACADEMIC COUNCIL, DATED – 6 <sup>th</sup> June, 2017			
Order o pages included in this Book			
Item No. on the Agenda	Heading of the Item	Page Nos. in this Book	Remarks
43	Recommendations of various Faculties  1. Science & Technology	A-3236 A-3253 to A-3564	

Dated : 26<sup>th</sup> May, 2017

Registrar  
Sant Gadge Baba Amravati University

A-3236

**PROPOSALS REGARDING CHANGES IN SYLLABI.**

The Ad-hoc Committee resolved to recommend to Faculty, the following minor changes in the syllabi of B.Tech. (Cosmetics) Semester-I in the paper "1.5 Computer Applications" as given in following table.

Sr. No.	Reference in the Prospectus	Substitution recommended
1.	Prospectus No.20131910 B.Tech. (Cosmetics) Semester-I Paper : 1.5 Computer Applications Page Nos.24	The existing contents of Sr.No. "4. Introduction to Computer Programming" be substituted by the following contents : <b>4. Introduction to Computer Programming :</b> Elements of C : Introduction to C, History, features of C, Structure of 'C' programming, Header file in C, Character set, Keywords, identifiers, constants, variable, basic data types, symbolic constants, type of operators & expressions : Arithmetic, relational, logical assignment, increment and decrement, Precedence of Operators.



A-3253

321/C



# भारतीय भेषजी परिषद्

( भेषजी अधिनियम, 1948 के अंतर्गत स्थापित )

## PHARMACY COUNCIL OF INDIA

( CONSTITUTED UNDER THE PHARMACY ACT, 1948 )

तार Telegram : 'फार्मकाउंसिल' 'FARMCOUNCIL'  
 दूरभाष Telephone : 23239184, 23231348  
 फैक्स Fax : 011-23239184  
 ई-मेल E-Mail : pci@ndb.vsnl.net.in  
 वेबसाइट Website : www.pci.nic.in

संयुक्त परिषद्, भवन Combined Councils' Building  
 कोटला रोड Kotla Road  
 ऐवान-ए-ग़ालिब मार्ग Aiwan-E-Ghalib Marg  
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53095-55431

- All institutions running B.Pharm and M.Pharm Course
- All Examining Authorities/Universities approved by PCI u/s 12(2) of the Pharmacy Act, 1948.

Sub: Statutory Scheme/ Rules and syllabus for B.Pharm and M.Pharm Courses:

Sir/Madam

1. The Pharmacy Council of India, with the prior approval of the Central Government, has notified the following Education Regulations –

- The Bachelor of Pharmacy (B.Pharm) Course Regulations, 2014.
- The Master of Pharmacy (M.Pharm) Course Regulations, 2014.

These Regulations are also posted on the Council's website [www.pci.nic.in](http://www.pci.nic.in)

2. As per regulations 6 and 8 of the Bachelor of Pharmacy (B.Pharm) Course Regulations, 2014, the course of study for B.Pharm course and syllabus for each subject of study shall be as may be prescribed by the Pharmacy Council of India from time to time.

3. Similarly, as per regulation 10 of the Master of Pharmacy (M.Pharm) Course Regulations, 2014, the syllabus for each subject of study shall be as may be prescribed by the Pharmacy Council of India from time to time.

4. Accordingly, the Council has prescribed the –
- Scheme and syllabus for M.Pharm Course.
  - Rules and Syllabus for B.Pharm Course.

The same are available on Council's website [www.pci.nic.in](http://www.pci.nic.in)

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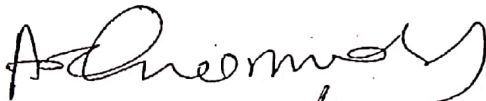


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5. The 100<sup>th</sup> Central Council of the PCI in its meeting held in November, 2016 has decided to instruct all Universities / Colleges to implement the same and submit compliance of implementation of the syllabus and regulations to PCI latest by 1st August, 2017.

In view of above, the institutions running above pharmacy courses and the examining authorities holding examination of pharmacy students are required to strictly follow the statutory provisions contained in the said Schemes/Rules for approval under sections 12(1) and 12 (2) of the Pharmacy Act, 1948. It may please be noted that further extension of approval of the pharmacy institutions u/s 12(1) and of the universities u/s 12 (2) of the said Act shall depend on the implementation of the course of study and syllabus prescribed by the PCI as mentioned above.

Yours faithfully



(ARCHANA MUDGAL)

Registrar-cum-Secretary

M.Pharm. (New Course - P.C.I.)  
(Semester-I to IV)

Prospectus No. 20181417

संत गाडगे बाबा अमरावती विद्यापीठ  
SANT GADGE BABA AMRAVATI UNIVERSITY

विज्ञान व तंत्रज्ञान विद्याशाखा  
(FACULTY OF SCIENCE & TECHNOLOGY)

अभ्यासक्रमिका

दोन वर्षीय भेपजी पारंगत पदवी परीक्षा  
सत्र - १ ते ४ परीक्षा, २०१८-२०१९

PROSPECTUS  
OF  
THE DEGREE OF MASTER OF PHARMACY  
(TWO YEARS - FOUR SEMESTER DEGREE COURSE)

SEMESTER-I & III EXAMINATIONS, WINTER-2018 &  
SEMESTER-II & IV EXAMINATIONS, SUMMER-2019



2018

Price Rs. ..../-

PUBLISHED BY  
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**INDEX**  
**Master of Pharmacy (Semester I to IV)**  
**Prospects No. 20181417**

Sr. No.	Subject	Page Nos.
1	<b>Special Note</b>	<b>1</b>
2	Direction No.28/2017	(2 -12)
	<b>SEMESTER – I PARMACEUTICS (MPH)</b>	
3	MPH - 101 T – Modern Pharmaceutical Analytical Techniques	13-14
4	MPH - 102 T – Drug Delivery Systems	15-16
5	MPH - 103 T – Modern Pharmaceutics	17-18
6	MPH - 104 T – Regulatory Affairs	19-20
7	MPH - 105 P – Pharmaceutics Practicals- I	21
	<b>SEMESTER- II</b>	
8	MPH - 201 T – Molecular Pharmaceutics (Nana-Technology & Targeted DDS (NTDS)	22
9	MPH - 202 T – Advance Bio-Pharmaceutics & Pharmacokinetics	23-25
10	MPH - 203 T – Computer Aided Drug Development	26-27
11	MPH -204 T- Cosmetics and Cosmeceuticals	28-29
12	MPH -205 P – Pharmaceutics Practical - II	30
	<b>SEMESTER –I INDUSTRIAL PHARMACY ( MIP )</b>	
14	MIP – 101 T- Modern Pharmaceutical Analytical Techniques	31-32
15	MIP- 102T –Pharmaceutical Formulation Development	33-34
16	MIP -103T- Novel Drug Delivery Systems	35-36
17	MIP -104T-Intellectual Property Right	37
18	MIP -105P-Industrial Pharmacy Practical -I	38
	<b>SEMESTER –II</b>	
19	MIP-201T-Advanced Biopharmaceutics & Pharmacokinetics	39-41
20	MIP -202T-Scale up and Technology Transfer	42-43
21	MIP-203T-Pharmaceutical Production Technology	44-45
22	MIP-204T-Entrepreneurship Management	46-47
23	MIP-205P-Industrial Pharmacy Practical-II	48
	<b>SEMESTER-I PHARMACEUTICAL CHEMISTRT ( MPC )</b>	
24	MPC-101T- Modern Pharmaceutical Analytical Techniques	49-51
25	MPC-102T-Advanced Organic Chemistry-I	52-54
26	MPC-103T-Advanced Medicinal Chemistry	55-57
27	MPC-104T-Chemistry of Natural Products	58-60
28	MPC-105P-Pharmaceutical Chemistry Practical-I	61
	<b>SEMESTER-II</b>	
29	MPC-201T-Advanced Spectral Analysis	62-63
30	MPC-202T-Advanced Organic Chemistry-II	64-66
31	MPC-203T-Computer Aided Drug Design	67-69
32	MPC-204T-Pharmaceutical Process Chemistry	70-72
33	MPC-205P-Pharmaceutical Chemistry Practical -II	73
	<b>SEMESTER – I PHARMACEUTICAL QUALITY ASSURANCE (MQA)</b>	
34	MQA- 101T – Modern Pharmaceutical Analytical Techniques	74-76
35	MQA- 102T – Quality Management System	77-79
36	MQA- 103T – Quality Control & Quality Assurance	80-82
37	MQA- 104T Product Development and Technology Transfer	83-84
38	MQA- 105P – Quality Assurance Practical- I	85
	<b>SEMESTER – II</b>	
39	MQA- 201T – Hazards and Safety Management	86-87
40	MQA- 202T – Pharmaceutical Validation	88-90
41	MQA- 203T – Aids and Regulatory compliance	91-92
42	MQA- 204T Pharmaceutical Manufacturing Technology	93-95
43	MQA- 205T – Quality Assurance Practical- II	96
	<b>SEMESTER-I PHARMACOLOGY ( MPL)</b>	
44	MPL- 101T- Modern Pharmaceutical Analytical Techniques	97-99
45	MPL- 1012T- Advance Pharmacology- I	100-102
46	MPL- 103T- Pharmacological and Toxicological Screening Methods- I	103-105
47	MPL- 104T – Cellular and Molecular Pharmacology	106-107
48	MPL- 105P – Pharmacology Practical –I	108-109
	<b>SEMESTER – II</b>	
49	MPL- 201T- Advance Pharmacology-II	110-111
50	MPL- 202T- Pharmacological and Toxicological Screening Methods- II	112-113
51	MPL- 203T- Principal of Drug Discovery	114-115

52	MPL- 204T – Clinical Research and Pharmacovigilance	116-118
53	MPL- 205P – Pharmacological Practical – II	119
	<b>SEMESTER – I PHARMACOGNOSY (MPG)</b>	
54	MPG- 101T- Modern Pharmaceutical Analytical Techniques	120-122
55	MPG- 102T- Advance Pharmacognosy – I	123-125
56	MPG- 103T- Phytochemistry	126-127
57	MPG- 104T- Industrial Pharmacognostical Technology	128-129
58	MPG- 105P- Pharmacognosy Practical- I	130
	<b>SEMESTER – II</b>	
59	MPG- 201T- Medicinal Plant Biotechnology	131-132
60	MPG- 202T- Advance Pharmacognosy – II	133-134
61	MPG- 203T- Indian System of Medicine	135-136
62	MPG- 204T- Herbal Cosmetic	137-138
63	MPG- 105P- Herbal Cosmetic Practical	139
	<b>SEMESTER – III COMMON FOR ALL SPECIALIZATION</b>	-
64	MRM301-T – Research Methodology & Biostatistics	140
65	Journal Club	-
66	Discussion/ Presentation ( Proposal Presentation)	-
67	Research work	-
	<b>SEMESTER – IV COMMON FOR SPECIALIZATION</b>	-
	Journal Club	-
	Research work	-
	Discussion/ Final Presentation	-

**SANT GADGE BABA AMRAVATI UNIVERSITY**

**SPECIAL NOTE FOR INFORMATION OF THE STUDENTS**

(1) Notwithstanding anything to the contrary, it is notified for general information and guidance of all concerned that a person, who has passed the qualifying examination and is eligible for admission only to the corresponding next higher examination as an ex-student or an external candidate, shall be examined in accordance with the syllabus of such next higher examination in force at the time of such examination in such subjects, papers or combination of papers in which students from University Departments or Colleges are to be examined by the University.

(2) Be it known to all the students desirous to take examination/s for which this prospectus has been prescribed should, if found necessary for any other information regarding examinations etc. refer the University Ordinance Book let the various conditions/provisions pertaining to examinations as prescribed in the following Ordinances-

Ordinance No. 1	:	Enrolment of Students.
Ordinance No. 2	:	Admission of Students
Ordinance No. 4	:	National Cadet Corps
Ordinance No. 6	:	Examination in General (relevant extracts)
Ordinance No. 18/2001	:	An Ordinance to provide grace marks for passing in a Head of passing and Improvement of Division (Higher Class) and getting Distinction in the subject and condonation of deficiency of marks in a subject in all the faculties prescribed by the Statute NO.18, Ordinance 2001.
Ordinance No.9	:	Conduct of Examinations (Relevant extracts)
Ordinance No.10	:	Providing for Exemptions and Compartments
Ordinance No. 19	:	Admission Candidates to Degrees
Ordinance No.109	:	Recording of a change of name of a University Student in the records of the University
Ordinance No. 6/2008	:	For Improvement of Division/Grade.
Ordinance No.19/2001	:	An Ordinance for Central Assessment Programme, Scheme of Evaluation and Moderation of answer books and preparation of results of the examinations, conducted by the University, Ordinance 2001.

Registrar  
Sant Gadge Baba Amravati University

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SANT GADGE BABA AMRAVATI UNIVERSITY

DIRECTION

NO. 28 / 2017

Dated : 13 / 07/2017

**Subject :** Examinations Leading to the Degree of भेषजी पारंगत (Master of Pharmacy) (Two year - Four Semester Degree Course) (Credit Based Semester System)(CBSS), Direction, 2017.

Whereas, Direction No.12 of 2013& Direction No. 5 of 2014 in respect of Examinations Leading to the भेषजी पारंगत (Master of Pharmacy) (Two year - Four Semester Degree Course), are in existence in the University.

AND

Whereas, Pharmacy Council of India, New Delhi has notified the Master of Pharmacy (M.Parm.) Course Regulation 2014 and prescribed the Scheme & syllabus for Master of Pharmacy courses vide letter No. date :- 14-136/2016-PCI 14-154/2015-PCI/53895-54431 dt. 21<sup>st</sup> Dec, 2016 and instructed to all University for implementation of the same and to submit compliance of implementation of Syllabus and Regulation Pharmacy Council of India

AND

Whereas, the Board of Studies in Pharmaceutical Sciences in its meeting held on 29.4.2017 has recommended the Draft schemes, Draft Syllabi and necessary provisions as given by PCI to be implemented from the academic session 2017-18.

AND

Whereas, the Vice Chancellor has accepted the recommendations of Board of Studies in Pharmaceutical Sciences and recommended to the Academic Council for its approval under section 12(7) of Maharashtra Public Universities Act, 2016 on behalf of Faculty of Science & Technology.

AND

Whereas, the Academic Council in its meeting held on 06.06.2017 vide item No.43 has approved the recommendations of the faculty of Science & Technology.

Whereas, the above Scheme and draft provisions are to be incorporated in the Ordinance/Regulation and. Syllabus for Master of Pharmacy are to be implemented from the Academic Session 2017-18.

AND

Whereas, the above Schemes and provisions are to be Regulated by framing the Ordinance/Regulation.

AND

Whereas, making Ordinance/Regulation is a time consuming process.

Now, therefore, I, Dr. Murlidhar G. Chandekar, Vice-Chancellor, Sant Gadge Baba Amravati University, Amravati in exercise of powers conferred upon me under sub-section (8) of Section 12 of the Maharashtra Public Universities Act, 2016, do hereby direct as under-

1. This Direction may be called "Examinations Leading to the Degree of भेषजी पारंगत (Master of Pharmacy) (Two year - four Semester Degree Course) (Credit Based Semester System)(CBSS.), , Direction, 2017".
2. This Direction shall come into force from the Academic Session 2017-18 for M.Pharm. Semester -I & II & onwards..

**3. Short Title and Commencement**

These regulations shall be called as "The Revised Regulations for the M. Pharm. Degree Program (CBCS) of the Pharmacy Council of India, New Delhi". They shall come into effect from the Academic Year 2017-18 (The provisions framed are subject to modifications from time to time by the authorities of the University

- A) Semester- I, For admission in first M.Pharm. candidate shall have passed not less than one academic year previously the B.Pharm examination of this university or of any other university recognised as equivalent there to and shall have prosecuted regular course of study in the department/college as prescribed in this direction.

Provided that the candidate shall have passed the final B.Pharm examination by securing not less than 50% marks or its equivalent grade point in C.G.P.A. for SC/ST category and 55% marks or its equivalent grade point in C.G.P.A. for others."

OR

The norms laid down by director of technical education Mumbai, Govt. of Maharashtra from time to time.

- B) Every student, selected for admission to post graduate pharmacy programming in any PCI approved institution should have obtained registration with the State Pharmacy Council or should obtain the same within one month from the date of his/her admission, failing which the admission of candidate shall be cancelled.

Note: It is mandatory to submit a migration certificate obtained from the respective university where the candidate had passed his/her qualifying degree (B. Pharm.)

#### 4. Duration of the program

The program of study for M. Pharm. shall extend over a period of four semesters (two academic years). The curricula and syllabi for the program shall be prescribed from time to time by Pharmacy Council of India, New Delhi.

5. There shall be four examinations leading to the Degree of **मैस्टर ऑफ फार्मसी** (Master of Pharmacy) namely the first semester examination at the end of first semester, second semester examination at the end of second semester, third semester examination at the end of third semester and Final semester examination at the end of fourth semester.

The duration of each semester shall be of six months.

- A) The Master of Pharmacy First, Third Semester Examination shall be held in winter, and the Second and Fourth semester examination in summer at such places and on such dates as may be fixed by the Board of Examinations. Subject to the compliance with the provisions of this Direction and of other ordinances in force from time to time.
- B) The Final M.Pharm. (Semester-III & IV) Examinee shall have satisfactorily completed 1st and 2nd Semester i.e. the First M.Pharm. Examination of this university, and shall have prosecuted a regular course of study in the Department/College as prescribed in this Direction. An applicant for the examination to the Final M.Pharm. (Semester-III & IV) shall not be allowed to take the examination if he/she fails to submit his/her dissertation on or before the 20th December or 31st May of the calendar year in which he/she has to take the examination.

#### 6. Medium of instruction and examinations

Medium of instruction and examination shall be in English.

#### 7. Working days in each semester

Each semester shall consist of not less than 100 working days. The odd semesters shall be conducted from the month of June/July to November/December and the even semesters shall be conducted from the month of December/January to May/June in every calendar year.

#### 8. Attendance and progress

A candidate is required to put in at least 80% attendance in individual courses considering theory and practical separately. The candidate shall complete the prescribed course satisfactorily to be eligible to appear for the respective examinations.

#### 9. Program/Course credit structure

As per the philosophy of Credit Based Semester System, certain quantum of academic work viz. theory classes, practical classes, seminars, assignments, etc. are measured in terms of credits. On satisfactory completion of the courses, a candidate earns credits. The amount of credit associated with a course is dependent upon the number of hours of instruction per week in that course. Similarly the credit associated with any of the other academic, co/extra-curricular activities is dependent upon the quantum of work expected to be put in for each of these activities per week/per activity.

##### 9.1. Credit assignment

##### 9.1.1. Theory and Laboratory courses

Courses are broadly classified as Theory and Practical Theory courses consist of lecture (L) and Practical (P) course consist of hour spent in the laboratory. Credits(C) for a course is dependent on the number of hours of instruction per week in that course, and is obtained by using a multiplier of one (1) for lecture and a multiplier of half(1/2) for practical(laboratory) hours. Thus, for example, a theory course having four lectures per week throughout the semester carries a credit of 4. Similarly, a practical having four laboratory hours per week throughout semester carries a credit of 2.

The contact hours of seminars assignments and research work shall be treated as that of practical courses for the purpose of calculating credits. i.e., the contact hour shall be multiplied by 1/2. Similarly, the contact hours of journal Club, research work presentations and discussions with the supervisor shall be consider as theory course and multiplied by 1.

##### 9.2. Minimum credit requirements

The minimum credit points required for the award of M. Pharm. degree is 95. However based on the credit points earned by the students under the head of co-curricular activities, a student shall earn a maximum of 100 credit points. These credits are divided in to Theory courses, Practical, Seminars, Assignments, Research work, Discussions with the supervisor, Journal club and Co-Curricular activities over the duration of four semesters. The credits are distributed semester-wise as shown in Table 14. Courses generally progress in sequence, building competencies and their positioning indicates certain academic maturity on the part of the learners. Learners are expected to follow the semester-wises schedule of courses given in the syllabus.

#### 10. Academic work

A regular record of attendance both in Theory ,Practical, Seminar ,Assignment, Journal club, Discussion with the supervisor, Research work presentation and Dissertation shall be maintained by the department/teaching staff of respective courses.



# 11. Course of study

The specializations in M. Pharm program is given in Table 1.

Table – 1: List of M.Pharm. Specializations and their Code

S. No.	Specialization	Code
1.	Pharmaceutics	MPH
2.	Industrial Pharmacy	MIP
3.	Pharmaceutical Chemistry	MPC
4.	Quality Assurance	MQA
5.	Pharmacology	MPL
6.	Pharmacognosy	MPG

The course of study for M. Pharm specializations shall include Semester wise Theory & Practical as given in Table – 2 to 07. The number of hours to be devoted to each theory and practical course in any semester shall not be less than that shown in Table-2 to 07.

## Appendix-A Scheme of Teaching for M. Pharm. Course.

Table-2: Course of Study for M. Pharm. (Pharmaceutics)

Course Code	Course	Credit hours	Credit Points	Hrs/w k	Marks
<b>Semester-I</b>					
MPH101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPH102T	Drug Delivery System	4	4	4	100
MPH103T	Modern Pharmaceutics	4	4	4	100
MPH104T	Regulatory Affair	4	4	4	100
MPH105P	Pharmaceutics Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
<b>Total</b>		<b>35</b>	<b>26</b>	<b>35</b>	<b>650</b>
<b>Semester-II</b>					
MPH201T	Molecular Pharmaceutics (Nano Tech and Targeted DDS)	4	4	4	100
MPH202T	Advanced Biopharmaceutics & Pharmacokinetics	4	4	4	100
MPH203T	Computer Aided Drug Delivery System	4	4	4	100
MPH204T	Cosmetics and Cosmeceuticals	4	4	4	100
MPH205P	Pharmaceutics Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
<b>Total</b>		<b>35</b>	<b>26</b>	<b>35</b>	<b>650</b>

Table-3: Course of Study for M. Pharm. (Industrial Pharmacy)

Course Code	Course	Credit hours	Credit Points	Hrs/w k	Marks
<b>Semester-I</b>					
MIP101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MIP102T	Pharmaceutical Formulation Development	4	4	4	100
MIP103T	Novel Drug Delivery System	4	4	4	100
MIP104T	Intellectual Property Rights	4	4	4	100
MIP105P	Industrial Pharmacy Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
<b>Total</b>		<b>35</b>	<b>26</b>	<b>35</b>	<b>650</b>
<b>Semester-II</b>					
MIP201T	Advanced Biopharmaceutics and Pharmacokinetics	4	4	4	100
MIP202T	Scale up and Technology Transfer	4	4	4	100
MIP203T	Pharmaceutical Production Technology	4	4	4	100
MIP204T	Entrepreneurship Management	4	4	4	100
MIP205P	Industrial Pharmacy Practical II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
<b>Total</b>		<b>35</b>	<b>26</b>	<b>35</b>	<b>650</b>

Table-4: Course of Study for M. Pharm. (Pharmaceutical Chemistry)

Course Code	Course	Credit hours	Credit Points	Hrs/w k	Marks
<b>Semester-I</b>					
MPC101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPC102T	Advanced Organic Chemistry-I	4	4	4	100
MPC103T	Advanced Medicinal Chemistry	4	4	4	100
MPC104T	Chemistry of Natural Products	4	4	4	100
MPC105P	Pharmaceutical Chemistry Practical I	12	6	12	150
-	Seminar/Assignment	7	4	7	100
<b>Total</b>		<b>35</b>	<b>26</b>	<b>35</b>	<b>650</b>
<b>Semester-II</b>					
MPC201T	Advanced Spectral Analysis	4	4	4	100
MPC202T	Advanced Organic Chemistry-II	4	4	4	100
MPC203T	Computer Aided Drug Design	4	4	4	100
MPC204T	Pharmaceutical Process Chemistry	4	4	4	100
MPC205P	Pharmaceutical Chemistry Practical - II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
<b>Total</b>		<b>35</b>	<b>26</b>	<b>35</b>	<b>650</b>

Table-5: Course of Study for M. Pharm. (Quality Assurance)

Course Code	Course	Credit hours	Credit Points	Hrs/wk	Marks
	<b>Semester-I</b>				
MQA101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MQA102T	Quality Management System	4	4	4	100
MQA103T	Quality Control & Quality Assurance	4	4	4	100
MQA104T	Product Development and Technology Transfer	12	6	12	150
MQA105P	Pharmaceutical Quality Assurance Practical - I	7	4	7	100
-	Seminar/Assignment				
	<b>Total</b>	<b>35</b>	<b>26</b>	<b>35</b>	<b>650</b>
	<b>Semester-II</b>				
MQA201T	Hazardous and Safety Management	4	4	4	100
MQA202T	Pharmaceutical Validation	4	4	4	100
MQA203T	Advis and Regulatory Compliance	4	4	4	100
MQA204T	Pharmaceutical Manufacturing Technology	12	6	12	150
MQA205P	Pharmaceutical Quality Assurance Practical - II	7	4	7	100
-	Seminar/Assignment				
	<b>Total</b>	<b>35</b>	<b>26</b>	<b>35</b>	<b>650</b>

Table-6: Course of Study for M. Pharm. (Pharmacology)

Course Code	Course	Credit hours	Credit Points	Hrs/wk	Marks
	<b>Semester-I</b>				
MPL101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPL102T	Advance Pharmacology - I	4	4	4	100
MPL103T	Pharmacological and Toxicological Screening Methods - I	4	4	4	100
MPL104T	Cellular and Molecular Pharmacology	12	6	12	150
MPL105P	Pharmacology Practical - I	7	4	7	100
-	Seminar/Assignment				
	<b>Total</b>	<b>35</b>	<b>26</b>	<b>35</b>	<b>650</b>
	<b>Semester-II</b>				
MPL201T	Advance Pharmacology - II	4	4	4	100
MPL202T	Pharmacological and Toxicological Screening Methods - II	4	4	4	100
MPL203T	Principles of Drug Discovery	4	4	4	100
MPL204T	Experimental Pharmacology Practical - II	12	6	12	150
MPL205P	Pharmacology Practical - II	7	4	7	100
-	Seminar/Assignment				
	<b>Total</b>	<b>35</b>	<b>26</b>	<b>35</b>	<b>650</b>

Table-7: Course of Study for M. Pharm. Pharmacognosy)

Course Code	Course	Credit hours	Credit Points	Hrs/wk	Marks
	<b>Semester-I</b>				
MPG101T	Modern Pharmaceutical Analytical Techniques	4	4	4	100
MPG102T	Advanced Pharmacognosy - I	4	4	4	100
MPG103T	Phytochemistry	4	4	4	100
MPG104T	Industrial Pharmacognosy Technology	12	6	12	150
MPG105P	Pharmacognosy Practical - I	7	4	7	100
-	Seminar/Assignment				
	<b>Total</b>	<b>35</b>	<b>26</b>	<b>35</b>	<b>650</b>
	<b>Semester-II</b>				
MPG201T	Medical Plant Biotechnology	4	4	4	100
MPG202T	Advanced Pharmacognosy - II	4	4	4	100
MPG203T	Indian System of Medicine	4	4	4	100
MPG204T	Herbal Cosmetics	4	4	4	100
MPG205P	Pharmacognosy Practical - II	12	6	12	150
-	Seminar/Assignment	7	4	7	100
	<b>Total</b>	<b>35</b>	<b>26</b>	<b>35</b>	<b>650</b>

Table-8: Course of Study for M. Pharm. III Semester  
(Common for all Specializations)

Course Code	Course	Credit Hours	Credit Points
MRM301T	Research Methodology and Biostatistics*	4	4
-	Journal Club	1	1
-	Discussion / Presentation (Proposal Presentation)	2	2
-	Research Work	28	14
	<b>Total</b>	<b>35</b>	<b>21</b>

\* - Non University Exam.

Table-9: Course of Study for M. Pharm. IV Semester  
(Common for all Specializations)

-	Journal Club	1	1
-	Research Work	31	16
-	Discussion / Final Presentation	3	3
	<b>Total</b>	<b>35</b>	<b>20</b>



Table-10: Semester wise Credit Distribution

Semester	Credit Points
I	26
II	26
III	21
IV	20
Co-curricular Activities (Attending Conference, Scientific Presentations and Other Scholarly Activities)	Maximum 07*
Total Credit Points	Maximum=100*

\* - Credit Points for Co-curricular Activities.

Table-11: Guidelines for Awarding Credit Points for Co-curricular Activities

Name of the Activity	Maximum Credit Points Eligible / Activity
Participation in National Level Seminar/Conference/Workshop/Symposium/ Training Programs (related to the specialization of the student)	01
Participation in international Level Seminar/Conference/Workshop/Symposium/ Training Programs (related to the specialization of the student)	02
Academic Award/Research Award from State Level/National Agencies	01
Academic Award/Research Award from International Agencies	02
Research / Review Publication in National Journals (Indexed in Scopus / Web of Science)	01
Research / Review Publication in International Journals (Indexed in Scopus / Web of Science)	02

Note : International Conference: Held Outside India

International Journal: The Editorial Board Outside India \*The credit points assigned for extracurricular and or co-curricular activities shall be given by the Principals of the colleges and the same shall be submitted to the University .The criteria to acquire this credit point shall be defined by the colleges from time to time.

## 12. Program Committee

- The M. Pharm. programme shall have Programme a Committee constituted by the Head of the institution in consultation with all the Heads of the departments.
- The composition of the Programme Committee shall be as follows:  
A teacher at the cadre of Professor shall be the Chairperson; One Teacher from each M.Pharm specialization and four student representatives (two from each academic year), nominated by the Head of the institution.

### 3) Duties of the Programme Committee :

- Periodically reviewing the progress of the classes.
- Discussing the problems concerning curriculum, syllabus and the conduct of classes.
- Discussing with the course teachers on the nature and scope of assessment for the course and the same shall be announced to the students at the beginning of respective semesters.
- Communicating its recommendation to the Head of the institution academic matters.
- The Programme Committee shall meet at least twice in a semester preferably at the end of each sectional exam and before the end semester exam.

## 13. Examinations/Assessments

The schemes for internal assessment and end semester examinations are given in Table-11.

### 13.1. End semester examinations

The End Semester Examinations for each theory and practical course through semesters I to IV shall be conducted by the respective university.

### 13.2. Internal assessment: Continuous mode

The marks allocated for Continuous mode of Internal Assessment shall be awarded as per the scheme given below.

Table-12: Scheme for awarding internal assessment Continuous mode

Theory	
Criteria	Maximum Marks
Attendance (Refer Table - 28)	08
Student – Teacher interaction	02
Total	10
Practical	
Attendance (Refer Table - 28)	10
Based on Practical Records, Regular Viva voce, etc	10
Total	20

Table-13: Guidelines for the allotment of marks for attendance

Percentage of Attendance	Theory	Practical
95 -100	8	10
90-94	6	7.5
85-89	4	5
80-84	2	2.5
Less than 80	0	0

**13.2.1 Sessional Exams**

Two Sessional Exams shall be conducted for each theory and on sessional exam for practical course as per the schedule fixed by the college (S). The Scheme of question paper for theory and practical sessional examinations is given in the table. The average marks of two sessional exams in theory come shall be computed for internal assessment as per the requirement given in table.

**14. Promotion and Award of Grades**

A student shall be declared PASS and eligible for getting grade in a course of M. Pharm. Programme if he/she secures at least 50% Marks. in that particular course including internal assessment.

**15. Carry forwarded of marks.**

In case a student's fails to secure the minimum 50% in any theory or practical course as specified in 12, then he/she shall reappear for the end semester examinations of that course. However his/her marks of the internal assessment shall be carried over and he/she shall be entitled for grade obtained by him/her on passing.

**16. Improvement of internal assessment**

A student shall have the opportunity to improve his/her performance only ones in the sessional exam component of the internal assessment. The re-conduct of the sessional exam shall be completed before the commencement of next end semester theory examinations.

17. An applicant for the examination to the final M. Pharm. (Semester. III & IV) shall not be allowed to take the examination if he/she fails to submit his/her dissertation on or before the 20<sup>th</sup> December on 31<sup>st</sup> May of the calendar year in which he/she has to take the examination

**18. Re-examination of end semester examination**

Re-examination of end semester examination shall be conducted as per the schedule given in table No. 29. The exact date of examinations shall be notified from time to time.

**Table No. 14 : Tentative schedule of end semester examination**

Semester	For Regular Candidates	For Failed Candidates
I and III	November/December	May/June
II and IV	May/June	November/December

**19. Allowed to keep terms ( ATKT ) :**

No student shall be admitted to any examinations unless he/she fulfils the norms given in 6. ATKT rules are applicable as follows.

A students shall be eligible to carry forward all the course of I and II semester till the III Semester examinations. However he/she shall not be eligible to attend the course of IV Semester until all the courses of I, II and III semester are successfully completed.

A student shall be eligible to get his/her CGPA upon successful completion of the course of I to IV semester within the stipulated time period as per the norms.

Note: Grade AB should be considered as failed and treated as one head for deciding ATKT. Such rules are also applicable for those students who fail to register for examination(s) of any course in any semester.

**20. Grading of performances****20.1. Letter grades and grade points allocations**

Based on the performance, each student shall be awarded a final letter grade at the end of the semester for each course. The letter grades and there corresponding grade points are given in Table- 30.



**Table – 15: Letter grades and grade points equivalent to percentage of marks and performances**

Percentage of Marks Obtained	Letter Grade	Grade Point	Performance
90.00-100	O	10	Outstanding
80.00-89.99	A	9	Excellent
70.00-79.99	B	8	Good
60.00-69.99	C	7	Fair
50.00-59.99	D	6	Average
Less than 50	F	0	Fail
Absent	AB	0	Fail

A learner who remains absent for any end semester examination shall be assigned a letter grade of A B and a corresponding grade point of zero. He/she should reappear for the said evaluation/examination in due course.

### 21. The semester grade point (SGPA)

The performance of a student in a semester is indicated by a number called semester grade point average (SGPA). The SGPA is the weighted average the grade points obtaining all the course by the student during the semester. For example, if a student take five courses (Theory/ Practical) in a semester with credit C1,C2,C3 and C4 and students grade points in these courses are G1,G2,G3 and G4 respectively, and then students SGPA in equal to:

$$SGPA = \frac{C1G1+C2G2+C3G3+C4G4}{C1+C2+C3+C4}$$

The SGPA is calculated to two decimal points it should be noted that, the SGPA for any semester shall take into consideration the F and ABS grade awarded in that semester. For example if a learner has a F or ABS grade in course 4, the SGPA shall then be computed as:

$$SGPA = \frac{C1G1+C2G2+C3G3+C4* ZERO}{C1+C2+C3+C4}$$

### 22. Cumulative Grade Point Average (CGPA)

The CGPA is calculated with the SGPA of all the IV semester to two decimal points and is indicated in final grade report card/final transcript showing the grade of all IV semesters and there courses. The CGPA shall reflect the failed statusion case of F grade (S), till the course (S) is/are passed. When the course (S) is/are passed by obtaining a passed grade on subsequent examinations (S) the CGPA shall only reflect the new grade and not the fail grade earned earlier. The CGPA is calculated as :

$$SGPA = \frac{C1S1+C2S2+C3S3+C4S4}{C1+C2+C3+C4}$$

Where C1,C2,C3,... is the total number of credits for semester I, II, III,... and S1,S2,S3... is the SGPA of semester I,II,III, ...

### 23. Declaration of Class

The Class shall be awarded on the basis of CGPA as follows :

First Class with Distinction	=	CGPA of 7.50 and above
First Class	=	CGPA of 6.00 to 7.49
Second Class	=	CGPA of 5.00 to 5.99

### 24. Project Work

All the students shall undertake a project under the supervision of a teacher in semester III to IV and submit a report. 4 copies of the project report shall be submitted (Typed & bound copy not less than 75 pages).

The internal and external examiner appointed by the university shall evaluate the project at the time of the practical examinations of other semester (S). The project shall be evaluated as per the criteria given below.

**Evaluation of Dissertation Books:**

Objective (S) of the work done	50 Marks
Methodology adopted	150 Marks
Results and discussions	250 Marks
Conclusion and outcomes	50 Marks

-----  
Total 500 Marks

**Evaluation of presentation**

Presentation of work	100 Marks
Communication Skills	50 Marks
Question and answer Skill	100 Marks

-----  
Total 250 Marks.

**25. Award of Ranks**

Ranks and Medal shall be awarded on the basis of final CGPA. However candidates who fail in one or more courses during the M. Pharma program shall not be eligible for award of ranks. Moreover, the candidates should have completed the M. Pharm program in minimum prescribed number of year, ( two years) for the award of Ranks.

**26. Award of Degree**

Candidates who fulfill the requirements mentioned above shall be eligible for award of degree during the ensuing convocation.

**27. Duration for completion of the program of study**

The duration for the completion of the program shall be fixed as double the actual duration of the program and the student have to pass within the said period; otherwise they have to gate fresh registration.

**28. Re- admission after break of study**

Candidate who seeks re-admission to the program after break of study has to get the approval from the university by paying a condo nation fee.

**29. Schemes of Examinations for M. Pharm. Semester-I to IV  
(All Specializations)**

**Table-16 : Schemes for internal assessment and end semester  
(Pharmaceutics-MPHI)**

Course Code	Name of the Course	Internal Assessment			End Semester Exams.		
		Continuous Mode	Sessional Exams.		Total	Marks	Duration
1	2	3	4	5	6	7	8
	<b>Semester-I</b>						
MPHI01T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs
MPHI02T	Drug Delivery System	10	15	1 Hr	25	75	3 Hrs
MPHI03T	Modern Pharmaceutics	10	15	1 Hr	25	75	3 Hrs
MPHI04T	Regulatory Affair	10	15	1 Hr	25	75	3 Hrs
MPHI05P	Pharmaceutics Practical I	20	30	6 Hrs	50	100	6 Hrs
-	Seminar/Assignment	-	-	-	-	-	-
	<b>Total</b>						
	<b>Semester-II</b>						
MPHI201T	Molecular Pharmaceutics (Nano Tech and Targeted DDS)	10	15	1 Hr	25	75	3 Hrs
MPHI202T	Advanced Biopharmaceutics and Pharmacokinetics	10	15	1 Hr	25	75	3 Hrs
MPHI203T	Computer Aided Drug Delivery System	10	15	1 Hr	25	75	3 Hrs
MPHI204T	Cosmetic & Cosmeceuticals	10	15	1 Hr	25	75	3 Hrs
MPHI205P	Pharmaceutics Practical II	20	30	6 Hrs	50	100	6 Hrs
-	Seminar/Assignment	-	-	-	-	-	-
	<b>Total</b>						



**Table-17 : Schemes for internal assessment and end semester  
(Industrial Pharmacy - MIP)**

Syllabus for internal assessment and end semester (Industrial Pharmacy - MIP)								
Course Code	Name of the Course	Internal Assessment			End Semester Exams.		Total Marks	
		Continuous Mode	Sessional Exams.		Total	Marks		Duration
			Marks	Duration				
1	2	3	4	5	6	7	8	9
MIP101T	<b>Semester-I</b> Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MIP102T	Pharmaceutical Development Formulation	10	15	1 Hr	25	75	3 Hrs	100
MIP103T	Novel Drug Delivery System	10	15	1 Hr	25	75	3 Hrs	100
MIP104T	Intellectual Property Rights	10	15	1 Hr	25	75	3 Hrs	100
MIP105P	Industrial Pharmacy Practical I	10	15	1 Hr	25	75	3 Hrs	100
-	Seminar/Assignment	20	30	6 Hrs	50	100	6 Hrs	150
-	-	-	-	-	-	-	-	100
-	<b>Semester-II</b>	-	-	-	-	-	-	100
MIP201T	Advanced Biopharmaceutics and Pharmacokinetics	10	15	1 Hr	25	75	3 Hrs	100
MIP202T	Scale up and Technology Transfer	10	15	1 Hr	25	75	3 Hrs	100
MIP203T	Pharmaceutical Production Technology	10	15	1 Hr	25	75	3 Hrs	100
MIP204T	Entrepreneurship Management	10	15	1 Hr	25	75	3 Hrs	100
MIP205P	Industrial Pharmacy Practical II	10	15	1 Hr	25	75	3 Hrs	100
-	Seminar/Assignment	20	30	6 Hrs	50	100	6 Hrs	150
-	-	-	-	-	-	-	-	100
-	<b>Total</b>	-	-	-	-	-	-	650

**Schemes of Examinations for M.Pharm. Semester-I to IV (All Specializations)**

**Table-18 : Schemes for internal assessment and end semester  
(Pharmaceutical Chemistry - MPC)**

Course Code	Name of the Course	Internal Assessment				End Semester Exams.		Total Marks
		Continuous Mode	Sessional Exams.		Total	Marks	Duration	
			Marks	Duration				
1	2	3	4	5	6	7	8	9
	<b>Semester-I</b>							
MPC101T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
MPC102T	Advanced Organic Chemistry-I	10	15	1 Hr	25	75	3 Hrs	100
MPC103T	Advanced Medicinal Chemistry	10	15	1 Hr	25	75	3 Hrs	100
MPC104T	Chemistry of Natural Products	10	15	1 Hr	25	75	3 Hrs	100
MPC105P	Pharmaceutical Chemistry Practical I	20	30	6 Hrs	50	100	6 Hrs	150
	Seminar/Assignment							100
							<b>Total</b>	650
	<b>Semester-II</b>							
MPC201T	Advanced Special Analysis	10	15	1 Hr	25	75	3 Hrs	100
MPC202T	Advanced Organic Chemistry-II	10	15	1 Hr	25	75	3 Hrs	100
MPC203T	Computer Aided Drug Design	10	15	1 Hr	25	75	3 Hrs	100
MPC204T	Pharmaceutical Process Chemistry	10	15	1 Hr	25	75	3 Hrs	100
MPC205P	Pharmaceutical Chemistry Practical II	20	30	6 Hrs	50	100	6 Hrs	150
	Seminar/Assignment	-	-	-	-	-	-	100
							<b>Total</b>	650

**Table-19 : Schemes for internal assessment and end semester  
(Pharmaceutical Quality Assurance - MQA)**

Course Code	Name of the Course	Internal Assessment				End Semester Exams.		Total Marks
		Continuous Mode	Sessional Exams.		Total	Marks	Duration	
			Marks	Duration				
	2	3	4	5	6	7	8	9
	<b>Semester-I</b>							
QA101T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs	100
QA102T	Quality Management System	10	15	1 Hr	25	75	3 Hrs	100
QA103T	Quality Control and Quality Assurance	10	15	1 Hr	25	75	3 Hrs	100
QA104T	Product Development and Technology Transfer	10	15	1 Hr	25	75	3 Hrs	100
QA105P	Pharmaceutical Quality Assurance Practical I	20	30	6 Hrs	50	100	6 Hrs	150
	Seminar/Assignment	-	-	-	-	-	-	100
							<b>Total</b>	<b>650</b>
	<b>Semester-II</b>							
QA201T	Hazards and Safety Management	10	15	1 Hr	25	75	3 Hrs	100
QA202T	Pharmaceutical Validation	10	15	1 Hr	25	75	3 Hrs	100
QA203T	Audits and Regulatory Compliance	10	15	1 Hr	25	75	3 Hrs	100
QA204T	Pharmaceutical Manufacturing Technology	10	15	1 Hr	25	75	3 Hrs	100
QA205P	Pharmaceutical Quality Assurance Practical II	20	30	6 Hrs	50	100	6 Hrs	150
	Seminar/Assignment	-	-	-	-	-	-	100
							<b>Total</b>	<b>650</b>



**Table-20 : Schemes for internal assessment and end semester  
(Pharmacology - MPL)**

Course Code	Name of the Course	Internal Assessment				End Semester Exams.	
		Continuous Mode	Sessional Exams.		Total	Marks	Duration
			Marks	Duration			
1	2	3	4	5	6	7	8
	<b>Semester-I</b>						
MPL101T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs
MPL102T	Advanced Pharmacology-I	10	15	1 Hr	25	75	3 Hrs
MPL103T	Pharmacological and Toxicological Screening Methods-I	10	15	1 Hr	25	75	3 Hrs
MPL104T	Cellular and Molecular Pharmacology	10	15	1 Hr	25	75	3 Hrs
MPL105P	Experimental Pharmacology - I	20	30	6 Hrs	50	100	6 Hrs
-	Seminar/Assignment	-	-	-	-	-	-
	<b>Total</b>						
	<b>Semester-II</b>						
MPL201T	Advanced Pharmacology-II	10	15	1 Hr	25	75	3 Hrs
MPL202T	Pharmacological and Toxicological Screening Methods-II	10	15	1 Hr	25	75	3 Hrs
MPL203T	Principles of Drug Discovery	10	15	1 Hr	25	75	3 Hrs
MPL204T	Clinical Research and pharmacovigilance	10	15	1 Hr	25	75	3 Hrs
MPL205P	Experimental Pharmacology Practical II	20	30	6 Hrs	50	100	6 Hrs
-	Seminar/Assignment	-	-	-	-	-	-
	<b>Total</b>						

**Table-21 : Schemes for internal assessment and end semester  
(Pharmacognocny - MPG)**

Course Code	Name of the Course	Internal Assessment				End Semester Exams.	
		Continuous Mode	Sessional Exams.		Total	Marks	Duration
			Marks	Duration			
1	2	3	4	5	6	7	8
	<b>Semester-I</b>						
MPG101T	Modern Pharmaceutical Analytical Techniques	10	15	1 Hr	25	75	3 Hrs
MPG102T	Advanced Pharmacognocny-I	10	15	1 Hr	25	75	3 Hrs
MPG103T	Phytochemistry	10	15	1 Hr	25	75	3 Hrs
MPG104T	Industrial Pharmacognostical Technology	10	15	1 Hr	25	75	3 Hrs
MPG105P	Pharmacognocny Practical I	20	30	6 Hrs	50	100	6 Hrs
-	Seminar/Assignment						
	<b>Total</b>						
	<b>Semester-II</b>						
MPG201T	Medical Plant Biotechnology	10	15	1 Hr	25	75	3 Hrs
MPG202T	Advanced Pharmacognocny-II	10	15	1 Hr	25	75	3 Hrs
MPG203T	Indian System of Medicine	10	15	1 Hr	25	75	3 Hrs
MPG204T	Herbal Cosmetics	10	15	1 Hr	25	75	3 Hrs
MPG205P	Pharmacognocny Practical II	20	30	6 Hrs	50	100	6 Hrs
-	Seminar/Assignment						
	<b>Total</b>						



Table-22 : Schemes for internal assessment and end semester examination (Semester III-IV)

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
SEMESTER III								
MRM301T	Research Methodology and Biostatistics*	10	15	1Hrs	25	75	3Hrs	100
-	Journal club	-	-	-	25	-	-	25
-	Discussion/Presentation ( Proposal Presentation)	-	-	-	75	-	-	75
	Research Work	-	-	-	100			100
Total								300
SEMESTER IV								
	Journal club				25	-	-	25
	Discussion/Presentation ( Proposal Presentation)	-	-	-	75	-	-	75
	Research Work and Colloquium	-	-	-	100	200	1Hrs	300
Total								400

\*Non University Examination

30. After issuance of this Direction, the provisions of Direction No. 12/2013 & Direction No. 5 of 2014 shall be applicable for the failure students of M. Pharm. who have sought their admission through these Directions. There after it shall stand cancelled.

Sd/-  
(Dr.M.G. Chandekar)  
Vice-Chancellor,  
Sant Gadge Baba Amravati University,Amravati

Dated : 13 /7/2017

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