

**Sant Gadge Baba Amravati University**  
**Scheme of Teaching and Examination as per Semester Pattern for MPHARM in PHARMACEUTICS (MPH)**

Semester	Paper code	Title of paper	Scheme of Teaching in Hrs. per Week		Scheme of Examination		Scheme of External Examination				Total Marks (Credits)	
			Lecture	Practical	Theory	Practical	Theory	Marks	Minimum Marks (credits) for Passing			
									Hrs.	Marks		Theory
Semester-I	MC-101	Research Methodology & Biostatistics	04	--	30	--	03	70	--	50 (2)	--	100 (4)
	MC -102	Biotechnology and Bioinformatics	04	--	30	--	03	70	--	50 (2)	--	100 (4)
	MC -103	Quality Control of Pharmaceutical Products	04	--	30	--	03	70	--	50 (2)	--	100 (4)
	MC -104	Drug Regulatory Affairs	04	--	30	--	03	70	--	50 (2)	--	100 (4)
	MC-105	Product Development and Formulation	04	--	30	--	03	70	--	50 (2)	--	100 (4)
	MC -106	Laboratory course -1	--	08		40			60	--	50 (2)	100 (4)
	MC -107	Seminar (2 per each subject)										50 (2)
Semester-II	MPH-201	Novel Drug Delivery Systems	04	--	30	--	03	70	--	50 (2)	--	100 (4)
	MPH-202	Biopharmaceutics & Pharmacokinetics	04	--	30	--	03	70	--	50 (2)	--	100 (4)
	MPH-203	Industrial Pharmacy	04	--	30	--	03	70	--	50 (2)	--	100 (4)
	MPH-204	Advanced Pharmaceutics & Cosmetology	04	--	30	--	03	70	--	50 (2)	--	100 (4)
	MPH-205	Selected Topics in Pharmaceutics	04	--	30	--	03	70	--	50 (2)	--	100 (4)
	MPH-206	Laboratory Course -2	--	08		40			60	--	50 (2)	100 (4)
	MPH-207	Seminar ( 2 per each subject)										50(2)
Semester-III	MPH-301	Seminar on Research envisaged for dissertation										100(4)
	MPH-302	Seminar on recent trends in Pharmaceutical sciences										150(6)
Semester-IV	MPH-401	Dissertation										250 (8)
	MPH-402	Seminar (on dissertation)										100(4)
	MPH-403	Viva-voce										100(4)
<b>GRAND TOTAL</b>											<b>2000 (80)</b>	

MPH – M.Pharm. in Pharmaceutics

MC- M.Pharm. Common Paper

**Sant Gadge Baba Amravati University**  
**Scheme of Teaching and Examination as per Semester Pattern for M.PHARM in PHARMACOLOGY (MPL)**

Semester	Paper code	Title of paper	Scheme of Teaching in Hrs. per Week		Scheme of Examination		Scheme of External Examination				Total Marks (Credits)		
			Lecture	Practical	Theory	Practical	Theory	Marks	Hrs	Practical		Minimum Marks (credits) for Passing	
Semester-I	MC-101	Research Methodology & Biostatistics	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)
	MC -102	Biotechnology and Bioinformatics	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)
	MC -103	Quality Control of Pharmaceutical Products	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)
	MC -104	Drug Regulatory Affairs	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)
	MC-105	Product Development and Formulation	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)
	MC -106	Laboratory course - I	--	08	--	40	--	--	60	--	--	50 (2)	100 (4)
	MC -107	Seminar (2 per each subject)	*Evaluation of seminar shall be based on the communication, representation and skill in oral presentation										50 (2)
Semester-II	MPL-201	Advanced Pharmacology and toxicology	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)
	MPL-202	Advanced Clinical Pharmacokinetics	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)
	MPL-203	Topics in Pharmacology	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)
	MPL-204	Biological evaluation Techniques	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)
	MPL-205	Receptor in Pharmacology	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)
	MPL-206	Laboratory Course -2	--	08	--	40	--	--	60	--	--	50 (2)	100 (4)
	MPL-207	Seminar ( 2 per each subject)	*Evaluation of seminar shall be based on the communication, representation and skill in oral presentation										50(2)
Semester-III	MPL-301	Seminar on Research envisaged for dissertation											100(4)
	MPL-302	Seminar on recent trends in Pharmaceutical sciences											150(6)
Semester-IV	MPL-401	Dissertation											250 (8)
	MPL-402	Seminar (on dissertation)											100(4)
	MPL-403	Viva-voce											100(4)
GRAND TOTAL											2000 (80)		

MPL – M.Pharm. in Pharmacology

MC- M.Pharm. Common Paper

**Sant Gadge Baba Amravati University**  
**Scheme of Teaching and Examination as per Semester Pattern for M.PHARM in PHARMACEUTICAL CHEMISTRY (MPC)**

Semester	Paper code	Title of paper	Scheme of Teaching in Examination		Scheme of External Examination		Total Marks (Credits)	
			Lecture	Practical	Theory	Practical		Theory
Semester-I	MC-101	Research Methodology & Biostatistics	04	--	03	70	--	100 (4)
	MC -102	Biotechnology and Bioinformatics	04	--	03	70	--	100 (4)
	MC -103	Quality Control of Pharmaceutical Products	04	--	03	70	--	100 (4)
	MC -104	Drug Regulatory Affairs	04	--	03	70	--	100 (4)
	MC-105	Product Development and Formulation	04	--	03	70	--	100 (4)
	MC -106	Laboratory course -1	--	08		60	12	100 (4)
	MC -107	Seminar (2 per each subject)	*Evaluation of seminar shall be based on the communication, representation and skill in oral presentation					50 (2)
Semester-II	MPC-201	Advanced Organic chemistry	04	--	03	70	--	100 (4)
	MPC-202	Advanced Medicinal chemistry	04	--	03	70	--	100 (4)
	MPC-203	Modern Analytical Techniques	04	--	03	70	--	100 (4)
	MPC-204	Rational Drug Design	04	--	03	70	--	100 (4)
	MPC-205	Chemistry of Natural Product	04	--	03	70	--	100 (4)
	MPC-206	Laboratory Course -2	--	08		60	12	100 (4)
	MPC-207	Seminar ( 2 per each subject)	*Evaluation of seminar shall be based on the communication, representation and skill in oral presentation					50(2)
Semester-III	MPC-301	Seminar on Research envisaged for dissertation						100(4)
	MPC-302	Seminar on recent trends in Pharmaceutical sciences						150(6)
Semester-IV	MPC-401	Dissertation						250 (8)
	MPC-402	Seminar (on dissertation)						100(4)
	MPC-403	Viva-voce						100(4)
<b>GRAND TOTAL</b>								<b>2000 (80)</b>

MPC – M.Pharm. in Pharmaceutical Chemistry  
MC- M.Pharm. Common Paper

**Sant Gadge Baba Amravati University**  
**Scheme of Teaching and Examination as per Semester Pattern for M.PHARM in PHARMACOGNOSY (MPG)**

Semester	Paper code	Title of paper	Scheme of Teaching in Hrs. per Week		Scheme of Examination		Scheme of External Examination				Total Marks (Credits)			
			Lecture	Practical	Theory	Practical	Theory Hrs.	Marks	Practical Hrs.	Marks		Minimum Marks (credits) for Passing Theory	Practical	
Semester-I	MC-101	Research Methodology & Biostatistics	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)	
	MC -102	Biotechnology and Bioinformatics	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)	
	MC -103	Quality Control of Pharmaceutical Products	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)	
	MC -104	Drug Regulatory Affairs	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)	
	MC-105	Product Development and Formulation	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)	
	MC -106	Laboratory course -1	--	08		40			12	60	--	50 (2)		100 (4)
	MC -107	Seminar (2 per each subject)	*Evaluation of seminar shall be based on the communication, representation and skill in oral presentation										50 (2)	
Semester-II	MPG-201	Phytotherapeutic Materials	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)	
	MPG-202	Herbal Drug Technology	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)	
	MPG-203	Cultivation of Medicinal Plants	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)	
	MPG-204	Biogenesis and Chemistry of Natural Products	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)	
	MPG-205	Selected Topics in Pharmacognosy	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)	
	MPG-206	Laboratory Course -2	--	08		40			12	60	--	50 (2)		100 (4)
	MPG-207	Seminar ( 2 per each subject)	*Evaluation of seminar shall be based on the communication, representation and skill in oral presentation										50(2)	
Semester-III	MPG-301	Seminar on Research envisaged for dissertation											100(4)	
	MPG-302	Seminar on recent trends in Pharmaceutical sciences											150(6)	
Semester-IV	MPG-401	Dissertation											250 (8)	
	MPG-402	Seminar (on dissertation)											100(4)	
	MPG-403	Viva-voce											100(4)	
GRAND TOTAL											2000 (80)			

MPG – M.Pharm. in Pharmacognosy

MC- M.Pharm. Common Paper

**Sant Gadge Baba Amravati University**  
**Scheme of Teaching and Examination as per Semester Pattern for M.PHARM in Industrial Pharmacy (MIP)**

Semester	Paper code	Title of paper	Scheme of Teaching in Hrs. per Week		Scheme of Examination		Scheme of External Examination				Total Marks (Credits)			
			Lecture	Practical	Theory	Practical	Theory Hrs.	Marks	Practical Hrs	Marks		Minimum Marks (credits) for Passing Theory	Practical	
Semester-I	MC-101	Research Methodology & Biostatistics	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)	
	MC -102	Biotechnology and Bioinformatics	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)	
	MC -103	Quality Control of Pharmaceutical Products	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)	
	MC -104	Drug Regulatory Affairs	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)	
	MC-105	Product Development and Formulation	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)	
	MC -106	Laboratory course - I	--	08		40			12	60	--	50 (2)		100 (4)
	MC -107	Seminar (2 per each subject)	*Evaluation of seminar shall be based on the communication, representation and skill in oral presentation										50 (2)	
Semester-II	MIP-201	Advanced Industrial Pharmacy-I	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)	
	MIP-202	Advanced Industrial Pharmacy-II	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)	
	MIP-203	Pharmaceutical Process Validations and Product Management	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)	
	MIP-204	Selected Topics in Industrial Pharmacy-I	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)	
	MIP-205	Selected Topics in Industrial Pharmacy-II	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)	
	MIP-206	Laboratory Course -2	--	08		40			12	60	--	50 (2)		100 (4)
	MIP-207	Seminar (2 per each subject)	*Evaluation of seminar shall be based on the communication, representation and skill in oral presentation										50(2)	
Semester-III	MIP-301	Seminar on Research envisaged for dissertation											100(4)	
	MIP-302	Seminar on recent trends in Pharmaceutical sciences											150(6)	
Semester-IV	MIP-401	Dissertation											250 (8)	
	MIP-402	Seminar (on dissertation)											100(4)	
	MIP-403	Viva-voce											100(4)	
GRAND TOTAL											2000 (80)			

MIP – M.Pharm. in Industrial Pharmacy

MC- M.Pharm. Common Paper

**Sant Gadge Baba Amravati University**  
**Scheme of Teaching and Examination as per Semester Pattern for M.PHARM in Quality Assurance (MQA)**

Semester	Paper code	Title of paper	Scheme of Teaching in Hrs. per Week		Scheme of Examination		Scheme of External Examination				Total Marks (Credits)		
			Lecture	Practical	Theory	Practical	Theory Hrs.	Marks	Practical Hrs	Marks		Minimum Marks (credits) for Passing Theory	Practical
Semester-I	MC-101	Research Methodology & Biostatistics	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)
	MC -102	Biotechnology and Bioinformatics	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)
	MC -103	Quality Control of Pharmaceutical Products	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)
	MC -104	Drug Regulatory Affairs	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)
	MC-105	Product Development and Formulation	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)
	MC -106	Laboratory course -1	--	08		40			12	60	--	50 (2)	100 (4)
	MC -107	Seminar (2 per each subject)	*Evaluation of seminar shall be based on the communication, representation and skill in oral presentation										50 (2)
Semester-II	MQA-201	Quality Assurance Technique	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)
	MQA-202	Biological evaluation and standardization	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)
	MQA-203	Advanced Analytical Technique	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)
	MQA-204	Packaging technology	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)
	MQA-205	Selected topics in Quality assurance	04	--	30	--	03	70	--	--	50 (2)	--	100 (4)
	MQA-206	Laboratory Course -2	--	08		40			12	60	--	50 (2)	100 (4)
	MQA-207	Seminar ( 2 per each subject)	*Evaluation of seminar shall be based on the communication, representation and skill in oral presentation										50(2)
Semester-III	MQA-301	Seminar on Research envisaged for dissertation											100(4)
	MQA-302	Seminar on recent trends in Pharmaceutical sciences											150(6)
Semester-IV	MQA-401	Dissertation											250 (8)
	MQA-402	Seminar (on dissertation)											100(4)
	MQA-403	Viva-voce											100(4)
GRAND TOTAL											2000 (80)		

MQA – M.Pharm. in Quality Assurance

MC- M.Pharm. Common Paper

## SCHEME FOR MARK DISTRIBUTION OF SEMESTER III &amp; IV

## SEMESTER-III

The topic for the **research envisage for dissertation and seminar on recent trends in Pharmaceutical science** shall be assigned to him/her by the Guide within one month from the date of the commencement of the third semester.

## A. SEMINAR ON RESEARCH ENVISAGED FOR DISSERTATION

Contents	Marks	Credits
1. Selection of research topic and their applicability	25	01
2. Introduction and information retrieval systems	25	01
3. Reading research papers	25	01
4. Skill in oral presentation	25	01
<b>Total</b>	<b>100</b>	<b>04</b>

## B. SEMINAR ON RECENT TRENDS IN PHARMACEUTICAL SCIENCES

Contents	Marks	Credits
1. Introduction and information retrieval systems	25	01
2. Organization of material and references	25	01
3. Representation	25	01
4. Skill in oral presentation	25	01
5. Questioning and defending	25	01
6. Report	25	01
<b>Total</b>	<b>150</b>	<b>06</b>

\*The report shall be submitted to the respective guide/Head of Department/ Library/University

## SEMESTER - IV

## A. Dissertation Work

Contents	Marks	Credit
1. Introduction, information retrieval systems	25	01
2. Experimental Work	100	04
3. Scientific Contents	25	01
4. Result/ Conclusion	50	02
5. Organization of scientific material, thesis, dissertation and references	50	02
<b>Total</b>	<b>250</b>	<b>09</b>

## B. Seminar

Contents	Marks	Credit
1. Representation	50	02
2. Skill in oral presentation	50	02
<b>Total</b>	<b>100</b>	<b>04</b>

## C. Viva-Voce

Contents	Marks	Credit
1. Reading research papers and depth of knowledge on work topic	25	01
2. Discussion	50	02
3. Report	25	01
<b>Total</b>	<b>100</b>	<b>04</b>

Sant Gadge Baba Amravati University, Amravati  
M. 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

- Master’s degree would be of 80 credits each.
- One credit course of theory will be of one clock hour per week running for 12 weeks.
- Two credit course of theory will be of two clock hours per week running for 12 weeks.
- Four-credit course of theory will be of four clock hours per week running for 12 weeks.
- One credit course of practicals will consist of 4 hours of laboratory exercise for 6 weeks.
- Two credit courses of practicals will consist of 4 hours of laboratory exercise for 12 weeks.
- Four credit course of practical will consist of 8 hours of laboratory exercise for 12 weeks.

FIRST TWO SEMESTERS SHALL HAVE 5 THEORY COURSES, 1 PRACTICAL COURSE AND 1 SEMINAR

- 5 Theory courses x 4 credits = 20 credits
- 1 Laboratory courses x 4 credits = 04 credits
- 1 Seminar x 2 credit = 02 credit
- Total = 26 credits

EVERY STUDENT SHALL COMPLETE 80 CREDITS IN A MINIMUM OF FOUR SEMESTERS. FIRST TWO SEMESTERS WILL HAVE 26 CREDITS EACH, THIRD SEMESTER WILL BE OF 10 CREDITS AND FOURTH SEMESTER WILL BE OF 18 CREDITS.

- Two semesters 2x 26 credits = 52 credits
- Third semester 1x 10 = 10 credits
- Forth semester 1x 18 = 18 credits
- Four semesters total credits = 80 credits

SCHEME OF SYLLABUS AND CREDIT SYSTEM

The syllabus for the first semester is common to all M. Pharm. Specialization Courses which consist of total five theory paper and one laboratory course including seminar (2 per each subject).

- Two credits, one each in first two semesters, have been allocated for seminar. There shall be at least two seminars per theory paper. Marks out of 50 will be allotted.
- Six credits, in third semester have been allocated for recent trends in the pharmaceutical sciences.
- Total Eight credits have been allocated for the seminar on dissertation. Out of which 4 credits are given for the seminar on research envisaged for dissertation in third semester and 4 credits are for the seminar on completed research work for dissertation prior to thesis submission in fourth semester.
- Ten credits have been allocated for the dissertation work.
- Four credits each have been allocated for the Viva-voce on dissertation.
- One credit = 25 marks; two credits = 50 marks and four credits = 100 marks.
- **Four credits (theory) = 100 marks**



- **Four credits (Practicals) = 100 marks**



