



**2.6.2 CO-PO Attainment for M Pharmacy program**

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## Steps Involved in CO-PO Attainment Process

**Step 1:** Establish Pos and PEOs of the Program

**Step 2:** Develop Course Outcomes for each course

**Step 3:** Defining relation between COs and POs for each course to obtain overall CO mapping with each Pos.

**Step 4:** Computation and construction of overall CO attainment matrix for each course using course assessment tools.

**Step 5:** Calculation and construction of direct PO attainment matrix using overall CO-PO mapping matrix and overall CO attainment matrix.

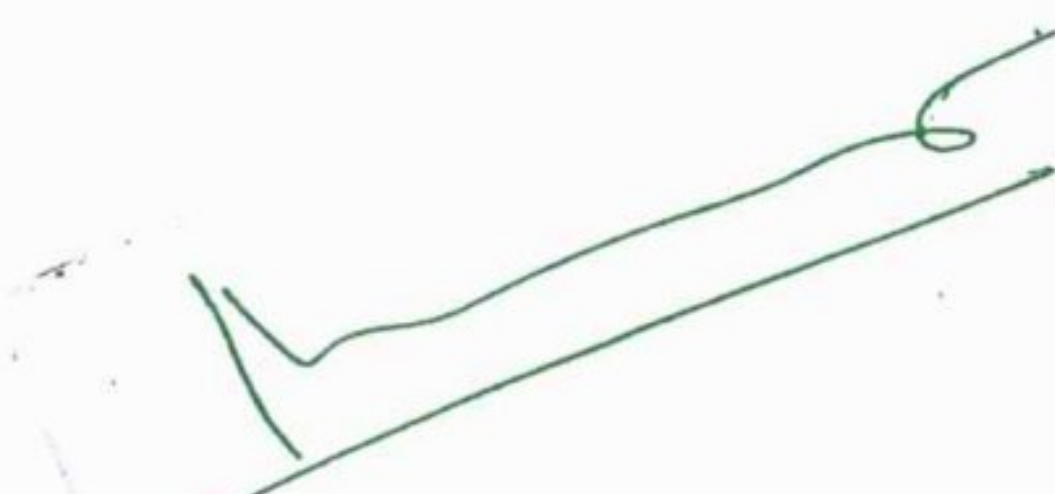
**Step 6:** calculation of overall direct PO attainment

**Step 7:** calculation of overall indirect PO attainment

**Step 8:** Computation of overall direct PO attainment

**Step 9:** Comparison of target level and obtained PO attainment



  
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## Course Outcomes (CO) and CO-PO/PSO mapping

Course Outcomes are the statements which describe the student should be able to do at the end of a course. The most important aspect of a CO is that it should be observable and measurable.

### CO-PO/PSO Mapping

It creates link between the Course Outcomes (CO) and program outcomes(PO), Program specific Outcomes (PSO) for each unit and assessment is called CO-PO/PSO Mapping. After CO statements are developed by the course coordinator, CO will map with any possible POs or PSO based on the relationship exist between them. But the POs are not necessarily mapped with any one CO and it may be left blank.

### Levels of CO-PO/PSO mapping:

It indicates to what extent a certain component (either assessment method to CO or CO to PO or PO to PEO & PSO.

3 indicates substantial (high) mapping (high contribution towards attainment)

2 indicates moderate (medium) mapping (medium contribution towards attainment)

1 indicates slight (low) mapping (some contribution towards attainment)

- indicates No mapping (No contribution towards attainment)

For B Pharmacy program, 8 semesters are designed according to PCI and University curriculum For each semester, B Pharm HOD consolidates the COs of the respective semester and maintains the documentation of the CO-PO/PSO mapping

### CO-PO/PSO mapping for B pharmacy subjects of PCI (R14) regulation

Year&Semester	Number of Theory subjects	Number of Practical Subjects	Other Subjects
I-I	4	2	-
I-II	4	2	-
II-I	1	-	Project Work
II-II	Project Work		
<b>Total</b>	<b>41</b>	<b>25</b>	<b>01</b>

CO statement and CO-PO/PSO mapping for each M pharm course is listed below:



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## CO Assesment and Attainment Process:

Direct attainment of Cos is determined from the performance of students in Semester Internal Examination (SIE) and Semester External Examination (SEE). The proportional weightages of SIE:SEE set in the ratio 40:60 for both University and Non University examinations.

### Co Assesment for University Examinations


**Internal Assesment**

**External Assesment**

### Co Assesment for Non- University Examinations

**Internal Assesment External Assesment**



  
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- For each theory course, there are two internal examinations and the division of Cos is listed below:

Theory Course	Units	Co described
I Mid Examination - I	Unit -I	CO1
	Unit -II	CO2
	Unit -III(Half)	CO2
Mid Examination -II	Unit -III(Half)	CO3
	Unit -IV	CO3
	Unit -V	CO4

- For each practical course , there are two internal examinations and the division of Cos is listed as below.

Practical Course	CO described
Mid Examination -I	CO1
	CO2
Mid Examination -II	CO3
	CO4



  
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- Course assesment process starts with the marks secured by the students from internal and external examination. The CO attainment levels are measured based on the results of the average of the internal examinations and semester end examination conducted by the university or the college.
- The finalized CO-PO articulation matrix was taken and set Attainment level (Target) for each course. The Target will be fixed by considering the class average marks obtained in semester examination of previous batch or analyzing the nature of the course by distinguishing whether it belongs to Analytical / Theory / Problematic course or Targets are approximately given into certain levels.
- If a course is newly introduced in the curriculum, then the Target will be fixed as 60% by the concern faculty handling the course. Each CO is assessed with the tools chosen by the course coordinators. Each tool will repeat the scores secured by the individual student and the attainment level for each CO is calculated by measuring the percentage of students scored equal or more than the Target fixed for that course.
- **For measuring the attainments of COs of a theory or practical course, the targets for the attainment are fixed as indicated below:**

Course	Target
<b>Theory Internal Examinations</b>	
Subjective (20 M)	75% of maximum marks (15 marks out of 20)
Objective (10M)	75% of maximum marks (7.5 marks out of 10)
Continuous Mode (10M)	75% of maximum marks (7.5 marks out of 10)
<b>Practical Internal Examinations</b>	
Lab Internal Exam	75% of maximum marks (7.5 marks out of 10)
Continuous Mode (5M)	75% of maximum marks (3.75 marks out of 5)
<b>External Examination</b>	
Both Theory and Lab Courses	Grade weightage (10) obtained subject to a minimum of 60%
Project	75% of maximum marks (112.5 marks out of 150)

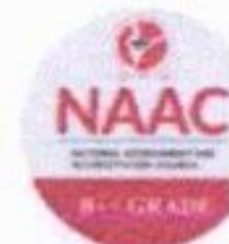


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- The attainment levels are set as given below

Attainment Level	Theory Subjects	Practical Subjects
Level 1	0-69 % of students scored the set attainment level	0-69 % of students scored the set attainment level
Level 2	70-79 % of students scored the set attainment level	70-79 % of students scored the set attainment level
Level 3	$\geq 80$ % of students scored the set attainment level	$\geq 80$ % of students scored the set attainment level

- As per the regulation PCI, the normalization percentage will be considered for measuring the final attainment of each COs of a course. For theory courses 25% of internal and 85% of External assesment will be calculated. For Laboratory courses 40% of internal and 60% of External assesmentwil be calculated.
- The CO attainment for the course will be calculated by taking the average of all CO's final attainment value. If the Final Attainment of the course outcomes are equal to the target, then all the course outcomes are attained. If a course failed to attain the set attainment target, then action to be taken for continuous improvement will be suggested by the course handling faculty.

### PO/PSO Assesment and Attainment process:

Program outcomes are narrower statements that describe what students are expected to be able to do by the time of graduation. POs are expected to be aligned closely with Graduate Attributes. Programme Specific Outcomes are what the students should be able to do at the time of graduation with reference to a specific discipline.



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## Direct Method:

Once the overall attainment percentage of each COs is calculated, the PO and PSO attainment is calculated by taking the cumulative average of all the course's CO attainment which contributes to the specific Program Outcomes. The overall CO attainment values are calculated for all the direct assesment tools. For Theory and practical courses,


$$\text{Overall CO attainment} = 0.25 * \text{Internal Exams attainment} + 0.75 * \text{External Exams attainments}$$

## Indirect method:

**Indirect methods** such as surveys and interviews ask the stakeholders to reflect on student learning. They assess opinions or thoughts about the graduate's knowledge or skills and their valued contributions to different stakeholders. An indirect assessment is used to measure certain implicit qualities of student learning, such as values, perceptions and attitudes from variety of perspectives. The stakeholders include students, alumni, faculty, employers and parents.

$$\text{Indirect PO Attainment} = 80\% \text{ of program Exit Feedback} + 10\% \text{ of Alumni Feedback} + 10\% \text{ Employer Feedback}$$



  
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## Overall Attainment of PO

**Overall PO attainment=80% of Direct PO Attainment + 20% of Indirect PO Attainment**

- The obtained values will be compared with the set attainment target fixed for each PO and PSO. If the target is achieved, then the same process will be continued for further batches. If the target is not achieved, then continuous improvement action will be taken for each PO and PSO.
- Continuous improvement action includes Action to be taken for improving the teaching learning process based on the attainment gap or by improving learning facilities or organizing programs to fill the attainment gap.



  
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**Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the Institution are Stated and displayed on website and attainment of Pos and Cos are evaluated**

**PO 1 Pharmaceutical Sciences knowledge:** Apply the knowledge of mathematics, science, pharmaceutical fundamentals, and a Pharmacy specialization to the solution of complex Pharmaceutical problems.

**PO 2 Physicochemical properties of Formulations:** The knowledge of importance of physical properties of the different pharmaceutical ingredients and the factors influencing them is very valuable for pharmaceutical dosage form design.

**PO 3 Unit Operations:** Pharm. Engineering renders knowledge about the basic unit operations that are taking place in pharmaceutical industry and the different factors associated with it. This information is useful for both pharmaceutics and pharmaceutical engineering.

**PO 4 Entrepreneurship:** The knowledge on different pharmaceutical dosage forms are imparted on students. This knowledge comes while handling a pharmacy or a manufacturing unit or in the further courses.

**PO 5 Design/Development of solutions:** The information on solid dosage forms like tablets and capsules, their formulation and qualitycontrol serves as an important perquisite for dosage form design.

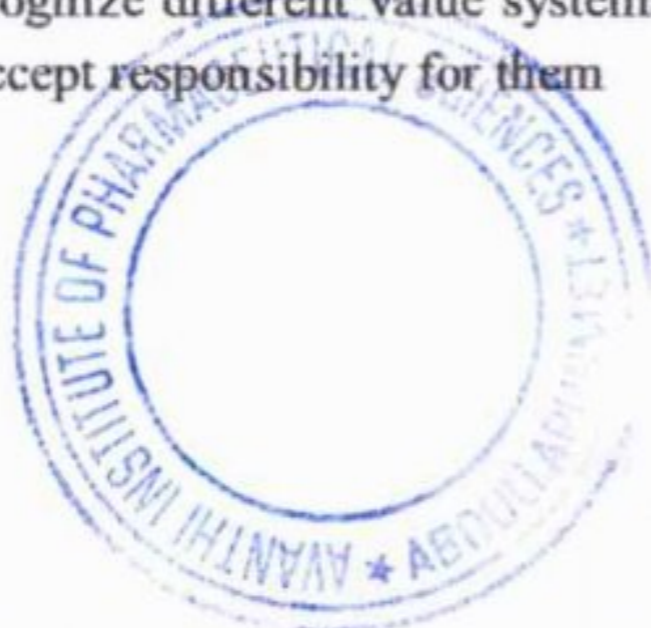
**PO 6 Application oriented Knowledge:** The knowledge of biopharmaceutics enables the students to visualize the effect of pharmacokinetic (ADMET) parameters on the biological effect of the drug. The correlation of pharmacokinetics and pharmacodynamics is thus introduced and is experimentally explained to them.

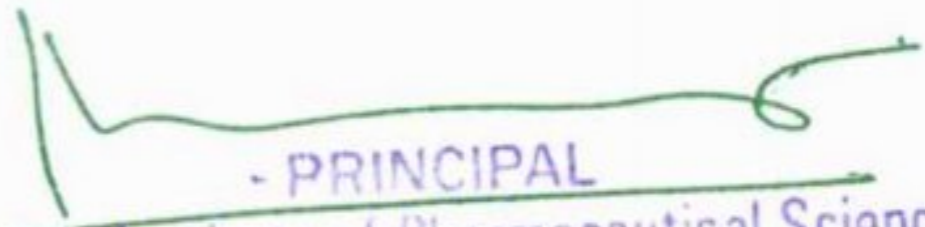
**PO 7 Environment and Sustainability:** Enable extension of pharmaceutical dosage forms, and enables the students to learn about different packaging materials used in pharmaceutical industry and the factors governing their use.

**PO 8 Conduct investigations of complex problems:** To understand biopharmaceutical principles and pharmacokinetic principles through different compartment models, multiple dosage regimens, non-linear pharmacokinetics, and assessment of bioavailability and bioequivalence

**PO9 Effective Citizenship:** Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

**PO10 Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them



  
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**PSO1:** Impart knowledge on the novel drug delivery systems, approaches, criteria for selection of polymers and drugs and their formulation and evaluation

**PSO2:** To impart knowledge and skills in generic drug development, various regulatory filings the approval process, and concept of generics across the globe



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**M PHARM I&II SEM COURSE OUTCOMES FOR THE ACADEMIC YEAR 2022-23**

**PHARMACEUTICS**

S.NO	YEAR/SEM	COURSE NAME	COURSE OUTCOMES
1.	I-I	<b>APPLIED BIOPHARMACEUTICS AND PHARMACOKINETICS</b>	<p><b>CO1:</b> Biopharmaceutics and pharmacokinetics and their significance.</p> <p><b>CO2:</b> Use plasma drug concentration-time data to calculate the pharmacokinetic parameters to describe the kinetics of drug absorption, distribution, metabolism, excretion, and elimination.</p> <p><b>CO3:</b> To understand the bioavailability and bioequivalence of drug products and their significance.</p> <p><b>CO4:</b> Develop entrepreneurship skills that support the growth of the Pharmaceutical Industry</p>
2.	I-I	<b>MODERN PHARMACEUTICS</b>	<p><b>CO1:</b> Knowledge on pre formulation concepts and optimization techniques</p> <p><b>CO2:</b> Knowledge on pharmaceutical validation</p> <p><b>CO3:</b> Knowledge on cGMP &amp; Industrial Management</p> <p><b>CO4:</b> Knowledge on compression and compaction Knowledge on compression and compaction</p>
3.	I-I	<b>ADVANCED PHYSICAL PHARMACEUTICS</b>	<p><b>CO1:</b> The students will know particle size analysis method, solid dispersion, physics of tablets, polymer classification and its applications</p> <p><b>CO2:</b> student will also know the stability calculations, shelf life calculations and accelerated stability studies.</p> <p><b>CO3:</b> They also know the rheology, absorption related to liquids and semi-solid dosage forms.</p> <p><b>CO4:</b> They also know the factors affecting the dissolution and solubility in related to</p>



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			invitro/invivo correlations
4	I-I	PHARMACEUTICAL VALIDATION	CO1: Explain the aspect of validation
			CO2: Carryout validation of manufacturing processes
			CO3: Apply the knowledge of validation to instruments and equipments
5.	I-I	RESEARCH METHODOLOGY AND IPR	CO1: Understand research problem formulation.
			CO2: Analyze research related information.
			CO2: Follow research ethics
			CO4: Understand that today's world is controlled by Computer, Information Technology, but tomorrow world will be ruled by ideas, concept, and creativity.

S.NO	YEAR/SEM	COURSE NAME	COURSE OUTOMES
1.	I-II	MODERN PHARMACEUTICS - II	CO1: students will understand the planning of pilot plant techniques used for all pharmaceutical dosage forms such as tablets, capsules, parenterals, aerosols, cosmetics and nutraceuticals
2.	I-II	ADVANCED DRUG DELIVERY SYSTEMS	CO1: Students will select the drugs for CDDS design of the formulation fabrication of systems of above drug delivery systems with relevant applications.
3.	I-II	HERBAL COSMETICS	CO1: Students will learn about the raw materials used in herbal cosmetics and get exposed to various preparations of herbal cosmetics.
4	I-II	NUTRACEUTICALS	CO1: Helps the student to understand the importance of Nutraceuticals in various common problems with the concept of free radicals



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S.NO	YEAR/SEM	COURSE NAME	COURSE OUTCOMES
1.	II-I	SCALE UP AND TECHNOLOGY TRANSFER	CO1: Manage the scale up process in pharmaceutical industry.
			CO2: Assist in technology transfer.
			CO3: To establish safety guidelines, which prevent industrial hazards.
2.	II-I	COSMETIC SCIENCE	CO1: Formulate and evaluate various cosmeceutical product.
			CO2: Know the key components used in different cosmeceutical products.
			CO3: Recognize the role of ingredients and herbs used in cosmeceutical products.



  
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**ANALYSIS**

S.NO	YEAR/SEM	COURSE NAME	COURSE OUTOMES
1.	I-I	<b>MODERN PHARMACEUTICAL ANALYSIS</b>	CO1: The quantitative determination of various organic compounds is clearly understood. The spectral analysis, dissolution parameters and microbial assays are also learned.
2.	I-I	<b>PHARMACEUTICAL FOOD ANALYSIS</b>	CO1: Pharmaceutical food analysis.
			CO2: Food additives.
			CO3: Pesticides in food Pharmaceuticals (API & Dosage forms).
			CO4: Also student shall have the knowledge on food regulations and legislations.
3.	I-I	<b>ADVANCED PHARMACEUTICAL ANALYSIS</b>	CO1: The quantitative determination of various organic compounds is clearly understood. The spectral analysis, dissolution parameters and microbial assays are also learned.
4.	I-I	<b>PHARMACEUTICAL VALIDATION</b>	CO1: Explain the aspect of validation
			CO2: Carryout validation of manufacturing processes
			CO3: Apply the knowledge of validation to instruments and equipments
5.	I-I	<b>RESEARCH METHODOLOGY AND IPR</b>	CO1: Understand research problem formulation.
			CO2: Analyze research related information.
			CO2: Follow research ethics
			CO4: Understand that today's world is controlled by Computer, Information Technology, but tomorrow world will be ruled by ideas, concept, and creativity.



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S.NO	YEAR/SEM	COURSE NAME	COURSE OUTOMES
1.	I-II	<b>ADVANCED INSTRUMENTAL ANALYSIS – I</b>	CO1: students will come out with the thorough knowledge of various spectral aspects of X-Ray, IR, SEM, ORD etc which help them in further projects works and also industrial opportunities.
2.	I-II	<b>PHARMACEUTICAL QUALITY CONTROL AND QUALITY ASSURANCE</b>	CO1: study of this subject builds the confidence in the minds on the students to develop and formulate high quality pharmaceutical products
3.	I-II	<b>HERBAL COSMETICS</b>	CO1: Students will learn about the raw materials used in herbal cosmetics and get exposed to various preparations of herbal cosmetics.
4.	I-II	<b>NUTRACEUTICALS</b>	CO1: Helps the student to understand the importance of Nutraceuticals in various common problems with the concept of free radicals

S.NO	YEAR/SEM	COURSE NAME	COURSE OUTOMES
1.	II-I	<b>SCALE UP AND TECHNOLOGY TRANSFER</b>	CO1: Manage the scale up process in pharmaceutical industry.
			CO2: Assist in technology transfer.
			CO3: To establish safety guidelines, which prevent industrial hazards.
2.	II-I	<b>COSMETIC SCIENCE</b>	CO1: Formulate and evaluate various cosmeceutical product.
			CO2: Know the key components used in different cosmeceutical products.
			CO3: Recognize the role of ingredients and herbs used in cosmeceutical products.



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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		ANALYSIS		Academic Year:		2022-23	
Branch & Section:		M PHARM		Exam:		MID - II	
Course/Sub:		M P ANALYSIS		Year/Semester:		I-I	
		CO3	C03	C04	C05		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		5	5	5	5	10	5
1	22GN1S0301		5		5	10	5
2	22GN1S0302			5	4	8	5
3	22GN1S0303	4			5	9	5
4	22GN1S0304	5		4		9	5
5	22GN1S0305		4	5		9	5
6	22GN1S0306	4		5		8	5
7	22GN1S0307	4	5			9	5
8	22GN1S0308			5	5	9	5
9	22GN1S0309	5	4			10	5
10	22GN1S0310	5			3	8	5
11	22GN1S0311		4	5		9	5
12	22GN1S0312			3	4	8	5
13	22GN1S0313	5		5		10	5
No. of students attempted		7	5	8	6	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	5	8	6	13	13
% of Students > 50%		100.0	100	100.0	100	100	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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<b>Department:</b>	<b>B PHARMACY</b>		
<b>Course Outcome Attainment External Examination</b>			
<b>SPECIALIZATION</b>	ANALYSIS	<b>Academic Year:</b>	2022-23
<b>Branch &amp; Section:</b>	M PHARM	<b>Exam:</b>	EXTERNAL
<b>Course:</b>	M P ANALYSIS	<b>Year/Semister:</b>	I-I

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	22GN1S0301	35
2	22GN1S0302	45
3	22GN1S0303	35
4	22GN1S0304	36
5	22GN1S0305	54
6	22GN1S0306	34
7	22GN1S0307	56
8	22GN1S0308	48
9	22GN1S0309	48
10	22GN1S0310	37
11	22GN1S0311	39
12	22GN1S0312	39
13	22GN1S0313	44
No. of students who attempted the subject		13
Max. Marks		75
No. of students secured > 26 marks		13
Percentage of students secured > 26 marks		94.6
<b>Overall External Attainment level</b>		<b>3</b>

Attainment table	
0-69%	1
70-80%	2
>80%	3



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## Overall Course Outcome Attainment

SPECIALIZATION	ANALYSIS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	
Course:	M P ANALYSIS	Semester:	I-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT =  $0.25*INT + 0.75*EXT$



  
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COURSE OUTCOMES

CO1	Understand the quantitative determination of organic compounds and spectral analysis of dissolution parameters.
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CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	2	3	2	2	2	2	2	3	2	3	3	2
CO2	2	3	3	2	2	2	3	2	1	3	3	2
CO3	2	3	3	2	2	2	3	2	1	3	2	3
CO avg(M)	2.0	3	2.7	2.0	2.0	2	2.67	2	1	3	2.667	2
Attainment Level*	1.3	3	2.4	1.3	1.3	1	2.43	1	1	3	2.25	1

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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		ANALYSIS		Academic Year:		2022-2023	
Branch & Section:		M PHARM		Exam:		MID - I	
Course/Sub:		MODERN FOOD AN		Year/Semester:		I-I	
		CO1	C02	C02	C03		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5</b>
1	22GNIS0301	5		4		9	5
2	22GNIS0302	4		5		6	5
3	22GNIS0303		4		5	9	5
4	22GNIS0304		4	5		10	5
5	22GNIS0305	4			5	8	5
6	22GNIS0306	4		5		9	5
7	22GNIS0307		5		4	1	5
8	22GNIS0308	4		4		8	5
9	22GNIS0309		4	5		7	5
10	22GNIS0310	4			5	8	5
11	22GNIS0311	5	4			10	5
12	22GNIS0312		4	4		8	5
13	22GNIS0313	5			4	9	5
No. of students attempted		8	6	7	5	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		8	6	7	5	12	13
% of Students > 50%		100.0	100	100	100.0	92.31	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



  
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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		ANALYSIS		Academic Year:		2022-23	
Branch & Section:		M PHARM		Exam:		MID - II	
Course/Sub:		MFA		Year/Semester:		I-I	
		CO3	C03	C04	C05		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	22GN1S0301		5		5	10	5
2	22GN1S0302			5	4	8	5
3	22GN1S0303	4			5	9	5
4	22GN1S0304	5		4		9	5
5	22GN1S0305		4	5		9	5
6	22GN1S0306	4		5		8	5
7	22GN1S0307	4	5			9	5
8	22GN1S0308			5	5	9	5
9	22GN1S0309	5	4			10	5
10	22GN1S0310	5			3	8	5
11	22GN1S0311		4	5		9	5
12	22GN1S0312			3	4	8	5
13	22GN1S0313	5		5		10	5
No. of students attempted		7	5	8	6	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	5	8	6	13	13
% of Students > 50%		100.0	100	100.0	100	100	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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Department:		B PHARMACY	
Course Outcome Attainment External Examination			
SPECIALIZATION	ANALYSIS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	EXTERNAL
Course:	M. FOOD ANALYSIS	Year/Semister:	I-I
S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)	
1	22GN1S0301	35	
2	22GN1S0302	45	
3	22GN1S0303	35	
4	22GN1S0304	36	
5	22GN1S0305	54	
6	22GN1S0306	44	
7	22GN1S0307	54	
8	22GN1S0308	48	
9	22GN1S0309	48	
10	22GN1S0310	37	
11	22GN1S0311	39	
12	22GN1S0312	49	
13	22GN1S0313	44	
No. of students who attempted the subject		13	
Max. Marks		75	
No. of students secured > 26 marks		13	
Percentage of students secured > 26 marks		94.6	
Overall External Attainment level		3	

Attainment table	
0-69%	1
70-80%	2
>80%	3



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## Overall Course Outcome Attainment

SPECIALIZATION	ANALYSIS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	
Course:	MFA	Semister:	I-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT =  $0.25*INT + 0.75*EXT$

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**COURSE OUTCOMES**

CO1	Understand the Pharmaceutical food analysis
CO2	Analyze food additives
CO3	Pesticides in food pharmaceuticals
CO4	Have knowledge on food regulations and legislations.

**CO-PO Mapping**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	3	3	2	2	2	2	-	3	2	-	3	2
CO2	1	3	3	2	2	2	-	2	1	-	3	2
CO3	1	2	2	2	2	2	-	1	1	-	2	3
CO4	1	3	3	2	2	2	-	2	1	-	2	3
CO avg(M)	2	2.75	2.5	2.0	2.0	2	-	2	1	-	2.5	3
Attainment Level*	1	2.5	2.1	1.3	1.3	1	-	1	1	-	2.08	3



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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		ANALYSIS		Academic Year:		2022-2023	
Branch & Section:		M PHARM		Exam:		MID - I	
Course/Sub:		ADVANC PHARMA		Year/Semester:		I-I	
		CO1	C02	C02	C03		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5</b>
1	22GN1S0301	5		4		9	5
2	22GN1S0302	4		5		6	5
3	22GN1S0303		4		5	9	5
4	22GN1S0304		4	5		10	5
5	22GN1S0305	4			5	8	5
6	22GN1S0306	4		5		9	5
7	22GN1S0307		5		4	1	5
8	22GN1S0308	4		4		8	5
9	22GN1S0309		4	5		7	5
10	22GN1S0310	4			5	8	5
11	22GN1S0311	5	4			10	5
12	22GN1S0312		4	4		8	5
13	22GN1S0313	5			4	9	5
No. of students attempted		8	6	7	5	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		8	6	7	5	12	13
% of Students > 50%		100.0	100	100	100.0	92.31	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		ANALYSIS		Academic Year:		2022-23	
Branch & Section:		M PHARM		Exam:		MID - II	
Course/Sub:		ADVANCED P ANALYSIS		Year/Semester:		I-I	
		CO3	C03	C04	C05		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	22GN1S0301		5		5	10	5
2	22GN1S0302			5	4	8	5
3	22GN1S0303	4			5	9	5
4	22GN1S0304	5		4		9	5
5	22GN1S0305		4	5		9	5
6	22GN1S0306	4		5		8	5
7	22GN1S0307	4	5			9	5
8	22GN1S0308			5	5	9	5
9	22GN1S0309	5	4			10	5
10	22GN1S0310	5			3	8	5
11	22GN1S0311		4	5		9	5
12	22GN1S0312			3	4	8	5
13	22GN1S0313	5		5		10	5
No. of students attempted		7	5	8	6	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	5	8	6	13	13
% of Students > 50%		100.0	100	100.0	100	100	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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<b>Department:</b>	<b>B PHARMACY</b>		
<b>Course Outcome Attainment External Examination</b>			
SPECIALIZATION	ANALYSIS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	EXTERNAL
Course:	M P ANALYSIS	Year/Semester:	I-I
	<b>S.NO.</b>	<b>HALLTICKET NO</b>	<b>TOTAL(Max. Score Marks)</b>
	1	22GN1S0301	35
	2	22GN1S0302	45
	3	22GN1S0303	35
	4	22GN1S0304	36
	5	22GN1S0305	54
	6	22GN1S0306	34
	7	22GN1S0307	56
	8	22GN1S0308	48
	9	22GN1S0309	48
	10	22GN1S0310	37
	11	22GN1S0311	39
	12	22GN1S0312	39
	13	22GN1S0313	44
No. of students who attempted the subject			13
Max. Marks			75
No. of students secured > 26 marks			13
Percentage of students secured > 26 marks			94.6
Overall External Attainment level			3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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## Overall Course Outcome Attainment

SPECIALIZATION	ANALYSIS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	
Course:	ADVANCED P ANALYSIS	Semester:	I-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT =  $0.25*INT + 0.75*EXT$



  
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COURSE OUTCOMES

CO1	Understand the quantitative determination of organic compounds and spectral analysis and spectral dissolution parameters.
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CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	2	3	2	2	2	-	2	3	-	3	3	2
CO2	2	3	3	2	2	-	3	2	-	3	3	2
CO3	2	3	3	2	2	-	3	2	-	3	2	3
CO avg(M)	2.0	3	2.7	2.0	2.0	-	2.67	2	-	3	2.667	2
Attainment Level*	1.3	3	2.4	1.3	1.3	-	2.43	1	-	3	2.25	1



  
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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		ANALYSIS		Academic Year:		2021-2023	
Branch & Section:		M PHARM		Exam:		MID - I	
Course/Sub:		P. VALIDATION		Year/Semester:		I-I	
		CO1	CO2	CO2	CO3		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5</b>
1	22GN1S0301	5		4		9	5
2	22GN1S0302	4		5		6	5
3	22GN1S0303		4		5	9	5
4	22GN1S0304		4	5		10	5
5	22GN1S0305	4			5	8	5
6	22GN1S0306	4		5		9	5
7	22GN1S0307		5		4	1	5
8	22GN1S0308	4		4		8	5
9	22GN1S0309		4	5		7	5
10	22GN1S0310	4			5	8	5
11	22GN1S0311	5	4			10	5
12	22GN1S0312		4	4		8	5
13	22GN1S0313	5			4	9	5
No. of students attempted		8	6	7	5	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		8	6	7	5	12	13
% of Students > 50%		100.0	100	100	100.0	92.31	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		ANALYSIS		Academic Year:		2022-23	
Branch & Section:		M PHARM		Exam:		MID - II	
Course/Sub:		P.VALIDATION		Year/Semister:		I-I	
		CO3	C03	C04	C05		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		5	5	5	5	10	5
1	22GN1S0301		5		5	10	5
2	22GN1S0302			5	4	8	5
3	22GN1S0303	4			5	9	5
4	22GN1S0304	5		4		9	5
5	22GN1S0305		4	5		9	5
6	22GN1S0306	4		5		8	5
7	22GN1S0307	4	5			9	5
8	22GN1S0308			5	5	9	5
9	22GN1S0309	5	4			10	5
10	22GN1S0310	5			3	8	5
11	22GN1S0311		4	5		9	5
12	22GN1S0312			3	4	8	5
13	22GN1S0313	5		5		10	5
No. of students attempted		7	5	8	6	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	5	8	6	13	13
% of Students > 50%		100.0	100	100.0	100	100	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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Department:	B PHARMACY		
<b>Course Outcome Attainment External Examination</b>			
SPECIALIZATION	ANALYSIS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	EXTERNAL
Course:	P.VALIDATION	Year/Semister:	I-I

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	22GN1S0301	35
2	22GN1S0302	45
3	22GN1S0303	35
4	22GN1S0304	36
5	22GN1S0305	54
6	22GN1S0306	34
7	22GN1S0307	56
8	22GN1S0308	48
9	22GN1S0309	48
10	22GN1S0310	37
11	22GN1S0311	39
12	22GN1S0312	39
13	22GN1S0313	44
No. of students who attempted the subject		13
Max. Marks		75
No. of students secured > 26 marks		13
Percentage of students secured > 26 marks		94.6
Overall External Attainment level		3

Attainment table	
0-69%	1
70-80%	2
>80%	3



  
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## Overall Course Outcome Attainment

SPECIALIZATION	ANALYSIS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	
Course:	P. VALIDATION	Semester:	I-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25\*INT + 0.75\*EXT



  
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**COURSE OUTCOMES**

CO1	Explain the validation
CO2	Carryout validation of manufacturing processes
CO3	Apply the knowledge of validation to insruments and equipments

**CO-PO Mapping**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	3	3	2	2	2	2	-	3	2	-	3	2
CO2	1	3	3	2	2	2	-	2	1	-	3	2
CO3	1	3	3	2	2	2	-	2	1	-	2	3
CO avg(M)	2	3	2.7	2.0	2.0	2	-	2	1	-	2.667	2
Attainment Level*	1.9	3	2.4	1.3	1.3	1	-	1	1	-	2.25	1



*[Handwritten Signature]*  
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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		ANALYSIS		Academic Year:		2021-2023	
Branch & Section:		M PHARM		Exam:		MID - I	
Course/Sub:		RM&IPR		Year/Semester:		I-I	
		CO1	C02	C02	C03		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5</b>
1	22GN1S0301	5		4		9	5
2	22GN1S0302	4		5		6	5
3	22GN1S0303		4		5	9	5
4	22GN1S0304		4	5		10	5
5	22GN1S0305	4			5	8	5
6	22GN1S0306	4		5		9	5
7	22GN1S0307		5		4	1	5
8	22GN1S0308	4		4		8	5
9	22GN1S0309		4	5		7	5
10	22GN1S0310	4			5	8	5
11	22GN1S0311	5	4			10	5
12	22GN1S0312		4	4		8	5
13	22GN1S0313	5			4	9	5
No. of students attempted		8	6	7	5	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		8	6	7	5	12	13
% of Students > 50%		100.0	100	100	100.0	92.31	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



*[Signature]*  
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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmcity, Hyderabad - 501 512.



Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		ANALYSIS		Academic Year:		2022-23	
Branch & Section:		M PHARM		Exam:		MID - II	
Course/Sub:		RM&IPR		Year/Semister:		I-I	
		CO3	C03	C04	C05		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	22GN1S0301		5		5	10	5
2	22GN1S0302			5	4	8	5
3	22GN1S0303	4			5	9	5
4	22GN1S0304	5		4		9	5
5	22GN1S0305		4	5		9	5
6	22GN1S0306	4		5		8	5
7	22GN1S0307	4	5			9	5
8	22GN1S0308			5	5	9	5
9	22GN1S0309	5	4			10	5
10	22GN1S0310	5			3	8	5
11	22GN1S0311		4	5		9	5
12	22GN1S0312			3	4	8	5
13	22GN1S0313	5		5		10	5
No. of students attempted		7	5	8	6	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	5	8	6	13	13
% of Students > 50%		100.0	100	100.0	100	100	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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<b>Department:</b>	<b>B PHARMACY</b>		
<b>Course Outcome Attainment External Examination</b>			
<b>SPECIALIZATION</b>	<b>ANALYSIS</b>	<b>Academic Year:</b>	<b>2022-23</b>
<b>Branch &amp; Section:</b>	<b>M PHARM</b>	<b>Exam:</b>	<b>EXTERNAL</b>
<b>Course:</b>	<b>RM&amp;IPR</b>	<b>Year/Semister:</b>	<b>I-I</b>

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	22GN1S0301	35
2	22GN1S0302	45
3	22GN1S0303	35
4	22GN1S0304	36
5	22GN1S0305	54
6	22GN1S0306	34
7	22GN1S0307	56
8	22GN1S0308	48
9	22GN1S0309	48
10	22GN1S0310	37
11	22GN1S0311	39
12	22GN1S0312	39
13	22GN1S0313	44
No. of students who attempted the subject		13
Max. Marks		75
No. of students secured > 26 marks		13
Percentage of students secured > 26 marks		94.6
<b>Overall External Attainment level</b>		<b>3</b>

Attainment table	
0-69%	1
70-80%	2
>80%	3



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## Overall Course Outcome Attainment

SPECIALIZATION	ANALYSIS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	
Course:	RM&IPR	Semister:	I-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25\*INT + 0.75\*EXT



  
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**COURSE OUTCOMES**

CO1	Understand research problem function
CO2	Analyze research related information
CO3	follow research ethics

**CO-PO Mapping**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	3	3	2	2	2	2	-	3	2	-	3	2
CO2	1	3	3	2	2	2	-	2	1	-	3	2
CO3	1	3	3	2	2	2	-	2	1	-	2	3
CO avg(M)	2	3	2.7	2.0	2.0	2	-	2	1	-	2.667	2
Attainment Level*	1.9	3	2.4	1.3	1.3	1	-	1	1	-	2.25	1



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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		ANALYSIS		Academic Year:		2022-2023	
Branch & Section:		M PHARM		Exam:		MID - I	
Course/Sub:		ADVANC INSTRUM		Year/Semester:		I-II	
		CO1	C02	C02	C03		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5</b>
1	22GN1S0301	5		4		9	5
2	22GN1S0302	4		5		6	5
3	22GN1S0303		4		5	9	5
4	22GN1S0304		4	5		10	5
5	22GN1S0305	4			5	8	5
6	22GN1S0306	4		5		9	5
7	22GN1S0307		5		4	1	5
8	22GN1S0308	4		4		8	5
9	22GN1S0309		4	5		7	5
10	22GN1S0310	4			5	8	5
11	22GN1S0311	5	4			10	5
12	22GN1S0312		4	4		8	5
13	22GN1S0313	5			4	9	5
No. of students attempted		8	6	7	5	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		8	6	7	5	12	13
% of Students > 50%		100.0	100	100	100.0	92.31	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



  
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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		ANALYSIS		Academic Year:		2022-23	
Branch & Section:		M PHARM		Exam:		MID - II	
Course/Sub:		AIA		Year/Semister:		I-II	
		CO3	C03	C04	C05		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	22GN1S0301		5		5	10	5
2	22GN1S0302			5	4	8	5
3	22GN1S0303	4			5	9	5
4	22GN1S0304	5		4		9	5
5	22GN1S0305		4	5		9	5
6	22GN1S0306	4		5		8	5
7	22GN1S0307	4	5			9	5
8	22GN1S0308			5	5	9	5
9	22GN1S0309	5	4			10	5
10	22GN1S0310	5			3	8	5
11	22GN1S0311		4	5		9	5
12	22GN1S0312			3	4	8	5
13	22GN1S0313	5		5		10	5
No. of students attempted		7	5	8	6	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	5	8	6	13	13
% of Students > 50%		100.0	100	100.0	100	100	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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<b>Department:</b>	<b>B PHARMACY</b>		
<b>Course Outcome Attainment External Examination</b>			
<b>SPECIALIZATION</b>	<b>ANALYSIS</b>	<b>Academic Year:</b>	<b>2022-23</b>
<b>Branch &amp; Section:</b>	<b>M PHARM</b>	<b>Exam:</b>	<b>EXTERNAL</b>
<b>Course:</b>	<b>ADVANCED INSTRUMENTAL ANALYSIS</b>	<b>Year/Semister:</b>	<b>I-II</b>

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	22GN1S0301	35
2	22GN1S0302	45
3	22GN1S0303	35
4	22GN1S0304	36
5	22GN1S0305	54
6	22GN1S0306	44
7	22GN1S0307	54
8	22GN1S0308	48
9	22GN1S0309	48
10	22GN1S0310	37
11	22GN1S0311	39
12	22GN1S0312	49
13	22GN1S0313	44

No. of students who attempted the subject	13
Max. Marks	75
No. of students secured > 26 marks	13
Percentage of students secured > 26 marks	94.6
<b>Overall External Attainment level</b>	<b>3</b>

0-69%	1
70-80%	2
>80%	3



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## Overall Course Outcome Attainment

SPECIALIZATION	ANALYSIS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	
Course:	AIA	Semester:	I-II

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT =  $0.25*INT + 0.75*EXT$



  
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COURSE OUTCOMES

CO1	Interpret NMR, Mass and IR spectra of various organic compounds
CO2	Demonstrate theoretical and practical skills of the hyphenated instruments
CO3	Acquire Practical aspects and troubleshooting techniques for HPLC technique
CO4	Expertise in controlling the parameters that affect drug manufacturing
CO-PO Mapping	

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	3	2	2	2	2	2	-	3	3	-	3	2
CO2	1	2	3	2	2	2	-	2	3	-	3	2
CO3	1	2	2	2	2	2	-	1	3	-	2	3
CO4	1	2	3	2	2	2	-	2	3	-	2	3
CO avg(M)	2	2	2.5	2.0	2.0	2	-	2	3	-	2.5	3
Attainment Level*	1	1.3	2.1	1.3	1.3	1	-	1	3	-	2.08	3



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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		ANALYSIS		Academic Year:		2022-2023	
Branch & Section:		M PHARM		Exam:		MID - I	
Course/Sub:		PHARMACEUTICA		Year/Semester:		I-II	
		CO1	C02	C02	C03		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5</b>
1	22GNIS0301	5		4		9	5
2	22GNIS0302	4		5		6	5
3	22GNIS0303		4		5	9	5
4	22GNIS0304		4	5		10	5
5	22GNIS0305	4			5	8	5
6	22GNIS0306	4		5		9	5
7	22GNIS0307		5		4	1	5
8	22GNIS0308	4		4		8	5
9	22GNIS0309		4	5		7	5
10	22GNIS0310	4			5	8	5
11	22GNIS0311	5	4			10	5
12	22GNIS0312		4	4		8	5
13	22GNIS0313	5			4	9	5
No. of students attempted		8	6	7	5	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		8	6	7	5	12	13
% of Students > 50%		100.0	100	100	100.0	92.31	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		ANALYSIS		Academic Year:		2022-23	
Branch & Section:		M PHARM		Exam:		MID - II	
Course/Sub:		QC&QA		Year/Semister:		I-II	
		CO3	C03	C04	C05		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	22GN1S0301		5		5	10	5
2	22GN1S0302			5	4	8	5
3	22GN1S0303	4			5	9	5
4	22GN1S0304	5		4		9	5
5	22GN1S0305		4	5		9	5
6	22GN1S0306	4		5		8	5
7	22GN1S0307	4	5			9	5
8	22GN1S0308			5	5	9	5
9	22GN1S0309	5	4			10	5
10	22GN1S0310	5			3	8	5
11	22GN1S0311		4	5		9	5
12	22GN1S0312			3	4	8	5
13	22GN1S0313	5		5		10	5
No. of students attempted		7	5	8	6	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	5	8	6	13	13
% of Students > 50%		100.0	100	100.0	100	100	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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<b>Department:</b>	<b>B PHARMACY</b>		
<b>Course Outcome Attainment External Examination</b>			
<b>SPECIALIZATION</b>	<b>ANALYSIS</b>	<b>Academic Year:</b>	<b>2022-23</b>
<b>Branch &amp; Section:</b>	<b>M PHARM</b>	<b>Exam:</b>	<b>EXTERNAL</b>
<b>Course:</b>	<b>QC&amp;QA</b>	<b>Year/Semister:</b>	<b>I-II</b>

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	22GN1S0301	35
2	22GN1S0302	45
3	22GN1S0303	35
4	22GN1S0304	36
5	22GN1S0305	54
6	22GN1S0306	44
7	22GN1S0307	54
8	22GN1S0308	48
9	22GN1S0309	48
10	22GN1S0310	37
11	22GN1S0311	39
12	22GN1S0312	49
13	22GN1S0313	44
No. of students who attempted the subject		13
Max. Marks		75
No. of students secured > 26 marks		13
Percentage of students secured > 26 marks		94.6
Overall External Attainment level		3

0-69%	1
70-80%	2
>80%	3



  
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## Overall Course Outcome Attainment

SPECIALIZATION	PHARMACEUTICS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	
Course:	QC&QA	Semister:	I-II

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT =  $0.25*INT + 0.75*EXT$



  
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**COURSE OUTCOMES**

CO1	Understand the cGMP aspects in a pharmaceutical industry
CO2	Appreciate the importance of documentation
CO3	Understand the scope of quality certifications applicable to Pharmaceutical industries
CO4	Recognize the responsibilities of QA & QC departments
<b>CO-PO Mapping</b>	

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	3	2	2	-	2	2	-	3	3	-	3	2
CO2	1	2	3	-	2	2	-	2	3	-	3	2
CO3	1	2	2	-	2	2	-	1	3	-	2	3
CO4	1	2	3	-	2	2	-	2	3	-	2	3
CO avg(M)	2	2	2.5	-	2.0	2	-	2	3	-	2.5	3
Attainment Level*	1	1.3	2.1	-	1.3	1	-	1	3	-	2.08	3



*[Handwritten signature]*

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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		ANALYSIS		Academic Year:		2021-2023	
Branch & Section:		M PHARM		Exam:		MID - I	
Course/Sub:		HERBAL COSMETI		Year/Semester:		I-II	
		CO1	C02	C02	C03		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		5	5	5	5	10	5
1	22GN1S0301	5		4		9	5
2	22GN1S0302	4		5		6	5
3	22GN1S0303		4		5	9	5
4	22GN1S0304		4	5		10	5
5	22GN1S0305	4			5	8	5
6	22GN1S0306	4		5		9	5
7	22GN1S0307		5		4	1	5
8	22GN1S0308	4		4		8	5
9	22GN1S0309		4	5		7	5
10	22GN1S0310	4			5	8	5
11	22GN1S0311	5	4			10	5
12	22GN1S0312		4	4		8	5
13	22GN1S0313	5			4	9	5
No. of students attempted		8	6	7	5	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		8	6	7	5	12	13
% of Students > 50%		100.0	100	100	100.0	92.31	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmcity, Hyderabad - 501 512.



Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		ANALYSIS		Academic Year:		2022-23	
Branch & Section:		M PHARM		Exam:		MID - II	
Course/Sub:		HERBAL COSMETICS		Year/Semester:		I-II	
		CO3	C03	C04	C05		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		5	5	5	5	10	5
1	22GN1S0301		5		5	10	5
2	22GN1S0302			5	4	8	5
3	22GN1S0303	4			5	9	5
4	22GN1S0304	5		4		9	5
5	22GN1S0305		4	5		9	5
6	22GN1S0306	4		5		8	5
7	22GN1S0307	4	5			9	5
8	22GN1S0308			5	5	9	5
9	22GN1S0309	5	4			10	5
10	22GN1S0310	5			3	8	5
11	22GN1S0311		4	5		9	5
12	22GN1S0312			3	4	8	5
13	22GN1S0313	5		5		10	5
No. of students attempted		7	5	8	6	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	5	8	6	13	13
% of Students > 50%		100.0	100	100.0	100	100	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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Department:		B PHARMACY	
Course Outcome Attainment External Examination			
SPECIALIZATION	ANALYSIS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	EXTERNAL
Course:	HEBAL COSMETICS	Year/Semister:	I-II
S.NO.		TOTAL(Max. Score Marks)	
1	22GNIS0301	22GNIS0302	35
2	22GNIS0303	22GNIS0304	45
3	22GNIS0305	22GNIS0306	35
4	22GNIS0307	22GNIS0308	36
5	22GNIS0309	22GNIS0310	54
6	22GNIS0311	22GNIS0312	34
7	22GNIS0313	22GNIS0314	56
8	22GNIS0315	22GNIS0316	48
9	22GNIS0317	22GNIS0318	48
10	22GNIS0319	22GNIS0320	37
11	22GNIS0321	22GNIS0322	39
12	22GNIS0323	22GNIS0324	39
13			44
No. of students who attempted the subject		13	
Max. Marks		75	
No. of students secured > 26 marks		13	
Percentage of students secured > 26 marks		94.6	
Overall External Attainment level		3	

Attainment table	
0-69%	1
70-80%	2
>80%	3



  
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## Overall Course Outcome Attainment

SPECIALIZATION	ANALYSIS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	
Course:	HERBAL COSMETICS	Semester:	I-II

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT =  $0.25*INT + 0.75*EXT$



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COURSE OUTCOMES

CO1	Students will know about the raw materials used in herbal techniques.											
CO-PO Mapping												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	3	3	3	2	3	2	-	3	3	-	3	2
CO avg(M)	3	3	3	2.0	3.0	2	-	3	3	-	3	2
Attainment Level*	3	3	3	0.7	0.7	0.60	-	3	3.0	-	3	0.60



  
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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		ANALYSIS		Academic Year:		2021-2023	
Branch & Section:		M PHARM		Exam:		MID - I	
Course/Sub:		NEUTRACEUTICAL		Year/Semister:		I-II	
		CO1	C02	C02	C03		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5</b>
1	22GN1S0301	5		4		9	5
2	22GN1S0302	4		5		6	5
3	22GN1S0303		4		5	9	5
4	22GN1S0304		4	5		10	5
5	22GN1S0305	4			5	8	5
6	22GN1S0306	4		5		9	5
7	22GN1S0307		5		4	8	5
8	22GN1S0308	4		4		8	5
9	22GN1S0309		4	5		7	5
10	22GN1S0310	4			5	8	5
11	22GN1S0311	5	4			10	5
12	22GN1S0312		4	4		8	5
13	22GN1S0313	5			4	9	5
No. of students attempted		8	6	7	5	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		8	6	7	5	13	13
% of Students > 50%		100.0	100	100	100.0	100	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		ANALYSIS		Academic Year:		2022-23	
Branch & Section:		M PHARM		Exam:		MID - II	
Course/Sub:		NEUTRACEUTICALS		Year/Semester:		I-II	
		CO3	C03	C04	C05		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	22GN1S0301		5		5	10	5
2	22GN1S0302			5	4	8	5
3	22GN1S0303	4			5	9	5
4	22GN1S0304	5		4		9	5
5	22GN1S0305		4	5		9	5
6	22GN1S0306	4		5		8	5
7	22GN1S0307	4	5			9	5
8	22GN1S0308			5	5	9	5
9	22GN1S0309	5	4			10	5
10	22GN1S0310	5			3	8	5
11	22GN1S0311		4	5		9	5
12	22GN1S0312			3	4	8	5
13	22GN1S0313	5		5		10	5
No. of students attempted		7	5	8	6	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	5	8	6	13	13
% of Students > 50%		100.0	100	100.0	100	100	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



  
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Department:	B PHARMACY		
<b>Course Outcome Attainment External Examination</b>			
SPECIALIZATION	ANALYSIS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	EXTERNAL
Course:	MNEUTRACEUTICALS	Year/Semister:	I-II

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	22GN1S0301	35
2	22GN1S0302	45
3	22GN1S0303	35
4	22GN1S0304	36
5	22GN1S0305	54
6	22GN1S0306	34
7	22GN1S0307	56
8	22GN1S0308	48
9	22GN1S0309	48
10	22GN1S0310	37
11	22GN1S0311	39
12	22GN1S0312	39
13	22GN1S0313	44
No. of students who attempted the subject		13
Max. Marks		75
No. of students secured > 26 marks		13
Percentage of students secured > 26 marks		94.6
Overall External Attainment level		3

Attainment table	
0-69%	1
70-80%	2
>80%	3



  
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## Overall Course Outcome Attainment

SPECIALIZATION	ANALYSIS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	
Course:	NEURACEUTICALS	Semister:	I-II

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25\*INT + 0.75\*EXT



  
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**COURSE OUTCOMES**

CO1	Students will know the importance of neutraceuticals in various common problems with cincent of free radicles											
CO-PO Mapping												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	3	3	3	2	3	2	-	3	3	-	3	2
CO avg(M)	3	3	3	2.0	3.0	2	-	3	3	-	3	2
Attainment Level*	3	3	3	0.7	0.7	0.60	-	3	3.0	-	3	0.60



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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		ANALYSIS		Academic Year:		2021-2023	
Branch & Section:		M PHARM		Exam:		MID - I	
Course/Sub:		SCALE UP & TECH		Year/Semister:		II-I	
		CO1	C02	C02	C03		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5</b>
1	21GNISO301	5		4		9	5
2	21GNISO302	4		5		6	5
3	21GNISO303		4		5	9	5
4	21GNISO304		4	5		10	5
5	21GNISO305	4			5	8	5
6	21GNISO306	4		5		9	5
7	21GNISO307		5		4	1	5
8	21GNISO308	4		4		8	5
9	21GNISO309		4	5		7	5
10	21GNISO310	4			5	8	5
11	21GNISO311	5	4			10	5
12	21GNISO312		4	4		8	5
13	21GNISO313	5			4	9	5
No. of students attempted		8	6	7	5	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		8	6	7	5	12	13
% of Students > 50%		100.0	100	100	100.0	92.31	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		ANALYSIS		Academic Year:		2022-23	
Branch & Section:		M PHARM		Exam:		MID - II	
Course/Sub:		STT		Year/Semister:		II-I	
		CO3	C03	C04	C05		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	21GNISO301		5		5	10	5
2	21GNISO302			5	4	8	5
3	21GNISO303	4			5	9	5
4	21GNISO304	5		4		9	5
5	21GNISO305		4	5		9	5
6	21GNISO306	4		5		8	5
7	21GNISO307	4	5			9	5
8	21GNISO308			5	5	9	5
9	21GNISO309	5	4			10	5
10	21GNISO310	5			3	8	5
11	21GNISO311		4	5		9	5
12	21GNISO312			3	4	8	5
13	21GNISO313	5		5		10	5
No. of students attempted		7	5	8	6	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	5	8	6	13	13
% of Students > 50%		100.0	100	100.0	100	100	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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Department:		B PHARMACY	
Course Outcome Attainment External Examination			
SPECIALIZATION	ANALYSIS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	EXTERNAL
Course:	STT	Year/Semister:	II-I
S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)	
1	21GN1SO301		
2	21GN1SO302	45	
3	21GN1SO303	35	
4	21GN1SO304	36	
5	21GN1SO305	54	
6	21GN1SO306	34	
7	21GN1SO307	56	
8	21GN1SO308	48	
9	21GN1SO309	48	
10	21GN1SO310	37	
11	21GN1SO311	39	
12	21GN1SO312	39	
13	21GN1SO313	44	
No. of students who attempted the subject		12	
Max. Marks		75	
No. of students secured > 26 marks		13	
Percentage of students secured > 26 marks		94.6	
Overall External Attainment level		3	

Attainment table	
0-69%	1
70-80%	2
>80%	3



  
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## Overall Course Outcome Attainment

SPECIALIZATION	ANALYSIS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	
Course:	STT	Semester:	I-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25\*INT + 0.75\*EXT



  
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COURSE OUTCOMES

CO1	Manage the scale up process in pharmaceutical industry
CO2	Assist in technology transfer
CO3	Establish safety guidelines

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	3	3	2	2	2	2	-	3	2	-	3	2
CO2	1	3	3	2	2	2	-	2	1	-	3	2
CO3	1	3	3	2	2	2	-	2	1	-	2	3
CO avg(M)	2	3	2.7	2.0	2.0	2	-	2	1	-	2.667	2
Attainment Level*	0	3	2.4	1.3	1.3	1	-	1	1	-	2.25	1



  
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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		ANALYSIS		Academic Year:		2021-2023	
Branch & Section:		M PHARM		Exam:		MID - I	
Course/Sub:		COSMETIC SCIENCE		Year/Semester:		II-I	
		CO1	C02	C02	C03		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	21GNISO301	5		4		9	5
2	21GNISO302	4		5		6	5
3	21GNISO303		4		5	9	5
4	21GNISO304		4	5		10	5
5	21GNISO305	4			5	8	5
6	21GNISO306	4		5		9	5
7	21GNISO307		5		4	1	5
8	21GNISO308	4		4		8	5
9	21GNISO309		4	5		7	5
10	21GNISO310	4			5	8	5
11	21GNISO311	5	4			10	5
12	21GNISO312		4	4		8	5
13	21GNISO313	5			4	9	5
No. of students attempted		8	6	7	5	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		8	6	7	5	12	13
% of Students > 50%		100.0	100	100	100.0	92.31	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



  
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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		ANALYSIS		Academic Year:		2022-23	
Branch & Section:		M PHARM		Exam:		MID - II	
Course/Sub:		CS		Year/Semister:		II-I	
		CO3	C03	C04	C05		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	21GN1SO301		5		5	10	5
2	21GN1SO302			5	4	8	5
3	21GN1SO303	4			5	9	5
4	21GN1SO304	5		4		9	5
5	21GN1SO305		4	5		9	5
6	21GN1SO306	4		5		8	5
7	21GN1SO307	4	5			9	5
8	21GN1SO308			5	5	9	5
9	21GN1SO309	5	4			10	5
10	21GN1SO310	5			3	8	5
11	21GN1SO311		4	5		9	5
12	21GN1SO312			3	4	8	5
13	21GN1SO313	5		5		10	5
No. of students attempted		7	5	8	6	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	5	8	6	13	13
% of Students > 50%		100.0	100	100.0	100	100	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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Department:		B PHARMACY	
Course Outcome Attainment External Examination			
SPECIALIZATION	ANALYSIS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	EXTERNAL
Course:	COSMETIC SCIENCE	Year/Semister:	II-I
S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)	
1	21GN1SO301		
2	21GN1SO302	45	
3	21GN1SO303	35	
4	21GN1SO304	36	
5	21GN1SO305	54	
6	21GN1SO306	34	
7	21GN1SO307	56	
8	21GN1SO308	48	
9	21GN1SO309	48	
10	21GN1SO310	37	
11	21GN1SO311	39	
12	21GN1SO312	39	
13	21GN1SO313	44	
No. of students who attempted the subject		12	
Max. Marks		75	
No. of students secured > 26 marks		13	
Percentage of students secured > 26 marks		94.6	
Overall External Attainment level		3	

Attainment table	
0-69%	1
70-80%	2
>80%	3



  
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## Overall Course Outcome Attainment

SPECIALIZATION	ANALYSIS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	
Course:	CPSMETIC SCIENCE	Semister:	I-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25\*INT + 0.75\*EXT



  
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COURSE OUTCOMES

CO1	Formulate and evaluate various cosmetic products											
CO2	know the key products used in cosmetics											
CO3	Recognize the role of ingredients used in cosmetics											
CO-PO Mapping												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	3	3	2	2	2	2	-	3	1	-	3	2
CO2	1	3	3	2	2	2	-	2	1	-	3	2
CO3	1	3	3	2	2	2	-	2	1	-	2	3
CO avg(M)	2	3	2.7	2.0	2.0	2	-	2	1	-	2.667	2
Attainment	1	3	2.4	1.3	1.3	1	-	1	1	-	2.25	1



  
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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		PHARMACEUTICS	Academic Year:			2022-2023	
Branch & Section:		M PHARM	Exam:			MID - I	
Course/Sub:		APPLIED BPPK	Year/Semester:			I-I	
		CO1	C02	C02	C03		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5</b>
1	22GNIS0301	5		4		9	5
2	22GNIS0302	4		5		6	5
3	22GNIS0303		4		5	9	5
4	22GNIS0304		4	5		10	5
5	22GNIS0305	4			5	8	5
6	22GNIS0306	4		5		9	5
7	22GNIS0307		5		4	1	5
8	22GNIS0308	4		4		8	5
9	22GNIS0309		4	5		7	5
10	22GNIS0310	4			5	8	5
11	22GNIS0311	5	4			10	5
12	22GNIS0312		4	4		8	5
13	22GNIS0313	5			4	9	5
No. of students attempted		8	6	7	5	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		8	6	7	5	12	13
% of Students > 50%		100.0	100	100	100.0	92.31	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		PHARMACEUTICS		Academic Year:		2022-23	
Branch & Section:		M PHARM		Exam:		MID - II	
Course/Sub:		APPLIED BPPK		Year/Semester:		I-I	
		CO3	C03	C04	C05		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	22GN1S0301		5		5	10	5
2	22GN1S0302			5	4	8	5
3	22GN1S0303	4			5	9	5
4	22GN1S0304	5		4		9	5
5	22GN1S0305		4	5		9	5
6	22GN1S0306	4		5		8	5
7	22GN1S0307	4	5			9	5
8	22GN1S0308			5	5	9	5
9	22GN1S0309	5	4			10	5
10	22GN1S0310	5			3	8	5
11	22GN1S0311		4	5		9	5
12	22GN1S0312			3	4	8	5
13	22GN1S0313	5		5		10	5
No. of students attempted		7	5	8	6	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	5	8	6	13	13
% of Students > 50%		100.0	100	100.0	100	100	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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<b>Department:</b>	<b>B PHARMACY</b>		
<b>Course Outcome Attainment External Examination</b>			
<b>SPECIALIZATION</b>	<b>PHARMACEUTICS</b>	<b>Academic Year:</b>	<b>2022-23</b>
<b>Branch &amp; Section:</b>	<b>M PHARM</b>	<b>Exam:</b>	<b>EXTERNAL</b>
<b>Course:</b>	<b>APPLIED BPPK</b>	<b>Year/Semister:</b>	<b>I-I</b>

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	22GN1S0301	35
2	22GN1S0302	45
3	22GN1S0303	35
4	22GN1S0304	36
5	22GN1S0305	54
6	22GN1S0306	44
7	22GN1S0307	54
8	22GN1S0308	48
9	22GN1S0309	48
10	22GN1S0310	37
11	22GN1S0311	39
12	22GN1S0312	49
13	22GN1S0313	44
No. of students who attempted the subject		13
Max. Marks		75
No. of students secured > 26 marks		13
Percentage of students secured > 26 marks		94.6
Overall External Attainment level		3

0-69%	1
70-80%	2
>80%	3



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## Overall Course Outcome Attainment

SPECIALIZATION	PHARMACEUTICS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	
Course:	APPLIED BPPK	Semester:	I-II

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT =  $0.25*INT + 0.75*EXT$



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**COURSE OUTCOMES**

CO1	Understand the foundational principles of biopharmaceutics and pharmacokinetics,
CO2	Analyze and interpret raw data to derive pharmacokinetic models and parameters that describe drug absorption, distribution, metabolism, and elimination,
CO3	Critically evaluate biopharmaceutic studies with an emphasis on drug product equivalency,
CO4	Design and assess effective dosage regimens based on pharmacokinetic and biopharmaceutic parameters

**CO-PO Mapping**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	-	2	2	-	2	2	-	3	3	-	3	2
CO2	-	2	3	-	2	2	-	2	3	-	3	2
CO3	-	2	2	-	2	2	-	1	3	-	2	3
CO4	-	2	3	-	2	2	-	2	3	-	2	3
CO avg(M)	-	2	2.5	-	2.0	2	-	2	3	-	2.5	3
Attainment Level*	-	1.3	2.1	-	1.3	1	-	1	3	-	2.08	3



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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		PHARMACEUTICS	Academic Year:			2022-2023	
Branch & Section:		M PHARM	Exam:			MID - I	
Course/Sub:		MODERN PHARMA	Year/Semester:			I-I	
		CO1	C02	C02	C03		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5</b>
1	22GN1S0301	5		4		9	5
2	22GN1S0302	4		5		6	5
3	22GN1S0303		4		5	9	5
4	22GN1S0304		4	5		10	5
5	22GN1S0305	4			5	8	5
6	22GN1S0306	4		5		9	5
7	22GN1S0307		5		4	1	5
8	22GN1S0308	4		4		8	5
9	22GN1S0309		4	5		7	5
10	22GN1S0310	4			5	8	5
11	22GN1S0311	5	4			10	5
12	22GN1S0312		4	4		8	5
13	22GN1S313	5			4	9	5
No. of students attempted		8	6	7	5	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		8	6	7	5	12	13
% of Students > 50%		100.0	100	100	100.0	92.31	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



  
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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		PHARMACEUTICS		Academic Year:		2022-23	
Branch & Section:		M PHARM		Exam:		MID - II	
Course/Sub:		MODERN P CEU-I		Year/Semester:		I-I	
		CO3	C03	C04	C05		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5</b>
1	22GNIS0301		5		5	10	5
2	22GNIS0302			5	4	8	5
3	22GNIS0303	4			5	9	5
4	22GNIS0304	5		4		9	5
5	22GNIS0305		4	5		9	5
6	22GNIS0306	4		5		8	5
7	22GNIS0307	4	5			9	5
8	22GNIS0308			5	5	9	5
9	22GNIS0309	5	4			10	5
10	22GNIS0310	5			3	8	5
11	22GNIS0311		4	5		9	5
12	22GNIS0312			3	4	8	5
13	22GNIS313	5		5		10	5
No. of students attempted		7	5	8	6	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	5	8	6	13	13
% of Students > 50%		100.0	100	100.0	100	100	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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Department:		B PHARMACY	
Course Outcome Attainment External Examination			
SPECIALIZATION	PHARMACEUTICS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	EXTERNAL
Course:	MODERN P CEU-I	Year/Semester:	I-I
S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)	
1	22GN1S0301	35	
2	22GN1S0302	45	
3	22GN1S0303	35	
4	22GN1S0304	36	
5	22GN1S0305	54	
6	22GN1S0306	34	
7	22GN1S0307	56	
8	22GN1S0308	48	
9	22GN1S0309	48	
10	22GN1S0310	37	
11	22GN1S0311	39	
12	22GN1S0312	39	
13	22GN1S313	44	
No. of students who attempted the subject		13	
Max. Marks		75	
No. of students secured > 26 marks		13	
Percentage of students secured > 26 marks		94.6	
Overall External Attainment level		3	

Attainment table	
0-69%	1
70-80%	2
>80%	3



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## Overall Course Outcome Attainment

SPECIALIZATION	PHARMACEUTICS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	
Course:	MODERN P CEU -I	Semester:	I-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT =  $0.25*INT + 0.75*EXT$



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COURSE OUTCOMES

CO1	Students will understand the planning of pilot plant techniques used for all dosage forms etc.											
CO-PO Mapping												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	3	3	2	2	2	2	-	3	2	-	3	2
CO avg(M)	3	3	2	2.0	2.0	2	-	3	2	-	3	2
Attainment Level*	3	3	0.7	0.7	0.7	0.60	-	3	0.7	-	3	0.60



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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		PHARMACEUTICS	Academic Year:		2022-2023		
Branch & Section:		M PHARM	Exam:		MID - I		
Course/Sub:		ADVANCED PP	Year/Semester:		I-I		
		CO1	C02	C02	C03		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	22GN1S0301	5		4		9	5
2	22GN1S0302	4		5		6	5
3	22GN1S0303		4		5	9	5
4	22GN1S0304		4	5		10	5
5	22GN1S0305	4			5	8	5
6	22GN1S0306	4		5		9	5
7	22GN1S0307		5		4	1	5
8	22GN1S0308	4		4		8	5
9	22GN1S0309		4	5		7	5
10	22GN1S0310	4			5	8	5
11	22GN1S0311	5	4			10	5
12	22GN1S0312		4	4		8	5
13	22GN1S0313	5			4	9	5
No. of students attempted		8	6	7	5	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		8	6	7	5	12	13
% of Students > 50%		100.0	100	100	100.0	92.31	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



  
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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		PHARMACEUTICS		Academic Year:		2022-23	
Branch & Section:		M PHARM		Exam:		MID - II	
Course/Sub:		ADVANCED PP		Year/Semister:		I-I	
		CO3	C03	C04	C05		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	22GN1S0301		5		5	10	5
2	22GN1S0302			5	4	8	5
3	22GN1S0303	4			5	9	5
4	22GN1S0304	5		4		9	5
5	22GN1S0305		4	5		9	5
6	22GN1S0306	4		5		8	5
7	22GN1S0307	4	5			9	5
8	22GN1S0308			5	5	9	5
9	22GN1S0309	5	4			10	5
10	22GN1S0310	5			3	8	5
11	22GN1S0311		4	5		9	5
12	22GN1S0312			3	4	8	5
13	22GN1S0313	5		5		10	5
No. of students attempted		7	5	8	6	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	5	8	6	13	13
% of Students > 50%		100.0	100	100.0	100	100	100
Attainment Level		3	3	3	3	3	3

0-69%	1
70-80%	2
>80%	3



  
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# AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmcity, Hyderabad - 501 512.



Department:	<b>B PHARMACY</b>		
<b>Course Outcome Attainment External Examination</b>			
SPECIALIZATION	PHARMACEUTICS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	EXTERNAL
Course:	ADVANCED PP	Year/Semister:	I-I

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	22GN1S0301	35
2	22GN1S0302	45
3	22GN1S0303	35
4	22GN1S0304	36
5	22GN1S0305	54
6	22GN1S0306	44
7	22GN1S0307	54
8	22GN1S0308	48
9	22GN1S0309	48
10	22GN1S0310	37
11	22GN1S0311	39
12	22GN1S0312	49
13	22GN1S0313	44
No. of students who attempted the subject		13
Max. Marks		75
No. of students secured > 26 marks		13
Percentage of students secured > 26 marks		94.6
Overall External Attainment level		3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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## Overall Course Outcome Attainment

SPECIALIZATION	PHARMACEUTICS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	
Course:	ADVANCED PP	Semister:	I-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT =  $0.25*INT + 0.75*EXT$



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**COURSE OUTCOMES**

CO1	The students will know particle size analysis method, solid dispersion, physics of tablets, polymer classification and its applications
CO2	Student will also know the stability calculations, shelf life calculations and accelerated stability studies
CO3	They also know the rheology, absorption related to liquids and semi-solid dosage forms
CO4	They also know the factors affecting the dissolution and solubility

**CO-PO Mapping**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	3	2	2	-	2	2	-	3	-	-	3	2
CO2	1	2	3	-	2	2	-	2	-	-	3	2
CO3	1	2	2	-	2	2	-	1	-	-	2	3
CO4	1	2	3	-	2	2	-	2	-	-	2	3
CO avg(M)	2	2	2.5	-	2.0	2	-	2	-	-	2.5	3
Attainment Level*	1	1.3	2.1	-	1.3	1	-	1	-	-	2.08	3



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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		PHARMACEUTICS		Academic Year:		2021-2023	
Branch & Section:		M PHARM		Exam:		MID - I	
Course/Sub:		P. VALIDATION		Year/Semester:		I-I	
		CO1	C02	C02	C03		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5</b>
1	22GNIS0301	5		4		9	5
2	22GNIS0302	4		5		6	5
3	22GNIS0303		4		5	9	5
4	22GNIS0304		4	5		10	5
5	22GNIS0305	4			5	8	5
6	22GNIS0306	4		5		9	5
7	22GNIS0307		5		4	1	5
8	22GNIS0308	4		4		8	5
9	22GNIS0309		4	5		7	5
10	22GNIS0310	4			5	8	5
11	22GNIS0311	5	4			10	5
12	22GNIS0312		4	4		8	5
13	22GNIS0313	5			4	9	5
No. of students attempted		8	6	7	5	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		8	6	7	5	12	13
% of Students > 50%		100.0	100	100	100.0	92.31	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		PHARMACEUTICS		Academic Year:		2022-23	
Branch & Section:		M PHARM		Exam:		MID - II	
Course/Sub:		P.VALIDATION		Year/Semester:		I-I	
		CO3	C03	C04	C05		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5</b>
1	22GN1S0301		5		5	10	5
2	22GN1S0302			5	4	8	5
3	22GN1S0303	4			5	9	5
4	22GN1S0304	5		4		9	5
5	22GN1S0305		4	5		9	5
6	22GN1S0306	4		5		8	5
7	22GN1S0307	4	5			9	5
8	22GN1S0308			5	5	9	5
9	22GN1S0309	5	4			10	5
10	22GN1S0310	5			3	8	5
11	22GN1S0311		4	5		9	5
12	22GN1S0312			3	4	8	5
13	22GN1S0313	5		5		10	5
No. of students attempted		7	5	8	6	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	5	8	6	13	13
% of Students > 50%		100.0	100	100.0	100	100	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3

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Department:		B PHARMACY	
Course Outcome Attainment External Examination			
SPECIALIZATION	PHARMACEUTICS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	EXTERNAL
Course:	P.VALIDATION	Year/Semister:	I-I
S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)	
1	22GN1S0301	35	
2	22GN1S0302	45	
3	22GN1S0303	35	
4	22GN1S0304	36	
5	22GN1S0305	54	
6	22GN1S0306	34	
7	22GN1S0307	56	
8	22GN1S0308	48	
9	22GN1S0309	48	
10	22GN1S0310	37	
11	22GN1S0311	39	
12	22GN1S0312	39	
13	22GN1S0313	44	
No. of students who attempted the subject		13	
Max. Marks		75	
No. of students secured > 26 marks		13	
Percentage of students secured > 26 marks		94.6	
Overall External Attainment level		3	

Attainment table	
0-69%	1
70-80%	2
>80%	3



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## Overall Course Outcome Attainment

SPECIALIZATION	PHARMACEUTICS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	
Course:	P. VALIDATION	Semester:	I-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT =  $0.25*INT + 0.75*EXT$

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COURSE OUTCOMES

CO1	Explain the validation
CO2	Carryout validation of manufacturing processes
CO3	Apply the knowledge of validation to insruments and equipments

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	3	3	2	2	2	2	-	3	2	-	3	2
CO2	1	3	3	2	2	2	-	2	1	-	3	2
CO3	1	3	3	2	2	2	-	2	1	-	2	3
CO avg(M)	2	3	2.7	2.0	2.0	2	-	2	1	-	2.667	2
Attainment Level*	0	3	2.4	1.3	1.3	1	-	1	1	-	2.25	1



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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		PHARMACEUTICS	Academic Year:		2022-2023		
Branch & Section:		M PHARM	Exam:		MID - I		
Course/Sub:		RM&IPR	Year/Semester:		I-I		
		CO1	C02	C02	C03		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		5	5	5	5	10	5
1	22GN1S0301	5		4		9	5
2	22GN1S0302	4		5		6	5
3	22GN1S0303		4		5	9	5
4	22GN1S0304		4	5		10	5
5	22GN1S0305	4			5	8	5
6	22GN1S0306	4		5		9	5
7	22GN1S0307		5		4	1	5
8	22GN1S0308	4		4		8	5
9	22GN1S0309		4	5		7	5
10	22GN1S0310	4			5	8	5
11	22GN1S0311	5	4			10	5
12	22GN1S0312		4	4		8	5
13	22GN1S0313	5			4	9	5
No. of students attempted		8	6	7	5	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		8	6	7	5	12	13
% of Students > 50%		100.0	100	100	100.0	92.31	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		PHARMACEUTICS		Academic Year:		2022-23	
Branch & Section:		M PHARM		Exam:		MID - II	
Course/Sub:		RM&IPR		Year/Semister:		I-I	
		C03	C03	C04	C05		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		5	5	5	5	10	5
1	22GN1S0301		5		5	10	5
2	22GN1S0302			5	4	8	5
3	22GN1S0303	4			5	9	5
4	22GN1S0304	5		4		9	5
5	22GN1S0305		4	5		9	5
6	22GN1S0306	4		5		8	5
7	22GN1S0307	4	5			9	5
8	22GN1S0308			5	5	9	5
9	22GN1S0309		4			10	5
10	22GN1S0310	5			3	8	5
11	22GN1S0311		4	5		9	5
12	22GN1S0312			3	4	8	5
13	22GN1S0313	5		5		10	5
No. of students attempted		6	5	8	6	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		6	5	8	6	13	13
% of Students > 50%		100.0	100	100.0	100	100	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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**COURSE OUTCOMES**

CO1	Understand research problem function
CO2	Analyze research related information
CO3	follow research ethics

**CO-PO Mapping**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	3	3	2	2	2	2	-	3	2	-	3	2
CO2	1	3	3	2	2	2	-	2	1	-	3	2
CO3	1	3	3	2	2	2	-	2	1	-	2	3
CO avg(M)	2	3	2.7	2.0	2.0	2	-	2	1	-	2.667	2
Attainment Level*	Q	3	2.4	1.3	1.3	1	-	1	1	-	2.25	1

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Department:		B PHARMACY	
Course Outcome Attainment External Examination			
SPECIALIZATION	PHARMACEUTICS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	EXTERNAL
Course:	<del>MODERN</del> P - II	Year/Semester:	I-II
	<b>S.NO.</b>	<b>HALLTICKET NO</b>	<b>TOTAL(Max. Score Marks)</b>
	1	22GN1S0301	35
	2	22GN1S0302	45
	3	22GN1S0303	35
	4	22GN1S0304	36
	5	22GN1S0305	54
	6	22GN1S0306	34
	7	22GN1S0307	56
	8	22GN1S0308	48
	9	22GN1S0309	48
	10	22GN1S0310	37
	11	22GN1S0311	39
	12	22GN1S0312	39
	13	22GN1S0313	44
No. of students who attempted the subject			13
Max. Marks			75
No. of students secured > 26 marks			13
Percentage of students secured > 26 marks			94.6
Overall External Attainment level			3

Attainment table	
0-69%	1
70-80%	2
>80%	3



  
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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		PHARMACEUTICS		Academic Year:		2022-23	
Branch & Section:		M PHARM		Exam:		MID - II	
Course/Sub:		ERN PHARMACEUTI		Year/Semister:		I-II	
		CO3	C03	C04	C05		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		5	5	5	5	10	5
1	22GNIS0301		5		5	10	5
2	22GNIS0301			5	4	8	5
3	22GNIS0301	4			5	9	5
4	22GNIS0301	5		4		9	5
5	22GNIS0301		4	5		9	5
6	22GNIS0301	4		5		8	5
7	22GNIS0301	4	5			9	5
8	22GNIS0301			5	5	9	5
9	22GNIS0301	5	4			10	5
10	22GNIS0301	5			3	8	5
11	22GNIS0301		4	5		9	5
12	22GNIS0301			3	4	8	5
13	22GNIS0301	5		5		10	5
No. of students attempted		7	5	8	6	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	5	8	6	13	13
% of Students > 50%		100.0	100	100.0	100	100	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3

  
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<b>Department:</b>	<b>B PHARMACY</b>		
<b>Course Outcome Attainment External Examination</b>			
<b>SPECIALIZATION</b>	PHARMACEUTICS	<b>Academic Year:</b>	2022-23
<b>Branch &amp; Section:</b>	M PHARM	<b>Exam:</b>	EXTERNAL
<b>Course:</b>	MODERN P. CEU -II	<b>Year/Semester:</b>	I-II

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	22GN1S0301	35
2	22GN1S0301	45
3	22GN1S0301	35
4	22GN1S0301	36
5	22GN1S0301	54
6	22GN1S0301	34
7	22GN1S0301	56
8	22GN1S0301	48
9	22GN1S0301	48
10	22GN1S0301	37
11	22GN1S0301	39
12	22GN1S0301	39
13	22GN1S0301	44
No. of students who attempted the subject		13
Max. Marks		75
No. of students secured > 26 marks		13
Percentage of students secured > 26 marks		94.6
Overall External Attainment level		3

Attainment table	
0-69%	1
70-80%	2
>80%	3



  
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## Overall Course Outcome Attainment

SPECIALIZATION	PHARMACEUTICS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	
Course:	MODERN PHARMACEUTICS 2	Semester:	I-II

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT =  $0.25*INT + 0.75*EXT$



  
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**COURSE OUTCOMES**

CO1	Understand the concept of pre formulation and optimization studies and its role in formulation development
CO2	understand the quality of pharamceutical products
CO3	Know the concept of Total Quality Management
CO4	Know the dissolution techniques

**CO-PO Mapping**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	1	3	2	2	2	2	1	3	1	3	3	2
CO2	1	3	3	2	2	2	1	2	1	3	3	2
CO3	1	2	2	2	2	2	1	1	1	2	2	3
CO4	1	3	3	2	2	2	1	2	1	2	2	3
CO avg(M)	3	2.2	2.2	2.8	2.8	1	2	1	2	3	-	3
Attainment Level*	3	2.2	2.2	2.8	2.8	1	2	1	2	3	-	3



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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmcity, Hyderabad - 501 512.



Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		PHARMACEUTICS	Academic Year:			2022-2023	
Branch & Section:		M PHARM	Exam:			MID - I	
Course/Sub:		ADVANCED DRUG	Year/Semester:			I-II	
		CO1	C02	C02	C03		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5</b>
1	22GNIS0301	5		4		9	5
2	22GNIS0302	4		5		6	5
3	22GNIS0303		4		5	9	5
4	22GNIS0304		4	5		10	5
5	22GNIS0305	4			5	8	5
6	22GNIS0306	4		5		9	5
7	22GNIS0307		5		4	1	5
8	22GNIS0308	4		4		8	5
9	22GNIS0309		4	5		7	5
10	22GNIS0310	4			5	8	5
11	22GNIS0311	5	4			10	5
12	22GNIS0312		4	4		8	5
13	22GNIS0313	5			4	9	5
No. of students attempted		8	6	7	5	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		8	6	7	5	12	13
% of Students > 50%		100.0	100	100	100.0	92.31	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		PHARMACEUTICS		Academic Year:		2022-23	
Branch & Section:		M PHARM		Exam:		MID - II	
Course/Sub:		ADV DDS		Year/Semester:		I-II	
		CO3	C03	C04	C05		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5</b>
1	22GN1S0301		5		5	10	5
2	22GN1S0302			5	4	8	5
3	22GN1S0303	4			5	9	5
4	22GN1S0304	5		4		9	5
5	22GN1S0305		4	5		9	5
6	22GN1S0306	4		5		8	5
7	22GN1S0307	4	5			9	5
8	22GN1S0308			5	5	9	5
9	22GN1S0309	5	4			10	5
10	22GN1S0310	5			3	8	5
11	22GN1S0311		4	5		9	5
12	22GN1S0312			3	4	8	5
13	22GN1S0313	5		5		10	5
No. of students attempted		7	5	8	6	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	5	8	6	13	13
% of Students > 50%		100.0	100	100.0	100	100	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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<b>Department:</b>	<b>B PHARMACY</b>		
<b>Course Outcome Attainment External Examination</b>			
<b>SPECIALIZATION</b>	<b>PHARMACEUTICS</b>	<b>Academic Year:</b>	<b>2022-23</b>
<b>Branch &amp; Section:</b>	<b>M PHARM</b>	<b>Exam:</b>	<b>EXTERNAL</b>
<b>Course:</b>	<b>ADV DDS</b>	<b>Year/Semister:</b>	<b>I-II</b>

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	22GN1S0301	35
2	22GN1S0302	45
3	22GN1S0303	35
4	22GN1S0304	36
5	22GN1S0305	54
6	22GN1S0306	34
7	22GN1S0307	56
8	22GN1S0308	48
9	22GN1S0309	48
10	22GN1S0310	37
11	22GN1S0311	39
12	22GN1S0312	39
13	22GN1S0313	44
No. of students who attempted the subject		13
Max. Marks		75
No. of students secured > 26 marks		13
Percentage of students secured > 26 marks		94.6
<b>Overall External Attainment level</b>		<b>3</b>

0-69%	1
70-80%	2
>80%	3

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## Overall Course Outcome Attainment

SPECIALIZATION	PHARMACEUTICS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	
Course:	ADVANCED DRUG DELIVERY SYSTEMS	Semester:	I-II

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25\*INT + 0.75\*EXT



  
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COURSE OUTCOMES

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	3	3	3	2	3	2	-	3	3	-	3	2
CO avg(M)	3	3	3	2.0	3.0	2	-	3	3	-	3	2
Attainment Level*	3	3	3	0.7	0.7	0.60	-	3	3.0	-	3	0.60

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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		PHARMACEUTICS		Academic Year:		2022-2023	
Branch & Section:		M PHARM		Exam:		MID - I	
Course/Sub:		HERBAL COSMETI		Year/Semister:		I-II	
		CO1	C02	C02	C03		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5</b>
1	22GN1S0301	5		4		9	5
2	22GN1S0302	4		5		6	5
3	22GN1S0303		4		5	9	5
4	22GN1S0304		4	5		10	5
5	22GN1S0305	4			5	8	5
6	22GN1S0306	4		5		9	5
7	22GN1S0307		5		4	1	5
8	22GN1S0308	4		4		8	5
9	22GN1S0309		4	5		7	5
10	22GN1S0310	4			5	8	5
11	22GN1S0311	5	4			10	5
12	22GN1S0312		4	4		8	5
13	22GN1S0313	5			4	9	5
No. of students attempted		8	6	7	5	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		8	6	7	5	12	13
% of Students > 50%		100.0	100	100	100.0	92.31	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



  
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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		PHARMACEUTICS		Academic Year:		2022-23	
Branch & Section:		M PHARM		Exam:		MID - II	
Course/Sub:		HERBAL COSMETICS		Year/Semester:		I-II	
		CO3	C03	C04	C05		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5</b>
1	22GN1S0301		5		5	10	5
2	22GN1S0302			5	4	8	5
3	22GN1S0303	4			5	9	5
4	22GN1S0304	5		4		9	5
5	22GN1S0305		4	5		9	5
6	22GN1S0306	4		5		8	5
7	22GN1S0307	4	5			9	5
8	22GN1S0308			5	5	9	5
9	22GN1S0309	5	4			10	5
10	22GN1S0310	5			3	8	5
11	22GN1S0311		4	5		9	5
12	22GN1S0312			3	4	8	5
13	22GN1S0313	5		5		10	5
No. of students attempted		7	5	8	6	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	5	8	6	13	13
% of Students > 50%		100.0	100	100.0	100	100	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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Department:		B PHARMACY	
Course Outcome Attainment External Examination			
SPECIALIZATION	PHARMACEUTICS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	EXTERNAL
Course:	HEBAL COSMETICS	Year/Semister:	I-II
S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)	
1	22GN1S0301	35	
2	22GN1S0302	45	
3	22GN1S0303	35	
4	22GN1S0304	36	
5	22GN1S0305	54	
6	22GN1S0306	34	
7	22GN1S0307	56	
8	22GN1S0308	48	
9	22GN1S0309	48	
10	22GN1S0310	37	
11	22GN1S0311	39	
12	22GN1S0312	39	
13	22GN1S0313	44	
No. of students who attempted the subject		13	
Max. Marks		75	
No. of students secured > 26 marks		13	
Percentage of students secured > 26 marks		94.6	
Overall External Attainment level		3	

Attainment table	
0-69%	1
70-80%	2
>80%	3

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## Overall Course Outcome Attainment

SPECIALIZATION	PHARMACEUTICS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	
Course:	HERBAL COSMETICS	Semester:	I-II

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT =  $0.25 \cdot \text{INT} + 0.75 \cdot \text{EXT}$



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COURSE OUTCOMES

CO1	Students will know about the raw materials used in herbal techniques.											
CO-PO Mapping												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	3	3	3	2	3	2	-	3	3	-	3	2
CO avg(M)	3	3	3	2.0	3.0	2	-	3	3	-	3	2
Attainment Level*	3	3	3	0.7	0.7	0.60	-	3	3.0	-	3	0.60



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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmcity, Hyderabad - 501 512.



Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		PHARMACEUTICS	Academic Year:			2022-2023	
Branch & Section:		M PHARM	Exam:			MID - I	
Course/Sub:		NEUTRACEUTICAL	Year/Semester:			I-II	
		CO1	C02	C02	C03		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5</b>
1	22GN1S0301	5		4		9	5
2	22GN1S0302	4		5		6	5
3	22GN1S0303		4		5	9	5
4	22GN1S0304		4	5		10	5
5	22GN1S0305	4			5	8	5
6	22GN1S0306	4		5		9	5
7	22GN1S0307		5		4	1	5
8	22GN1S0308	4		4		8	5
9	22GN1S0309		4	5		7	5
10	22GN1S0310	4			5	8	5
11	22GN1S0311	5	4			10	5
12	22GN1S0312		4	4		8	5
13	22GN1S0313	5			4	9	5
No. of students attempted		8	6	7	5	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		8	6	7	5	12	13
% of Students > 50%		100.0	100	100	100.0	92.31	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



*[Handwritten Signature]*

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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		PHARMACEUTICS	Academic Year:			2022-23	
Branch & Section:		M PHARM	Exam:			MID - II	
Course/Sub:		NEUTRACEUTICALS	Year/Semester:			I-II	
		CO3	C03	C04	C05		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
Maximum Marks		5	5	5	5	10	5
1	22GN1S0301		5		5	10	5
2	22GN1S0302			5	4	8	5
3	22GN1S0303	4			5	9	5
4	22GN1S0304	5		4		9	5
5	22GN1S0305		4	5		9	5
6	22GN1S0306	4		5		8	5
7	22GN1S0307	4	5			9	5
8	22GN1S0308			5	5	9	5
9	22GN1S0309	5	4			10	5
10	22GN1S0310	5			3	8	5
11	22GN1S0311		4	5		9	5
12	22GN1S0312			3	4	8	5
13	22GN1S0313	5		5		10	5
No. of students attempted		7	5	8	6	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	5	8	6	13	13
% of Students > 50%		100.0	100	100.0	100	100	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



  
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<b>Department:</b>	<b>B PHARMACY</b>		
<b>Course Outcome Attainment External Examination</b>			
<b>SPECIALIZATION</b>	PHARMACEUTICS	<b>Academic Year:</b>	2022-23
<b>Branch &amp; Section:</b>	M PHARM	<b>Exam:</b>	EXTERNAL
<b>Course:</b>	MNEUTRACEUTICALS	<b>Year/Semister:</b>	I-II

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	22GN1S0301	35
2	22GN1S0302	45
3	22GN1S0303	35
4	22GN1S0304	36
5	22GN1S0305	54
6	22GN1S0306	34
7	22GN1S0307	56
8	22GN1S0308	48
9	22GN1S0309	48
10	22GN1S0310	37
11	22GN1S0311	39
12	22GN1S0312	39
13	22GN1S0313	44
No. of students who attempted the subject		13
Max. Marks		75
No. of students secured > 26 marks		13
Percentage of students secured > 26 marks		94.6
<b>Overall External Attainment level</b>		<b>3</b>

Attainment table	
0-69%	1
70-80%	2
>80%	3



  
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## Overall Course Outcome Attainment

SPECIALIZATION	PHARMACEUTICS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	
Course:	NEURACEUTICALS	Semister:	I-II

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25\*INT + 0.75\*EXT



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COURSE OUTCOMES

CO	Students will know the importance of neutraceuticals in various common problems with cincept of free radicles											
CO-PO Mapping												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	3	3	3	2	3	2	-	3	3	-	3	2
CO avg(M)	3	3	3	2.0	3.0	2	-	3	3	-	3	2
Attainment Level*	3	3	3	0.7	0.7	0.60	-	3	3.0	-	3	0.60



  
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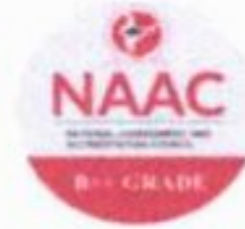




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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Romoji Filmcity, Hyderabad - 501 512.



Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		PHARMACEUTICS		Academic Year:		2021-2023	
Branch & Section:		M PHARM		Exam:		MID - I	
Course/Sub:		SCALE UP & TECH		Year/Semister:		II-I	
		CO1	C02	C02	C03		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5</b>
1	21GNISO301	5		4		9	5
2	21GNISO302	4		5		6	5
3	21GNISO303		4		5	9	5
4	21GNISO304		4	5		10	5
5	21GNISO305	4			5	8	5
6	21GNISO306	4		5		9	5
7	21GNISO307		5		4	1	5
8	21GNISO308	4		4		8	5
9	21GNISO309		4	5		7	5
10	21GNISO310	4			5	8	5
11	21GNISO311	5	4			10	5
12	21GNISO312		4	4		8	5
13	21GNISO313	5			4	9	5
No. of students attempted		8	6	7	5	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		8	6	7	5	12	13
% of Students > 50%		100.0	100	100	100.0	92.31	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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# AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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Gunthapally (V), Abdullapurmet (M), R.R. Dist., Near Ramoji Filmcity, Hyderabad - 501 512.



Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		PHARMACEUTICS		Academic Year:		2022-23	
Branch & Section:		M PHARM		Exam:		MID - II	
Course/Sub:		STT		Year/Semester:		II-I	
		CO3	C03	C04	C05		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		5	5	5	5	10	5
1	21GN1SO301		5		5	10	5
2	21GN1SO302			5	4	8	5
3	21GN1SO303	4			5	9	5
4	21GN1SO304	5		4		9	5
5	21GN1SO305		4	5		9	5
6	21GN1SO306	4		5		8	5
7	21GN1SO307	4	5			9	5
8	21GN1SO308			5	5	9	5
9	21GN1SO309	5	4			10	5
10	21GN1SO310	5			3	8	5
11	21GN1SO311		4	5		9	5
12	21GN1SO312			3	4	8	5
13	21GN1SO313	5		5		10	5
No. of students attempted		7	5	8	6	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	5	8	6	13	13
% of Students > 50%		100.0	100	100.0	100	100	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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Department:		B PHARMACY	
Course Outcome Attainment External Examination			
SPECIALIZATION	PHARMACEUTICS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	EXTERNAL
Course:	STT	Year/Semester:	II-I
S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)	
1	21GNISO301		
2	21GNISO302	45	
3	21GNISO303	35	
4	21GNISO304	36	
5	21GNISO305	54	
6	21GNISO306	34	
7	21GNISO307	56	
8	21GNISO308	48	
9	21GNISO309	48	
10	21GNISO310	37	
11	21GNISO311	39	
12	21GNISO312	39	
13	21GNISO313	44	
No. of students who attempted the subject		12	
Max. Marks		75	
No. of students secured > 26 marks		13	
Percentage of students secured > 26 marks		94.6	
Overall External Attainment level		3	

Attainment table	
0-69%	1
70-80%	2
>80%	3



  
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## Overall Course Outcome Attainment

SPECIALIZATION	PHARMACEUTICS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	
Course:	STT	Semester:	II-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT = 0.25\*INT + 0.75\*EXT



  
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COURSE OUTCOMES

CO1	Manage the scale up process in pharmaceutical industry
CO2	Assist in technology transfer
CO3	Establish safety guidelines

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	3	3	2	2	2	2	-	3	2	-	3	2
CO2	1	3	3	2	2	2	-	2	1	-	3	2
CO3	1	3	3	2	2	2	-	2	1	-	2	3
CO avg(M)	2	3	2.7	2.0	2.0	2	-	2	1	-	2.667	2
Attainment Level*	0	3	2.4	1.3	1.3	1	-	1	1	-	2.25	1



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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		PHARMACEUTICS		Academic Year:		2021-2023	
Branch & Section:		M PHARM		Exam:		MID - I	
Course/Sub:		COSMETIC SCIENC		Year/Semester:		II-I	
		CO1	C02	C02	C03		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>5</b>
1	21GNISO301	5		4		9	5
2	21GNISO302	4		5		6	5
3	21GNISO303		4		5	9	5
4	21GNISO304		4	5		10	5
5	21GNISO305	4			5	8	5
6	21GNISO306	4		5		9	5
7	21GNISO307		5		4	1	5
8	21GNISO308	4		4		8	5
9	21GNISO309		4	5		7	5
10	21GNISO310	4			5	8	5
11	21GNISO311	5	4			10	5
12	21GNISO312		4	4		8	5
13	21GNISO313	5			4	9	5
No. of students attempted		8	6	7	5	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		8	6	7	5	12	13
% of Students >50%		100.0	100	100	100.0	92.31	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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Department:		B PHARMACY					
Course Outcome Attainment - Internal Assessments							
SPECIALIZATION		PHARMACEUTICS	Academic Year:			2022-23	
Branch & Section:		M PHARM	Exam:			MID - II	
Course/Sub:		CS	Year/Semister:			II-I	
		<b>CO3</b>	<b>C03</b>	<b>C04</b>	<b>C05</b>		
Sl.No	Roll Number	Question No.				Objective	Assignment
		Q1	Q2	Q3	Q4		
<b>Maximum Marks</b>		5	5	5	5	10	5
1	21GNISO301		5		5	10	5
2	21GNISO302			5	4	8	5
3	21GNISO303	4			5	9	5
4	21GNISO304	5		4		9	5
5	21GNISO305		4	5		9	5
6	21GNISO306	4		5		8	5
7	21GNISO307	4	5			9	5
8	21GNISO308			5	5	9	5
9	21GNISO309	5	4			10	5
10	21GNISO310	5			3	8	5
11	21GNISO311		4	5		9	5
12	21GNISO312			3	4	8	5
13	21GNISO313	5		5		10	5
No. of students attempted		7	5	8	6	13	13
Max Marks Question wise		5	5	5	5	10	5
Target 50%		2.5	2.5	2.5	2.5	5	2.5
No. of Students above 50%		7	5	8	6	13	13
% of Students > 50%		100.0	100	100.0	100	100	100
Attainment Level		3	3	3	3	3	3

Attainment table	
0-69%	1
70-80%	2
>80%	3



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<b>Department:</b>	<b>B PHARMACY</b>		
<b>Course Outcome Attainment External Examination</b>			
<b>SPECIALIZATION</b>	PHARMACEUTICS	<b>Academic Year:</b>	2022-23
<b>Branch &amp; Section:</b>	M PHARM	<b>Exam:</b>	EXTERNAL
<b>Course:</b>	COSMETIC SCIENCE	<b>Year/Semister:</b>	II-I

S.NO.	HALLTICKET NO	TOTAL(Max. Score Marks)
1	21GN1SO301	
2	21GN1SO302	45
3	21GN1SO303	35
4	21GN1SO304	36
5	21GN1SO305	54
6	21GN1SO306	34
7	21GN1SO307	56
8	21GN1SO308	48
9	21GN1SO309	48
10	21GN1SO310	37
11	21GN1SO311	39
12	21GN1SO312	39
13	21GN1SO313	44
No. of students who attempted the subject		12
Max. Marks		75
No. of students secured > 26 marks		13
Percentage of students secured > 26 marks		94.6
Overall External Attainment level		3

0-69%	1
70-80%	2
>80%	3



  
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## Overall Course Outcome Attainment

SPECIALIZATION	PHARMACEUTICS	Academic Year:	2022-23
Branch & Section:	M PHARM	Exam:	
Course:	CPSMETIC SCIENCE	Semester:	I-I

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal Exam(Avg.)	University Exam	Overall Attainment
Course outcome - 1	3	-	3	3	3
Course outcome - 2	3	-	3	3	3
Course outcome - 3	3	3	3	3	3
Course outcome - 4	-	3	3	3	3
Average			3	3	3

OVERALL ATTAINMENT OF THE SUBJECT =  $0.25*INT + 0.75*EXT$



  
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COURSE OUTCOMES

CO1	Formulate and evaluate various cosmetic products											
CO2	know the key products used in cosmetics											
CO3	Recognize the role of ingredients used in cosmetics											
CO-PO Mapping												
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2
CO1	3	3	2	2	2	2	-	3	1	-	3	2
CO2	1	3	3	2	2	2	-	2	1	-	3	2
CO3	1	3	3	2	2	2	-	2	1	-	2	3
CO avg(M)	2.5	3	2.7	2.0	2.0	2.5	-	2.5	1	-	2.667	2.5
Attainment	2.4	3	2.4	1.3	1.3	2.4	-	2.4	2.4	-	2.25	2.4



  
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