

Laureate Institute of Pharmacy, VPO Kathog, Jawalamukhi, Distt. Kangra (HP)

ATTAINMENT MONITORING COMMITTEE

1.1 Purpose

The Attainment monitoring committee (AMC) has been formed for monitoring of institute activities related with aspects with curriculum. The attainment of the COs and POS are reviewed and monitored by the attainment monitoring committee.

The targets set for attainment of the outcomes are reviewed periodically and the modalities of measuring the outcomes are also finalized during the AMC meeting.

The roles and responsibilities of AMC are as follows:

- Monitoring the achievements of Course Outcomes (COs), Program Outcomes (POs).
- Evaluating program effectiveness and proposing necessary changes.
- Preparing periodic reports on program activities, progress, status
- Motivating the faculty and students towards attending workshops, developing projects, working models, paper publications and engaging in research activities.
- Interacting with students facilitating the achievement of COs, POs.
- Interacting with stakeholders regarding the improvement of COs, POs.
- Setting Target & Gap analysis

1.2 Constitution of the Committee

The Principal shall appoint "Attainment Monitoring Committee" for the purpose of attainment of the COs and POS in the institute by various subject teachers. The constitution of the committee shall be effective from August 2022. The meeting of committee shall be half yearly.

1.3 Composition of the Committee

The Attainment monitoring committee shall consist of: - "Principal cum Director" of the institute as Chairperson; "Head of Departments" as Academic members and "Class co-coordinators" as "Members for the committee.

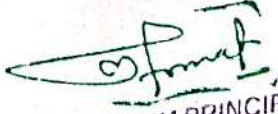

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Committee Members

Sr. No.	Name	Designation
1	Dr. M. S. Ashawat	Director cum Principal
2	Dr. CPS Verma	HOD (Pharmacognosy) Dean Student Welfare
3	Dr. Pravin Kumar	HOD (Pharmaceutics)
4	Dr. Amar Deep Ankalgi	HOD (PA & QA) 
5	Dr. Suresh Verma	HOD (Pharmacology)
6	Mr. Nishant Goutam	Class Coordinator/ Member
7	Ms. RinuRana	
8	Mr. Shiv Kumar	
9	Dr. Shammy Jindal	


(Director cum Principal)
Chairperson


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Minutes of Meeting

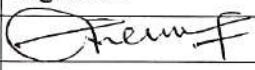
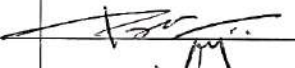
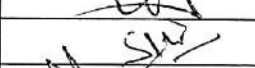
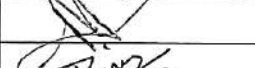
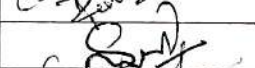
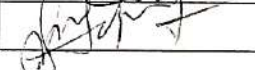
Date of Meeting: 28th August 2022

Venue: Principal Office

Time: 11:00 AM

The meeting started at 11.00 AM at the venue.

- The Chairperson welcomed all the members.
- All the committee members are present in the respective meeting to discuss all the points related with the attainment level of course outcomes and programme outcome for the upcoming academic session.
- The target value of 60% is assigned for each subject for upcoming academic session after thorough discussion.

Sr. No.	List of Presentees	Signature
1	Dr. CPS Verma	
2	Dr. Pravin Kumar	
3	Dr. Amar Deep Ankalgi	
4	Dr. Suresh Verma	
5	Mr. Nishant Goutam	
6	Ms. Rinu Rana	
7	Mr. Shiv Kumar	
8	Dr. Shammy Jindal	


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Minutes of Meeting

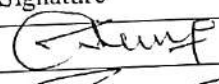
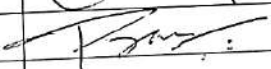
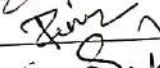
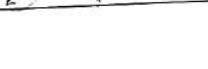
Date of Meeting: 05th November 2022

Venue: Principal Office

Time: 10:00 AM

The meeting started at 10.00 AM at the venue.

- The Chairperson welcomed all the members.
- The Head of Departments presented the subject wise data related with the attainment level of course outcomes and programme outcome for the First Sessional Examination.
- The problems faced by the students which are related with any course are highlighted by the class co-coordinators.
- The corrective measures for the problems faced by the students in particular subject are suggested by the respected Chairperson which shall help to tackle less attainment level.

Sr. No.	List of Presentees	Signature
1	Dr. CPS Verma	
2	Dr. Pravin Kumar	
3	Dr. Amar Deep Ankalgi	
4	Dr. Suresh Verma	
5	Mr. Nishant Goutam	
6	Ms. Rinu Rana	
7	Mr. Shiv Kumar	
8	Dr. Shammy Jindal	


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Minutes of Meeting

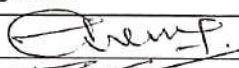
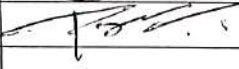
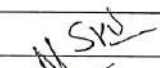
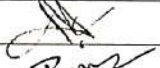
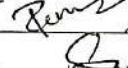
Date of Meeting: 18th Feb. 2023

Venue: Principal Office

Time: 11:00 AM

The meeting started at 11.00 AM at the venue.

- The meeting started with welcome note by respected Chairperson.
- All the committee members are present in the respective meeting to discuss all the points related with the attainment level of course outcomes and programme outcome for the Second Sessional Examination, and upcoming academic session.
- The target value of 60% is assigned for each subject for upcoming academic session and further the measures are suggested for the up-gradation of attainment.

Sr. No.	List of Presentees	Signature
1	Dr. CPS Verma	
2	Dr. Pravin Kumar	
3	Dr. Amar Deep Ankalgi	
4	Dr. Suresh Verma	
5	Mr. Nishant Goutam	
6	Ms. Rinu Rana	
7	Mr. Shiv Kumar	
8	Dr. Shammy Jindal	


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Chairperson


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Minutes of Meeting

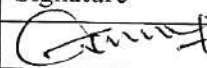
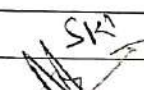
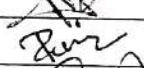
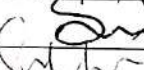
Date of Meeting: 15th April 2023

Venue: Principal Office

Time: 11:00 AM

The meeting started at 11.00 AM at the venue.

- The Chairperson welcomed all the members.
- The Head of Departments presented the subject wise data related with the attainment level of course outcomes and programme outcome for the First Sessional Examination.
- The problems faced by the students which are related with any course are highlighted by the class co-coordinators.
- The corrective measures for the problems faced by the students in particular subject are suggested by the respected Chairperson.

Sr. No.	List of Presentees	Signature
1	Dr. CPS Verma	
2	Dr. Pravin Kumar	
3	Dr. Amar Deep Ankalgi	
4	Dr. Suresh Verma	
5	Mr. Nishant Goutam	
6	Ms. Rinu Rana	
7	Mr. Shiv Kumar	
8	Dr. Shammy Jindal	


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COURSE FILE



DEPARTMENT OF PHARMACEUTICS

ACADEMIC SESSION: FEB. -JUNE 2023

Course Name	B. Pharmacy
Student's Batch	2020-2024
Semester	6th (A)
Name of Subject	Biopharmaceutics and Pharmacokinetics
Subject Code	BP-604T
Faculty Incharge	Mr. Dev Raj

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Mapping of Course outcome and Program outcome

SESSIONAL EXAM – FIRST						
Code: BP 604T		Subject: Biopharmaceutics and Pharmacokinetics			Semester: VI	
MM:30						
Date: 03/04/2023		Duration: 90 Min.			Staff: Mr. Dev Raj	
Q. No.	Questions	Marks	CO	BL	PO	
Section A	Short Answer questions (Compulsory)	10	1,2,3,4	L1,L2,L4	1,2,6,7,8,11	
Section B	Answer any one	10				
1	Explain the factors influencing the drug absorption through GIT.		1,2,3	L1, L2,L3,L5	1,2,3,5,6,7,9,11	
2	Discuss in detailed about the tissue permeability of drug in body.		1,2,3	L1, L2,L3,L5,L6	1,2,3,5,6,7,9,11	
Section c	Answer any two	10				
1	Discuss the process of renal excretion of drugs.		1,2,3	L1, L2,L3,L5	1,2,3,4,5,6,7,9,11	
2	Elaborate the binding of drug to blood protein and blood cells.		1,2,3	L1, L2,L3,L5	1,2,5,6,7,9,11	
3	Define Bioavailability. Discuss the methods for determination of bioavailability.		1,2,3,4	L1, L2,L3,L4, L5	1,2,3,4,5,6,7,9,11	

CO-Course Outcome:

BP604T.1	Understand the basic concepts in Biopharmaceutics and pharmacokinetics and their significance.
BP604T.2	Use of plasma drug concentration-time data to calculate the pharmacokinetic parameters to describe the kinetics of drug-absorption, distribution, metabolism, excretion, elimination.
BP604T.3	To understand the concepts of bioavailability and bioequivalence of drug products and their significance.


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BP604T.4	Understand various pharmacokinetic parameters, their significance & applications.
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BL: Bloom Taxonomy

L1-Remember	L2- Understand	L3-Apply	L4 -Analyze	L5-Evaluate	L-6- Create
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PO-Programme Objectives:

1..	Pharmacy Knowledge	7.	Pharmaceutical Ethics
2.	Planning Abilities	8.	Communication
3.	Problem Analysis	9.	The Pharmacist & Society
4.	Modern Tool Usage	10.	Environment & Sustainability
5.	Leadership Skill	11.	Life Long Learning
6.	Professional Identity		

CO-PO Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP604T.1	3	2	3	2	2	3	2	1	2	-	3
BP604T.2	3	2	3	3	1	3	2	1	1	-	3
BP604T.3	3	2	3	3	2	3	2	1	2	-	3
BP604T.4	3	2	3	3	1	3	2	1	2	-	3
Averages	3	2	3	2.7	1.5	3	2	1	1.7	-	3

Note:

Correlation levels	Slight (Low)	Moderate (Medium)	Substantial (High)	no correlation
	1	2	3	--

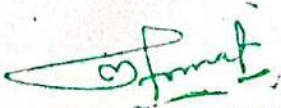

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CO/PO ATTAINMENTS

Attainments of POs and COs for first Sessional

Table No.1 Assessment of course outcome

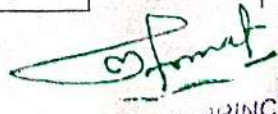
Course Outcome	CO1		CO2		CO3		CO4	
	Q. No.	Avg.%	Q. No.	Avg.%	Q. No.	Avg.%	Q. No.	Avg%
Measure	Q1 MCQ	27%	Q1MCQ	27%	Q1 MCQ	27%	Q1 MCQ	27%
	Q1	54%	Q1	54%	Q1	54%	Q1	00%
	Q2	00%	Q2	00%	Q2	00%	Q2	00%
	Q1	43%	Q1	43%	Q1	43%	Q1	00%
	Q2	13%	Q2	13%	Q2	13%	Q2	00%
	Q3	60%	Q3	60%	Q3	60%	Q3	60%
Total Average		33%		33%		33%		15%


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Attainment of PO's

Course outcome mapping with Program outcome (PO)

PO1		Level of Mapping	PO's Assessment	PO's Attainment
CO1	33%	3	29%	NO
CO2	33%	3		
CO3	33%	3		
CO4	15%	3		
PO2				
CO1	33%	2	29%	NO
CO2	33%	2		
CO3	33%	2		
	15%	2		
PO3				
CO1	33%	3	29%	NO
CO2	33%	3		
CO3	33%	3		
CO4	15%	3		
PO4				
CO1	33%	3	29%	NO
CO2	33%	3		
CO3	33%	3		
CO4	15%	3		
PO5				
CO1	33%	2	29%	NO
CO2	33%	2		
CO3	33%	2		
CO4	15%	2		
PO6				
CO1	33%	3	29%	NO
CO2	33%	3		
CO3	33%	3		
	15%	3		
PO7				
CO1	33%	2	29%	NO
CO2	33%	2		
CO3	33%	2		
CO4	15%	2		
PO8				
CO1	33%	1	29%	NO
CO2	33%	1		
CO3	33%	1		
CO4	15%	1		


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PO9				
CO1	33%	2	29%	NO
CO2	33%	2		
CO3	33%	2		
	15%	2		
PO11				
CO1	33%	3	29%	NO
CO2	33%	3		
CO3	33%	3		
CO4	15%	3		

*PO's Attainment=more than 60%=Yes, Less than 60%=No

PO's Assessment= $(33 \times 3 + 33 \times 3 + 33 \times 3 + 15 \times 3) / (3 + 3 + 3 + 3) = 29\%$


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Mapping of Course outcome and Program outcome

SESSIONAL EXAM -SECOND							
Code: BP 604T		Subject: Biopharmaceutics and Pharmacokinetics				Semester: VI	
MM:30							
Date: 01/06/2023		Duration: 90 Min.			Staff : Mr. Dev Raj		
Q. No.	Questions	Marks	CO	BL	PO		
Section A	Short Answer questions (Compulsory)	10	1,2,3,4	L1,L2,L3	1,2,5,6,7,8,9,11		
Section B	Answer any one	10					
1	Derive the equation for one compartment open model for first order extravascular administration. Explain the sigma minus method for estimation of KE.		1,2,3,4	L1,L2,L3,L5,L6	1,2,5,6,7,8,9,11		
2	Illustrate the Michaelis menten equation for estimation of Vmax and Km.		1,2,4	L1,L2,L3,L4,L6	1,2,4,5,6,7,8,9,11		
Section c	Answer any two	10					
1	Elaborate the factors for causes of non linearity.		1,2,3,4	L1,L2,L3,L4,L6	1,2,5,6,7,8,9,11		
2	Explain the different levels of IVIVC.		1,2,3,4	L1,L2,L3	1,2,5,6,7,8,9,11		
3	Summarize the Loo-Riegelman method for estimation of Ka in two compartment model		1,2,3,4	L1,L2,L3,L4,L5,L6	1,2,4,5,6,7,8,9,11		


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CO-Course Outcome:

BP604T.1	Understand the basic concepts in Biopharmaceutics and pharmacokinetics and their significance.
BP604T.2	Use of plasma drug concentration-time data to calculate the pharmacokinetic parameters to describe the kinetics of drug absorption, distribution, metabolism, excretion, elimination.
BP604T.3	To understand the concepts of bioavailability and bioequivalence of drug products and their significance.
BP604T.4	Understand various pharmacokinetic parameters, their significance & applications.

BL: Bloom Taxonomy

L1-Remember	L2- Understand	L3-Apply	L4 -Analyze	L5-Evaluate	L-6- Create
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PO-Programme Objectives:

1.	Pharmacy Knowledge	7.	Pharmaceutical Ethics
2.	Planning Abilities	8.	Communication
3.	Problem Analysis	9.	The Pharmacist & Society
4.	Modern Tool Usage	10.	Environment & Sustainability
5.	Leadership Skill	11.	Life Long Learning
6.	Professional Identity		

CO-PO Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO 11
BP604T.1	3	2	3	2	-	2	3	1	2	-	3
BP604T.2	3	2	3	3	-	2	3	1	2	-	3
BP604T.3	3	2	3	2	-	2	3	1	2	-	3
BP604T.4	3	2	3	3	-	2	3	1	2	-	3
Average	3	2	3	2.5	-	2	3	1	2	-	3


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Note:

Correlation levels	Slight (Low)	Moderate (Medium)	Substantial (High)	no correlation
	1	2	3	--

CO/PO ATTAINMENTS

Attainments of POs and COs for first Sessional

Table No.1 Assessment of course outcome

Course Outcome	CO1		CO2		CO3		CO4	
	Q. No.	Avg. %	Q. No.	Avg. %	Q. No.	Avg. %	Q. No.	Avg %
Measure	Q1 MCQ	26%	Q1 MCQ	26%	Q1 MCQ	26%	Q1 MCQ	26%
	Q1	60%	Q1	60%	Q1	60%	Q1	60%
	Q2	40%	Q2	40%	Q2	00%	Q2	40%
	Q1	76%	Q1	76%	Q1	76%	Q1	76%
	Q2	57%	Q2	57%	Q2	57%	Q2	57%
	Q3	60%	Q3	60%	Q3	60%	Q3	60%
Total Average		53%		53%		47%		53%


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Attainment of PO's

Course outcome mapping with Program outcome (PO)

PO1		Level of Mapping	PO's Assessment	PO's Attainment
CO1	53%	3	52%	NO
CO2	53%	3		
CO3	47%	3		
CO4	53%	3		
PO2				
CO1	53%	2	52%	NO
CO2	53%	2		
CO3	47%	2		
	53%	2		
PO3				
CO1	53%	3	52%	NO
CO2	53%	3		
CO3	47%	3		
CO4	53%	3		
PO4				
CO1	53%	3	52%	NO
CO2	53%	3		
CO3	47%	3		
CO4	53%	3		
PO6				
CO1	53%	2	52%	NO
CO2	53%	2		
CO3	47%	2		
	53%	2		
PO7				
CO1	53%	3	52%	NO
CO2	53%	3		
CO3	47%	3		
CO4	53%	3		
PO8				
CO1	53%	1	52%	NO
CO2	53%	1		
CO3	47%	1		
CO4	53%	1		
PO9				
CO1	53%	2	52%	NO
CO2	53%	2		


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CO3	47%	2		
	53%	2		
PO11				
CO1	53%	3	52%	NO
CO2	53%	3		
CO3	47%	3		
CO4	53%	3		

*PO's Attainment=more than 60%=Yes, Less than 60%=No

PO's Assessment= $(53 \times 3 + 53 \times 3 + 47 \times 3 + 53 \times 3) / (3 + 3 + 3 + 3) = 52\%$


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 DISTT. KANGRA (H.P.)

First Sessional Examination

Roll No.	Sec. A	Q1	Sec B	Q2	Q1	Sec. C	Q2	Q3	Total
2013114001	7	4	-	-	3	-	3	-	20
2013114003	7	4	-	-	-	-	1	-	15
2013114004	6	3	-	-	1	-	1	-	11
2013114005	3	5	-	-	3	-	2	-	13
2013114006	-	-	-	-	-	-	-	-	-
2013114007	2	3	-	-	2	-	1	-	09
2013114008	4.5	6.5	-	-	2.5	-	2	-	16
2013114009	4	6	-	-	2	-	2	-	14
2013114010	6	6	-	-	3	-	-	3	18
2013114011	5	-	-	-	-	-	1	-	06
2013114012	3.5	2	-	-	-	-	-	3	10
2013114013	3.5	5	-	-	-	-	1	3	13
2013114014	2	2	-	-	-	-	1	2	07
2013114015	2	2	-	-	-	-	1	2	05
2013114016	0.5	5	-	-	-	-	2	2.5	13
2013114017	1	2	-	-	-	-	-	-	03
2013114018	1	5	-	-	-	-	-	-	06
2013114019	7	8	-	-	-	-	4	4	23
2013114020	5	6	-	-	2.5	-	-	2.5	16
2013114021	4.5	7	-	-	-	-	2	2	16
2013114022	3	3	-	-	2	-	-	2	10
2013114023	-	6	-	-	-	-	1	1	08
2013114024	4	4	-	-	-	-	1	2	10+11=11
2013114025	3.5	3	-	-	-	-	1	1	09
2013114026	1	06	-	-	-	-	-	1	05
2013114027	2.5	7	-	-	-	-	1	3	14
2013114028	-	5	-	-	-	-	-	3	08
2013114029	1	7	-	-	-	-	-	-	05
2013114030	2	8	-	-	-	-	2	-	12
2013114031	2.5	4	-	-	-	-	-	-	10
2013114032	5	3	-	-	-	-	-	-	15
2013114033	5	7	-	-	3.5	-	-	-	14

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 DISTT. KANGRA (H)

Roll No.	Sec A	Sec B	Sec C
		α_1	α_2
201311101			
201311102	4.5	2	10
201311103	5.5	7	20
201311104	6	4	11
201311105	5.5	1	11
201311106	6.5	4	20
201311107	1.5	3	25
201311108	-	4	24
201311109	3	3	25
201311110	5.5	3	20
201311111	5	4.5	14
201311112	2.5	5	12
201311113	3	3	11
201311114	5.5	4	14
201311115	5.5	7	17
201311116	6	4	17
201311117	7	4	20
201311118	5	7	17
201311119	4.5	6	15
201311120	1.5	3	15
201311121	4	8	25
201311122	3.5	7	21
201311123	4.5	7	16
2102311101	9	5	19
2102311102	6	5	2
2102311103	7	5	15
2102311104	1.5	6	17
2102311105	5	6	12
		2.5	16

% Attempt $\frac{16}{53}$

$\frac{31}{57}$

$\frac{10}{27}$

$\frac{05}{37}$

$\frac{24}{40}$

37%


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 TEH. JAWALAN KHAI
 DISTT. KANGRA

% attempt

43%

13%

60%

22%

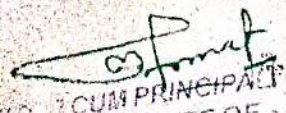
62%

67%

2nd Sessionary Examination
Sec. B.

Sec. C

Roll No.	Q.O.A	S ₁	S ₂	S ₃	Q ₂	Q ₃	Total
2001311901	1	—	1	4	3	—	11
2001311902	—	1	—	—	2	—	3
2001311903	—	—	—	3	2	—	5
2001311904	2	—	—	—	—	—	—
2001311905	3	2	—	—	—	—	5
2001311906	5	1	—	2	—	—	13
2001311907	1	3	—	3	2	—	9
2001311908	—	—	—	4	2	—	6
2001311909	3	1	—	2	—	—	12
2001311910	5	—	3	1	2	—	11
2001311911	3	5	—	1	2	—	11
2001311912	3-5	7	—	3	1	—	15
2001311913	—	3	—	—	1	—	4
2001311914	5	5	—	5	3	—	18
2001311915	—	2	—	—	—	0	2
2001311916	1/2	—	2	3	3	—	12
2001311917	6	8	—	4	4	—	22
2001311918	6	7	—	3	1	—	17
2001311919	—	—	—	—	—	—	—
2001311920	4	4	—	2	—	—	10
2001311921	0	1	—	2	0	—	3
2001311922	4	7	—	2	2	—	15
2001311923	2	5	—	2	2	—	12
2001311924	0	3	—	1	—	—	4
2001311925	2	7	—	—	—	—	9
2001311926	0	7	—	—	—	—	7
2001311927	—	—	—	—	—	—	—
2001311928	3	7	—	3	2	—	15
2001311929	3	5	—	—	—	—	8
2001311930	6	7	—	4	3	—	20
2001311931	4	6	—	4	—	3	17
2001311932	—	—	—	—	—	—	—
2001311933	—	—	—	—	—	—	—
2001311934	—	—	—	—	—	—	—
2001311935	—	—	—	—	—	—	—
2001311936	—	—	—	—	—	—	—
2001311937	—	—	—	—	—	—	—
2001311938	—	—	—	—	—	—	—
2001311939	—	—	—	—	—	—	—
2001311940	—	—	—	—	—	—	—
2001311941	—	—	—	—	—	—	—
2001311942	—	—	—	—	—	—	—
2001311943	—	—	—	—	—	—	—
2001311944	—	—	—	—	—	—	—
2001311945	—	—	—	—	—	—	—
2001311946	—	—	—	—	—	—	—
2001311947	—	—	—	—	—	—	—
2001311948	—	—	—	—	—	—	—
2001311949	—	—	—	—	—	—	—
2001311950	—	—	—	—	—	—	—
2001311951	—	—	—	—	—	—	—
2001311952	—	—	—	—	—	—	—
2001311953	—	—	—	—	—	—	—
2001311954	—	—	—	—	—	—	—
2001311955	—	—	—	—	—	—	—
2001311956	—	—	—	—	—	—	—
2001311957	—	—	—	—	—	—	—
2001311958	—	—	—	—	—	—	—
2001311959	—	—	—	—	—	—	—
2001311960	—	—	—	—	—	—	—
2001311961	—	—	—	—	—	—	—
2001311962	—	—	—	—	—	—	—
2001311963	—	—	—	—	—	—	—
2001311964	—	—	—	—	—	—	—
2001311965	—	—	—	—	—	—	—
2001311966	—	—	—	—	—	—	—
2001311967	—	—	—	—	—	—	—
2001311968	—	—	—	—	—	—	—
2001311969	—	—	—	—	—	—	—
2001311970	—	—	—	—	—	—	—
2001311971	—	—	—	—	—	—	—
2001311972	—	—	—	—	—	—	—
2001311973	—	—	—	—	—	—	—
2001311974	—	—	—	—	—	—	—
2001311975	—	—	—	—	—	—	—
2001311976	—	—	—	—	—	—	—
2001311977	—	—	—	—	—	—	—
2001311978	—	—	—	—	—	—	—
2001311979	—	—	—	—	—	—	—
2001311980	—	—	—	—	—	—	—
2001311981	—	—	—	—	—	—	—
2001311982	—	—	—	—	—	—	—
2001311983	—	—	—	—	—	—	—
2001311984	—	—	—	—	—	—	—
2001311985	—	—	—	—	—	—	—
2001311986	—	—	—	—	—	—	—
2001311987	—	—	—	—	—	—	—
2001311988	—	—	—	—	—	—	—
2001311989	—	—	—	—	—	—	—
2001311990	—	—	—	—	—	—	—
2001311991	—	—	—	—	—	—	—
2001311992	—	—	—	—	—	—	—
2001311993	—	—	—	—	—	—	—
2001311994	—	—	—	—	—	—	—
2001311995	—	—	—	—	—	—	—
2001311996	—	—	—	—	—	—	—
2001311997	—	—	—	—	—	—	—
2001311998	—	—	—	—	—	—	—
2001311999	—	—	—	—	—	—	—


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Run No.	Sec. A	Sec. B		Sec. C			Total
		O ₁	O ₂	O ₁	O ₂	O ₃	
20130101	4	6	-	4	3	-	11
20130104	4	1	-	3	-	3	16
20130107	4	4	-	3	-	2	16
20130110	4	3	-	5	-	4	22
20130113	7	3	-	4	3	-	22
20130116	7	4	-	5	4	-	23
20130119	4	4	-	3	2	-	13
20130122	4	6	-	4	3	-	14
20130125	3	4	-	3	-	-	8
20130128	3	3	-	3	3	-	12
20130131	5	4	-	3	4	-	17
20130203	6	4	-	4	1	-	14
20130206	7	7	-	4	-	-	17
20130209	3	5	-	4	3	-	22
20130212	2	2	-	2	-	-	11
20130215	6	3	-	1	-	-	5
20130218	5	4	-	4	4	-	24
20130221	5	4	2	4	4	-	15
20130224	7	5	1	3	4	-	21
20130227	7	1	7	4	5	-	23
20130301	4	2	-	1	-	-	6
20130304	6	7	-	4	-	-	17
20130307	4	6	-	3	3	-	16
20130310	6	4	-	4	4	-	18

13/50
Nathuram

2507

1.244mp

50/60

83%

LAUREAT
PHARMACEUTICAL
TEH. JAWALMUKHI
DISTT. KANGRA (H.P.)

28/05
12

60% 40%

76% 57% 50%

35/40

76%

40/60

77%

30/35

57%

35/60

58%

03/05

50%

05/60

98%

CO/PO Attainments

Attainment of Outcomes:

The Program Outcomes (POs) are accomplished through curriculum

Course Outcomes (COs) are defined for each course and they are mapped to POs in the CO/PO Mapping.

A set of performance evaluation criteria is used for quantitative assessment of COs

Thus the attainment of COs provides an evidence of attainment of POs.

Attainments of POs and Cos for Sessional Papers

1. First Check the CO's Covered by question in sessional exam from Mapping
2. Make the table for assessment of course outcome for each question attempted by the students. For example
 - I. Total number of students in the class is 100.
 - II. We had given the question no. 1 carrying marks 10. (We had given 08 marks for the successful attempted question.)
 - III. 65 students attempted the question no. 1. Out of 65, 60 students carries 08 marks. Then the average percentage will be calculated $60/65 \times 100 = 92\%$ or Calculate the Average percentage by using given formula.

Mechanism for the attainment of CO:

The student performance in continuous assessment exams is verified for each question.

$$\text{CO Assessment (Direct)} = \frac{\text{Number of students reached in answering the question}}{\text{Number of students attempted the question}}$$

e.g of Table No. 1 Assessment of course outcome

Course Outcome	CO1		CO2		CO3	
	Q	Avg. %	Q	Avg. %	Q	Avg. %
Measure	Q1	92	Q1	92	Q1	92
	Q2	75	Q2	75	Q2	75
	Q3	73	Q4	86	Q3	73
	Q4	86	Q5	92	Q5	92
	Q5	92	Q6	65	Q6	65
	Q6	65				
Total Average		91		91.7		91.7


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Attainment of PO's

Then make the table of Course outcome mapping with Program outcome with level from CO/PO Correlation table in mapping and calculate PO assessment. If the PO assessment is more than 70%, then PO attainment is achieved.

For example

Attainment of PO's

Course outcome mapping with Program outcome (PO1)

PO1		Level of Mapping	PO's Assessment	PO's Attainment
CO1	91	3	91.47 %	Yes
CO2	91.7	3		
CO3	91.7	3		
PO2				
CO1	91	3	91.47 %	Yes
CO2	91.7	3		
CO3	91.7	3		
PO3				
CO1	91	3	91.47 %	Yes
CO2	91.7	3		
CO3	91.7	3		
PO4				
CO1	91	3	91.47 %	Yes
CO2	91.7	3		
CO3	91.7	3		
PO11				
CO1	91	3	91.47 %	Yes
CO2	91.7	3		
CO3	91.7	3		

* PO's Attainment= more than 70%= Yes, Less than 70%= No

$$\text{PO1 Direct Assessment} = \frac{\sum(\text{level of mapping of PO with CO} \times \text{Average of CO attainment})}{\sum(\text{level of Mapping of PO with CO})}$$

$$\text{PO's Assessment} = (91 \times 3 + 91.7 \times 3 + 91.7 \times 3) / (3 + 3 + 3) = 91.47$$


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