

#### Attainment of COs and POs

The attainment levels of the Course Outcomes (COs) are calculated by making use of different assessment tools like

- Continuous internal evaluation (Sessional)
- University semester end examinations (External)

#### Internal assessment

In the Sessional examinations (Mid exams), the evaluation is done for a maximum of 25 Marks and two mid examinations are conducted per every semester, one at the middle and other, at the end of Semester. The marks obtained in these two examinations are used for CO attainment calculation.

The procedure adopted is,

- · Questions are mapped with COs (for both examinations)
- Attainment of a particular CO is calculated based on marks obtained and Max. marks allotted for a question, for all the students

The procedure is repeated for the other Sessional examination.

#### External assessment

In the University end examination, total marks obtained by each student, out of a maximum of 75 marks are considered, for calculation of attainment of COs.

The percentage of students, who attained a set average percentage of marks, (equal to or more than 60% of maximum marks) is considered for calculation purpose. This is compared with total number of students appearing for the examination.

#### Indirect assessment (feedback)

In addition to the direct assessment methods of calculation, feedback is collected from students, faculty, employers and alumni, on the level of attainment of COs, at the end of Semester. The data is collected and analysed.

#### Overall attainment of COs

For calculation of the attainment levels of COs, from the Sessional exams, the internal and indirect assessments (feedback) are given weightages of 80% and 20% and the component of attainment level is calculated for internal (Sessional) evaluation, in total.

For calculation of the attainment levels of COs, from external exams, the number of students scoring more than 60% marks in end exam and number of students appearing for the exam are considered and attainment levels are calculated.

The overall attainment of COs is obtained by considering 80% of the external component and 20% of the internal component.

#### PO Attainment

The assessment tools for obtaining the POs are

- · Direct Method.
- Indirect Method.

The COs are mapped with the POs using levels 3,2 and 1 considered as high, medium and low levels of correlation.

In direct method of attainment of POs, the CO attainment levels, calculated earlier are used. In the indirect method of attainment, the data is collected from

- · Graduate exit survey
- · Alumni Survey and
- · Employer survey

For calculation of the attainment level of each PO mapped, the direct and indirect methods are given weightages of 80% and 20%. For a Course titled Social and preventive pharmacy(BP802T) in the 8 semester of IV year B.Pharmacy, the CO attainment levels calculated, based on the Internal marks, external marks and feedback, with weightages of 80% and 20% for external and internal evaluation, are

5.N0	COURSE OUTCOME	ATTAINMENT	
1	CO1	2.143515	
2	CO2	2.158061	
3	CO3	2.126963	
4	CO4	2.142726	
5	CO5	2.154712	

The PO attainment levels for the same Course are PO 2.11.

PRINCIPAL

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PRINCIPAL

Name of the subject: Social & preventive pharmacy

Subject code: BP802T

	Name of the	Subject:		Social & Pr	reventive Ph	armacy	Ye	ar	IV Year	Sem	II Sem
Sub	jectCode:			BP802T	-		N	lid	£	I Mid Exam	inations
	CO 802.1	CO 802.1	CO 802.3	CO 802.2	CO 802.2	CO 802.2	CO 802.2	CO 802.1	CO 802.2	CO 802.1	
LIST	Q.NO.1	Q.NO.2	Q.NO.3	Q.NO.4	Q.NO.5	Q.NO.6	QNO.7	Q.NO.8	Q.NO.9	Q.NO.10	
Number of students appeared	101	101	101	101	99	35	66	98	101	2	
Number of students scored norethan 60%	96	96	95	83	94	31	60	77	93	2.	

PRINCIPAL

Name of the subject: Social & preventive pharmacy

Subject code: BP802T

	Name of the	Subject:	Sc	cial &Preve	ntive Pharm	acy	Y	ear	IV Year	Sem	II Sen
Sub	jectCode:		BP802T					/lid		II Mid Exam	inations
	CO	CO	CO Sup 4	CO	CO	CO (90) 1	CO	CO	K02-4	CO	
LIST	Q.NO.1	Q.NO.2	Q.NO.3	Q.NO.4	Q.NO.5	Q.NO.6	Q.NO.7	Q.NO.8	Q.NO.9	Q.NO.10	
Number of students appeared	99	100	100	100	.100	12	88	95	98	6	
Number of students scored morethan 60%	95	96	96	96	96	7	81	81	84	6	

PRINCIPAL

Name of the subject: Social & preventive pharmacy

Subject code: BP802T

## INTERNAL ATTAINMENT FROM DIRECT ASSESSMENT (SESSIONAL EXAMS) AND FEEDBACK FORM

#### SESSIONAL EXAMINATION

Each question of sessional examination is mapped with all course outcomes of that particular course and based on the question attempted by the students from the total, students who scored 60% and more than 60% of the particular question was computed and analyzed for the attainment.

#### MAPPING CALCULATION FOR SESSIONAL EXAMINATION

Number of students scoring 60% and more than 60%

Total number of students appeared

Example for I-mid exam Q.NO  $1 = 96 \div 101 \times 3 = 2.7623$ 

PRINCIPAL

Name of the subject: Social & preventive pharmacy

Subject code: BP802T

CO'S Mapping with internal examination questions	Q.NO.1	Q.NO.2	0.80.3	Q.NO.4	Q.NO.3	Q.NO.6	Q.N0.7	0.00.8	Q.NO.9	Q.NO. 10
CO802.1Acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide.	Y	-	234	Y	393		(F)	Y	:40	Y
CO802.2 Have a critical way of thinking based on current healthcare development.		Y	Y		Y	Y	Y		Y	-
CO 802.3 Evaluate alternative ways of solving problems related to health and pharmaceutical issues	20	*:	•				0.00	* -	-	-
CO 802.4 This course also introduced a number of national health programmes.	-	*:		•			0.00			
CO802.5Therolesofthepharmacist in thesecontextsarealsodiscussed.	-									

CO'S Mapping with internal examination questions	O'NO'I	Q.NO.2	Q.NO.3	Q.NO.4	Q.NO.5	Q.NO.6	Q.NO.7	Q.NO.8	O.NO.9	Q.NO. 10
CO802.1Acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide.		20	-	4	7.40	-	248	ş	14	
CO802.2 Have a critical way of thinking based on current healthcare development.		*:			0.0		(40)		-	
CO 802.3 Evaluate alternative ways of solving problems related to health and pharmaceutical issues	Y	Y	-		.8 <del>1</del> .8	Y	307			Y
CO 802.4 This course also introduced a number of national health programmes,	-	2	Y		(*)	(4)	3 <del>4</del> 5	t P	RINCIPA	
CO802.5Therolesofthepharmacist in thesecontextsarealsodiscussed.		†á	35	Y	Y		YMA	1 P	RINCIPA LLEGE OF	L

Name of the subject: Social & preventive pharmacy

Subject code: BP802T

CO's Magaing with internal continuition question	-0.564	Q3i0.2	QN0.5	0.804	GN03	QNOA	0.803	QNOI	QN09	0.8018	Emeri Adamsp MAT involvables and Adamsp	Assess
CORR. I Acquire high consciousness/realization of current/squence/anedto health and pharmaceutical problems within the country and worldwide.	2.851485	¥		2.4653465346535	2.8484848484848	4		2.357142857143		3		
CO882.2 Haves critical way of thinkingbasedoncurrent healthcaredevelopment.	•	2.851485148515	2 821782178318		2.8154818484848	2.657142857143	2.7272727272727	-	2.5623762376238	-	2.7190900000000 2.7190900000000	
CO 802.3 Evaluate alternative ways of solving problems related to healthand pharmaceutical issues	2	. P.		1 1		-	- 5			-	abity/fill	alicc/o
CO802.4 Thiscourse also introduced anumber of national healthprogrammes.		***		2	*		- 5	,		-	#DN/#	Miller
COR02.5Therolesofthe pharmaciatinthese contesture also discussed.	-8	( +i)	*		*		- N	- 9	+	12	epsylar .	40000

COS Magaingseith internal enquiration questions	Q(34p)	QN0.2	0.003	Q.NO.8	QN0.1	QNOA	QNO.1	0.008	Q10 s	Q3VQ.10	Direct/Union will assembles and)Assenge	Attaces
COM2.1Acquire high consciousness/healtastion of currentissuesrelated to health and pharmacoutical problems within the country and worldwide.	*			0.8	+	194		14	- 2	- 1		
CO502.2 Haves critical way of thinkingbasedon.current healthcaredevelopment.	+:	10			*					,	#50,000 #50,000	HENVIOLE .
COM2.) Evaluate alternative ways of solving problems related to healthand sharmateutics issues	2.878788	2.88	+	94		1.75		5.	1 × .	3	2 12 7 11 11 MIN SER	
CO892.4 Thiscourse also introduced prumberof national healthprogrammes.			2.86	- 4		-			PRINCIPAL		3.728714380714	
CO802.5Therolesofthe pharmapistinthese contextsare also discussed.		165		2.88	2.88		2,761,3636363636		PRINCIPAL COLLEGE OF P	HARMA		1.115051

C.T.M. Cross Roads, MADANAPALLE Annamayya (District), A.P.-517 319

Subject code: BP802T

#### Internal Attainment from indirect Assessment Feedback Form

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PRINCIPAL

Name of the subject: Social & preventive pharmacy

Subject code: BP802T

## **Internal Attainment**

CourseOutcomes	DirectAssessment (sessional exam) with 80 % attainment data	Indirect Assessment (feedback)	Internal Attainment	20% of Internal Attainment	EXTER NAL	Individe al CO attainm at
CO802.1	2.16359350220736	0.51274832	2.676341822	0,53526836	1.608247	2.14351
CO802.2	2.22247253296758	0.526597247	2.74906978	0,54981396	1.608247	2.15806
CO802.3	2.10175757575758	0.491823948	2.593581524	0.5187163	1.608247	2.12696
CO802.4	2.18057142857143	0.491823948	2.672395376	0.53447908	1.608247	2.14272
CO802.5	2.21585167464115	0.516475272	2.732326947	0.54646539	1:608247	2.1547

Average of 20%n Internal Attainment = 0.53694862

PRINCIPAL

Name of the subject: Social & preventive pharmacy

Subject code: BP802T

## DIRECT ASSESSMENT (SEMESTER END EXAMINATION)

From the semester end examinations, the number of students who scored more than 60% from the total appeared was considered and calculated to get the attainment level on scale-3.

For example: in the course 802T,

CALCULATION:

Number of students scoring 60% and more than 60% X = 65 X = 2.0103Total number of students appeared 97

80% of semester end examinations to be considered i.e. (80% of 2.0103 of C802T)

2.0103×0.80 =1.60842

Name of the subject: Social & preventive pharmacy

Subject code: BP802T

# **FINAL CO ATTAINMENT 802**

1.60842 + 0.5369 = 2.14532

PRINCIPAL

Name of the subject: Social & preventive pharmacy

Subject code: BP802T

Course: Social and Preventive Pharmacy (Theory)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C802.	3	2	21			2		2	2		_
C802.	3	14	2	(#)		2	-		3	2	1
C802.	3	2	2	51 <del>-</del> 51	2	-	2	3	2	2	-
C802.	3	2	2		2	2	2		2		2
C802.	3	2	2	(-)	2	2	-	2	2	2	2
Avera ge	3	2	2		2	2	2	2.5	2.2	2	1.6

Overall average 2.13

PRINCIPAL
PRINCIPAL
MAHATHI COLLEGE OF PHARMA:
C.T.M. Cross Roads, MADANAPALLE
Annamayya (District), A.P.-517 319

Code: BP802T

Name of the subject: Social & preventive pharmacy

Subject code: BP802T

## Program outcome attainment

#### Direct assessment:

It is calculated based on CO attainment from student's performance (Directly by results and indirectly by survey/feedback on course outcomes).

For example: Course attainment of C802= 2.14532 (X)

PO1 average from CO-PO matrix = 3 (Y)

PO1 attainment = X\*Y/3=Z

X = 2.14532

Y = 3

Z = 2.14532\*3/3

PO1 attainment= 2.14532

## Final PO attainment table for BP802T

PO	1	2	3	4	5	6	7	8	9	10	11
Attainment	2.145	1.43	1.43	0.00	1.43	1.43	1.43	1.79	1.61	1.43	1.19

# MAHATHI COLLEGE OF PHARMACY MADANAPALLE TOURISH TO 2021 TO 2022 Counsels the County of the County

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	dyndio soldove:	95	YES .	40	130	54		M	36		- 60	41	77	-		- (1)	10.00	60	90	80	-	11	36	-	94	460	26	-			enterpre		96
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7000	designation and the second	BURNETZ	RR-UNKS	10:31216	BILDDAMS	16.14463		73.69615	76.7	1	100.25	2 25 13	177			No. of London	1000	- 111				1000	1000		1000								

PRINCIPAL PRINCIPAL

Name of the subject: INDUSTRIAL PHARMACY Subject code: BP502T

	neof the Sul	oject:	7	The second second second	LPHARMACY			ear	3RD	Sem
Subjec	CO 502.1	CO 502.1	CO 502.3	CO 502.2	CO 502.2	CO 502.2	CO 502.2	CO 502.1	CO 502.2	CO 502.I
LIST	Q.NO.I	Q.NO.2	Q.NO.3	Q.NO.4	Q.NO.5	Q.NO.6	Q.NO.7	Q.NO.8	Q.NO.9	Q.NO.10
Number of students appeared	104	104	103	104	104	53	50	46	62	100
Number of students scored morethan 60%	95	102	.93	103	94	38	39	40	41	77

PRINCIPAL PRINCIPAL

Name of the subject: INDUSTRIAL PHARMACY

Subject code: BP502T

	neof the Sub tCode:	iject	Industrial p BP502T	harmacy				ear /lid	3RD	Sem
Subject	CO 502.3	CO 502.3	CO 502.4	CO 502.5	CO 502.5	CO 502.3	CO 502.5	CO 502.5	CO 502.4	CO 502.3
LIST	Q.NO.1	Q.NO.2	Q:NO.3	Q.NO.4	Q.NO.5	Q.NO.6	Q.NO.7	Q.NO.8	Q.NO,9	Q.NO.10
Number of students appeared	92	91	92	92	92	68	-23	71	82	30
Number of students scored morethan 60%	63	10	80	90	81	53	19	54	66	25

PRINCIPAL

Subject code: BP502T

## INTERNAL ATTAINMENT FROM DIRECT ASSESSMENT (SESSIONAL EXAMS) AND FEEDBACK FORM

#### SESSIONAL EXAMINATION

Each question of sessional examination is mapped with all course outcomes of that particular course and based on the question attempted by the students from the total, students who scored 60% and more than 60% of the particular question was computed and analyzed for the attainment.

#### MAPPING CALCULATION FOR SESSIONAL EXAMINATION

Number of students scoring 60% and more than 60%
----- X 3
Total number of students appeared

Example for I-mid exam Q.NO 1=  $95 \div 104 \times 3 = 2.7403$ 

Name of the subject: INDUSTRIAL PHARMACY

Subject code: BP502T

CO'S mapping	with interna	Levamination	questions.	Specianal F	vamination
CO 3 IIIappilis	WILLII IIILEITIA	i examination	questions-i	Sessional E	xamimation

CONSTRUCTOR STREET, CONTRACTOR S	0.9001	G110.3	Gas.	Givilla	GPHS A	dame.	Q2993.7	GMIN.	O.NORN	U.NO.
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CTISG2_2ToDescribetables des agriform, physic obsentual principles, different additives welforformulation, as and a turing, evaluation and defe- t in tableting with remodies				Ψ.	y	Υ.	Х.	- 25	Y.	-
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#### CO'S mapping with internal examination questions-II Sessional Examination

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PRINCIPAL

Name of the subject: INDUSTRIAL PHARMACY

Subject code: BP502T

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PRINCIPAL

Name of the subject: INDUSTRIAL PHARMACY

Subject code: BP502T

#### Internal Attainment from indirect Assessment Feedback Form

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PRINCIPAL

Subject code: BP502T

## **Internal Attainment**

Course Outcomes	Direct Assessment (sessional exam) w ith 80 % attainment data	Indirect Assessment (feedback)	Internal Attainment	20%ofinternal Attainment
CO502.1	2.042421405	0.506312016	2.54873342	0,509746684
CO502.2	2.013308582	0.560122838	2.57343142	0.514686284
CO502.3	1.44445069	0.503158368	1.947609058	0.389521812
CO502.4	2,009331919	0.503158368	2.512490287	0,502498057
CO502.5	2.067207593	0.524367131	2.591574725	0.518314945

Average of 20% Internal Attainment = 0.486953556

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Subject code: BP502T

## DIRECT ASSESSMENT(SEMESTER END EXAMINATION)

From the semester end examinations, the number of students who scored more than 60% from the total appeared was considered and calculated to get the attainment level on scale-3.

For example: in the course 502T,

CALCULATION:

Number of students scoring 60% and more than 60% X 3 = 49 X 3 = 1.53125

Total number of students appeared 96

80% of semester end examinations to be considered i.e. (80% of 1.53125 of C502T)

1.53125×0.80 =1.225

Subject code: BP502T

## **FINAL CO ATTAINMENT 502**

1.225 + 0.486 = 1.711

Name of the subject: INDUSTRIAL PHARMACY

Subject code: BP502T

#### COURSE:INDUSTRIALPHARMACY-1

CODE:BP502T

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C502. 5	-		-			2			(*)		3	
Avera ge	3	2	2.75	2		2.2		9			3	

Over all average =2.491

PRINCIPAL

Subject code: BP502T

## Program outcome attainment

#### Direct assessment:

It is calculated based on CO attainment from student's performance (Directly by results and indirectly by survey/feedback on course outcomes).

For example: Course attainment of C502= 1.711 (X)

PO1 average from CO-PO matrix = 3(Y)

PO1 attainment = X\*Y/3=Z

X = 1.711

Y = 3

Z = 1.711\*3/3

PO1 attainment= 1.711

#### Final PO attainment table for BP502T

										10	
Attainment	1.71	1.14	1.56	1.14	0.00	1.26	0.00	0.00	0.00	0.00	1.71