

# Nimra College of Pharmacy

UGC AUTONOMOUS

Estd By : Nimra Educational Society (A Muslim Minority Society)

Approved by Pharmacy Council of India (PCI), New Delhi.

Affiliated to JNTUK, Kakinada, Permitted by Govt. of A.P.

Accredited by NAAC, Approved under UGC 2(f) & ISO Certified 9001 : 2015



## 2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

Course outcomes describe what students will be able to demonstrate in terms of knowledge and values upon completion of a course. At the end of each course, the PO assessment is done from the CO attainment of all curriculum components. Each course has a defined set of course outcomes and corresponding evaluation criteria. The course outcomes are mapped to the programme outcomes for the quantitative measurement of the programme outcomes attainment.

### CO Attainment:

The methods of assessment are identified to measure the progress of each Course Outcome. Assessment methods include direct methods and indirect methods. The process of course outcome assessment is based on mid-term examinations and semester-end examinations. Each question in the mid-term is tagged to the corresponding CO. The overall attainment of that CO is based on the average obtained by all the students.

### Direct assessment methods include:

- Theory Courses – Internal and End Semester exams
- Indirect assessment methods include: Feed Back survey

### Course Outcomes – Assessment Process

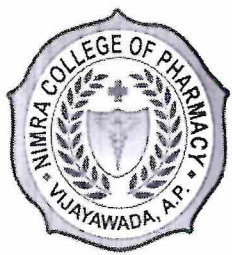
- 75% and 25% of the overall attainment of the course are taken from direct and indirect assessments respectively.
- The direct assessment weightage is shared between internal and external assessments based on the prescribed university regulations.
- The internal assessment is calculated twice a semester.
- The attainment level of each student can be studied and it can also be checked if the entire COs are attained or are met with the set performance goal.
- Indirect assessment is executed through a feedback survey.

  
NIMRA COLLEGE OF PHARMACY

Nimra Nagar, Jupudi, Ibrahimpatnam, Vijayawada - 521456, NTR Dist, A.P. India.

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- The final attainment of the COs is calculated from the average attainment obtained by all the students.

## PO Attainment:

All the courses which contribute to PO are identified and these courses are evaluated through the Course Outcomes using direct assessment tools (Internal and External examinations) and indirect assessment tools (Feedback End Survey). After the assessment of the POs using both the direct and indirect assessment tools, the overall results from the assessments of the PO are compared with the expected attainment. If the expected attainment level is reached, the PO is considered satisfied. In case the expected level of attainment is not met, then the concerned faculty along with guidelines from the BOS would strive to take additional measures for the overall improvement of the class.

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NIMRA COLLEGE OF PHARMACY  
JUPUDI, Ibrahimpatnam





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## External Examination Assessment

Sub Name: PHARMACEUTICAL MICROBIOLOGY		Sub Code: T2102
Course Coordinator :	Mrs. CH. VIDYULATHA	Year/Sem: II
S.No	Roll. No	External Max. Marks 70
1	229A1T0001	32
2	229A1T0002	2
3	229A1T0003	8
4	229A1T0004	-1
5	229A1T0005	-1
6	229A1T0006	25
7	229A1T0007	4
8	229A1T0008	26
9	229A1T0009	25
10	229A1T0010	19
11	229A1T0011	37
12	229A1T0012	35
13	229A1T0013	28
14	229A1T0014	29
15	229A1T0015	6
16	229A1T0016	31
17	229A1T0017	25
18	229A1T0018	11
19	229A1T0019	41
20	229A1T0020	22
21	229A1T0021	40
22	229A1T0022	32
23	229A1T0023	42
24	229A1T0024	18
25	229A1T0025	19
26	229A1T0026	37
27	229A1T0027	18
28	229A1T0028	0
29	229A1T0029	3

*[Signature]*  
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## CO-PO Mapping

COs	POs											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
T2102	1	1	-	2	3	3	-	-	-	2	-	-
T2102	2	2	1	-	2	-	-	-	3	1	-	-
T2102	-	3	2	1	-	2	-	2	2	-	-	-
T2102	3	-	1	-	2	1	-	-	-	2	-	-
T2102	-	1	-	3	3	-	-	-	2	-	-	-
T2102	3	2	3	2	-	3	1	-	3	2	-	-
Average	2.25	1.8	1.75	2	2.5	2.25	-	-	2.5	1.75	-	-

## Total CO Attainment through Direct & Indirect Assessment

CO Attainment **2**

## PO Attainment

PO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	1.5	1.2	1.166666667	1.333333333	1.666666667	1.5	1.666666667	1.166666667	1.666666667	1.16667	-	-

1. Copy CO - PO matrix and CO attainment matrix from previous pages and find PO attainment.
2. PO attainment is calculated as per the following formula:

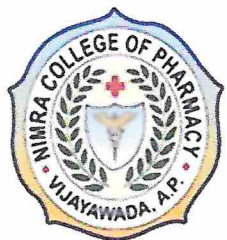
POj \* Total CO attainment Level / 3 where 'i' ranges from 1 to 12

*(Signature)*  
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**NIMRA COLLEGE OF PHARMACY**

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## Criteria 3:CO Attainment through Direct Assessment

	CO Attainment Level (Mid)	CO Attainment Level (External)	Direct CO Attainment Level (Internal * 30%) + (External * 70%)	Indirect CO Attainment Level	Total CO Attainment Level (Direct CO Attainment * 80% + Indirect CO Attainment * 20%)
CO1	1	1	1	3	2
CO2	2	1	2	2	2
CO3	2	1	2	2	2
CO4	1	1	1	3	2
CO5	1	1	1	2	2
CO6	2	1	2	2	2
					2

1. Copy the Direct CO Attainment Level (Internal) and Direct CO Attainment Level (External) from the previous sheets and then find the Direct CO Attainment Level.


2. Find Direct CO attainment level using the formula:

CO Attainment Level (Internal) \* 30% + CO Attainment Level (External) \* 70%

3. Copy Indirect CO Attainment Level.

4. Find the CO attainment level using the formula:

Direct CO Attainment Level \* 80% + Indirect CO Attainment Level \* 20%

  
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50% of External max.marks	35
No. of students crossed 25% marks	3
% of students crossed 25% marks	15
Attainment Level	1

#### Rubrics:

If 50% of the students crossed 50% of the marks: Attainment Level 1

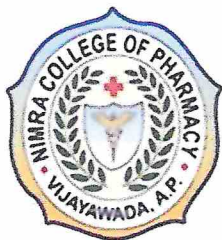
If 60% of the students crossed 50% of the marks: Attainment Level 2

If 70% of the students crossed 50% of the marks: Attainment Level 3

1. Enter the student external marks into the specified column.
2. Find 25% of External max.marks. Ex: 25% of 70=17
3. Find the number of students crossed 50% of External max.marks.
5. Find the % of students crossed 25% of External max.marks.
6. Find the attainment level according to the above rubrics.

Note: Formulae are available in the Excel sheet it self where ever required. Please do not distrub the formulae. You just enter the data and see the result. This note is applicable to all sheets.





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## External Examination Assessment

Sub Name: Inorganic Chemistry		Sub Code: BP101T	
Course Coordinator : Reshma Kajaa		Year/Sem: I-I	
S.No	Roll. No	External Max. Marks 75	Grade
1	239A1R0001	48.75	C
2	239A1R0002	41.25	D
3	239A1R0003	41.25	D
4	239A1R0004	41.25	D
5	239A1R0005	41.25	D
6	239A1R0006	41.25	D
7	239A1R0007	48.75	C
8	239A1R0008	0	AB
9	239A1R0009	41.25	D
10	239A1R0010	30	F
11	239A1R0011	48.75	C
12	239A1R0012	48.75	C
13	239A1R0013	41.25	D
14	239A1R0014	41.25	D
15	239A1R0015	30	F
16	239A1R0016	48.75	C
17	239A1R0017	48.75	C
18	239A1R0018	41.25	D
19	239A1R0019	0	AB
20	239A1R0020	41.25	D
21	239A1R0021	41.25	D
22	239A1R0022	55.55	B
23	239A1R0023	41.25	D
24	239A1R0024	55.55	B
25	239A1R0025	48.75	C
26	239A1R0026	0	AB
27	239A1R0027	41.25	D
28	239A1R0028	55.55	B
29	239A1R0029	48.75	C

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*Reshma Kajaa*  
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30	239A1R0030	55.55	B
31	239A1R0031	55.55	B
32	239A1R0032	41.25	D
33	239A1R0033	41.25	D
34	239A1R0034	41.25	D
35	239A1R0035	48.75	C
36	239A1R0036	48.75	C
37	239A1R0037	41.25	D
38	239A1R0038	55.55	B
39	239A1R0039	0	AB
40	239A1R0040	48.75	C
41	239A1R0041	48.75	C
42	239A1R0042	55.55	B
43	239A1R0043	55.55	B
44	239A1R0044	55.55	B
45	239A1R0045	41.25	D
46	239A1R0046	55.55	B
47	239A1R0047	48.75	C
48	239A1R0048	48.75	C
49	239A1R0049	55.55	B
50	239A1R0050	55.55	B
51	239A1R0051	0	AB
52	239A1R0052	30	F
53	239A1R0053	30	F
54	239A1R0054	41.25	D
55	239A1R0055	0	AB
56	239A1R0056	41.25	D
57	239A1R0057	41.25	D
58	239A1R0058	41.25	D
59	239A1R0059	41.25	D
60	239A1R0060	30	F
61	239A1R0061	30	F
62	239A1R0062	30	F
63	239A1R0063	41.25	D
64	239A1R0064	41.25	D
65	239A1R0065	41.25	D
66	239A1R0066	0	AB
67	239A1R0067	30	F
68	239A1R0068	41.25	D

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*M. S. S.*  
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69	239A1R0069	41.25	D
70	239A1R0070	55.55	B
71	239A1R0071	55.55	B
72	239A1R0072	55.55	B
73	239A1R0073	41.25	D
74	239A1R0074	55.55	B
75	239A1R0075	55.55	B
76	239A1R0076	48.75	C
77	239A1R0077	55.55	B
78	239A1R0078	48.75	C
79	239A1R0079	55.55	B
80	239A1R0080	48.75	C
81	239A1R0081	55.55	B
82	239A1R0082	55.55	B
83	239A1R0083	55.55	B
84	239A1R0084	41.25	D
85	239A1R0085	48.75	C
86	239A1R0086	41.25	D
87	239A1R0087	41.25	D
88	239A1R0088	48.75	C
89	239A1R0089	41.25	D
90	239A1R0090	48.25	C
91	239A1R0091	41.25	D
92	239A1R0092	41.25	D
93	239A1R0093	41.25	D
94	239A1R0094	41.25	D
95	239A1R0095	55.55	B
96	239A1R0096	48.75	C
97	239A1R0097	55.55	B
98	239A1R0098	55.55	B
99	239A1R0099	55.55	B
100	239A1R00A0	41.25	D
<b>50% of External max.marks</b>		<b>38</b>	
<b>No. of students crossed 50% marks</b>		<b>85</b>	
<b>% of students crossed 50% marks</b>		<b>85</b>	
<b>Attainment Level</b>		<b>3</b>	

*M. Anwar*  
Principal

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## Rubrics:

- If 50% of the students crossed 50% of the marks: Attainment Level 1
- If 60% of the students crossed 50% of the marks: Attainment Level 2
- If 70% of the students crossed 50% of the marks: Attainment Level 3

1. Enter the student external marks into the specified column.
2. Find 50% of External max.marks. Ex: 50% of 70=35
3. Find the number of students crossed 50% of External max.marks.
5. Find the % of students crossed 50% of External max.marks.
6. Find the attainment level according to the above rubrics.

Note: Formulae are available in the Excel sheet it self where ever required.  
Please do not distrub the formulae. You just enter the data and see the result.  
This note is applicable to all sheets.

*Handwritten signature*  
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## CO Attainment through Direct Assessment

	CO Attainment Level (Mid)	CO Attainment Level (External)	Direct CO Attainment Level (Internal * 25%) + (External * 75%)	Indirect CO Attainment Level	Total CO Attainment Level (Direct CO Attainment * 80% + Indirect CO Attainment * 20%)
CO1	3	3	3	3	3
CO2	2	3	3	2	3
CO3	3	3	3	2	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3

1. Copy the Direct CO Attainment Level (Internal) and Direct CO Attainment Level (External) from the previous sheets and then find the Direct CO Attainment Level.
2. Find Direct CO attainment level using the formula:  

$$\text{CO Attainment Level (Internal)} * 30\% + \text{CO Attainment Level (External)} * 70\%$$
3. Copy Indirect CO Attainment Level.
4. Find the CO attainment level using the formula:  

$$\text{Direct CO Attainment Level} * 80\% + \text{Indirect CO Attainment Level} * 20\%$$

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## CO-PO Mapping

COS	POS										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP104T	-	1	3	3	-	-	-	-	1	-	-
BP104T	2	3	3	2	3	-	-	3	1	-	-
BP104T	3	3	3	2	2	-	-	-	1	3	-
BP104T											
BP104T											
BP104T	3	3	3	3	2	-	-	-	1	-	-
<b>AVERAGE</b>	<b>2.66667</b>	<b>2.5</b>	<b>3</b>	<b>2.5</b>	<b>2.33333</b>			<b>3</b>	<b>1</b>	<b>3</b>	<b>-</b>

## Total CO Attainment through Direct & Indirect Assessment

<b>CO Attainment</b>	<b>3</b>
----------------------	----------

## PO Attainment

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
<b>PO Attainment</b>	<b>2.66667</b>	<b>2.5</b>	<b>3</b>	<b>2.5</b>	<b>2.33333</b>			<b>3</b>	<b>1</b>	<b>3</b>	

1. Copy CO - PO matrix and CO attainment matrix from previous pages and find PO attainment.
2. PO attainment is calculated as per the following formula:  
 $POi * Total\ CO\ attainment\ Level / 3$  where 'i' ranges from 1 to 12












50% of maximum marks	14.5	14.5	12	14.5	14.5
No. of students crossed 50% of max. marks	65	49	73	70	52
% of students crossed 50% of max. marks	89	67	100	96	71
Attainment Level	3	2	3	3	3

**Rubrics:**

If 50% of the students crossed 50% of the marks: Attainment Level 1

If 60% of the students crossed 50% of the marks: Attainment Level 2

If 70% of the students crossed 50% of the marks: Attainment Level 3

  
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## External Examination Assessment

Sub Name: Physical Pharmaceutics		Sub Code: BP302T	
Course Coordinator :	CH. Vidyulatha	Year/Sem: II-I	
S.No	Roll. No	External Max. Marks 75	Grade
1	229A1R0001	0	F
2	229A1R0002	0	F
3	229A1R0003	0	F
4	229A1R0004	0	F
5	229A1R0005	0	AB
6	229A1R0006	0	F
7	229A1R0007	0	F
8	229A1R0008	0	F
9	229A1R0009	0	F
10	229A1R0010	0	F
11	229A1R0011	41.25	D
12	229A1R0012	48.75	C
13	229A1R0013	41.25	D
14	229A1R0014	41.25	D
15	229A1R0015	48.75	C
16	229A1R0017	41.25	D
17	229A1R0018	41.25	D
18	229A1R0019	41.25	D
19	229A1R0020	41.25	D
20	229A1R0021	41.25	D
21	229A1R0022	41.25	D
22	229A1R0023	41.25	D
23	229A1R0024	0	F
24	229A1R0025	0	F
25	229A1R0026	41.25	D
26	229A1R0027	41.25	D
27	229A1R0028	0	F
28	229A1R0029	0	F
29	229A1R0030	41.25	D
30	229A1R0031	41.25	D

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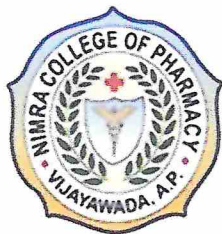


31	229A1R0033	0	F
32	229A1R0034	41.25	D
33	229A1R0035	41.25	D
34	229A1R0036	41.25	D
35	229A1R0037	0	F
36	229A1R0038	41.25	D
37	229A1R0039	41.25	D
38	229A1R0040	41.25	D
39	229A1R0041	0	F
40	229A1R0042	41.25	D
41	229A1R0043	41.25	D
42	229A1R0044	41.25	D
43	229A1R0045	41.25	D
44	229A1R0046	0	AB
45	229A1R0047	0	F
46	229A1R0048	41.25	D
47	229A1R0049	0	F
48	229A1R0050	0	F
49	229A1R0051	0	F
50	229A1R0052	0	F
51	229A1R0054	0	AB
52	229A1R0055	41.25	D
53	229A1R0056	48	C
54	229A1R0057	41.25	D
55	229A1R0058	41.25	D
56	229A1R0059	41.25	D
57	229A1R0060	0	F
58	229A1R0061	0	F
59	229A1R0062	41.25	D
60	229A1R0063	41.25	D
61	229A1R0064	41.25	D
62	229A1R0065	41.25	D
63	229A1R0066	41.25	D
64	229A1R0067	41.25	D
65	229A1R0068	41.25	D
66	229A1R0069	41.25	D
67	229A1R0070	0	F
68	229A1R0071	41.25	D
69	229A1R0072	41.25	D

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# Nimra College of Pharmacy

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70	229A1R0073	41.25	D
71	229A1R0074	41.25	D
72	229A1R0075	0	F
74	229A1R0076	0	F
75	229A1R0077	41.25	D
76	229A1R0078	0	F
77	229A1R0079	0	F
78	229A1R0080	0	F
80	229A1R0081	41.25	D
81	229A1R0083	41.25	D
82	229A1R0084	48.75	C
83	229A1R0085	41.25	D
84	229A1R0086	41.25	D
85	229A1R0087	0	F
86	229A1R0088	0	F
87	229A1R0089	0	F
88	229A1R0090	0	F
89	229A1R0091	0	AB
90	229A1R0093	0	F
91	229A1R0094	41.25	D
92	229A1R0095	41.25	D
93	229A1R0096	41.25	D
94	229A1R0097	41.25	D
95	229A1R0099	41.25	D
96	229A1R00A0	41.25	D
<b>50% of External max.marks</b>		<b>38</b>	
<b>No. of students crossed 50% marks</b>		<b>55</b>	
<b>% of students crossed 50% marks</b>		<b>59</b>	
<b>Attainment Level</b>		<b>1</b>	

#### Rubrics:

If 50% of the students crossed 50% of the marks: Attainment Level 1

If 60% of the students crossed 50% of the marks: Attainment Level 2

If 70% of the students crossed 50% of the marks: Attainment Level 3

*M. S. S.*  
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1. Enter the student external marks into the specified column.
2. Find 50% of External max.marks. Ex: 50% of 70=35
3. Find the number of students crossed 50% of External max.marks.
5. Find the % of students crossed 50% of External max.marks.
6. Find the attainment level according to the above rubrics.

Note: Formulae are available in the Excel sheet it self where ever required. Please do not disturb the formulae. You just enter the data and see the result. This note is applicable to all sheets.

  
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## CO-PO Mapping

COs	POs										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP302T	-	1	3	3	-	-	-	-	1	-	-
BP302T	2	3	3	2	3	-	-	3	1	-	-
BP302T	3	3	3	2	2	-	-	-	1	3	-
BP302T											
BP302T											
BP302T	3	3	3	3	2	-	-	-	1	-	-
<b>AVERAGE</b>	<b>2.66667</b>	<b>2.5</b>	<b>3</b>	<b>2.5</b>	<b>2.33333</b>			<b>3</b>	<b>1</b>	<b>3</b>	<b>-</b>

## Total CO Attainment through Direct & Indirect Assessment

<b>CO Attainment</b>		<b>2.2</b>
----------------------	--	------------

## PO Attainment

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
<b>PO Attainment</b>	<b>1.95556</b>	<b>1.83333</b>	<b>2.2</b>	<b>1.83333</b>	<b>1.71111</b>			<b>2.2</b>	<b>0.73333</b>	<b>2.2</b>	

1. Copy CO - PO matrix and CO attainment matrix from previous pages and find PO attainment.
2. PO attainment is calculated as per the following formula:  
 $POi * Total\ CO\ attainment\ Level / 3$  where 'i' ranges from 1 to 12

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## CO Attainment through Direct Assessment

	CO Attainment Level (Mid)	CO Attainment Level (External)	Direct CO Attainment Level (Internal * 25%) + (External * 75%)	Indirect CO Attainment Level	Total CO Attainment Level (Direct CO Attainment * 80% + Indirect CO Attainment * 20%)
CO1	0	1	1	3	2
CO2	0	1	1	2	2
CO3	3	1	2	2	2
CO4	3	1	2	3	3
CO5	0	1	1	3	2
					2.2

1. Copy the Direct CO Attainment Level (Internal) and Direct CO Attainment Level (External) from the previous sheets and then find the Direct CO Attainment Level.

2. Find Direct CO attainment level using the formula:

CO Attainment Level (Internal) \* 30% + CO Attainment Level (External) \* 70%

3. Copy Indirect CO Attainment Level.

4. Find the CO attainment level using the formula:

Direct CO Attainment Level \* 80% + Indirect CO Attainment Level \* 20%

  
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If 50% of the students crossed 50% of the marks: Attainment Level 1

If 60% of the students crossed 50% of the marks: Attainment Level 2

If 70% of the students crossed 50% of the marks: Attainment Level 3



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