

2.6.2. ATTAINMENT OF POs AND COs ARE EVALUATED

2.6.2

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.


PRINCIPAL
PRINCIPAL

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

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

| S.NO | 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
PRINCIPAL

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

COURSE MARKS ANALYSIS SHEET

Name of the subject: **Social & preventive pharmacy**

Subject code: **BP802T**

| Name of the Subject: | | Social & Preventive Pharmacy | | | | | Year | | IV Year | Sem | II Sem |
|---|----------|------------------------------|----------|----------|----------|----------|----------|----------|--------------------|----------|--------|
| Subject Code: | | BP802T | | | | | Mid | | I Mid Examinations | | |
| LIST | 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 | |
| | 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 | 101 | 101 | 101 | 101 | 99 | 35 | 66 | 98 | 101 | 2 | |
| Number of students scored more than 60% | 96 | 96 | 95 | 83 | 94 | 31 | 60 | 77 | 93 | 2 | |

Peng
PRINCIPAL
PRINCIPAL

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

COURSE MARKS ANALYSIS SHEET

Name of the subject: **Social & preventive pharmacy**

Subject code: **BP802T**

| Name of the Subject: | | Social & Preventive Pharmacy | | | | | Year | | IV Year | Sem | II Sem |
|---|--------|------------------------------|--------|--------|--------|--------|--------|--------|---------------------|---------|--------|
| Subject Code: | | BP802T | | | | | Mid | | II Mid Examinations | | |
| LIST | CO | CO | CO | CO | CO | CO | CO | CO | CO | CO | |
| | 802.3 | 802.3 | 802.4 | 802.5 | 802.5 | 802.3 | 802.5 | 802.5 | 802.4 | 802.3 | |
| | 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 more than 60% | 95 | 96 | 96 | 96 | 96 | 7 | 81 | 81 | 84 | 6 | |

Peng
PRINCIPAL
PRINCIPAL

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

COURSE MARKS ANALYSIS SHEET

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

$$\frac{\text{Number of students scoring 60\% and more than 60\%}}{\text{Total number of students appeared}} \times 3$$

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

Pearl
PRINCIPAL
PRINCIPAL

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

COURSE MARKS ANALYSIS SHEET

Name of the subject: **Social & preventive pharmacy**


Subject code: **BP802T**

CO'S mapping with internal examination questions-I Sessional Examination

| CO'S Mapping with internal examination questions | 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 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| CO802.1 Acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide. | Y | - | - | Y | - | - | - | Y | - | 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 | - | - | - | - | - | - | - | - | - | - |
| CO 802.4 This course also introduced a number of national health programmes. | - | - | - | - | - | - | - | - | - | - |
| CO802.5 The roles of the pharmacist in these contexts are also discussed. | - | - | - | - | - | - | - | - | - | - |

CO'S mapping with internal examination questions-II Sessional Examination

| CO'S Mapping with internal examination questions | 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 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| CO802.1 Acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide. | - | - | - | - | - | - | - | - | - | - |
| CO802.2 Have a critical way of thinking based on current healthcare development. | - | - | - | - | - | - | - | - | - | - |
| CO 802.3 Evaluate alternative ways of solving problems related to health and pharmaceutical issues | Y | Y | - | - | - | Y | - | - | - | Y |
| CO 802.4 This course also introduced a number of national health programmes. | - | - | Y | - | - | - | - | - | - | - |
| CO802.5 The roles of the pharmacist in these contexts are also discussed. | - | - | - | Y | Y | - | Y | Y | Y | - |


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

COURSE MARKS ANALYSIS SHEET

Name of the subject: **Social & preventive pharmacy**


Subject code: **BP802T**

CO'S mapping with internal examination questions-I Sessional Examination

| CO'S Mapping with internal examination questions | Q.No1 | Q.No2 | Q.No3 | Q.No4 | Q.No5 | Q.No6 | Q.No7 | Q.No8 | Q.No9 | Q.No10 | Direct Assessment (marks/total marks) Average | 80% Attainment |
|--|----------|----------------|----------------|-----------------|-----------------|----------------|-----------------|----------------|------------------|--------|---|----------------|
| CO802.1 Acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide. | 2.851485 | - | - | 2.4651463146515 | 2.8484848484848 | - | - | 2.337142857143 | - | 3 | 2.39441357779 | 2.333333 |
| CO802.2 Have a critical way of thinking based on current healthcare development. | - | 2.851485148515 | 2.821782178218 | - | 2.8484848484848 | 2.657142857143 | 2.7272727272727 | - | 2.76276276276278 | - | 2.77803466209 | 2.2124725 |
| CO 802.3 Evaluate alternative ways of solving problems related to health and pharmaceutical issues | - | - | - | - | - | - | - | - | - | - | 80%00 | 80%00 |
| CO802.4 This course also introduced a number of national health programmes. | - | - | - | - | - | - | - | - | - | - | 80%00 | 80%00 |
| CO802.5 The roles of the pharmacist in these contexts are also discussed. | - | - | - | - | - | - | - | - | - | - | 80%00 | 80%00 |

CO'S mapping with internal examination questions-II Sessional Examination

| CO'S Mapping with internal examination questions | Q.No1 | Q.No2 | Q.No3 | Q.No4 | Q.No5 | Q.No6 | Q.No7 | Q.No8 | Q.No9 | Q.No10 | Direct Assessment (marks/total marks) Average | 80% Attainment |
|--|----------|-------|-------|-------|-------|-------|---------------|----------------|-------|--------|---|----------------|
| CO802.1 Acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide. | - | - | - | - | - | - | - | - | - | - | 80%00 | 80%00 |
| CO802.2 Have a critical way of thinking based on current healthcare development. | - | - | - | - | - | - | - | - | - | - | 80%00 | 80%00 |
| CO802.3 Evaluate alternative ways of solving problems related to health and pharmaceutical issues | 2.878788 | 2.88 | - | - | - | 1.75 | - | - | - | 3 | 2.27780360597 | 2.3317536 |
| CO802.4 This course also introduced a number of national health programmes. | - | - | 2.88 | - | - | - | - | - | - | - | 2.5714285714286 | 2.280734 |
| CO802.5 The roles of the pharmacist in these contexts are also discussed. | - | - | - | 2.88 | 2.88 | - | 2.76136363636 | 2.557804756882 | - | - | 2.3984257380 | 2.215054 |


PRINCIPAL
MAHATHI COLLEGE OF PHARMACY
 C.T.M. Cross Roads, MADANAPALLI
 Annamaya (District), A.P.-517 319

COURSE MARKS ANALYSIS SHEET

Name of the subject: **Social & preventive pharmacy**

Subject code: **BP802T**

Internal Attainment from indirect Assessment Feedback Form

| CO802.1 (Arg of total questions in CO.1) | TotalFeedbacks collected | 1 star | 2 star | 3 star | STUDENT | TotalFeedbacks collected | 1 star | 2 star | 3 star | Employee | TotalFeedbacks collected | 1 star | 2 star | 3 star | Staff | TotalFeedbacks collected | 1 star | 2 star | 3 star | Absent | Average | 20% Avg |
|---|---------------------------------|---------------|---------------|---------------|------------------|---------------------------------|---------------|---------------|---------------|-------------------|---------------------------------|---------------|---------------|---------------|------------------|---------------------------------|---------------|---------------|---------------|------------------|------------------|------------------|
| 1 | 56 | 88 | 4 | 4 | 2.0025 | 10 | 5 | 3 | 1 | 2.3 | 8 | 5 | 2 | 1 | 2.1 | 30 | 20 | 8 | 2 | 3.0 | | |
| 4 | 85 | 88 | 2 | 1 | 2.0075(10772002) | 9 | 4 | 3 | 2 | 2.0111(100112010) | 8 | 4 | 3 | 1 | 2.175 | 25 | 15 | 8 | 2 | 3.02 | | |
| 8 | 77 | 75 | 2 | 0 | 2.0031(10051100) | 8 | 2 | 3 | 1 | 2.125 | 7 | 5 | 1 | 1 | 2.1428(100001) | 28 | 18 | 10 | 2 | 2.7 | | |
| 10 | 2 | 2 | 0 | 0 | 1 | 10 | 5 | 3 | 1 | 2.3 | 8 | 6 | 1 | 1 | 2.031 | 28 | 16 | 10 | 2 | 2.7 | | |
| Average | | | | | 2.0031(10051100) | Average | | | | 2.2087(11551010) | Average | | | | 2.1675(1405774) | Average | | | | 3.01 | 2.0075(10772002) | 2.1179(11000000) |
| CO802.2 | TotalFeedbacks collected | 1 star | 2 star | 3 star | STUDENT | TotalFeedbacks collected | 1 star | 2 star | 3 star | Employee | TotalFeedbacks collected | 1 star | 2 star | 3 star | Staff | TotalFeedbacks collected | 1 star | 2 star | 3 star | Absent | Average | 20% Avg |
| 2 | 56 | 88 | 10 | 1 | 2.0021(11111111) | 10 | 8 | 1 | 1 | 2.7 | 10 | 1 | 3 | 2 | 2.3 | 30 | 20 | 8 | 2 | 3.0 | | |
| 3 | 88 | 88 | 9 | 6 | 2.0021(11111111) | 13 | 10 | 3 | 1 | 2.7143(11221111) | 8 | 6 | 3 | 1 | 2.375 | 25 | 15 | 8 | 2 | 3.02 | | |
| 5 | 64 | 88 | 3 | 2 | 2.0011(11111111) | 13 | 9 | 4 | 2 | 2.4615(10000000) | 8 | 7 | 2 | 1 | 2.7 | 28 | 18 | 10 | 2 | 3.1 | | |
| 6 | 38 | 34 | 4 | 3 | 2.0011(11111111) | 10 | 8 | 2 | 2 | 2.4 | 8 | 6 | 2 | 1 | 2.375 | 28 | 16 | 10 | 2 | 3.1 | | |
| 7 | 66 | 52 | 6 | 2 | 2.001 | 12 | 6 | 3 | 3 | 2.25 | 9 | 8 | 0 | 0 | 2 | 25 | 15 | 8 | 2 | 3.02 | | |
| 9 | 83 | 82 | 10 | 1 | 2.0011(11111111) | 10 | 5 | 3 | | 2.1 | 8 | 3 | 2 | 1 | 2.3 | 26 | 15 | 9 | 2 | 3.1 | | |
| Average | | | | | 2.0011(11111111) | Average | | | | 2.4051(11111111) | Average | | | | 2.3631(11111111) | Average | | | | 3.01 | 2.0011(11111111) | 2.3631(11111111) |
| Total | | | | | | | | | | | | | | | | | | | | | | |
| CO802.3 | TotalFeedbacks collected | 1 star | 2 star | 3 star | STUDENT | TotalFeedbacks collected | 1 star | 2 star | 3 star | Employee | TotalFeedbacks collected | 1 star | 2 star | 3 star | Staff | TotalFeedbacks collected | 1 star | 2 star | 3 star | Absent | Average | 20% Avg |
| 1 | 85 | 86 | 6 | 3 | 2.0011(11111111) | 10 | 7 | 2 | 1 | 2.8 | 8 | 6 | 1 | 1 | 2.425 | 25 | 15 | 8 | 2 | 3.01 | | |
| 2 | 86 | 79 | 8 | 8 | 2.0008(11111111) | 12 | 8 | 4 | 2 | 2.5(1111111111) | 8 | 3 | 2 | 1 | 2.3 | 25 | 15 | 8 | 2 | 3.01 | | |
| 6 | 7 | 3 | 2 | 2 | 2.0007(11111111) | 12 | 8 | 3 | 1 | 2.25 | 8 | 3 | 1 | 2 | 2.375 | 27 | 17 | 8 | 2 | 2.8333(11111111) | | |
| 10 | 6 | 2 | 1 | 3 | 2.0011(11111111) | 12 | 7 | 3 | 2 | 2.4166(10000000) | 8 | 3 | 2 | 1 | 2.3 | 28 | 18 | 8 | 2 | 2.75(11111111) | | |
| Average | | | | | 2.0011(11111111) | Average | | | | 2.4 | Average | | | | 2.3 | Average | | | | 3.01 | 2.0011(11111111) | 2.4311(11111111) |
| CO802.4 | TotalFeedbacks collected | 1 star | 2 star | 3 star | STUDENT | TotalFeedbacks collected | 1 star | 2 star | 3 star | Employee | TotalFeedbacks collected | 1 star | 2 star | 3 star | Staff | TotalFeedbacks collected | 1 star | 2 star | 3 star | Absent | Average | 20% Avg |
| 3 | 86 | 80 | 7 | 8 | 2.0008(11111111) | 10 | 8 | 2 | 2 | 2.4 | 8 | 6 | 1 | 1 | 2.425 | 26 | 15 | 9 | 2 | 3.1 | | |
| 9 | 84 | 70 | 10 | 4 | 2.0011(11111111) | 13 | 10 | 8 | 3 | 2.0008(11111111) | 8 | 3 | 2 | 1 | 2.3 | 30 | 20 | 8 | 2 | 3.0 | | |
| Average | | | | | 2.0011(11111111) | Average | | | | 2.1918(11111111) | Average | | | | 2.3625 | Average | | | | 3.01 | 2.0011(11111111) | 2.3147(11111111) |
| CO802.5 | TotalFeedbacks collected | 1 star | 2 star | 3 star | STUDENT | TotalFeedbacks collected | 1 star | 2 star | 3 star | Employee | TotalFeedbacks collected | 1 star | 2 star | 3 star | Staff | TotalFeedbacks collected | 1 star | 2 star | 3 star | Absent | Average | 20% Avg |
| 4 | 96 | 77 | 8 | 10 | 2.0011(11111111) | 17 | 18 | 8 | 2 | 2.5(1111111111) | 8 | 8 | 1 | 1 | 2.225 | 30 | 22 | 6 | 2 | 2.0008(11111111) | | |
| 5 | 96 | 76 | 11 | 8 | 2.0011(11111111) | 15 | 11 | 2 | 2 | 2.0 | 8 | 5 | 2 | 1 | 2.3 | 26 | 15 | 9 | 2 | 2.9 | | |
| 7 | 81 | 72 | 1 | 8 | 2.0011(11111111) | 13 | 7 | 8 | 1 | 2.4615(10000000) | 8 | 3 | 1 | 2 | 2.375 | 25 | 15 | 8 | 3 | 3.01 | | |
| 8 | 81 | 76 | 1 | 1 | 2.0011(11111111) | 15 | 11 | 2 | 2 | 2.0 | 8 | 3 | 1 | 2 | 2.375 | 20 | 15 | 9 | 2 | 3.0 | | |
| Average | | | | | 2.0011(11111111) | Average | | | | 2.5001(11111111) | Average | | | | 2.4875 | Average | | | | 3.01 | 2.0011(11111111) | 2.4147(11111111) |

Principal
Principal

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

COURSE MARKS ANALYSIS SHEET

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 | Individu al CO attainme nt |
|----------------|--|--------------------------------------|------------------------|----------------------------------|--------------|-------------------------------------|
| CO802.1 | 2.16359350220736 | 0.51274832 | 2.676341822 | 0.53526836 | 1.608247 | 2.143515 |
| CO802.2 | 2.22247253296758 | 0.526597247 | 2.74906978 | 0.54981396 | 1.608247 | 2.158061 |
| CO802.3 | 2.10175757575758 | 0.491823948 | 2.593581524 | 0.5187163 | 1.608247 | 2.126963 |
| CO802.4 | 2.18057142857143 | 0.491823948 | 2.672395376 | 0.53447908 | 1.608247 | 2.142726 |
| CO802.5 | 2.21585167464115 | 0.516475272 | 2.732326947 | 0.54646539 | 1.608247 | 2.154712 |

Average of 20% Internal Attainment = 0.53694862


PRINCIPAL
PRINCIPAL

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

COURSE MARKS ANALYSIS SHEET

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:

$$\frac{\text{Number of students scoring 60\% and more than 60\%}}{\text{Total number of students appeared}} \times 3 = \frac{65}{97} \times 3 = 2.0103$$

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

$$2.0103 \times 0.80 = 1.60842$$


PRINCIPAL
PRINCIPAL

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

COURSE MARKS ANALYSIS SHEET

Name of the subject: **Social & preventive pharmacy**

Subject code: **BP802T**

FINAL CO ATTAINMENT 802

$$1.60842 + 0.5369 = 2.14532$$

peny
PRINCIPAL
PRINCIPAL

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

COURSE MARKS ANALYSIS SHEET

Name of the subject: **Social & preventive pharmacy**

Subject code: **BP802T**

Course: Social and Preventive Pharmacy (Theory)

Code: BP802T

| CO | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| C802. 1 | 3 | - | - | | - | - | - | - | - | - | - |
| C802. 2 | 3 | - | 2 | - | - | 2 | - | - | 3 | 2 | 1 |
| C802. 3 | 3 | 2 | 2 | - | 2 | - | 2 | 3 | 2 | 2 | - |
| C802. 4 | 3 | 2 | 2 | - | 2 | - | 2 | - | 2 | - | 2 |
| C802. 5 | 3 | 2 | 2 | - | 2 | 2 | - | 2 | 2 | 2 | 2 |
| Average | 3 | 2 | 2 | | 2 | 2 | 2 | 2.5 | 2.2 | 2 | 1.6 |

Overall average 2.13


PRINCIPAL
PRINCIPAL

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

COURSE MARKS ANALYSIS SHEET

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 |

COURSE MARKS ANALYSIS SHEET

Name of the subject: **INDUSTRIAL PHARMACY**

Subject code: **BP502T**

MAHATHI COLLEGE OF PHARMACY, Annamaya
MAHATHI COLLEGE OF PHARMACY MADANAPALLE

| Academic Year | | 2021 TO 2022 | | Class | | 3 rd YEAR I SEM | | Course Name | | Industrial Pharmacy | | Date Code | | Sheet | | | | | | | | | | | | | | | | | | | | |
|-------------------|-------------|--------------|----|-------------|----|----------------------------|----|-------------|----|---------------------|-----|------------|----------|-------|------|----|----|----|----|----|----|-----|------------|----------|--------------------------|--------------------|-----------------|----|----|----|----|----|----|----|
| Course/Instructor | | B.PHARM | | Designation | | Assistant Professor | | Degree/Engg | | UG | | Date Code | | Sheet | | | | | | | | | | | | | | | | | | | | |
| S.No | Reg. Number | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Mid Ter. 1 | Internal | | | | | | | | | | Mid Ter. 2 | Semester | Contin. (at Madanapalle) | Grand Total result | Internal Theory | | | | | | | |
| | | | | | | | | | | | | | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | | | | | | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 |
| 1 | 19T180001 | 2 | 2 | 2 | 2 | 2 | 20 | 2 | C | 1 | C | 4 | 4 | 8 | 23.5 | 1 | 3 | 2 | 2 | 2 | 8 | F | C | 7 | 5 | 4 | C | 9 | 12 | 13 | 9 | 27 | 30 | |
| 2 | 19T180002 | 2 | 2 | 2 | 2 | 2 | 20 | 2 | C | 0 | C | 1 | 1 | 0 | 4 | AB | AB | AB | AB | AB | 0 | AB | AB | AB | AB | AB | AB | AB | AB | AB | 4 | 4 | 8 | 48 |
| 3 | 19T180003 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | C | 4 | 4 | 8 | 23 | 2 | 1 | 1 | 1 | 1 | 8 | F | B | B | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 40 | |
| 4 | 19T180004 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | C | 4 | 4 | 8 | 24 | 2 | 2 | 2 | 2 | 2 | 8 | F | B | B | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 48 | |
| 5 | 19T180005 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 0 | 0 | 0 | 0 | 0 | 4 | AB | AB | AB | AB | AB | 0 | AB | AB | AB | AB | AB | AB | AB | AB | 8 | 4 | 8 | 48 | |
| 6 | 19T180006 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 7 | 7 | 7 | 7 | 7 | 21.5 | 2 | 2 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 52 | | |
| 7 | 19T180007 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 25.5 | 1 | 1 | 1 | 1 | 1 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 6 | | |
| 8 | 19T180008 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | AB | 4 | 4 | 4 | 4 | 28 | 2 | 0 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 3 | | |
| 9 | 19T180009 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 4 | | |
| 10 | 19T180010 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 6 | 6 | 6 | 6 | 6 | 21.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 7 | | |
| 11 | 19T180011 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 12 | 19T180012 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 13 | 19T180013 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 2 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 14 | 19T180014 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 2 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 15 | 19T180015 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 0 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 16 | 19T180016 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 0 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 17 | 19T180017 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 0 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 18 | 19T180018 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 0 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 19 | 19T180019 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 0 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 20 | 19T180020 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 0 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 21 | 19T180021 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 0 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 22 | 19T180022 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 7 | 7 | 7 | 7 | 7 | 23.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 23 | 19T180023 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 0 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 24 | 19T180024 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 0 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 25 | 19T180025 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 0 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 26 | 19T180026 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 7 | 7 | 7 | 7 | 7 | 23.5 | 2 | 0 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 27 | 19T180027 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 0 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 28 | 19T180028 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 29 | 19T180029 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 30 | 19T180030 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 31 | 19T180031 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 32 | 19T180032 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 33 | 19T180033 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 34 | 19T180034 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 35 | 19T180035 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 36 | 19T180036 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 37 | 19T180037 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 38 | 19T180038 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 7 | 7 | 7 | 7 | 7 | 23.5 | 2 | 0 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 39 | 19T180039 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 0 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 40 | 19T180040 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 3 | 3 | 3 | 3 | 3 | 17 | 2 | 0 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 41 | 19T180041 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 7 | 7 | 7 | 7 | 7 | 23.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 42 | 19T180042 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 43 | 19T180043 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 7 | 7 | 7 | 7 | 7 | 23.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 44 | 19T180044 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 45 | 19T180045 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 7 | 7 | 7 | 7 | 7 | 23.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 46 | 19T180046 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 47 | 19T180047 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 7 | 7 | 7 | 7 | 7 | 23.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 48 | 19T180048 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 3 | 3 | 3 | 3 | 3 | 15.5 | 2 | 0 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 49 | 19T180049 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 50 | 19T180050 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 51 | 19T180051 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 52 | 19T180052 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 53 | 19T180053 | 2 | 2 | 2 | 2 | 2 | 20 | 8 | C | 8 | 8 | 8 | 8 | 8 | 24.5 | 2 | 1 | 2 | 2 | 2 | 8 | B | C | C | 4 | 4 | 8 | 12 | 13 | 9 | 27 | 10 | | |
| 54 | 19T180054 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COURSE MARKS ANALYSIS SHEET

Name of the subject: **INDUSTRIAL PHARMACY**

Subject code: **BP502T**

| Name of the Subject: | | INDUSTRIALPHARMACY | | | | | Year | | 3RD | Sem |
|---|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Subject Code: | | BP502T | | | | | Mid | | | |
| LIST | 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 502.1 |
| | 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 | 104 | 104 | 103 | 104 | 104 | 53 | 50 | 46 | 62 | 100 |
| Number of students scored more than 60% | 95 | 102 | 93 | 103 | 94 | 38 | 39 | 40 | 41 | 77 |

Peng
PRINCIPAL
PRINCIPAL

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

COURSE MARKS ANALYSIS SHEET

Name of the subject: **INDUSTRIAL PHARMACY**

Subject code: **BP502T**

| Name of the Subject: | | Industrial pharmacy | | | | | Year | | 3RD | Sem |
|---|--------|---------------------|--------|--------|--------|--------|--------|--------|--------|---------|
| Subject Code: | | BP502T | | | | | Mid | | | |
| LIST | CO | CO | CO | CO | CO | CO | CO | CO | CO | CO |
| | 502.3 | 502.3 | 502.4 | 502.5 | 502.5 | 502.3 | 502.5 | 502.5 | 502.4 | 502.3 |
| | 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 more than 60% | 63 | 10 | 80 | 90 | 81 | 53 | 19 | 54 | 66 | 25 |

Princip
PRINCIPAL
PRINCIPAL

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

COURSE MARKS ANALYSIS SHEET

Name of the subject: **INDUSTRIAL PHARMACY**

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

$$\frac{\text{Number of students scoring 60\% and more than 60\%}}{\text{Total number of students appeared}} \times 3$$

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

COURSE MARKS ANALYSIS SHEET

Name of the subject: **INDUSTRIAL PHARMACY**

Subject code: **BP502T**

CO'S mapping with internal examination questions-I Sessional Examination

| CO'S Mapping with internal examination questions | 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 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| CO502.1 To understand the concept of reformulation studies along with physical and chemical properties of the material | Y | Y | - | | - | - | - | Y | - | Y |
| CO502.2 To describe tablet dosage form, physico-chemical principles, different additives used for formulation, manufacturing, evaluation and defects in tabletting with remedies | - | | | Y | Y | Y | Y | - | Y | - |
| CO502.3 To describe capsule dosage form. Explain the different types, activities, site selection, manufacturing, evaluation, equipment and defect of capsules. Explain the concept of technology transfer. | - | - | Y | - | - | - | - | - | - | - |
| CO.502.4 To know about parenterals and their stability | - | - | - | - | - | - | - | - | - | - |
| CO502.5 To know about routes and modes of preparation of different dosage forms | - | - | - | - | - | - | - | - | - | - |

CO'S mapping with internal examination questions-II Sessional Examination

| CO'S Mapping with internal examination questions | 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 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| CO502.1 To understand the concept of reformulation studies along with physical and chemical properties of the material | - | - | - | - | - | - | - | - | - | - |
| CO502.2 To describe tablet dosage form, physico-chemical principles of different additives used for formulation, manufacturing, evaluation and defects in tabletting with remedies | - | - | - | - | - | - | - | - | - | - |
| CO502.3 To describe capsule dosage form. Explain the different types, activities, site selection, manufacturing, evaluation, equipment and defect of capsules. Explain the concept of technology transfer. | Y | Y | - | - | - | Y | - | - | - | Y |
| CO.502.4 To know about parenterals and their stability | - | - | Y | - | - | - | - | - | Y | - |
| CO502.5 To know about routes and modes of preparation of different dosage forms | - | - | - | Y | Y | - | Y | Y | - | - |

penp
PRINCIPAL
PRINCIPAL

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

COURSE MARKS ANALYSIS SHEET

Name of the subject: **INDUSTRIAL PHARMACY**
 Subject code: **BP502T**

CO'S mapping with internal examination questions-I Sessional Examination

| CO'S | 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 | Class/Att marks/Out of/100 Average | 80% Attendance |
|--|--------|-----------|--------|-----------|-----------|-----------|--------|-----------|-----------|---------|---|-------------------|
| CO502.1 To understand the concept of different formulations along with physical and chemical properties of the mixture | 234034 | - | - | - | - | - | - | 200095652 | - | 25 | 2.50000746 | 2.50000746 |
| CO502.2 To describe the stable dosage forms, physico-chemical principles, different additives used for formulation, manufacturing, evaluation and defect in tabletting with remedies | - | 294207692 | - | 207113846 | 271133840 | 205043394 | 234 | - | 106387968 | - | 2.20000104 | 2.20000104 |
| CO502.3 To describe capsules in dosage forms, explain the different types, additives, size selection, manufacturing, evaluation, equipment and defect of capsules. Explain the concept of technology transfer. | - | - | 208072 | - | - | - | - | - | - | - | 2.00000000 | 2.00000000 |
| CO502.4 To know about parenterals and the terminally life | - | - | - | - | - | - | - | - | - | - | 40000000 | 40000000 |
| CO502.5 To know about cosmetics and aerosol preparations of different dosage forms | - | - | - | - | - | - | - | - | - | - | 40000000 | 40000000 |

CO'S mapping with internal examination questions-II Sessional Examination

| CO'S | 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 | Class/Att marks/Out of/100 Average | 80% Attendance |
|--|--------|----------|---------|-----------|-----------|-----------|--------|------------|------------|---------|---|-------------------|
| CO502.1 To understand the concept of different formulations along with physical and chemical properties of the mixture | - | - | - | - | - | - | - | - | - | - | 40000000 | 40000000 |
| CO502.2 To describe the stable dosage forms, physico-chemical principles, different additives used for formulation, manufacturing, evaluation and defect in tabletting with remedies | - | - | - | - | - | - | - | - | - | - | 40000000 | 40000000 |
| CO502.3 To describe capsules in dosage forms, explain the different types, additives, size selection, manufacturing, evaluation, equipment and defect of capsules. Explain the concept of technology transfer. | 205435 | 61247033 | - | - | - | 208235294 | - | - | - | 25 | 2.00000000 | 2.00000000 |
| CO502.4 To know about parenterals and the terminally life | - | - | 2008057 | - | - | - | - | - | 2414034146 | - | 2.00000000 | 2.00000000 |
| CO502.5 To know about cosmetics and aerosol preparations of different dosage forms | - | - | - | 295478009 | 204130048 | - | 247836 | 2281000144 | - | - | 2.00000000 | 2.00000000 |

Principal
PRINCIPAL
 PRINCIPAL

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

COURSE MARKS ANALYSIS SHEET

Name of the subject: **INDUSTRIAL PHARMACY**
 Subject code: **BP502T**

Internal Attainment from indirect Assessment Feedback Form

| Q.no | Total feedback collected | Yes | No | Yes | No | STUDENT | Total feedback collected | Yes | No | Yes | No | TEACHER | Total feedback collected | Yes | No | Yes | No | STAFF | Total feedback collected | Yes | No | Yes | No | Average | 20% A/g | | | | | | | |
|---------|--------------------------|-----|----|-----|----|-----------|--------------------------|-----|----|-----|----|-----------|--------------------------|-----|-----------|---------|----|-----------|--------------------------|-----|----|-----|----|-----------|---------|----|----|---|-----------|-----------|----|---|
| 1 | 97 | 89 | 7 | 1 | 1 | 202100009 | 9 | 8 | 1 | 1 | 1 | 202100010 | 8 | 5 | 2 | 1 | 1 | 202100011 | 12 | 10 | 2 | 1 | 1 | 202100012 | 20 | 18 | 2 | 2 | 20 | 18 | 2 | 2 |
| 2 | 86 | 88 | 7 | 2 | 1 | 202100013 | 9 | 4 | 3 | 2 | 1 | 202100014 | 8 | 4 | 2 | 1 | 1 | 202100015 | 15 | 11 | 4 | 2 | 1 | 202100016 | 25 | 21 | 4 | 2 | 25 | 21 | 4 | 2 |
| 3 | 44 | 35 | 4 | 5 | 1 | 202100017 | 8 | 3 | 3 | 2 | 1 | 202100018 | 7 | 5 | 1 | 1 | 1 | 202100019 | 22 | 16 | 6 | 3 | 1 | 202100020 | 32 | 26 | 6 | 3 | 32 | 26 | 6 | 3 |
| 10 | 34 | 26 | 12 | 4 | 1 | 202100021 | 7 | 5 | 1 | 1 | 1 | 202100022 | 8 | 6 | 1 | 1 | 1 | 202100023 | 10 | 8 | 2 | 1 | 1 | 202100024 | 16 | 14 | 2 | 1 | 16 | 14 | 2 | 1 |
| Average | | | | | | 2.0000000 | Average | | | | | | | | 2.0000000 | Average | | | | | | | | 2.0000000 | Average | | | | 2.0000000 | 2.0000000 | | |
| Q.no | Total feedback collected | Yes | No | Yes | No | STUDENT | Total feedback collected | Yes | No | Yes | No | TEACHER | Total feedback collected | Yes | No | Yes | No | STAFF | Total feedback collected | Yes | No | Yes | No | Average | 20% A/g | | | | | | | |
| 4 | 96 | 89 | 10 | 2 | 1 | 202100025 | 12 | 10 | 1 | 1 | 1 | 202100026 | 7 | 5 | 1 | 1 | 1 | 202100027 | 25 | 21 | 4 | 2 | 1 | 202100028 | 25 | 21 | 4 | 2 | 25 | 21 | 4 | 2 |
| 5 | 86 | 89 | 5 | 4 | 1 | 202100029 | 14 | 9 | 4 | 1 | 1 | 202100030 | 7 | 5 | 1 | 1 | 1 | 202100031 | 20 | 16 | 4 | 2 | 1 | 202100032 | 25 | 21 | 4 | 2 | 25 | 21 | 4 | 2 |
| 6 | 47 | 35 | 7 | 5 | 1 | 202100033 | 10 | 6 | 2 | 2 | 1 | 202100034 | 5 | 4 | 1 | 1 | 1 | 202100035 | 20 | 16 | 4 | 2 | 1 | 202100036 | 20 | 16 | 4 | 2 | 20 | 16 | 4 | 2 |
| 7 | 50 | 48 | 8 | 2 | 1 | 202100037 | 12 | 8 | 3 | 1 | 1 | 202100038 | 7 | 7 | 0 | 0 | 1 | 202100039 | 15 | 11 | 4 | 2 | 1 | 202100040 | 25 | 21 | 4 | 2 | 25 | 21 | 4 | 2 |
| 8 | 64 | 62 | 10 | 2 | 1 | 202100041 | 11 | 9 | 1 | 1 | 1 | 202100042 | 8 | 5 | 2 | 1 | 1 | 202100043 | 15 | 11 | 4 | 2 | 1 | 202100044 | 20 | 15 | 5 | 2 | 20 | 15 | 5 | 2 |
| Average | | | | | | 2.0000000 | Average | | | | | | | | 2.0000000 | Average | | | | | | | | 2.0000000 | Average | | | | 2.0000000 | 2.0000000 | | |
| Q.no | Total feedback collected | Yes | No | Yes | No | STUDENT | Total feedback collected | Yes | No | Yes | No | TEACHER | Total feedback collected | Yes | No | Yes | No | STAFF | Total feedback collected | Yes | No | Yes | No | Average | 20% A/g | | | | | | | |
| 9 | 80 | 87 | 2 | 2 | 1 | 202100045 | 9 | 6 | 2 | 1 | 1 | 202100046 | 9 | 6 | 2 | 1 | 1 | 202100047 | 20 | 15 | 5 | 1 | 1 | 202100048 | 20 | 15 | 5 | 1 | 20 | 15 | 5 | 1 |
| 1 | 42 | 35 | 5 | 2 | 1 | 202100049 | 17 | 10 | 5 | 2 | 1 | 202100050 | 9 | 6 | 2 | 1 | 1 | 202100051 | 20 | 15 | 5 | 1 | 1 | 202100052 | 20 | 15 | 5 | 1 | 20 | 15 | 5 | 1 |
| 6 | 68 | 49 | 12 | 7 | 1 | 202100053 | 9 | 6 | 2 | 1 | 1 | 202100054 | 8 | 5 | 1 | 2 | 1 | 202100055 | 28 | 17 | 11 | 3 | 1 | 202100056 | 28 | 17 | 11 | 3 | 28 | 17 | 11 | 3 |
| 10 | 30 | 23 | 8 | 7 | 1 | 202100057 | 17 | 10 | 5 | 2 | 1 | 202100058 | 8 | 5 | 2 | 1 | 1 | 202100059 | 15 | 10 | 5 | 2 | 1 | 202100060 | 20 | 14 | 6 | 2 | 20 | 14 | 6 | 2 |
| Average | | | | | | 2.0000000 | Average | | | | | | | | 2.0000000 | Average | | | | | | | | 2.0000000 | Average | | | | 2.0000000 | 2.0000000 | | |
| Q.no | Total feedback collected | Yes | No | Yes | No | STUDENT | Total feedback collected | Yes | No | Yes | No | TEACHER | Total feedback collected | Yes | No | Yes | No | STAFF | Total feedback collected | Yes | No | Yes | No | Average | 20% A/g | | | | | | | |
| 2 | 82 | 88 | 7 | 5 | 1 | 202100061 | 9 | 6 | 2 | 1 | 1 | 202100062 | 8 | 6 | 1 | 1 | 1 | 202100063 | 20 | 15 | 5 | 2 | 1 | 202100064 | 20 | 15 | 5 | 2 | 20 | 15 | 5 | 2 |
| 6 | 83 | 68 | 10 | 4 | 1 | 202100065 | 17 | 10 | 5 | 2 | 1 | 202100066 | 9 | 6 | 2 | 1 | 1 | 202100067 | 20 | 15 | 5 | 2 | 1 | 202100068 | 20 | 15 | 5 | 2 | 20 | 15 | 5 | 2 |
| Average | | | | | | 2.0000000 | Average | | | | | | | | 2.0000000 | Average | | | | | | | | 2.0000000 | Average | | | | 2.0000000 | 2.0000000 | | |
| Q.no | Total feedback collected | Yes | No | Yes | No | STUDENT | Total feedback collected | Yes | No | Yes | No | TEACHER | Total feedback collected | Yes | No | Yes | No | STAFF | Total feedback collected | Yes | No | Yes | No | Average | 20% A/g | | | | | | | |
| 4 | 92 | 78 | 12 | 2 | 1 | 202100069 | 17 | 10 | 5 | 2 | 1 | 202100070 | 8 | 6 | 1 | 1 | 1 | 202100071 | 22 | 21 | 1 | 4 | 1 | 202100072 | 25 | 21 | 4 | 2 | 25 | 21 | 4 | 2 |
| 5 | 86 | 76 | 10 | 2 | 1 | 202100073 | 12 | 11 | 1 | 1 | 1 | 202100074 | 9 | 5 | 2 | 2 | 1 | 202100075 | 27 | 23 | 4 | 2 | 1 | 202100076 | 25 | 21 | 4 | 2 | 25 | 21 | 4 | 2 |
| 7 | 23 | 15 | 4 | 4 | 1 | 202100077 | 13 | 7 | 3 | 2 | 1 | 202100078 | 9 | 8 | 2 | 2 | 1 | 202100079 | 16 | 10 | 6 | 4 | 2 | 202100080 | 16 | 10 | 6 | 4 | 16 | 10 | 6 | 4 |
| 8 | 72 | 66 | 4 | 2 | 1 | 202100081 | 16 | 12 | 1 | 3 | 1 | 202100082 | 7 | 5 | 1 | 1 | 1 | 202100083 | 16 | 10 | 6 | 4 | 2 | 202100084 | 16 | 10 | 6 | 4 | 16 | 10 | 6 | 4 |
| Average | | | | | | 2.0000000 | Average | | | | | | | | 2.0000000 | Average | | | | | | | | 2.0000000 | Average | | | | 2.0000000 | 2.0000000 | | |

Principal
PRINCIPAL
 PRINCIPAL

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

COURSE MARKS ANALYSIS SHEET

Name of the subject: **INDUSTRIAL PHARMACY**

Subject code: **BP502T**

Internal Attainment

| Course Outcomes | Direct Assessment (sessional exam) with 80 % attainment data | Indirect Assessment (feedback) | Internal Attainment | 20% of Internal 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 | 2.591574729 | 0.518314945 |

Average of 20% Internal Attainment = **0.486953556**


PRINCIPAL
PRINCIPAL

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

COURSE MARKS ANALYSIS SHEET

Name of the subject: **INDUSTRIAL PHARMACY**

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 :

$$\frac{\text{Number of students scoring 60\% and more than 60\%}}{\text{Total number of students appeared}} \times 3 = \frac{49}{96} \times 3 = 1.53125$$

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

$$1.53125 \times 0.80 = 1.225$$


PRINCIPAL
PRINCIPAL

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

COURSE MARKS ANALYSIS SHEET

Name of the subject: INDUSTRIAL PHARMACY

Subject code: BP502T

FINAL CO ATTAINMENT 502

$$1.225 + 0.486 = 1.711$$

penp
PRINCIPAL
PRINCIPAL

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

COURSE MARKS ANALYSIS SHEET

Name of the subject: **INDUSTRIAL PHARMACY**

Subject code: **BP502T**

COURSE:INDUSTRIALPHARMACY-1

CODE:BP502T

| CO | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 |
|-------------|-----|-----|------|-----|-----|-----|-----|-----|-----|------|------|
| C502. 1 | 3 | - | 2 | 2 | - | 2 | - | - | - | - | - |
| C502. 2 | 3 | 2 | 3 | 2 | - | - | - | - | - | - | - |
| C502. 3 | 3 | | 3 | - | - | 2 | - | - | - | - | - |
| C502. 4 | - | - | 3 | - | - | 2 | - | - | - | - | - |
| C502. 5 | - | - | - | - | - | 2 | - | - | - | - | 3 |
| Avera ge | 3 | 2 | 2.75 | 2 | | 2.2 | - | - | - | | 3 |

Over all average =2.491

peny
PRINCIPAL
PRINCIPAL

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

COURSE MARKS ANALYSIS SHEET

Name of the subject: **INDUSTRIAL PHARMACY**

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

| PO | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|
| Attainment | 1.71 | 1.14 | 1.56 | 1.14 | 0.00 | 1.26 | 0.00 | 0.00 | 0.00 | 0.00 | 1.71 |