



MNR DENTAL COLLEGE AND HOSPITAL

“NAAC ACCREDITED”

(Recognized by MH&FW, Govt. of India & Affiliated to KNR University of Health Sciences)

MNR Nagar, Narsapur Road, Fasalwadi, Sangareddy 502294

ASSESSMENT OF LEARNING OUTCOMES



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Course Outcome Assessment Process

Our Institution applies various assessments in direct and indirect mode to measure the outcomes of educations and learning among the students.

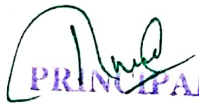
- **Direct method:** As per the calendar of events institute conduct three internal examinations and KNRUHS conducts external examination for both theory and practical. Theory examinations comprises of objective and descriptive questions whereas the practical examinations assess knowledge, clinical skills, attitude and communication ability of the student.
- **Indirect method:** Feedback from the students is taken and a course end survey is conducted which constitutes to 10% of the overall CO achievement metric.

A. LIST OF ASSESSMENT PROCESSES: The Course Outcome Attainment process tools are briefly explained with the following tabular form.

Course Outcome Assessment Methods			Weightages		Final Course Outcome
Direct Assessment	Cumulative Internal Examinations (CIE)	Descriptive Test	30%	90%	
		Objective Test			
		Assignment Test			
	Semester End Examinations (SEE)		70%		
Indirect Assessment	Course End Survey			10%	

B. THE QUALITY /RELEVANCE OF ASSESSMENT PROCESSES & TOOLS USED:

The method of assessment tools of Course Outcomes BDS program are as follows:


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Direct Assessment Tools:

Internal Examinations:

This type of assessment is carried out through the internal examinations which are held thrice a year. Each and every internal examination is focused on attaining the course outcomes.

Internal examinations include

- Descriptive test
- Practical examination
- Assignment test

External Examinations:

External examinations is a metric for evaluating whether all the Course outcomes are attained or not. External Examinations focus on attainment of course outcomes through descriptive test.

Clinical Examinations:

Students perform the clinical exercise on the patient and marks are allotted according to their performance

Viva voice

Students are assessed on their performance in viva voice

Distribution and Weightage of Marks:

The performance of a student in each year shall be evaluated subject – wise with a maximum of 100 marks for Theory and 100 marks for Practical Training.

Theory

For all theory subjects consisting of 6-8 course outcomes, the assessment shall be for 70 marks in the external examinations 20 marks for the viva voice and 10 marks are allocated for the internal theory mark which totals upto 100 marks.

Internal Evaluation Rubrics

The internal evaluation will be based on three tests conducted in each year. Each internal exam is conducted for 100 marks

Descriptive test	- 70 Marks
Viva voice	- 20 Marks
Assignment test	-10 Marks

Each descriptive test question paper contains 20 questions one from each CO covering syllabus from 3-4 Cos. The student has to answer all the 20 questions. The 70 marks will be scaled down to 10 marks. The descriptive examination will be conducted for 3 hours duration.


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Viva voice is conducted for 20 marks and the marks are allotted according to the performance of the student.

In Assignment Tests, 5 or 6 topics will be declared in the clinical at least one week in advance.

External Evaluation Rubrics

The question paper comprises of three parts. First part consists of 2 long answer questions 9 marks each, second part consists of 8 short answer questions 4 marks each, the final part consists of 10 short answer questions 2 marks each, the total constitutes to 70 marks.

Practical Examination Rubrics

For clinicals there shall be continuous evaluation during the year and also consists of Internal Evaluation and external Evaluation.

Internal Evaluation Rubrics: There shall be continuous evaluation during the entire year for Record:

- Submission of record on time -10M
- Submission of record with delay gets 9M

Day to day performance: It is based on the attendance percentage of the student, proper patient management

- Attendance percentage $\geq 75\%$ 2M
- Attendance percentage $> 60\%$ and ≤ 74 1M

External Examination Assessment:

Rubrics:

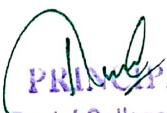
If 50% of the students crossed 50% of the marks: Attainment Level 1

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

Procedure:

1. Enter the question wise marks.
2. Identify the CO of each question.
3. Calculate 50% of maximum marks of each question.
4. Find number of students crossed 50% of maximum marks for each question.
5. Find percentage of students crossed 50% of maximum marks for each question.
6. Find the attainment level of each question as per the above Rubrics.
7. Finally calculate CO attainment level by consolidating the question wise attainment levels.


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Internal Examination Assessment:

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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

Procedure:

1. Enter the question wise marks for
2. Identify the CO of each question.
3. Calculate the maximum marks of each CO based on mid exams, assignments and quiz.
4. Calculate the CO Wise marks obtained by each student.
5. Calculate 50% of maximum marks of each CO.
6. Find number of students crossed 50% of maximum marks for each CO.
7. Find percentage of students crossed 50% of maximum marks for each CO.

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8. Find the attainment level of each CO as per the above Rubrics.

CO Attainment:

CO Attainment using Direct Assessment:

Direct CO Attainment is calculated based on internal and external examinations.

Direct CO Attainment % = 30% of Internal Attainment + 70% of External Attainment.

CO Attainment using Indirect Assessment:

It is based on course end survey. A google form is created to take course end survey at the end of each year to take Indirect Assessment.

Total CO Attainment:

CO Attainment % = 90% of Direct CO Attainment + 10% of Indirect CO Attainment.

CO Attainment through Direct Assessment					
	CO Attainment Level (Mid)	CO Attainment Level (External)	Direct CO Attainment Level (Internal * 10% + External * 90%)	Indirect CO Attainment Level	Total CO Attainment Level (Direct CO Attainment * 80% + Indirect CO Attainment * 20%)
CO1	3	3	3.00	3	3
CO2	3	3	3.00	2	2.8
CO3	2	3	2.90	2	2.72
CO4	2	3	2.90	3	2.92
CO5	2	3	2.90	3	2.92
CO6	2	3	2.90	3	2.92
CO7	2	3	2.90	3	2.92
CO8	2	3	2.90	3	2.92
Level (External) from the previous sheets and then find the Direct CO Attainment Level.					2.89
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%					

A11

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CO Attainment

A

B

C

D

E

F

G

H

I

J

K

L

M

1

CO-PO Mapping

2

COs

POs

PO1

PO2

PO3

PO4

PO5

PO6

PO7

PO8

PO9

PO10

PO11

PO12

4

C1

-

1

3

3

-

-

-

-

1

-

-

-

5

C2

2

3

3

3

3

-

-

-

1

-

-

-

6

C3

3

3

3

3

3

-

-

-

1

3

-

-

7

C4

3

3

3

3

3

-

-

-

1

-

-

-

8

C

2.66667

2.5

3

3

3

-

-

-

1

3

3

-

9

Total CO Attainment through Direct & Indirect Assessment

10

CO Attainment

2.89

11

PO Attainment

12

PO

PO1

PO2

PO3

PO4

PO5

PO6

PO7

PO8

PO9

PO10

PO11

PO12

14

Attainment

2.56889

2.40333

2.89

2.89

2.89

0.96333

2.89

15

1. Copy CO - PO matrix and CO attainment matrix from previous pages and find PO attainment.

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2. PO attainment is calculated as per the following formula:

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$$POI \times \text{Total CO attainment Level} / 3$$

where "I" ranges from 1 to 12

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COURSE END SURVEY

1.Student Name

2. Roll Number

Po1 - Are you able to Ability to identify the normal structures of oral cavity, Differentiating the primary and permanent teeth, growth and development of jaws

Mark only one

- Strongly agree
- Agree
- Satisfactory
- Disagree
- strongly disagree

po2- Are you Competent to diagnose the common dental and oral diseases, malocclusion, tobacco associated oral lesions, and potentially malignant and malignant conditions.

- Strongly agree
- Agree
- Satisfactory
- Disagree
- strongly disagree

po-3- Are you Competent in taking intraoral radiographs and interpret the radiographic findings.

- Strongly agree
- Agree
- Satisfactory
- Disagree
- strongly disagree

po-4- are you able to use the proper instruments for a given condition.

- Strongly agree
- Agree
- Satisfactory
- Disagree
- strongly disagree

po-5 Do have adequate Knowledge and skill in using dental materials and drugs.

- Yes
- No

PO-6 Can you Provide full mouth rehabilitation care and anesthetic dental care

- Strongly agree
- Agree
- Satisfactory
- Disagree
- strongly disagree

Po 7 – Can you provide dental care for children

- Strongly agree
- Agree
- Satisfactory
- Disagree
- strongly disagree

Po 8- Can you Provide preventive dental care and dental care for medically compromised patients

- Strongly agree
- Agree
- Satisfactory
- Disagree
- strongly disagree

Po 9 – Do you have adequate Knowledge about recent advances in dentistry

- Strongly agree
- Agree
- Satisfactory
- Disagree
- strongly disagree

Po 10 – do you have good interpersonal and managerial skills

- Strongly agree


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- Agree
- Satisfactory
- Disagree
- strongly disagree

PO 11 Can you perform oral health promotion including primary and secondary prevention, and tobacco habit cessation counseling

- Strongly agree
- Agree
- Satisfactory
- Disagree
- strongly disagree
-

PO 12 - Do you have the ability to respect community values, including an appreciation of a diversity of backgrounds and cultural values as apart of individual and professional ethics

- Strongly agree
- Agree
- Satisfactory
- Disagree
- strongly disagree


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