

International Journal of Scientific Research and Reviews

A Study on Sample Measuring the Attainment of CO-PO and Empowering the Students Through OBE Among Pedagogy of English Course in B.Ed Program.

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ABSTRACT

The important element of outcome-based education (OBE) is attainment of course outcome (CO) and program outcome (PO). Modified version of self-assessment report (SAR) by national board of accreditation (NBA) is the guidelines of this paper. NBA specified the OBE system in criterion 2,3 and 7. Specifically Criterion 2.6.2 emphasis the attainment of CO and PO. The sample measuring procedure done with all semester English pedagogical scores. Steps and procedure of attainment level and finding weak POs are addressed in this paper. In this assessment helps to find the weak POs and well-established POs mapping with course objectives. Based on the revised Blooms Taxonomy of educational objectives all the course outcome and program outcomes framed with its knowledge level. Education is the process of transferring knowledge, skill and content of subject oriented information. The traditional system lacking to measure the student's capacity. It concentrates only output based education. The twenty first century education system transferred in to the student's centric type of outcome-based evaluation. This would help to improve the course objectives towards outcome-based education and revise the curriculum development. This process of measuring not only consider the semester mark. It takes internal marks, practical marks, weightage of curricular and co-curricular activities, assignments and seminar grades and exit survey of program outcomes.

KEYWORDS: *Outcome based education; Self-assessment report; course outcome; program outcome*

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INTRODUCTION

Every institution has its their own vision and mission which is the root cause for producing the qualified students. This would be helping to enhance the program offered in the institution. The program designed with expected outcomes and related to course outcomes. The present education system transferring from output-based education to outcome-based education. This kind of process introduced in the institutions through National Board of Accreditation (NBA). The criteria 2,3 and enforce the self-assessment report (SAR) based on the measuring of course outcome (CO) and Program outcome (PO).

Teacher education program mainly focus pedagogical subjects. In this paper pedagogy of English course in all semesters taken for measuring the sample attainment level of students. The co and po framed by the concerned faulty using the action verb based on revised Blooms Taxonomy. Here the Course Attainment Level (CAL) fixed in 3 (above 60%) as highest level.

MEASURING STEPS

1. Constructing program outcomes based on the standardized format of NBA.
2. Framing Course outcome with reference of Blooms Taxonomy “K” level.
3. Preparation of Co and Po mapping Matrix.
4. Finding the average of all COs mapping with Pos.
5. Calculating the course attainment level.
6. Finding program outcome attainment level.
7. Exit survey from the coursed completed students for indirect PO attainment.
8. Setting the Target of all PO attainment.

SAMPLE TABLES AND CREDITS

Here the university grades and continuous assessment marks given an example from VISTAS, School of education, B.Ed., Program (2016-18). For the sample calculation English Pedagogy marks of all the four semesters and two practical examination marks were taken. The course code and course name present over here in the format of VISTAS deemed to be university, Chennai. Table 1.1 to 1.6 represents the course outcomes of each semester. Table 2.1 to 2.6 represents the CO and PO mapping matrix. Table 3 contains the average of Program level Course objective - PO Matrix for all the courses. Table 4.1 to 4.4 sows the course outcome attainment level. All the student’s practical attainment is above 60%. So, the highest attainment 3 has taken as default. Table 5 contains the program attainment value.

VISTAS School of Education

Program Name: B.Ed. (2016-2018)

1. Course Name : Pedagogy of English I Course Code : 16CBED18

Table:1.1 Course outcomes with course number and knowledge level

CO. No	K-level	Course outcomes
		Students will be able to
C101E.1	6	develop their communication skills
C101E.2	5	monitor different teaching aids to suit the needs of learners
C101E.3	4	analyze the aims and objectives involved in English language teaching
C101E.4	6	Construct the exercises for developing the language skills

Table:1.2 Mapping of Course outcomes and program outcomes

PO→	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101E.1	0	1	2	0	3	2	0	2	3	3	3	3
C101E.2	1	2	3	1	3	3	1	3	2	2	2	2
C101E.3	2	3	2	2	3	2	2	2	1	1	1	1
C101E.4	0	1	2	0	3	2	0	2	3	3	3	3
Avg.	0.75	1.75	2.25	0.75	3	2.25	0.75	2.25	2.25	2.25	2.25	2.25

2. Course Name : Pedagogy of English II Course Code : 16CBED28

Table:2.1 Course outcomes with course number and knowledge level

Co.No	K-level	Course outcomes
		Students will be able to
C201E.1	6	Develop their listening, speaking, reading and writing skills.
C201E.2	4	Select the skill of planning and write unit plan and daily lesson plan
C201E.3	6	Generate test items for evaluating students' and teachers' performance
C201E.4	6	Construct the lesson plan based on blooms taxonomy educational objectives.

Table:2.2 Mapping of Course outcomes and program outcomes

PO→	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C201E.1	-	1	2	-	3	2	-	2	3	3	3	3
C201E.2	-	3	2	-	3	2	-	2	1	1	1	1
C201E.3	-	1	2	-	3	2	-	2	3	3	3	3
C201E.4	-	1	2	-	3	2	-	2	3	3	3	3
Avg.	-	1.5	2	-	3	2	-	2	2.5	2.5	2.5	2.5

3. Course Name : Pedagogy of English – III Course Code : 16CBED38

Table:3.1 Course outcomes with course number and knowledge level

Co.No	K-level	Course outcomes
		Students will be able to
C301E.1	K5	analyze the English Language courses
C301E.2	K5	appraise an English language text book
C301E.3	K3	use the concept of English language in appropriate situation
C301E.4	K3	apply the conventional formulae in classroom interaction.

Table:3.2 Mapping of Course outcomes and program outcomes

PO→	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C301E.1	1	2	3	1	3	3	1	-	-	-	-	-
C301E.2	1	2	3	1	3	3	1	-	-	-	-	-
C301E.3	3	2	1	3	3	1	3	-	-	-	-	-
C301E.4	3	2	1	3	3	1	3	-	-	-	-	-
Avg.	2	2	2	2	3	2	2	-	-	-	-	-

4. Course Name : Pedagogy of English – IV Course Code : 16CBED48

Table:4.1 Course outcomes with course number and knowledge level

Co.No	K-level	Course outcomes
		Students will be able to
C401E.1	5	check the required traits for effective classroom management;
C401E.2	6	design language activities with different types of composition.
C401E.3	6	develop study skills and reference skills.
C401E.4	4	differentiate the poetic forms and poetic devices of English.

Table:4.2 Mapping of Course outcomes and program outcomes

PO→	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO401E.1	-	2	3	-	3	3	-	3	2	2	2	2
CO401E.2	-	1	2	-	3	2	-	2	3	3	3	3
CO401E.3	-	1	2	-	3	2	-	2	3	3	3	3
CO401E.4	-	3	2	-	3	2	-	2	1	1	1	1
Avg.	-	1.75	2.25	-	3	2.25	-	2.25	2.25	2.25	2.25	2.25

5. Course Name : Practical I Course Code : 16GPED21

Table:5.1 Course outcomes with course number and knowledge level

CO. No	K-level	Course outcomes
		Students will be able to
PR1E.1	3	apply the knowledge of micro teaching skills in teaching.
PR1E.2	3	interpret the observation ideas in the class room management.
PR1E.3	3	solve the needs of diversified learners.
PR1E.4	4	organize the teaching learning materials.

Table:5.2 Mapping of Course outcomes and program outcomes

PO→	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
PR1E.1	3	2	-	-	-	-	-	-	-	-	-	-
PR1E.2	3	2	-	-	-	-	-	-	-	-	-	-
PR1E.3	3	2	-	-	-	-	-	-	-	-	-	-
PR1E.4	2	3	-	-	-	-	-	-	-	-	-	-
Avg.	2.75	2.25	-	-	-	-	-	-	-	-	-	-

6. Course Name : Practical 2 Course Code : 16GPED41

Table:6.1 Course outcomes with course number and knowledge level

CO. No	K -level	Course outcomes
		Students will be able to
PR2E.1	6	Assemble the teaching learning material.
PR2E.2	6	Construct lesson plans with reference to Blooms Taxonomy.
PR2E.3	6	Design new methods for model teaching.
PR2E.4	6	Develop their communication skill in delivering the content.

Table:6.2 Mapping of Course outcomes and program outcomes

PO→	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
PR2E.1	-	-	-	-	-	-	-	-	3	3	3	3
PR2E.2	-	-	-	-	-	-	-	-	3	3	3	3
PR2E.3	-	-	-	-	-	-	-	-	3	3	3	3
PR2E.4	-	-	-	-	-	-	-	-	3	3	3	3
Avg.	-	-	-	-	-	-	-	-	3	3	3	3

PO – ProgramOutcomes

CO - Course Outcomes

Table :6.3 Average of Program level Course objective - PO Matrix for all the courses

S.No	Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	C101E	0.75	1.75	2.25	0.75	3	2.25	0.75	2.25	2.25	2.25	2.25	2.25
2	C201E	-	1.5	2	-	3	2	-	2	2.5	2.5	2.5	2.5
3	C301E	2	2	2	2	3	2	2	-	-	-	-	-
4	C401E	-	1.75	2.25	-	3	2.25	-	2.25	2.25	2.25	2.25	2.25
5	PR1E	2.75	2.25	-	-	-	-	-	-	-	-	-	-
6	PR2E	-	-	-	-	-	-	-	-	3	3	3	3

TABLE: 7.1 Percentage of students attaining course outcomes and attainment level for semester 1 English pedagogy

SUBJECT CODE		16CBED18											
SUBJECT NAME		PEDAGOGY – I											
		CAT – I				CAT – II				UE			
		CO1	CO2	AL	TL	CO3	CO4	AL	TL	CO1	CO4	TL	

S.No.	Reg. No.	10M	15M	25M	>=60%	10M	15M	25M	>=60%	10 GPA	>=60%	
1	16518101	8	9	17	Y	8	10	18	Y	7	Y	
2	16518102	8	10	18	Y	6	11	17	Y	7	Y	
3	16518103	8	9	17	Y	8	10	18	Y	8	Y	
4	16518104	7	10	17	Y	7	12	19	Y	8	Y	
5	16518105	6	9	15	Y	7	10	17	Y	7	Y	
6	16518106	8	12	20	Y	8	11	19	Y	9	Y	
7	16518107	6	12	18	Y	8	9	17	Y	6	Y	
8	16518108	5	12	17	Y	7	11	18	Y	8	Y	
9	16518109	5	9	14	N	8	10	18	Y	6	Y	
10	16518110	7	9	16	Y	8	9	17	Y	6	Y	
11	16518111	4	8	12	N	8	7	15	Y	7	Y	
12	16518112	6	12	18	Y	6	10	16	Y	7	Y	
13	16518113	6	10	16	Y	6	7	15	Y	7	Y	
14	16518114	7	9	16	Y	5	12	17	Y	8	Y	
15	16518115	AB	AB	AB	NA	AB	AB	AB	NA	AB	NA	
16	16518116	6	7	13	N	4	6	10	N	5	N	
					Y=13				Y=14		Y=14	
					N=02				N=01		N=01	
					NA - 01				NA - 01		NA - 01	
Avg. of Course Outcome Attainment					0.81				0.87		0.87	
Overall Course Outcome Attainment Level (COAL)						(3X 0.5 + 3 X 0.5)						3

TABLE: 7.2 Percentage of students attaining course outcomes and attainment level for semester 2 English pedagogy

SUBJECT CODE		16CBED28									
SUBJECT NAME		PEDAGOGY – II									
		CAT – I				CAT – II				UE	
		CO1	CO2	AL	TL	CO3	CO4	AL	TL	CO1 - CO4	TL
S.No.	Reg. No.	10M	15M	25M	>=60%	10M	15M	25M	>=60%	10 GPA	>=60%
1	16518101	8	9	17	Y	8	10	18	Y	8	Y

2	16518102	9	9	18	Y	6	11	17	Y	8	Y
3	16518103	8	9	17	Y	8	10	18	Y	7	Y
4	16518104	7	10	17	Y	7	11	18	Y	8	Y
5	16518105	7	10	17	Y	7	9	16	y	7	Y
6	16518106	8	12	20	Y	8	11	19	Y	9	Y
7	16518107	6	12	18	Y	8	9	17	Y	6	Y
8	16518108	5	12	17	Y	7	10	17	y	8	Y
9	16518109	8	8	16	Y	5	10	15	Y	6	Y
10	16518110	7	9	16	Y	8	9	17	Y	7	Y
11	16518111	8	10	18	Y	7	10	17	Y	8	Y
12	16518112	6	12	18	Y	7	11	18	Y	8	Y
13	16518113	6	10	16	Y	6	9	15	Y	7	Y
14	16518114	7	11	18	Y	5	12	17	Y	9	Y
15	16518115	7	8	15	Y	7	10	17	Y	7	Y
16	16518116	6	7	13	N	4	6	10	N	5	N
					Y-15				Y-15		Y-15
					N-01				N-01		N-01
					NA - 0				NA - 0		NA - 0
Avg. of Course Outcome Attainment					0.93				0.9		0.93
Overall Course Outcome Attainment Level (COAL)							(3X 0.5 + 3 X 0.5)				3

Table: 7.3 Percentage of students attaining course outcomes and attainment level for semester 3 English pedagogy

SUBJECT CODE		16CBED38									
SUBJECT NAME		PEDAGOGY – III									
		CAT – I				CAT – II				UE	
		CO1	CO2	AL	TL	CO3	CO4	AL	TL	CO1 - CO4	TL
S.No.	Reg. No.	10M	15M	25M	>=60%	10M	15M	25M	>=60%	10 GPA	>=60%
1	16518101	8	9	17	Y	8	10	18	Y	8	Y
2	16518102	6	8	14	N	8	10	18	Y	7	y
3	16518103	8	9	17	Y	8	10	18	Y	8	Y
4	16518104	4	11	15	y	7	10	17	Y	8	Y
5	16518105	4	6	10	N	7	9	16	Y	7	Y
6	16518106	8	12	20	Y	8	11	19	Y	9	Y
7	16518107	6	12	18	Y	8	9	17	Y	8	Y
8	16518108	5	12	17	Y	6	10	16	Y	8	Y
9	16518109	8	11	19	Y	8	10	18	Y	9	Y
10	16518110	7	6	13	N	8	9	17	Y	7	Y
11	16518111	9	8	15	y	8	7	15	Y	8	Y
12	16518112	6	12	18	Y	6	6	12	N	8	Y
13	16518113	6	10	16	Y	6	7	15	Y	8	Y
14	16518114	7	8	15	y	5	12	17	Y	8	Y
15	16518115	7	8	15	Y	7	6	13	N	9	Y
16	16518116	6	5	11	N	4	6	10	N	7	y
					y-12				y-13		Y-16
					N-03				N-3		N-0
					NA-0				NA-0		NA-0
Avg. of Course Outcome Attainment					0.75				0.81		1
Overall Course Outcome Attainment Level (COAL)							(2.75 X 0.5 + 3 X 0.5 = 3)				2.86

Table: 7.4 Percentage of students attaining course outcomes and attainment level for semester 4 English pedagogy

SUBJECT CODE		16CBED48									
SUBJECT NAME		PEDAGOGY OF ENGLISH – IV									
		CAT – I				CAT – II				UE	
		CO1	CO2	AL	TL	CO3	CO4	AL	TL	CO1 - CO4	TL
S.No.	Reg. No.	10M	15M	25M	>=60%	10M	15M	25M	>=60%	10 GPA	>=60%
1	16518101	8	8	16	Y	6	7	13	N	8	Y
2	16518102	6	9	15	Y	6	7	13	N	7	Y

3	16518103	7	10	17	Y	6	10	16	Y	7	Y
4	16518104	6	10	16	Y	6	9	15	Y	7	Y
5	16518105	6	9	15	Y	8	10	18	Y	7	Y
6	16518106	10	13	23	Y	8	10	18	Y	9	Y
7	16518107	7	12	19	Y	6	10	16	Y	8	Y
8	16518108	6	8	14	N	7	10	17	Y	8	Y
9	16518109	10	12	22	Y	8	12	20	Y	8	Y
10	16518110	10	12	22	Y	8	10	18	Y	8	Y
11	16518111	6	9	15	Y	6	10	16	Y	8	Y
12	16518112	7	9	16	Y	8	7	15	y	8	Y
13	16518113	10	13	23	Y	10	12	22	Y	8	Y
14	16518114	7	12	19	Y	7	10	17	Y	8	Y
15	16518115	8	10	18	Y	8	12	20	Y	9	Y
16	16518116	5	7	12	N	6	7	13	N	6	Y
					Y-14				Y-13		Y-16
					N-02				N-03		N-0
					NA-0				NA-0		NA-0
Avg. of Course Outcome Attainment					0.87				0.8		1
Overall Course Outcome Attainment Level (COAL)								(3X 0.5 + 3 X 0.5)			3

TL - Target Level >= 60%						TL – Target Level				
CAT - CONTINUOUS ASSESSMENT TEST						Y - TL Achieved				
AVG. – AVERAGE						N - TL Not Achieved				
UE- UNIVERSITY EXAMINATION						NA - Not Applicable of TL				

Table :8 Program outcome attainment values

S.no	Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	COAL
1	C101E	0.75	1.75	2.25	0.75	3	2.25	0.75	2.25	2.25	2.25	2.25	2.25	3*
2	C201E	-	1.5	2	-	3	2	-	2	2.5	2.5	2.5	2.5	3*
3	C301E	1.90	1.90	1.90	1.90	3.00	1.90	1.90						2.86*
4	C401E	-	1.75	2.25	-	3	2.25	-	2.25	2.25	2.25	2.25	2.25	3*
5	PR1E	2.75	2.25	-	-	-	-	-	-	-	-	-	-	3*
6	PR2E	-	-	-	-	-	-	-	-	3	3	3	3	3*
	Direct PO attainment	1.80	1.83	2.10	1.33	3.00	2.10	1.33	2.17	2.50	2.50	2.50	2.50	
	Indirect PO attainment	2.84	2.77	2.82	2.7	2.62	2.59	2.67	2.61	2.59	2.59	2.7	2.66	
	Overall PO attainment	2.00	2.01	2.24	1.6	2.92	2.19	1.59	2.25	2.51	2.51	2.54	2.53	
	Target set#	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	

- hypothecated value

* - Assumed Value

MEASURING PROCEDURE:

- CO- PO mapping Matrix and attainment values are computed as shown in Table II.
- Average of all course hypothecated values presented in Table III.
- The overall course attainment levels of all courses computed in Table IV.

- The PO values presented in the cells Table V is corresponding cell value from Table 3 X Overall COAL / highest COAL 3. The average of all PO present in cells of Table V is direct PO attainment. Exit survey average of PO value is indirect PO attainment.
- Finally, the Overall PO attainment computed by adding the direct and indirect PO ratio 80:20 respectively.

CONCLUSION:

The credential of English pedagogy courses in B.Ed program has taken for this measurement process. The students achieved in targeted level. The weak program outcomes are PO4 and PO7. These POs will be revised in upcoming curriculum frame. This evaluation process is useful for further improvement in curriculum and teaching learning process. The analysis of PO values will help to revise the syllabus and enhance the course objectives.

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