IJCRT.ORG

ISSN: 2320-2882



INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS (IJCRT)

An International Open Access, Peer-reviewed, Refereed Journal

Attainment of Course Outcomes - a tool to assess the proficiency of L S R W SKILLS in English?

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ABSTRACT

Outcome based education is the demand of the day for all professional degrees where the traditional education is taking a backseat. The focus on outcome based education creates a clear expectation of what students need to do by the end of the course. The traditional approach of teaching is teacher centric where as the OBE model is student centric. It is the Cos (Course Outcomes) paves the way for learning outcomes. For each course, there are certain Course outcomes which are analyzed taking the program outcomes and other requirements into account. Program outcomes are the twelve graduate attributes as set by NBA. COs are the measurable attributes which needs to be assessed at the end of successful completion of the course. Each course under the program has its own set of Cos. The present paper throws a light in the process to measure the COs through a case study on CESS (Communicative English and Soft Skills), a course compulsory for all branches of Engineering students. The analysis and the result of the course outcomes is shown through CO attainment in the CO-PO Matrix.

KEY WORDS-Course Outcomes, Outcome Based Education, CO-PO Matrix.

1. INTRODUCTION

What is constant in the world? The ultimate answer would be the change and education is not an exception to that. Outcome Based Education promotes life long learning and skills. It allows students to demonstrate their knowledge in the concerned field at the end of the course which traditional approach of teaching do not. Students in OBE is trained to take decision in personal and professional lives which is completely opposite to the traditional approach of teaching where they only depend on the advised of their teacher and only remember the chunk of information. The objective of education is learning not teaching. The OBE model expect that the teachers to devise a new methodology of teaching to meet the learning outcomes of the courses for the professionals. (Harden R. M.,

2007). Educational institutes now a day's dependent more on OBE (Outcome Based Education) than the traditional one. An outcome-based model seems entirely appropriate in the current educational scenario as it focuses more on practice and allows the teachers to explore various methods of teaching and acquire the learning outcomes. Therefore in pursuit of academic innovation, eminence and excellence the Higher education in India which embraces all Undergraduate and post graduate professional degrees looks forward to get an accreditation form NBA (National Board of Accreditation) in all its Courses. The basic objective of the NBA accreditation for all its courses is to focus on quality education and global recognition of the courses and institutions. Outcomes are "not the score, label, grade, or percentage that someone attaches to the demonstration, but the substance and actions of the demonstration itself" (Spady, 1998, p.25). Kudlas(1994) holds that Outcome-Based Education (OBE) is a process that focuses on what is to be learned – the outcome. Outcomes are demonstrations of learning – they are the things that learners can do as a result of their learning. Traditional method of teaching learning was emphasizing more on rote learning without focusing on meaningful learning where as OBE focuses more on Learning Outcomes which is the need of the hour. It is the learning outcomes which promotes employability of graduates at the end of their concerned courses or Programs of study. LO (Learning Outcomes) are the subject knowledge values and subject expertise one has to procure at the end of a course. While preparing the course curriculum, the framer of curriculum should bear the Cos in the mind and that has to be acquired by the students at the end of the syllabus. (Biggs & Tang, 2009) emphasized that students' learning is more important than the teachers' teaching. As OBE has been following the ABET, therefore it focuses more on assessment of learning outcomes. Bloom's taxonomy illustrates the different learning outcome attributes. Knowledge, skill and attitude of a candidate which the candidate has to attain at the end of a course as well as program. The learning outcomes constitutes Cos and Pos.

Course Outcomes are "not the score, label, grade, or percentage that someone attaches to the demonstration, but the substance and actions of the demonstration itself" (Spady, 1998, p.25). Williams (cited in Tavner, 2005) states that outcomes should be transparent and fair at the same time it focuses more on achievement of results which could be gained by administering different tasks and activities.

Plan whe within th Course I objective The Cou	eginning of the academic session the teachers of the concerned subjects prepare the Lesson erein they would highlight the number of lecture hours needed to complete the syllabus he allocated span of time. At the same time they need to mention the Course Objectives or Learning Objectives which the teachers can observe and experience that the learning hes are realized by the students with the help of Course Outcomes through Course Attainment. Herse Outcomes of the present subject CESS(Communicative English and Soft Skills) is steed belowCourse Outcomes: Towards the end of the course, the students will be able Understand the importance of effective communication for professional development
CO2	Use vocabulary and grammar for effective communication.
CO3	Apply Information and Communication Technology(ICT) for career development
CO4	Nurture and motivate positive attitude towards placements.

To Spady (1998)Learning Outcomes are always significant and important rather than insignificant and unimportant. If the professional students could utilize their learning to be placed in different companies or in their real life, we can affirm Outcome based learning is achieved by them. The above Course Outcomes are applicable to all units of the syllabus of CESS. The present paper will focus how to assess the course outcomes through course attainment.

2. CESS SYLLABUS IN A NUTSHELL

The above syllabus is compulsory to all branches of students of engineering in the first semester and it carries 2 credit point. The syllabus has been divided into four units and all these four units carry equal importance in distribution of marks in mid semester and end semester examinations. At the beginning of the Semester the concerned teacher has to prepare a lesson plan along with the lecture notes and the teacher has to map the course out comes with the program outcomes. The course outcomes of the above syllabus is made with a hope that the students could able to learn the content effectively and can utilize the same in different spheres of their life. (Biggs & Tang, 2009). Selection of course outcomes for the given syllabus has been prepared by following the action verbs laid in Blooms Taxonomy in OBE.

The syllabus has four COs(Course Outcomes). The course outcomes have been explained to the students during commencement of classes. Once the students able to realize the importance of the COs, it would be quite easy for the teachers to deliver the contents to them and students could realize the cause of their learning as a whole.

Examinations are conducted as per the academic calendar and their performances in the exams are recorded. The present paper will show the record of performances of few students for the course outcome attainment in the co attainment matrix.

The rest of the process of examination is explained in the sub heading Assessment Process.

3. ASSESSMENT PROCESS

Evaluation is an integral part of teaching learning process and which needs to be done judiciously. There are two methods assessment one is Formative Assessment and the other one is Summative assessment. Summative assessment comprises of Continuous internal evaluation and end semester evaluation.

We at GIET, Gunupur follow the continuous internal evaluation process to assess the candidate's performance at the end of the End Semester examination. The internal evaluation process involves VST (Very Similar Test), which is conducted by the institute after fifteen days of commencement of regular classes in the Odd/Even academic session and continues till the second Mid-Semester examination. The Engineering students will write at least two or three VST examinations before the commencement of Semester exam. The pattern of question paper would be of 10 short answer questions carrying two marks each. The students will answer these ten questions with the help of thirty minutes. All questions are given with the CO-PO.

The second kind of procedure we follow over here is mid semester examinations. There would be two mid semester examinations for all subjects before the commencement of End Semester examination. The first mid semester examination is generally held soon after the completion of two modules of the concerned subject and the second mid semester exam is held at the end of the syllabus. The question papers for mid one and two are completely different from one another as the first mid semester will focus on the contents of the first two modules/units of the syllabus where as the second mid semester focuses the rest of the modules of the syllabus without including the syllabus which has already been covered in the first mid semester.

The candidates' performance in the above examination is shown to them as well the teachers of the concerned subjects sent the marks to their respective parents through PMS soon after the procedure of assessments is over. PMS stands for Proctorial Management System where in the candidates entire academic activities are recorded and the performance of the candidate in various examinations are being sent to their respective parents through this. Selection of tasks and activities for assessing student standard should be uniform to have a judicious evaluation of their standards in the concerned subjects focused by Killen (2007) and Griffin (1997).

The final grade to a candidate is awarded taking the performance of the internal evaluation as well as the performance of the end semester examination into account.

There are four units in the subject CESS and all units carry equal importance and uniformity of distribution of marks are being maintained while framing questions for different examinations for the given subject..All question papers for different exams like VST, MID-1 &MID-11 along with End Semester exam show the CO-PO against each questions which ultimately helps the student to comprehend

the question better and thereby they write better for achieving good scores. The score of the candidates in different exams like VST, MID-1 and MID-11 of a particular Section and batch has been shown in CO- ATTAINMENT Matrix Sheet below respectively.

The Course Assessment Matrix Sheet below explains the Course Outcomes with reference to target fixed by the

department for Course Attainment. In VST/MID-1/MID-11 the target fixed versus target achieved is shown and maximum number of students achieved target shown in terms Y. Y in the matrix of CO assessment stands for" Yes" i.e. the students reached the target as fixed by the department.

A discussion on Outcomes and assessment

Outcome happens to be the only aspect of OBE. There has always been a big debate between the Outcome and the input incurred by the students in the assessment process. There is a shift from the class based assessment to individual assessment. Outcomes can be assessed with the content and its competence at the end of the syllabus. Once outcomes are decided, the curriculum designers have to fix a set target for their performance. Language assessment focuses more on the communicative competence rather than knowledge on the language itself. The teacher should acquaint the students about the Outcomes of the course which they have to bear in their mind to demonstrate their abilities at the end of the course.

Assessment of uniform, reliable tasks of the given contents can lead to better outcomes. Judicious assessments of the tasks and activities can give better feedback of the students performance. Killen (2000) has stressed that assessment should be reliable, consistent, fair and judicious. Spady (1994) has already mentioned the task base, criterion based and performance based assessment for student .Brindley(1989:44) suggested to incorporate criterion referenced tasks to assess students' performance in a given task or course. Assessment is closely associated with instructions given by the instructors. The LSRW skills of English for the second language learners can be assessed by assigning descriptors which would assess the user's ability to use languages in different context in accordance with the frame work of communicative language ability proposed by Bachman and Palmer (1996). The curriculum designer has to keep in mind the things to be evaluated for the students and the teachers need to frame questionnaire to meet the assessment criteria and to achieve the outcomes of the course at the end.

Assessment Methodology

Sample

A sample of 54-56 students answer scripts of different examinations like VST, IST MID ,2nd MID TEST of a particular section has been analyzed and the marks awarded to the students have been displayed in the matrix. The target has been fixed as the 60 percent and the students those who have scored 60 or above in the said examinations have been put "Y" against them as yes achieved the target as set by the teacher.Result and Discussion

The marks against the students in different examinations have been recorded and analyzed for the achievement as set by the teacher. The students those who have scored 60% as set target has been marked Y and those who have scored less than 60% has been left blank in the matrix.

In the CO-ATTAINMENT MATRIX-1, it has been found that out of 54 students ,50 students achieved the target i.e. 93% of the total students who have been able to achieve the target.

There were 03 students those who scored 50-60%, have been placed as the moderate students and after adequate training and practice with different tasks and modules they can really achieve the target.

There was only 01 student who has been categorized as Low referring to the score 40-50% and who has not been able to achieve the set target as fixed by the teacher.

CO-PO mapping has been done with the correlation levels 1,2,and 3 and the notations 3 stands for high degree of correlation, 2 stands for moderate degree of correlation and 1 stands for low degree of correlation.

In the CO-ATTAINMENT MATRIX-2 it has been found that out of 56 students 38 students could able to achieve the target as set by the teacher. The analysis says "Y" has been marked against them as they have scored a percentage of above 60 in the exam.

Around 12 students could not able to meet the set target as fixed by the teacher, hence they have been categorized as moderate students whose number is one fifth of the total students whose script has been evaluated. Those students can achieve the target by means of training and practice with the designed tasks and modules.

Six students have been placed under the category of low performing students as they have scored less that is 40-50% in the given test. They could meet the set target only when they would be exposed to more number of activities and they keep doing practice in those tasks and activities and they would be exposed more to different modules on the given subject.

In the CO-ATTAINMENT MATRIX-3 shows that 19 students out of 56 students could able to achieve the target where set target has been achieved by the one third students of the total whose scripts have been evaluated for the purpose of the study.

Twenty five students have been diagnosed as moderate who needs bit of extra effort to meet the set target.

Twelve students have been categorized as low performing students who needs rigorous practice to meet the set target as fixed by the teacher.

GANDHI INSTITUTE OF ENINEERING & TECHNOLOGY, GUNUPUR (AUTONOMOUS) DEPARTMENT OF BASIC SCIENCE & HUMANITIES 1st SEMESTER COURSE ASSESSMENT - DATE OF 14/09/2018 (Dr.BPG MAHAPATRA)

CO1-Towards the end of the course the attadent will be able to understand the importance of effective communication for professional development

	VST-I	2	2	2	2	2	2	2	2	2	2	20			Gradin	Targe
	SEC-A	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	T.Mark	T.Mark	760	Based on	>0r=
_		rme.	CH1/PO-	C01/PO-	CDT/PO-	681/	C01/P0-	C01/P0-	COL/PO-		C01/P0-				Scale-3	
		E01/ F0-18	18	18	10	PO-18	10	18	18	10	18					
ik.	ROLL NO	82	811	101	81	101	83	RI	R.I.	K1	1630	Obt.	Atten-			50%
1	18CSE002	2	1	1	2	2	2	2	0	0	2	14	20	70	3	Y
2	18CSE003	2	0	2	2	2	2	2	2	0	2	16	20	80	3	Y
3	18CSE004	2	0	1	2	2	2	2	1	0	2	14	20	70	3	Y
4	18CSE005	2	0	2	2	2	2	2	1	1	1	15	20	75	3	Y
6	18CSE007	2	1	2	1	2	2	0	2	0	1	13	20	65	3	Y
7	18CSE009 18CSE011	2	0	0	2	2	2	0	1	0	2	11	20	55	3	Y
8	18CSE012	ő	0	1	2	2	1	1	2	1	î	11	20	55	3	Y
9	18CSE013	2	1	- 2	2	2	2	0	1	2	2	16	20	80	3	Y
10	18CSE014	2	0	2	2	2	2	2	2	.0	0	14	20	70	3	Y
11	18CSE016	2	0	1	2	2	2	1	2	0	2	14	20	70	3	Y
12	18CSE017	2	1 2	2	2	2	2	1	2	0	1	15	20	75	3	Y
13	18CSE018 18CSE019	2 2	2	2	2 2	2	2	2	2	1	2	18	20	90	3	Y
15	18CSE019	2	1	1	2	2	2	2	2	1	2	17	20	95 85	3	Y
16	18CSE021	2	1	1	1	2	2	2	2	1	2	16	20	80	3	Y
17	18CSE023	2	1	1	2	2	2	0	2	0	1	13	20	65	3	Y
18	18CSE025	2	0	2	2	2	2	2	0	0	2	14	20	70	3	Y
19	18CSE026	2	0	0	2	2	2	2	0	1	2	13	20	65	- 3	Y
20	18CSE028	2	0	2	2	0	0	0	1	0	2	9	20	45	2	
21	18CSE030	2	2	2	2	2	1	0	1	0	2	14	20	70	3	Y
22	18CSE033	2	1	2	2	2	2	2	2	0	1	16 15	20	80 75	3	Y
24	18CSE036	2	2	2	2	2	2	2	2	0	1	17	20	85	3	Y
25	18CSE037	2	2	2	0	2	0	2	1	0	î	12	20	60	3	Y
26	18CSE040	2	1	2	2	2	2	2	2	1	1	17	20	85	3	Y
27	18CSE042	2	2	2	2	-2	2	0	0	0	1	13	20	65	3	Y
28	18CSE043	2	0	1	2	2	2	2	1	0	1	13	20	65	3	Y
29	18CSE045	2	1	2	2	2	2	2	0	1	1	15 5	20	75	3	Y
30	18CSE046	2	1	1	2	2	2	2	2	0	2	17	20	25 85	3	Y
32	18CSE049 18CSE050	2	1	1	2	2	2	2	1	0	0	13	20	65	3	Y
33	18CSE051	2	1	2	2	2	2	2	2	1	2	16	20	90	3	Y
34	18CSE053	2	0	2	2	2	0	0	0	1	2	11	20	55	3	Y
35	18CSE055	2	1	2	2	2	2	2	2	- 1	1	17	20	85	3	Y
36	18CSE058	1	0	2	2	-1	0	1	1	1	1	10	20	50	3	Y
37	18CSE059	2	1	2	2	2	1	2	1	1	2	16 16	20	80	3	Y
39	18CSE060 18CSE061	2	2	2	2	2	2	2	2	1	2	18	20	90	3	Y
40	18CSE064	2	1	1	2	2	2	2	2	0	2	16	20	80	3	Y
41	18CSE066	2	1	2	2	2	2	2	2	1	2	18	20	90	3	Y
42	18CSE067	0	1	2	2	2	2	2	2	2	2	-17	20	B5	3	Y
43	18CSE071	2	0	2	2	2	0	0	0	0	0	8	20	40	2	
44	18CSE076	0	2	2	2	2	2	2	2	1	2	9 19	20	45 95	3	Y
45	18CSE077 18CSE078	2	2	2	2	2	2	2	2	1	2	19	20	95	3	Y
47	18CSE078	2	1	1	2	2	2	2	2	1	2	17	20	85	3	Y
48	18CSE080	0	2	2	2	0	0	Ô	2	0	2	10	20	50	3	Y
49	18CSE081	2	1	2	2	2	0	1	0	1	2	13	20	65	3	Y
50	18CSE082	2	1	1	0	2	2	2	1	1	2	14	20	70	3	Y
51	18CSE083	2	1	2	2	2	2	0	1	1)	1	13	20	65	3	Y
52	18CSE084	2	2	2	2	2	0	2	1	2	- 75	15	20	75	3	Y
53	18CSE085 18CSE087	2	0	1	2	2	2	0	0	1	2	14	20	70	3	Y
34	18CSEU87	- 4	1	1	- 2	- 2	- 2	0	1	1	- 2	14	20	SUM	157	1

PO	Distribution Level	No of Students	96
a	3- Strongly related	50	93%
co	2- Moderate	3	56%
	1-Low	1	196

CO-ATTAINMENTMATRIX-2



GANDHI INSTITUTE OF KNINEERING & TECHNOLOGY, GUNUPUR (AUTONOMOUS) DEPARTMENT OF BASIC SCIENCE & HUMANITIES BND SEMESTER DATE OF KKAM OBUSYOUS

	MID-I	12	-2	14.		1.						1/6	BUBAR		3.0	3.0	34		Gradies	Tiergort
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1	17ME001	2	2	2	2	2	2	2		2	2				7	. 7	32	0.0	3	. Y
3	17ME002	- 2	. 2	1	2	7	.1	-2	0	2	-2	7	-6			. 5	36	72	3	Y
.31	17ME003	2	2	2	2	2	2	2	2	2	2		-		4		32	.64	3.	¥
*	17ME006	2	2	-	2	1	2	2	2	2	2	7	4			7	36	72	3	Y
6	17ME007	2	2	2	- 8	2	2	2	1	2	2	7	. 6		6	3	35	76	3	Y
7	17ME009	2	2	2	2	2	-	2	1	2	2		-	-	-		37	74	2	Y
0	17ME010	7	2	12	2	2	2	1	2	2	2	-	1		3	-	34	60	2	Y.
9	17ME011	1	2	1	2	2	1	2	7	1	2	7				7	42	114	3	Y.
10	17ME012	- 1	2	2	2	.0	1	0			2	-	2				1#	34	2	
11	17ME013	- 2	2	2	- 2	2	.4.	1	1.	-1	3.	- 5			5	5	25	50	31	Y.
11	37ME014	2	- 2	1	- 2	1.	1	. 1	1	2	2		- T		7	6	+0	HO	3	Y
13	17ME015	.0	1	2	2	2	- 2	-1	0	1	2		+				24	40	3	
14	17ME016	-2	2	2	2	2	2	2	.0	1	2	. 4			15		26	12	3	Y
15	17ME017	3	-2	1	2	2	2	2	-	- 2	2		-			6	30	60		Y
16	17ME018	1	2	2	2	- 11	2	1	1	1	1	- B	- 6	-	-		33	66	3	A.
17	17ME019	2	2	2	2	2	2	2	2	2 2	2	7.	7		-	6	33	66	3	Y
19	17ME021	2	2	2	2	2	1	2	1	2	2	4	-		7	6	35	76	3	Y
20	17ME022	7	2	1	2	1	1	2	1	7	2	+			-	5	29	508	2	. 4
21	17ME023	2	0	0	2	2	2	2	2	-	2	0.					26	52	3	Y
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22	17ME024	2	- 2	0	2	2	2	2	2	2	- 2	- 6-		_		-	37.	74	3	Ψ.
23	17ME025	- 2	3	0	.0	2	2	. 2	1.	1	2	6	- 6			- 5	31	62	1.	Ψ.:
24	17ME026	2	2	0	.0	2	2.	1	7	2	2						28	58	9	Ψ.
25	17ME827	2	2			2	1	1		-	2	5	4				19	36	2	
26	17ME028	2	3	0	3	2	1	1		. 1	1	-	-				12	24	10	
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34	17ME030	- 8	3	8	8	2	1	1	1	.5	2	7	7				32	64	3.	Υ.
28	17ME032	1	1	0	.0	2	1.	2	.01	1.	2					. 0	310	36	2	-
29	17ME034	0	3	0	.0	2	2	2	1.	3	3	2	1				16	34	2	
30	17ME036	- 2	0	n	2	2	1	1	1	1	2	7				1	18	36	2	
-	-	0	-	-	-	-	-		-	-	2	-	-				-	-	1	
31	17ME037		2	0	0	0	.1.	-		-	-	5:	-1	_		1	21	47	-	
32	17ME038	Ð	3	0	- 0	1	1	.2	1	3	2		7				38	66	3	y :
33	17ME039	2	2	2	2	2.	1.	1									32	24	1.	
34	17ME040	2	2	0	2	2	2	2	2	.0							14	28	1.	
115	17ME044		2	0	2	2	1	1	1	-1	2	2.	1			6	21	62	2	
	BOARDON PROPERTY.	-	-	-	-	-	-	-	-	-	-	-			-	-	_	-		
36	17ME045	2	1	0.	2	2	2	1	3	2	- 2	3:			*	3.	30	60	8	A
37	17MEB46	2.	2	.0	2	2	2	2	2.	2.	2						18	36	2	
30	17ME047	2	3	0	. 2	2	2	- 2	-	-	2					. 4	25	50	W	Υ.
39	17ME048	2	2	2		2	2	2	0	2	2	7			9.	7	37	74	9	V.
			-	-	-	-	-	-		-	-	-	-		-				_	
40	17ME049	0	2	2	-0	2	1	2	1	-	1	-	3			+	10	36	. 3	Y
41	17ME050	1	2	0	0	1	1	1	-	-	2	1		-		3	15	30	1	-
43	British Street, Street	-0	2	0	0	2	0	0		-					-		2	14	1	-
41	17ME052	2	2	0	0	2	2	2	1	2	2	3	4			1	25	14	2	
45	17ME059	2	1	2	2		1	1	2	2	2	-	4		2	1	24	10	1	Ψ.
46	17ME062	0	2	2	2	1	_	-		-					-	-	- 0	16	1	-
47	17ME0147	2	2	0	2	2	- 0	2	- 0	2	2	5	4				77	54	- 8	Ψ.
46	17ME0149	2	2	D	2	2	1	0		1	- 1	ž	-2				15	Pd	2	7.0
49	17ME0150	2	2	2	2	2	2	2	14	- 2	.2	- 6			3		31	62	3	Y
50	17ME0151	3	3	2	2	2	3	- 2	2	. 5	. 2						44	99	3.	Y.
51	17ME0153	- 2	2	0	- 0	2	2	2	1	2	- 2	5	- 1			2	31	62)	Y
52	17ME0154	3	3	2	2	2	2	-2	-	2	2						18	54	3.	
53	17ME0155	0	3	0	3	1	1	1	1	1	2	.5	- 5		3		30	60	Y.	- Y
54	17ME0157	1	2	2	2	2	1	1	0	1	- (1	7					21	42	2	
56	17ME0158	2	2	2	2	2	2	2	-	-	-	3 5	-				11	24	1.	-
56	17ME0159	- 2	2	2	2	0.	2	2	2	- 2	2	5	2		-		30	60	3	Ψ.
50			-	-	-	-	-					-					_			
59				-	-							-					-			
700																				-
		-	_	_	_															
61																				

Total so students -56

TOtal of students must achieve 60% and above

No of students achieve 60% and above

No of students achieved.

COST. Towards the end of the course the student will be able to determine the resultant fings and sussent for a given func system.

So of students achieved CD-76%

CD results Achieved.

2200	Distribution Level	No of Students	26
PO &	3- Strongly related	38	
nuale	2- Moderate	32	
	1-Low	.0.	

CO-ATTAINMENTMATRIX-3



GANDHI INSTITUTE OF ENINEERING & TECHNOLOGY, GUNUFUR
(AUTONOMOUS)

DEPARTMENT OF BASIC SCIENCE & HUMANITIES
2ND SEMESTER
DATE OF BASAM
COURSE ASSESSMENT (KUNA BIBAJO

	MID-II	- 2	2.	-2	-11-	1		2	SSME	1	-	.18	-19	3.0	1,0	30)		Grading	Time
	SEC-A			0.8					02			401	Q#	60	494	Littern	No.	Based on	neer
LINE	MOUL NO	.78	b		1.0			h.	*	- 16						659,0		State-2	0.0%
1	- Andrews	- 2	2	2	0		2	1	2	2		4	.3	4		24	48	2	
2	17ME002	2	2	2	2	. 2	- 1	1				- 6	.0			24	48	2	
3	17ME003	- 2	5	2	.5:		1	1	1	-1	5	- 6	- 6		5	31.	62	3	. У
4	17ME006	2	2	2	0	0	:0:	0	0	0	0	0	0	0	0	6	12	1	
5	17ME007	- 2	2	2	2	2		2	2	- 2		4	4	3		27	54	3	Y
6	17ME008	- 2	2	3	3	2	2	2	2			4	- 5	4		39	58	3	Y
7	17ME009	2	2	2	2	2	1	1.	1	1			- 6	0	5	31	6.2	3	Y
8	17ME010	- 2	_	3	2	2	_		2	. 1	5	_	3		4	24	48	- 2	_
9	17ME011	.1	2	2		- 2	2	2	2	2	. 2	. 0	- 6	.01		46	80	1	Y
10	17ME012	- 2	2	2	2	2	0	-	2	2	-	5	- 2	-2		23	46	2	
11	17ME013	2	2	2	2	-	1	1	1	1	1		-	-		13	26	2.	
12	17ME014 17ME015	2 2	2	2	2.	2	2 2	2 2	2	2	4	4	3	-	-	27 19	38	1 2	Y
-	-	2	- 2		- 2	2		- 2	2		2		3	-	-	-	50	3	Y
15	17ME016	2	2	2 2	2	2	_	2	2	2	-	4	4	2	4	26	52	3	Y
16	17ME017	2	2	2	-	-	2	2	-	2	-	4	3	2		21	42	2	
17	17ME019	2	2	3	_	2	2	2	2	3	_	6	-6	6	_	34	68	1	y
10	17ME020	2	2	2	_	2	2	2	2	2	-	7	5	0		34	68	3	Y
19	17ME021	2	-	2	2	2	-	-	2	1	2	-	3	4	4	24	48	2	_
_		-		_	-		_	_	-	_	-	-					_		_
20	17ME022	2	. 2	3			2	27		-3		4	.3			19	3.8	2.	
21	17ME023	2	2	2	2	1	- 1	1	1	1	- 1					13	26	1	
22	17ME024	2	2	3:	2:	- 2	1.	1.	1	- 1			-6	-6	6	32	64	3	Y
23	17ME025	- 2	2	2	2	2	0	-	2	2		5	2	2		23	46	2	
-	-		-	-	_			-	-	-	-	-	-	-	-	-	-		_
24	17ME026	2		2	2	2			2:	-1	2		-3	4	4:	24	48	2	
25	17ME027	2	- 2	2	2	- 2	.0	0	0	0	.0	.0	0	0	0	10	20:	1	
26	17ME028	2	0	2	2	2	2	2								12	24	1	
27	17ME030	2	2	2		-	2	2	_	2	_	3	3	-		18	36	2	
	_		_	-		-		-	-		-	-	-	-		9	-		_
28	17ME032	2	2	2	2		1	-	_		-	-		-		_	18	t	_
29	17ME034	2	2	2			2	2		2		4	3			19	38	2	
30	17ME036	2	2	2			2	2		2			0	1	3	18	36	2	
31	17ME037	. 2		2	2	12			2	-1	2		3	4	4	24	46	2	
32	17ME038	2	2	2		2	2	2	2	2		2	5	7		35	76	3	Y
*****	and the same of th	-	-	_	_		-	-		-	-	-	_	-		-	-		
33	17ME039	2	2	2			2	1		-1		.0	0	3	3.	16	:32	2	
34	17ME040	2	2	2			2	2		2		.0	.0	3	1	10	36	2	
35	17ME044	2		2	2	2			2	-1	2		.3.	4	5	25	50	3	Y
36	17ME045	2		2	2	2			2	- 1	2		. 3	3	3	22	44	2	
37	17ME046	- 2	- 2	2			- 2	2		2		-8	-0	3	3	18	36	2	
30	17ME047	2	0	2	2	- 2	2	2	1							13	26:	1	
39	17ME048	.2		2	2	.2			2	31	2		-3	36	5.	25	50	3	Y
40	17ME049	2	2	2		100	2	2		2		0	. 0	3	3.	18	36	2.	
41	17ME050	2		2	2	2			2	-1	2		: 3	4	0	26	32	3	Y
42	17ME051	2	0	2	2	2	2	2							- 1	1.2	24	1	
43	17ME052	2		3	5	- 2			5.	1	. 5		-5		5	27	54	3	
44	17ME059	2		2	2	- 2			2	0	2		.5	- 6	ñ:	29	58	3	Y
45	17ME061	2		2	2	2	_		2:	1	-2		3	3.	3	22	44	2	
46	17ME062	2	2	2	-	-	2	2	-	2		0	0	3	3	18	36	2	
47	17ME0147	2	2	2	2		1	- 1	1	1	2	n	- 6	-	4	30	60	3	Y
48	17ME0149	2	- 0	2	2	2	2	2	1	1	-	_	-	-	-	14	28	1	_
49	17ME0150	2	-	2	2	2	-	- 12	2	1	2	-	3	2	2	20	40	2	-
50	17ME0151	2	2	2	2	2	2	2	2	2	2	- 11	-6	11	3	45	90	3	Y
51	17ME0153	2	2	2	2		1	1	1	-1	2	6	6	-	4	30	60	3	Y
52	17ME0154	2	2	2	271.0	-	2	2	200	2		0	0	3	3	18	36	7	
53	17ME0155	2		2	2	2			2	1	2	_	3	4		24	48	2	
54	17ME0157	2	2	2			1									7	1.4	1	
	17ME0158	2	2													4	.01	1	
5.5	-			2			2	2		2			.0		3				

Total no students - 56
70% of students must achieve 60% and above
No of students acorings = 60%
Course
outcome

CO1 Towards the end of the course the student will be able to determine the resultant force and moment for a given force system
% of students achieved CO-76%
CO result- Achieved

1000000	Distribution Level	No of Stadents	36
PO &	3- Strongly related	19	-
scale	2- Moderate	25	
	1-Low	12	

Table1: CO-PO Matrix

Course Outcome Statements		PO8	PO9	PO	PO	PO
		FU8	PO9	10	11	12
Understand the importance of effective communication for personal and professional development		1		3		
Use correct vocabulary for effective communication in English	CO2			1		2
Apply ICT for professional communication	CO3	2			3	
Develop a positive attitude towards people organization and life	CO4		3		**************************************	1
_ A	AVG	1.5	3	2	3	1.5

Table2: PO Attainment

se	Attain ment Level- SEM1	PO8	Atta inm ent - PO8	PO 9	Attain ment- PO9		Attainme nt-PO10	PO1 1	Attain ment- PO11	PO12	Attainment- PO12
	Col.A	Si.			3,03	and the state of t			10		
CO1	2.06	1	0.68 667	. 0	0.00	3	1.545	Chopses.	0	i'da-	0
CO2	0.94		0		0.53	1	0.235		0	2	0.63
CO3	2.4	2	1.6		0.64		0	3	2.4		0
CO4	1.7		0	3	0.74		0		0	1	0.57
		3	2.28	3	1.91	4	1.78	3	2.4	3	1.19

Direct Method		PO8	PO9	PO10	PO11	PO12
		2.28	1.91	1.78	2.4	1.19
80%		1.82	1.53	1.42	1.92	0.95
In Dire	ect	2.8	2.8	2.8	2.8	2.8
20%		0.56	0.56	0.56	0.56	0.56
overall Attainment		2.38	2.09	1.98	2.48	1.51
overall Attainment %		79.33	69.67	66.00	82.67	50.40
Attainment						
level m	et	Yes	Yes	Yes	Yes	Yes
(yes/no)		g till til		100	No.	es ^{ci}

The matrix above explains the course outcomes of CESS have been attained for CO-1 and CO-3. But CO-2 and CO-4 have not been attained. To have the attainment of CO-2 and CO-4 again the teacher devised the new tasks and activities and assessed them with the same procedure as explained above and found the course attainment is achieved for them.

4. CONCLUSION

Assessment in OBE for the course attainment in English with respect to LSRW skills have been shown in two ways i.e. direct attainment and indirect attainment with the help of various rubrics enumerated above. The target that has been fixed for the attainment has been achieved as shown in the course attainment matrix. Therefore we can conclude that the course outcomes have been achieved.

We understand in the assessment process the stake holders play a crucial role in framing the syllabus. Stake holders in OBE include Institutes, teachers, students and parents. All stake holders should show their interest to see that OBE is successfully implemented with the fruitful outcomes. It is believed that when outcomes are defined at the beginning of the syllabus/course the holistic approach to the course outcome may not be applied. But as because we are much concerned about OBE the role of the teacher in teaching is manifold and the focus should be not on the content to be delivered by the teacher in the class but on the acquisition of the same content by the student on the given topic delivered by the teacher. Adequate planning for the content delivery should be done well in advance by the teachers keeping the students learning objectives in their mind which will supplement as well as facilitate the students to comprehend and acquire their subjects appropriately. On the other hand the class should be student centric rather than teacher centric. By developing a good course for the students and administering appropriate task,

assignment and examinations with judicious evaluation one can really witness the course outcomes are achieved through course attainment in English and proficiency in LSRW can be measured through this.

Limitations-

The assessment tools which has been used to assess the level of competence of the students in the use of languages in different context has never been shown in the article but the article showed the course attainment which is a major tool to assess the proficiency of the students taking the assessment of various exams based on the criterion reference system for the undergraduate students.

The research could be extended to much debated topics like reliability and validity of the assessment of the statements at the end of the courses and lack of judicious resources to implement the same. The research can also be made in framing global validated Outcome statements for the subject English with reference to various teaching methodologies applied by teachers across the globe for different purposes.

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