SREE BUDDHA COLLEGE OF ENGINEERING (SBCE)

PATTOOR P.O, ALAPPUZHA DISTRICT KERALA, INDIA, PIN: 690529

User Guide

Program Outcome (PO) Assessment Procedure
(POAP Version 2.1)

NBA – Accreditation Team- SBCE - 2021
AUGUST 2021

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Preface

NBA is an accreditation that ensures that the educationalists fulfill all the requirements of providing quality education to students and encouraging them to be life-long learners.

NBA accreditation focuses on creating graduates with skills & academic knowledge & values.

An attempt is made to give a brief explanation on the ingeniously developed program outcomes assessment procedure (POAP) developed at SBCE, Pattoor. The version 2.1 is send to all faculty members for data entry.

POAP (part I to Part V) is developed in a user friendly platform which permits the faculty members to enter the data and perceive the attainment for each course and the entire program.

This procedure is valid for offline, online and blended teaching and learning environments in the current pandemic scenario.

Care should be taken to cover the syllabus, distribution of marks, question paper setting and correct CO-PO mapping.

Continuous improvement of program outcomes attainment is a major requirement for all programs, and extra effort should be taken by faculty members to achieve it.

I would like to appreciate the efforts made by the NBA team at SBCE.
Thank you

Dr. K. Krishnakumar
Principal
SBCE, Pattoor

I. WHAT IS POAP?

POAP is a procedure for program outcome attainment assessment developed, in alignment with the NBA guidelines, on Excel and Google sheet platforms.

The purpose of this procedure is to link the outcomes of various courses and activities to the program to obtain the overall attainment of program outcomes (POs) and program specific outcomes (PSOs).

The entire procedure is divided into five parts, enabling the faculty to easily input the marks and scores of their respective courses along with the results of various surveys.

Part I deals with all types of courses of the program covering the four years of study. Courses are categorized into various groups such as theory, lab, seminar, comprehensive exam, Design project, project preliminary and project.

Part II is intended for entry of scores of all indirect components like Program Exit survey, Alumni survey, Employer survey, Extracurricular activities, Internship, Industrial visits and so on.

Part III is a Google sheet shared to all faculty members to input the course-PO mapping and attainment obtained from the output sheets of Part I and Part II.

Part IV, processes all the attainments of POs obtained from the direct and indirect assessment methods. The output is the Target and Attainment of POs and PSOs of the program for that assessment year. As shown below (Figure 2).

Part V is the Program Stakeholders Interface. This part is meant to dissimilate the program attainment levels to various stakeholders of the program like parents, students etc.

Part I is used by all course coordinators, Part II is used by program coordinator and advisors, Part III by all faculty members and Part IV by the program coordinator.

Figure 1 shows the course selection sheet. Once the course type is selected, it will be directed to the respective input sheet for course details and marks/score entry. The output will be the CO attainments and PO and PSO attainments for that course.

Detailed explanations of all segments are presented in subsequent chapters.

Note:

In the current situation of pandemic and online classes, the attainment calculations are relevant and teaching learning practices should focus on attaining the envisaged program outcomes and objectives.

POAP -I 2015/19 (All) SCHEMES

SREE BUDDHA COLLEGE OF ENGINEERING
Pattoor
UG B.Tech PROGRAMS
In
Engineering
Program Outcome Attainment Procedure (POAP)

Forms and Procedure

General Instructions:-

Course Coordinator should fill the course details and assessment marks in the appropriate input sheet to generate the CO- PO & PSO attainment sheet.

Once the CO- PO & PSO attainments are generated, upload the values in the Google sheet (XX CO- PO & PSO Attainment _20-21 shared to all faculty members of the XX program, to generate the overall attainment of POs and PSOs of the program for that academic year.

Type of Courses

Theory	Lab	Seminar &Project
Comprehensive/Course Viva		
Life Skills, Design & Engineering, Enigeering		

POAP - Part 1/5

Select the course and will be guided to the input sheet.

Fig. 1 Course selection sheet

WHO CAN USE IT?

A. COURSE COORDINATORS

The course coordinators play an important role in organizing the courses, assuring effective delivery of course contents. He/she is responsible for enforcing uniformity in pacing schedules and course assessment.

All course coordinators should prepare the questions for assessment in standard formats. The course outcomes should be addressed in the questions (assignments, tests and quizzes) in the correct cognitive level. If more divisions of classes are there for the same course, one faculty member will be the course coordinator and others are course instructors.

Marks and scores for a particular course should be entered in Part I of the POAP.

B. PROGRAM COORDINATOR (PC)

The Program Coordinator (PC) plays a key leadership role in organizing the department activities. Their active participation will keep the department up-to-date in all academic matters and drive the department forward to achieve the objectives and helps in maintaining the high quality standards.

Following are the job responsibilities for this position related to PO and PSO attainment assessments of his/her program:

1) Manage and monitor the program assigned and liaison with HoD.
2) Follow the NAAC and NBA guidelines and standards in all activities of the program.
3) The PC should be thoroughly aware of the program educational objectives, Program outcomes, list of courses, electives and requirements for each course's specific area.
4) He/she should conduct the surveys and input the scores in Part II of POAP with the help of advisors.

II. WHAT ARE THE ASSESSMENT COMPONENTS?

The assessment components are different for different categories of courses.

A. Theory courses

Various assessment components for theory courses are presented in Figure 2. Two tests, three seminars, final exam and a course exit survey are the major components.

1	Test 1	✔
2	Test 2	✔
3	Assignment 1	✔
4	Assignment 2	✔
5	Assignment 3	✔
6	Quiz 1	Nil
7	Quiz 2	Nil
8	Exit Survey	✔
9	Seminar	Nil
10		

Figure 2 Assessment components

Three assignments should be conducted covering the entire COs as shown in Figure 3. Two questions in each assignment can address one of the COs, covering all COs through all assignments.

Assignment		COs					
Qstn No	Assignment Questions (Key words)	CO1	CO2	CO3	CO4	CO5	CO6
AS1-1		✔					
AS1-2		✔					
AS1-3			✔				
AS1-4			✔				
AS2-1				✔			
AS2-2				✔			

Assignment		COs					
Qstn No	Assignment Questions (Key words)	CO1	CO2	CO3	CO4	CO5	CO6
AS2-3					✔		
AS2-4					✔		
AS3-1						✔	
AS3-2						✔	
AS3-3							✔
AS3-4							✔

Figure 2 Assignments and COs

Two tests are conducted covering four COs and the distribution of questions and CO mapping in shown in figure 3.

Test		COs					
Qstn No	Test Questions (Key words)	CO1	CO2	CO3	CO4	CO5	CO6
Test 1							
Q1 (M1)/20		✔					
Q2(M1)/20		✔					
Q3(M2)/20			✔				
Q4(M2)/20			✔				
Q5a(M1)/5		✔					
Q5b(M2)/5		✔					
Q6a(M1)/5			✔				
Q6b(M1)/5			✔				
Test 2							
Q1 (M1)/20				✔			
Q2(M1)/20				✔			
Q3(M2)/20					✔		
Q4(M2)/20					✔		

Q5a(M1)/5				✔			
Q5b(M2)/5				✔			
Q6a(M1)/5					✔		
Q6b(M1)/5					✔		

Figure 3TestQuestions -COs Rubric

B. Laboratory

Mapping of Assessment Components with COs

a. Experiments vs COs

	Components	CO1	CO2	CO3
Qstn No	**Experiments**	**CO1**	**CO2**	**CO3**
1		✓		
2		✓		
3		✓		
4		✓		
5			✔	
6			✔	
7			✔	
8			✔	
9				✓
10				✓
11				✓
12				✓
13	Viva	✔	✔	✓
14	Individual and Team Work	✔	✔	✓
15	Final Exam	✔	✔	✓
16	Course Exit Survey	✔	✔	✓

SEMINAR & PROJECT…

CO - PO & PSO Mapping

COs	POs												PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	1	2	3	1	2	1	1	1	2	1	1	1
CO2	2	3	2	3	3	2	3	2	1	2	2	2	2	1	1
CO3	3	3	3	2	2	2	3	2	1	1	1	2	1	1

Assessment Components and Waitage for Attainment

Course Type	Seminar and Project Preliminary	
1	Seminar Presenation	✔
2	Interaction	✔
3	Seminar Report	✔
4	Supervisor Evaluation of Project	✔
5	Assessment Board Evaluation of Project	✔
6	Individual and Team Work Evaluation by Supervisor	✔

Course Type	Project	
1	Supervior Evaluation of Project	✔
2	Assessment Board Evaluation of Project	✔
3	Project Report	✔
4	Individual and Team Work Evaluation by Supervisor	✔

Course Type	Seminar	
1	Seminar Presenation	✔
2	Interaction	✔
3	Seminar Report	✔

Mapping of Assessment Components with COs

Course Type	Seminar and Project Preliminary			
	Components		COs	
Qstn No	Experiments	CO1	CO2	CO3
1	Seminar Presentation	✓	✓	✓
2	Interaction	✓	✓	✓
3	Seminar Report	✓	✓	✓
4	Supervisor Evaluation of Project	✓	✓	✓
5	Assessment Board Evaluation of Project	✓	✓	✓
6	Individual and Team Work	✓	✓	✓

Course Type	Project			
	Components		COs	
Qstn No	Experiments	CO1	CO2	CO3
1	Supervisor Evaluation of Project	✓	✓	✓
2	Assessment Board Evaluation of Project	✓	✓	✓
3	Individual and Team Work	✓	✓	✓

III. PART-1 COURSE LEVEL CO-PO ATTAINMENT (DIRECT)
(Marks entry and Attainment Output)

Part-1 is exclusively for the attainment calculations of the direct components. This part is completed by the course coordinators. All categories of courses are covered in this part.

a. THEORY

SREE BUDDHA COLLEGE OF ENGINEERING PATTOOR

CO - PO ATTAINMENT THEORY INPUT SHEET
B.TECH PROGRAM IN UG LEVEL

To Attainment ➡

PART A. COURSE INFORMATION INPUT

Course Details

Course Name:	Basics of Mechanical Engineering			Name of the Program	UG- Civil Engineering		
Course Code:	EST 120	Credit:	3	Scheme (2015/2019)	2019		
Course Type:	Theory			Academic Year	2020		
Name of Course Coordinator:	Madhav K			No. of Students	126		
Co Faculty	XXXXXX			Semester:	Even	No. of Batches	2

Students List (Roll Number is Mandatory)

Sl No:	Roll Number	Name
1	120118	asfsdfsdfsd
2		5t54t65
3		
4		
5		
6		
7		
8		
9		
10		
11		

Assignment Marks Input

Sl No.	Roll No	Assignment Questions (Each Question Carry 10 Marks), Mark CO1 to CO6 Corresponding to Each Question											
		CO2	CO1	CO1	CO1	CO3	CO3	CO4	CO4	CO5	CO5	CO6	CO6
		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
1	1401	8	10	8	10	10	8	10	10	10	10	10	10
2	1402	10	10	10	10	10	10	10	10	10	10	10	10
3	1403	10	10	10	10	10	10	10	10	10	10	10	10
4	1404	10	10	10	10	10	10	10	10	10	10	10	10
5	1405	10	10	10	10	10	10	10	10	10	10	10	10
6	1406	10	10	10	10	10	10	10	10	10	10	10	10
7	1407	10	10	10	10	10	10	10	10	10	10	10	10
8	1408	0	0	0	0	0	0	0	0	0	0	0	0
9	1409	10	10	10	10	10	10	10	10	10	10	10	10
10	1410	10	10	10	10	10	10	10	10	10	10	10	10
11	1411	10	10	10	10	10	10	10	10	10	10	10	10
12	1412	10	10	10	10	10	10	10	10	10	10	10	10
13	1413	10	10	10	10	10	10	10	10	10	10	10	10
14	1414	10	10	10	10	10	10	10	10	10	10	10	10

Test 1 Mark input

Sl No.	Roll No	TEST 1 Max Marks (50)											
		CO1	CO1	CO1	CO1	CO2	CO2	CO2	CO6	CO3	CO3	CO3	CO3
		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
1	1401	4	4	5	5	4	5	4	5	3	2	3	2
2	1402	5	5	5	5	5	5	5	5	3	2	3	2
3	1403	5	5	5	5	5	5	5	5	3	2	3	2
4	1404	5	5	5	5	5	5	5	5	3	2	3	2
5	1405	5	5	5	5	5	5	5	5	3	2	3	2
6	1406	5	5	5	5	5	5	5	5	3	2	3	2
7	1407	5	5	5	5	5	5	5	5	3	2	3	2
8	1408	5	5	5	5	5	5	5	5	3	2	3	2
9	1409	5	5	5	5	5	5	5	5	3	2	3	2
10	1410	5	5	5	5	5	5	5	5	3	2	3	2
11	1411	5	5	5	5	5	5	5	5	3	2	3	2
12	1412	5	5	5	5	5	5	5	5	3	2	3	2
13	1413	5	5	5	5	5	5	5	5	3	2	3	2
14	1414	5	5	5	5	5	5	5	5	3	2	3	2
15	1415	5	5	5	5	5	5	5	5	3	2	3	2
16	1416	5	5	5	5	5	5	5	5	3	2	3	2
17	1417	5	5	5	5	5	5	5	5	3	2	3	2

Test 2 Marks input

Sl No.	Roll No	TEST 2 Max Marks (50)											
		CO1	CO2	CO3	CO4	CO1	CO1	CO1	CO1	CO1	CO1	CO1	CO1
		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
1	1401	4	4	5	4	5	5	5	5	5	5	0	0
2	1402	5	5	5	5	5	5	5	5	5	5	0	0
3	1403	5	5	5	5	5	5	5	5	5	5	0	0
4	1404	5	5	5	5	5	5	5	5	5	5	0	0
5	1405	5	5	5	5	5	5	5	5	5	5	0	0
6	1406	5	5	5	5	5	5	5	5	5	5	0	0
7	1407	5	5	5	5	5	5	5	5	5	5	0	0
8	1408	5	5	5	5	5	5	5	5	5	5	0	0
9	1409	5	5	5	5	5	5	5	5	5	5	0	0
10	1410	5	5	5	5	5	5	5	5	5	5	0	0
11	1411	5	5	5	5	5	5	5	5	5	5	0	0
12	1412	5	5	5	5	5	5	5	5	5	5	0	0
13	1413	5	5	5	5	5	5	5	5	5	5	0	0
14	1414	5	5	5	5	5	5	5	5	5	5	0	0
15	1415	5	5	5	5	5	5	5	5	5	5	0	0
16	1416	5	5	5	5	5	5	5	5	5	5	0	0
17	1417	5	5	5	5	5	5	5	5	5	5	0	0

University Exam Grade Input

III University Exam Grades			
Sl No.	Roll No	Student Name	Exam Grade
1	120118	asfsdfsdfsd	O
2	0	5t54t65	B
3	0	0	A
4	0	0	O
5	0	0	B
6	0	0	A
7	0	0	O
8	0	0	B
9	0	0	A

Course Exit Survey

V. Course Exit Survey					
(Enter the score of each student, need not be in order)					
Sl No.	SQ1	SQ2	SQ3	SQ4	SQ5	SQ6
1	5	4	2	3	2	4
2	5	4	2	3	2	4
3	5	4	2	3	2	4
4	5	4	2	3	2	4
5	5	4	2	3	2	4
6	5	4	2	3	2	4
7	5	4	2	3	2	4
8	5	4	2	3	2	4
9	5	4	2	3	2	4
10	5	4	2	3	2	4
11	5	4	2	3	2	4
12	5	4	2	3	2	4
13	5	4	2	3	2	4
14	5	4	2	3	2	4
15	5	4	2	3	2	4

Attainment →

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SREE BUDDHA COLLEGE OF ENGINEERING PATTOOR

Co - Po & Pso Attainment Out Put Sheet -Theory
B.TECH PROGRAM IN UG LEVEL

A. Course Details					
Course Name:	Basics of Mechanical Engineering		Program	UG- Civil Engineering	
Course Code:	EST 120	Credit: 3	Scheme (2015/2019)	2019	
Course Type:	Theory		Academic Year	2020	
Course Coordinator:	Madhav K		No. of Students (All batches):	126	
Name of Co Faculty	XXXXXX		Semester	Even	No. of Batches	2

B. CO Attainment Through University Examinations

University Examination	No of Students Scored Different Grades													Total Students	No. of Students Passed	Pass Percentage
	O	S	A+	A	B+	B	C+	C	D	E	P	F	FE			
	2	0	1	118	0	0	0	0	0	0	1	4	0	126	122	97

University Result - Grade Distribution
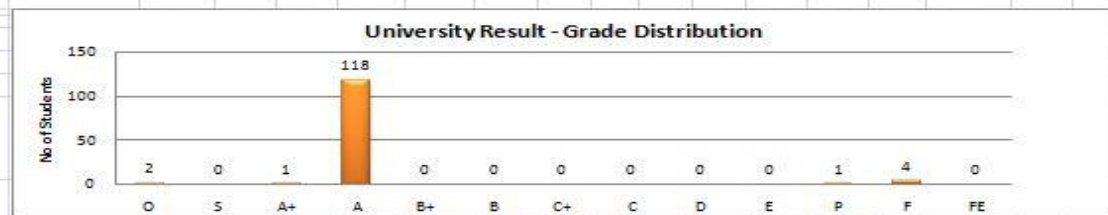
C. Combined Attainment of COs (Direct + Indirect)

Course Outcomes	CO1	CO2	CO3	CO4	CO5	CO6
Target	3	3	3	3	3	3
Combined Attainment	2.4	2.4	2.4	2.4	2.40	1.6
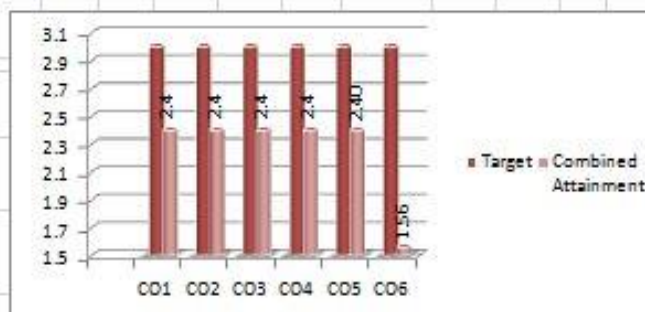
D. CO - PO & PSO Attainment

Target Attainment	COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
3	CO1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0
3	CO2	2	0	0	3	0	0	0	0	0	0	0	0	0	1	0
3	CO3	2	3	0	0	0	1	1	0	0	0	0	0	0	1	0
3	CO4	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0
3	CO5	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0
3	CO6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Target		1.8	2.0	0.0	3.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0

Actual Attainment	COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
2.4	CO1	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0
2.4	CO2	1.6	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0
2.4	CO3	1.6	2.4	0.0	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0
2.4	CO4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.0
2.4	CO5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0
1.56	CO6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Average Attainment		1.4	1.6	0.0	2.4	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.0
% Attainment		74.9	80.0	0.0	80.0	0.0	80.0	##	0.0	0.0	0.0	0.0	0.0	80.0	80.0	0.0

PO & PSO ATTAINMENT - THEORY

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Average Target		1.8	2.0	0.0	3.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0
Average Attainment		1.4	1.6	0.0	2.4	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.0
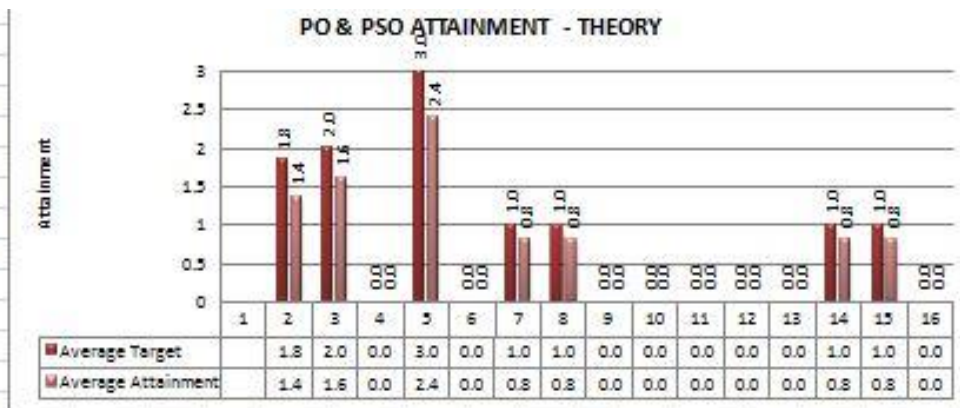
E. Continuous Improvement

Academic Year	% Attainment of POs and PSOs															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CAY	74.9	80.0	0.0	80.0	0.0	###	##	0.0	0.0	0.0	0.0	0.0	80.0	80.0	0.0
CAYM1	75	76	0.0	70	0.0	78	76	0.0	0.0	0.0	0.0	0.0	81	79	0.0
CAYM2	74	75	0.0	68	0.0	77	76	0.0	0.0	0.0	0.0	0.0	79	80	0.0

% Attainment of POs and PSOs
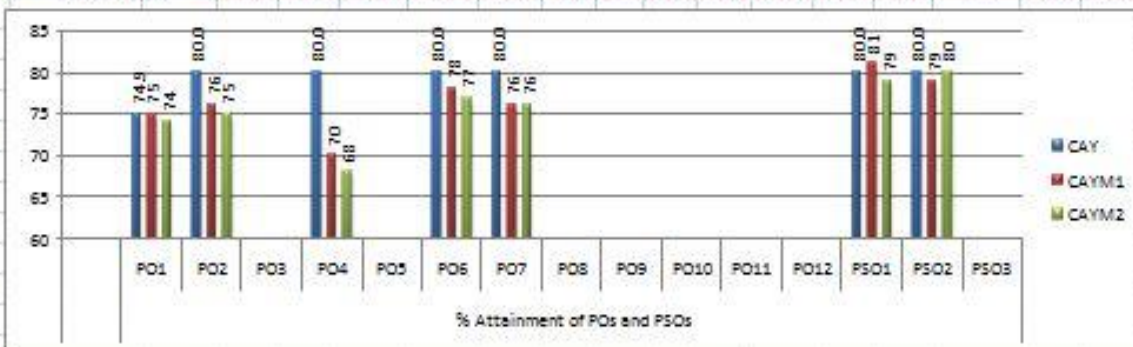
F. Comments – Continuous Improvement

ACADEMIC YEAR	FACULTY HANDLED	COMMENTS
CAY	SSSSSSS	NOOOO
CAYM1	AAAA	CCC
CAYM2	BBB	VVV

Back to Theory Input

Output Sheet to file in the course file

b. Laboratory

SREE BUDDHA COLLEGE OF ENGINEERING PATTOOR
DEPARTMENT OF MECHANICAL ENGINEERING

CO - PO ATTAINMENT LAB INPUT SHEET

PART A. COURSE INFORMATION INPUT

Course Details

Course Name:	Metallurgy and Materials Engg			Semester:	S3
Course Code:	ME220	Credit:	4	Year:	2017
Course Type:	Lab			No. of Batches:	2
Name of Course Coordinator:	XXX			No. of Students	126
Co Faculty	xxxx			Name of Program	UG- Mechanical Engineering

Students List (Roll Number is Mandatory)

Sl No	Roll No	Name
1	11	CCCC
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		

Sl No	Roll No	Name
64		
65		
66		
67		
68		
69		
70		
71		
72		
73		
74		
75		
76		

Course Outcomes (Cos)

CO Code	CO Statements	Cognitive Level
ME220.1		
ME220.2		
ME220.3		
ME220.4		
ME220.5		
ME220.6		

CO - PO & PSO Mapping

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	3				3			3					1	
CO2	1	0				3			2					3	
CO3	3	0				3			2					3	
CO4	3	0				3			2					3	
CO5	1	1				3			2					3	
CO6	1	1				3			3					3	

Regular Practical Work, teamwork and Final Exam

Sl No.	Roll No	Exp 1 (50)	xp2 (50)	xp 3 (50)	Exp4 (50)	xp 5 (50)	xp6 (50)	xp 7 (50)	xp8 (50)	xp 9 (50)	Exp10 (50)	ExpX (50)	xp X(50)	xp X(50)	Individual and Team Work	Final Exam-KTU(
1	1401	50	50	50	0	0	50	0	0	0	0	0	50	50	9	0
2	1402	50	50	50	0	0	50	0	0	0	50	50	50	50	8	0
3	1403	50	50	50	0	0	50	0	0	0	50	50	50	50	7	0
4	1404	50	50	50	0	0	50	0	0	0	50	50	50	50	6	0
5	1405	50	50	50	0	0	50	0	0	0	50	50	50	50	5	0
6	1406	50	50	50	0	0	50	0	0	0	50	50	50	50	8	0
7	1407	50	50	50	0	0	50	0	0	0	50	50	50	50	7	0
8	1408	50	50	50	0	0	50	0	0	0	50	50	50	50	6	0
9	1409	50	50	50	0	0	50	0	0	0	50	50	50	50	5	0
10	1410	50	50	50	0	0	50	0	0	0	50	50	50	50	4	0
11	1411	50	50	50	0	0	50	0	0	0	50	50	50	50	2	0
12	1412	50	50	50	0	0	50	0	0	0	50	50	50	50	5	0
13	1413	50	50	50	0	0	50	0	0	0	50	50	50	50	7	0
14	1414	50	50	50	0	0	50	0	0	0	50	50	50	50	4	0
15	1415	50	50	50	0	0	50	0	0	0	50	50	50	50	3	0
16	1416	50	50	50	0	0	50	0	0	0	50	50	50	50	2	0
17	1417	50	50	50	0	0	50	0	0	0	50	50	50	50	5	0

Course Exit Survey (Enter the score of each student, need not be in order)

Sl No.	SQ1	SQ2	SQ3	SQ4	SQ5	SQ6
1	5	4	2	3	2	4
2	5	4	2	3	2	4
3	5	4	2	3	2	4
4	5	4	2	3	2	4
5	5	4	2	3	2	4
6	5	4	2	3	2	4
7	5	4	2	3	2	4

c. SEMINAR, PROJECT….

Course Details

Course Name:	Seminar & Project Preliminary or Project				Semester:	6
Course Code:	ME 408	Credit:	2		Year:	2018
Course Type:	Seminar & Project Preliminary or Project				No. of Batches:	1
Name of Course Coordinator:	Kiransankar MS				No. of Students :	126
Name of Co- Faculty	Vaisakh PS				Level of Program	Under Graduate- Engineering

Students List (Roll Number is Mandatory)

Sl No	Roll No	Name		Sl No	Roll No	Name
1	1401	afgasfafa		64	1464	erwetwetweg
2	1402	afsafafas		65	1465	sgstfgsftgs
3	1403	afsafafas		66	1466	sgstg
4	1404			67	1467	sfgwsedfgsx

Seminar and Project Preliminary Assessment

Sl No.	Roll No	Student Name	Seminar Presentation (20)	Interaction (10)	Seminar Report (20)	Supervisor Evaluation of Project (20)	Assessment Board Evaluation of Project (20)	Individual and Team Work (10)
1	1401	afgasfafa	15	15	15	15	18	7
2	1402	afsafafas	15	15	15	15	18	7
3	1403	afsafafas	15	15	15	15	18	7
4	1404	0	15	15	15	15	18	7
5	1405	0	15	15	15	15	18	7
6	1406	0	15	15	15	15	18	7
7	1407	0	15	15	15	15	18	7
8	1408	0	15	15	15	15	18	7
9	1409	0	15	15	15	15	18	7

Project Assessment

Sl No.	Roll No	Student Name	Supervisor Evaluation of Project (30)	Assessment Board Evaluation of Project (30)	Project Report (30)	Individual and Team Work (10)
1	1401	afgasfafa	15	15	15	8
2	1402	afsafafas	15	15	15	8
3	1403	afsafafas	15	15	15	8
4	1404	0	15	15	15	8
5	1405	0	15	15	15	8
6	1406	0	15	15	15	8
7	1407	0	15	15	15	8
8	1408	0	15	15	15	8

Course Exit Survey (Enter the score of each student, need not be in order)

Sl No.	SQ1	SQ2	SQ3	SQ4	SQ5	SQ6		Sl No.
1	5	4	2	3	2	4		64
2	5	4	2	3	2	4		65
3	5	4	2	3	2	4		66

Seminar Assessment

Sl No.	Roll No	Student Name	Seminar Presentation (40)	Interaction (20)	Seminar Report (40)
1	1401	afgasfafa	15	15	
2	1402	afsafafas	15	15	
3	1403	afsafafas	15	15	
4	1404	0	15	15	
5	1405	0	15	15	
6	1406	0	15	15	
7	1407	0	15	15	
8	1408	0	15	15	

Course Details

Course Name	Seminar & Project Preliminary or Project			Semester:	6
Course Code	ME 488	Credit:	2	Year:	2018
Course Type	& Project Preliminary or			No. of Batch	1
Course Coordinat	Kirannankar HS			No. of Student	125
Name of Co- Pane	Tainakk PS			Level of Prog	Graduate- Engine

Seminar and Project Preliminary

Combined Attainment of COs (Direc

COs	CO1	CO2	CO3
Target	3	3	3
CO Attainment	1.32	1.02	1.02
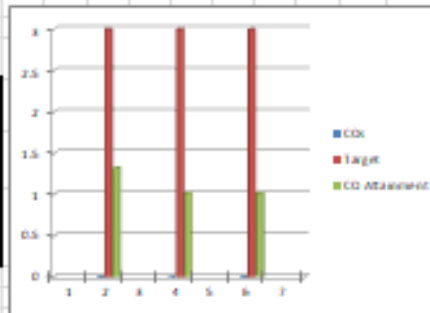
CO - PO & CO - PSO Attainment

Target	COs	PO.												PSO.		
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
3	CO1	3	2	3	1	2	3	1	2	1	1	1	2	1	1	1
3	CO2	2	3	2	3	3	2	3	2	1	2	2	2	2	1	1
3	CO3	3	3	3	2	2	2	3	2	1	1	1	1	2	1	1
Average Mappi		2.67	2.67	2.67	2.00	2.33	2.33	2.33	2.00	1.00	1.33	1.33	1.67	1.67	1.00	1.00

Attainmer al	COs	PO.												PSO.		
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1.32	CO1	1.32	1.88	1.32	1.44	1.88	1.32	1.44	1.88	1.44	1.44	1.44	1.88	1.44	1.44	1.44
1.02	CO2	1.68	1.02	1.68	1.02	1.02	1.68	1.02	1.68	0.54	1.68	1.68	1.68	1.68	0.54	0.54
1.02	CO3	1.02	1.02	1.02	1.68	1.68	1.68	1.02	1.68	0.54	0.54	0.54	0.54	1.68	0.54	0.54
Average Attainmen		1.34	1.37	1.34	1.71	1.86	1.85	1.85	1.75	1.37	1.49	1.49	1.63	1.68	1.37	1.37

Back to Seminar & Project Input

IV. PART-2 INDIRECT ATTAINMENT

Part 2 is for addressing the program outcome attainments of indirect activities of the program. Surveys are the main input of this part.

PART A. PROGRAM INFORMATION INPUT

Program Details

Name of the Program	Mechanical Engineering	Number of participants			
Name of the Program Coordinator	prof.	Program Exit Survey	Alumni Survey	Employer survey	
Year and Semester		126	120	30	

PART B. SURVEY INPUT

1. Program Exit Survey (Enter the score of each student, need not be in order)

Students	Q1 (PO1)	Q2 (PO2)	Q3 (PO3)	Q4 (PO4)	Q5 (PO5)	Q6 (PO6)	Q7 (PO7)	Q8 (PO8)	Q9 (PO9)	Q10 (PO10)	Q11 (PO11)	Q12 (PO12)	Q13 (PSO1)	Q14 (PSO2)	Q15 (PSO3)
1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
7	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
8	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
9	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

2.a Alumni Survey (Part-a POs and PSOs)

Participants	Q1 (PO1)	Q2 (PO2)	Q3 (PO3)	Q4 (PO4)	Q5 (PO5)	Q6 (PO6)	Q7 (PO7)	Q8 (PO8)	Q9 (PO9)	Q10 (PO10)	Q11 (PO11)	Q12 (PO12)	Q13 (PSO1)	Q14 (PSO2)	Q15 (PSO3)
1	3														
2	4														
3	5														
4	3														

2.b Alumni Survey (Part-b PEOs)

Participants	Q1 (PEO1)	Q2 (PEO1)	Q3 (PEO2)	Q4 (PEO2)	Q5 (PEO3)	Q6 (PEO3)	
1	3	3	3	3	3	3	
2	3	3	3	3	3	3	
3	3	3	3	3	3	3	
4	3	3	3	3	3	3	
5	3	3	3	3	3	3	
6	3	3	3	3	3	3	
7	3	3	3	3	3	3	
8	3	3	3	3	3	3	
9	3	3	3	3	3	3	
10	3	3	3	3	3	3	
11	3	3	3	3	3	3	
12	3	3	3	3	3	3	
13	3	3	3	3	3	3	
14	3	3	3	3	3	3	
15	3	3	3	3	3	3	
16	3	3	3	3	3	3	
17	3	3	3	3	3	3	

3.a Employer Survey (Part-a POs and PSOs)

Participants	Q1 (PO1)	Q2 (PO2)	Q3 (PO3)	Q4 (PO4)	Q5 (PO5)	Q6 (PO6)	Q7 (PO7)	Q8 (PO8)	Q9 (PO9)	Q10 (PO10)	Q11 (PO11)	Q12 (PO12)	Q13 (PSO1)	Q14 (PSO2)	Q15 (PSO3)
1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
5	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	3	1	3	3	1	3	1	3	1	3	3	3	1	3	3
8	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
9	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
10	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
11	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
12	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
13	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
14	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
16	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
17	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

3.b Employer Survey (Part-b PEOs)

Participants	Q1 (PEO1)	Q2 (PEO1)	Q3 (PEO2)	Q4 (PEO2)	Q5 (PO3)	Q6 (PO3)
1	3	3				
2	3	3				
3	3	3				
4	3	3				
5	3	3				
6	3	3				
7	3	3				
8	3	3				
9	3	3				
10	3	3				
11	3	3				
12	3	3				
13	3	3				
14	3	3				
15	3	3				

4.Co-Curricular Activities (Seminars, Workshops, TechFest, Ivs, Internship) (PO and PSO)- Feedback Survey Scores

Participants	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10			
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													

Cover Page   **Inputs**   PO Attainment   Calculations

5. Extra-Curricular Activities (P8 and P9)

Activity	Name of Activity/year	No: of Participants
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
	Total	

Cover Page   Inputs   PO Attainment   Calculations

6. NSS and Social Activities (P6, P7, P8 and P9)

Activity	Name of Activity	No: of Participants
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		

7. Participation in Student Clubs, Societies and Professional bodies

Activity	Name of Club/Association	No: of Participants
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
	Total	

V.   PART-3 GOOGLE SHEET DATA ENTRY

This part is meant as the common platform for all faculty members to pool the attainments for further processing of the data. It is shared with all involved in the academic activities of the program.

me	Sl No	Course and Code	Course Outcomes (Maximum 6)		1

Note:

1 Identify your course in the given table.

2 Fill the course outcomes of your course in the provided cells.

3 Enter the linking (mapping) of your course outcomes with the POs and PSOs. (High-3, Medium-2, Low-1 and Nil-0)

4 Faculty handling same course for different batches should collaborate in filling the table.

5 Stream coordinators, please ensure that the mapping of courses under your stream are completed before the deadline.

6 The POs and PSOs are provided below for reference. (12 POs and 3 PSOs)

7 Please complete on or before 05/04/2018 (Thursday)

Kindly do the mapping carefully, as you may have to justify the linking later on.

PROGRAM OUTCOMES (POs)

1. Engineering Knowledge

Apply the knowledge of mathematics, science, engineering fundamentals, to the solution of complex problems in Mec

2. Problem Analysis:

Identify, formulate, review research literature, and analyze complex Mechanical Engineering problems reaching substa

3. Design / Development of Solution:

Design solutions for complex Mechanical Engineering problems and design system components or processes that meet

4. Conduct investigation of co

Use research based knowledge and research methods including design of experiments, analysis and interpretation of da

5. Modern Tool Usage:

Create, select, and apply appropriatetechniques, resources, and modern engineering and IT tools including prediction,

6. The Engineering and Society:

Apply reasoning informed bythe contextual knowledge to assess societal, health, safety,legal and cultural issues and th

7. Environmental and Sustainability

A1:S1   fx   Department of Mechanical Engineering

Department of Mechanical Engineering

Input the AVERAGE of POs of all courses (ME)

| 2016-2017 | | | | COURSE-PO & PSO MAPPING | | | | | | | | | AVERAGE | | | | | |

Sl. No	Course Code	Course Name	Credit	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	MA101	Calculus	4	2	2	1	1	-	-	-	-	-	-	-	-	-	-	-
2	CY100	Engineering Chemistry	4	2	2	2	-	1.5	-	1.67	-	-	-	-	2	-	-	-
3	BE 100	Engineering Mechanics	4	3	2	-	1	-	-	-	-	-	-	-	-	-	-	-
4	BE101-02	Introduction to ME Sciences	3	2.33	2.33	-	1	-	-	-	-	-	-	-	-	-	-	-
5	BE103	Introduction to Sustainable Engineering	3	1.33	-	2.33	-	-	2.33	2.33	1.67	-	1.67	-	2	-	-	-
6	EC100	Basics of Electronics Engineering	3	2	1	-	1	-	-	-	-	-	-	-	-	-	-	-
7	ME110	Mechanical Engineering Workshop	1	2	-	-	-	-	-	-	2	2	2	-	-	-	-	-
8	CY 110	Engineering Chemistry Lab	1	2	1	2	-	2	2	2	-	-	-	-	2	-	-	-
9	EC110	Electronics Engineering Workshop	1	2	1.33	1	-	2	-	-	-	1	-	1	-	-	-	-
10	MA102	Differential Equations	4	2	2	2	-	-	-	1	-	-	-	-	-	-	-	-
11	PH100	Engineering Physics	4	2	1.75	2	1.67	1.8	2	2	-	-	-	1	-	-	-	-
12	BE110	Engineering Graphics	3	2	1.3	1	1.5	2	-	-	-	-	1	-	1	1	1	1
13	CE100	Basics of Civil ENgineering	3	2	2	1	-	1	1	-	1	-	-	-	-	-	-	-
14	EE100	Basics of Elelctrical Engineering	3	1.6	1.25	1	-	-	-	-	-	-	-	-	-	-	-	-
15	BE102	Design and Engineering	3	1	1.70	2	1.5	2	1.70	1	1	1	1	1	-	-	-	-
16	PH110	Engineering Physics Lab	1	2	2	1.67	-	1.67	2	-	-	1	-	-	-	-	-	-
17	CE110	Civil Engineering Workshop	1	2	1	-	-	1	1	-	-	-	-	-	-	-	-	-
18	EE110	Electrical Engineering Workshop	1	1.33	1.67	1.33	-	-	1	1	1	1	-	-	-	-	-	-
19	MA201	Linear Algebra and Complex Analysis	4	2	2	-	-	-	2	-	-	-	-	-	-	-	-	-
20	ME201	Mechanics of Solids	4	3	2	2	-	-	-	-	-	-	-	-	-	3	2	-
21	ME203	Mechanics of Fluids	4	2	1	1	-	-	1	-	-	-	-	-	-	2	-	2
22	ME205	Thermodynamics	4	2.83	1.67	-	-	-	-	-	-	-	-	-	-	2	-	1
23	ME210	Metallurgy and Materials Engineering	3	2	1	2	2.5	-	2	1.83	-	-	-	-	-	2	2	-
24	HS200	Business Economics	3	3	-	-	-	3	3	2	2	3	2	2.17	1.75	1	-	-
25	ME231	Computer Aided Machine Drawing Lab	1	2	1.67	3	-	3	-	-	-	-	-	-	-	3	2	2
26	CE230	Material Testing Lab	1	2.67	1	1	3	-	1.67	-	2.5	1.5	3	2	-	-	-	-
27	MA202	Probability Distributions Transforms and N	4	2	2	1	1	-	-	-	-	-	-	-	-	-	-	-
28	ME202	Advanced Mechanics of Solids	4	2	2	1.5	-	-	-	-	-	-	-	-	-	2	2	-
29	ME204	Thermal Engineering	4	3	2.67	2	-	-	1	1	-	-	-	-	-	2	-	2
30	ME206	Fluid Machinery	3	2.67	2.67	2.25	-	-	-	-	-	-	-	-	-	2.67	-	2.00
31	ME220	Manufacturing Technology	3	1.83	1	1.67	-	-	2	-	-	-	-	-	-	1.6	2.83	2
32	HS 210	Life Skills	3	-	-	2	1	-	1	1	2.3	2.7	3	-	1	-	-	2
33	ME232	Thermal Engineering Lab	1	2.67	1		1.33		1	1		2.33	1.33			1		2.33

Department of Mechanical Engineering

Input the Combined Attainment COs of all courses (ME)

Course Code	Course Outcomes (Set Attainment Level 3)					
2016-2017	CO1	CO2	CO3	CO4	CO5	CO6
MA101 Calculus	1.36	1.36	1.36	1.36	2.2	2.2
CY100 Engineering Chemistry	0.96	1.16	0.76	0.76	1.6	1.8
BE 100 Engineering Mechanics	1.76	1.76	2.32	1.76	2.6	2.6
BE101-02 Introduction to ME Sciences	1.8	1.8	2.04	2.64	1.2	1.8
BE103 Introduction to Sustainable Engineering	2.72	2.16	3	2.44	3	3
EC100 Basics of Electronics Engineering	1.76	1.76	1.76	1.76	1.76	1.76
ME110 Mechanical Engineering Workshop	2.52	2.52	2.52	-	-	-
CY 110 Engineering Chemistry Lab	2.4	2.5	2.4	-	-	-
EC110 Electronics Engineering Workshop	2.76	2.66	2.46	-	-	-
MA102 Differential Equations	0.76	0.76	0.76	0.76	1.6	1.6
PH100 Engineering Physics	1.76	1.76	1.76	1.76	2.6	2.6
BE110 Engineering Graphics	2.52	2,28	2.28	3	2.28	2.12
CE100 Basics of Civil ENgineering	1.8	1.8	1.52	1.52	1.52	1.52
EE100 Basics of Electrical Engineering	1.8	1.52	0.36	0.96	1.80	1.20
BE102 Design and Engineering	2.4	2.4	2.4	2.4	2.6	2.4
PH110 Engineering Physics Lab	2.76	2.76	2.76	-	-	-
CE110 Civil Engineering Workshop	3	3	3	-	-	-
EE110 Electrical Engineering Workshop	2.28	1.98	1.98	-	-	-
MA201 Linear Algebra and Complex Analysis	1.76	1.76	1.16	1.76	2	2.6
ME201 Mechanics of Solids	1.76	2.04	2.32	2.32	2.6	2.6
ME203 Mechanics of Fluids	1.76	1.76	1.76	2.6	1.76	1.76
ME205 Thermodynamics	1.36	1.36	0.76	1.36	2.2	2.2
ME210 Metallurgy and Materials Engineering	0.44	0.76	0.36	0.36	1.2	1.4
HS200 Business Economics	0.76	0.76	0.4	1.6	0.76	0.76
ME231 Computer Aided Machine Drawing Lab	2.6	2.3	2.2	-	-	-
CE230 Material Testing Lab	3	2.9	2.7	-	-	-
MA202 Probability Distributions Transforms and NM	1.76	1.76	1.16	1.76	1.16	2.6
ME202 Advanced Mechanics of Solids	1.24	0.96	0.96	0.96	1.8	1.8
ME204 Thermal Engineering	0.96	0.96	0.96	0.96	1.8	1.8

PART 4 COMBINED OVERALL PO ATTAINMENT

The program coordinator extracts the data and is processed to arrive at the attainment of each program outcomes

2016-2017 — COURSE-PO & PSO MAPPING

Sl. No	Course Code / Course Name	Credit	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	MA101 Calculus	4	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0
2	CY100 Engineering Chemistry	4	3.0	2.7	2.0	0.0	1.0	2.5	3.0	0.0	0.0	0.0	0.0	2.3	1.0	0.0	0.0
3	BE 100 Engineering Mechnanics	4	3.0	3.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	0.0	0.0
4	BE101-02 Introduction to ME Sciences	3	3.0	1.0	0.0	0.0	1.0	2.0	1.5	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
5	BE103 Introduction to Sustainable Engineering	3	1.8	3.0	2.5	2.5	2.5	2.6	3.0	1.5	2.0	0.0	1.0	0.0	1.0	1.0	1.0
6	EC100 Basics of Electronics Engineering	3	2.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	ME110 Mechanical Engineering Workshop	1	2.4	1.6	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
8	CY 110 Engineering Chemistry Lab	1	3.0	2.0	2.0	0.0	3.0	2.0	2.0	0.0	2.5	0.0	0.0	2.0	1.0	2.0	0.0
9	EC110 Electronics Engineering Workshop	1															

2016-2017 — SHARE OF EACH COURSE IN PO AND PSO TARGET

	Course Name	CR	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	MA101 Calculus	4	0.024	0.022	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.028	0.000	0.000
2	CY100 Engineering Chemistry	4	0.024	0.029	0.026	0.000	0.022	0.045	0.068	0.000	0.000	0.000	0.000	0.053	0.014	0.000	0.000
3	BE 100 Engineering Mechnanics	4	0.024	0.033	0.000	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.023	0.028	0.000	0.000
4	BE101-02 Introduction to ME Sciences	3	0.018	0.008	0.000	0.000	0.016	0.027	0.025	0.000	0.000	0.000	0.000	0.017	0.000	0.000	0.000
5	BE103 Introduction to Sustainable Engineering	3	0.011	0.025	0.025	0.033	0.041	0.035	0.051	0.040	0.040	0.000	0.032	0.000	0.010	0.031	0.023
6	EC100 Basics of Electronics Engineering	3	0.015	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	ME110 Mechanical Engineering Workshop	1	0.005	0.004	0.003	0.000	0.000	0.000	0.000	0.000	0.007	0.009	0.000	0.000	0.000	0.000	0.000
8	CY 110 Engineering Chemistry Lab	1	0.006	0.005	0.007	0.000	0.016	0.009	0.011	0.000	0.017	0.000	0.000	0.011	0.003	0.021	0.000
9	EC110 Electronics Engineering Workshop	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	MA102 Differential Equations	4	0.024	0.033	0.026	0.000	0.000	0.000	0.023	0.000	0.000	0.000	0.000	0.000	0.028	0.000	0.000
11	PH100 Engineering Physics	4	0.024	0.027	0.031	0.041	0.051	0.045	0.060	0.000	0.000	0.000	0.000	0.000	0.017	0.000	0.000

2016-2017 — ACTUAL ATTAINMNET FROM GOOGLE SHEET

	Course Name	CR	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	MA101 Calculus	4	2.7	2.3	3.0	1.6	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.0	0.0
2	CY100 Engineering Chemistry	4	3.0	2.4	2.5	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	1.8
3	BE 100 Engineering Mechnanics	4	2.8	2.3	1.7	2.0	2.0	2.0	2.0	0.0	2.0	1.8	0.0	2.3	2.5	0.0	2.2
4	BE101-02 Introduction to ME Sciences	3	3.0	3.0	3.0	3.0	0.0	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
5	BE103 Introduction to Sustainable Engineering	3	3.0	0.0	0.0	0.0	3.0	3.0	2.0	0.0	3.0	2.0	2.0	1.5	1.0	0.0	0.0
6	EC100 Basics of Electronics Engineering	3	1.7	1.7	2.2	1.5	2.3	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	1.3
7	ME110 Mechanical Engineering Workshop	1															

Indirect Assessment Attainment

		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
	Target	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1	Program Exit Survey (All POs)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2	Alumni Survey(All POs)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
3	Employer Survey(All POs)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4	Content Beyond Syllabus (POs.......)															
5	Co-curricular Activities (Seminar, Workshops, Tech															
6	Extracurricular Activities (Sports & Games) (P8, P9)		0	0	0	0	0	0	3	3	0	0	0	0	0	0
7	NSS and Social Activities (P6, P7, P8 & P9)		0	0	0	0	3	3	3	3	0	0	0	0	0	0
8	Participation in Student Clubs, Societies and	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Total	12	12	12	12	12	15	15	18	18	12	12	12	12	12	12
	Attainment using equation	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.4	2.4	2.4	2.4	2.4	2.4
	Attainment through indirect methods (Max=1)	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.8	0.8	0.8	0.8	0.8	0.8

POs and PSOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Target (POs & PSOs)	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Overall Attainment	2.00	2.00	3.00	3.00	2.00	2.00	2.00	3.00	3.00	3.00	3.00	2.00	2.00	3.00	3.00

PO Attainment - ME Program

Legend:
- Target (POs & PSOs)
- Overall Attainment
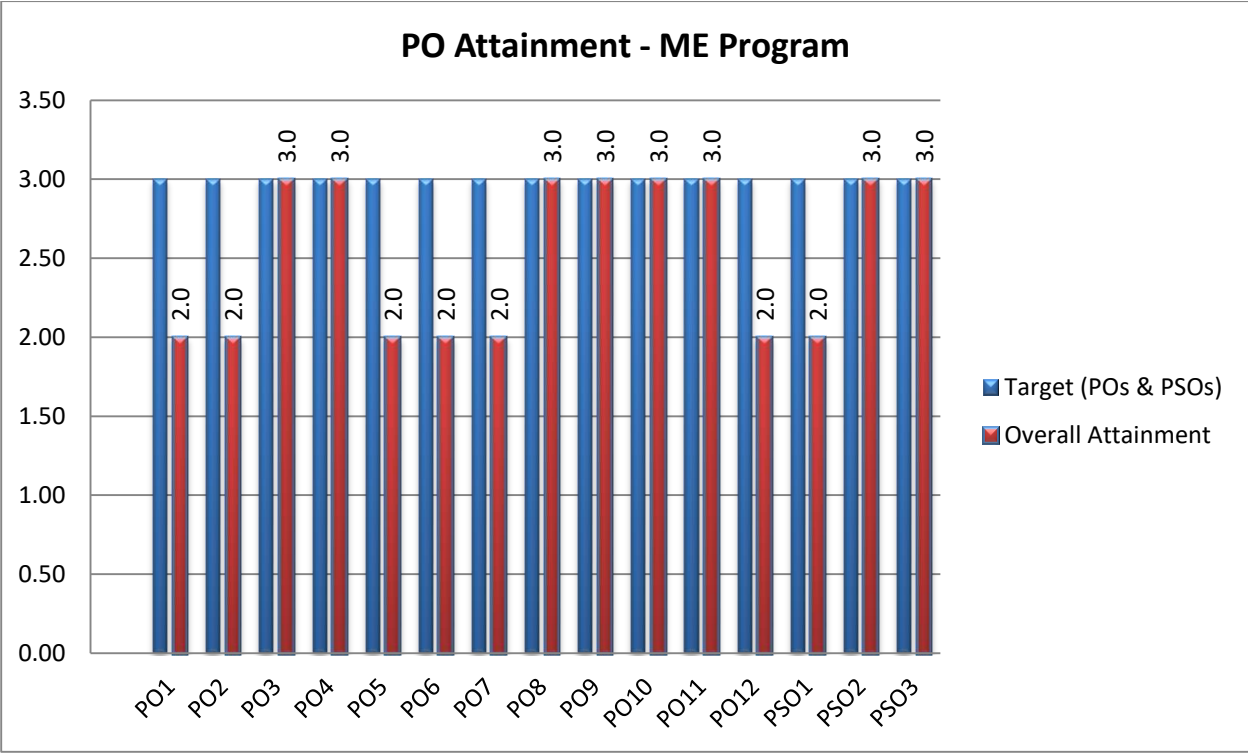
CONTINUOUS IMPROVEMENT AND CLOSING THE LOOP

The assessment results are used to determine the strength and weakness of the program. The continuous improvement of the program is based on the direct and indirect assessment feedbacks received from various constituencies of the program.

For the continuous improvement process of the program, the attainment of POs and PSOs over a period of three years is considered. Attainment of each of PO and PSO is carried out in every year

Continuous improvement of the curriculum, faculty performance, facilities and the working environment are the main objectives of MEP and is a continuous process.

PART 5 PROGRAM-STAKEHOLDERS INTERFACE (PSI)

This is the fifth part of the Program Outcomes Assessment Procedure (POAP) which is the link between the program and stakeholders. The College Vision, Mission, Department Vision, Mission and Program Educational Objectives along with Program Outcomes (POs) and Program Specific Outcomes (PSOs) are presented in this interface.

The attainments of POs and PSOs for three academic years are also shared with the stakeholders. The attainment is a measure of student accomplishments in the program.

SREE BUDDHA COLLEGE OF ENGINEERING PATTOOR
DEPARTMENT OF MECHANICAL ENGINEERING

PROGRAM-STAKEHOLDERS INTERFACE (PSI)
Program Outcomes Assessment Procedure (POAP)-V

B.TECH ME PROGRAM

Program- Stakeholders Interface (PSI)

This is the fifth part of the Program Outcomes Assessment Procedure (POAP) which is the link between the program and stakeholders. The College Vision, Mission, Department Vision, Mission and Program Educational Objectives along with Program Outcomes (POs) and Program Specific Outcomes (PSOs) are presented in this interface.

The attainment of POs and PSOs for three academic years (2018-2019 is yet to complete) are also shared with the stakeholders. The attainment is a measure of student accomplishments in the program.

For any further clarifications, kindly contact Class Advisors/Program Coordinator/HoD.

ME Department Team

VISION OF THE INSTITUTE:
To create professionally competent engineers with human values and social commitment

MISSION OF THE INSTITUTE:
Offer well balanced curriculum with student centric approach
Encourage students to participate in innovation, lifelong learning and research
Impart ethical and human values focusing on rural needs and sustainability

VISION OF THE DEPARTMENT:
To groom professionally competent Mechanical Engineers with social commitment

MISSION OF THE DEPARTMENT:
Create an environment that encourages students to become competent Mechanical Engineers
Promote lifelong learning, entrepreneurship and research

ATTAINMENT	Academic Year	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
AVERAGE	2016-2017	2	2	2.1	2.1	2.2	2.3	2.2	2.3	2.3	2.4	2.3	2.2	2	2.1	2.1
AVERAGE	2017-2018	2.1	2.1	2.2	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.3	2.1	2.2	2.2
AVERAGE ATTAINMENT	2018-2019															
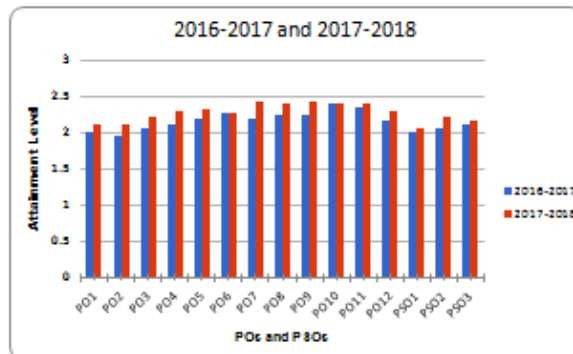
CONCLUSION

The Program Outcomes Assessment Procedure (POAP) is a tailor made platform developed by the SBCE NBA team for the attainment calculations of KTU programs.

The strength in accuracy of the results depends on the question paper setting and proper evaluation of the assessment components.

This platform is revised based on the changes in the KTU curriculum and feedback from the faculty members.