



**ACHARYA INSTITUTE OF GRADUATE STUDIES**

**HANDBOOK**

*on*

**OUTCOME BASED EDUCATION**

*Anil*

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Sole Dasanahalli, Hesaraghatta Road  
Bengaluru - 560107

## Terminology (Abbreviations)

**Outcome Based Education (OBE):** OBE is a student centric teaching and learning methodology in which the course delivery, assessment are planned to achieve stated objectives and outcomes. It focuses on measuring student performance i.e. outcomes at different levels. "It is a process that involves the restructuring of curriculum, assessment and reporting practices in education to reflect the achievement of high order learning and mastery rather than the accumulation of course credits". (Tucker, 2004).

**Program Educational Objectives (PEO):** These are broad statements that describe the career and professional accomplishments in four to five years after graduation that the program is preparing the graduates to achieve.

**Program Outcomes (PO):** Program Outcomes are statements that describe the knowledge, skills, and attitudes (graduate attributes) students should have at the end of the program. POs are formulated by the affiliated University in correlation with the PEOs.

**Program Specific Outcomes (PSO):** PSOs describes what a graduate of a specific program will be able to do. PSOs can be 2 to 4 in number.

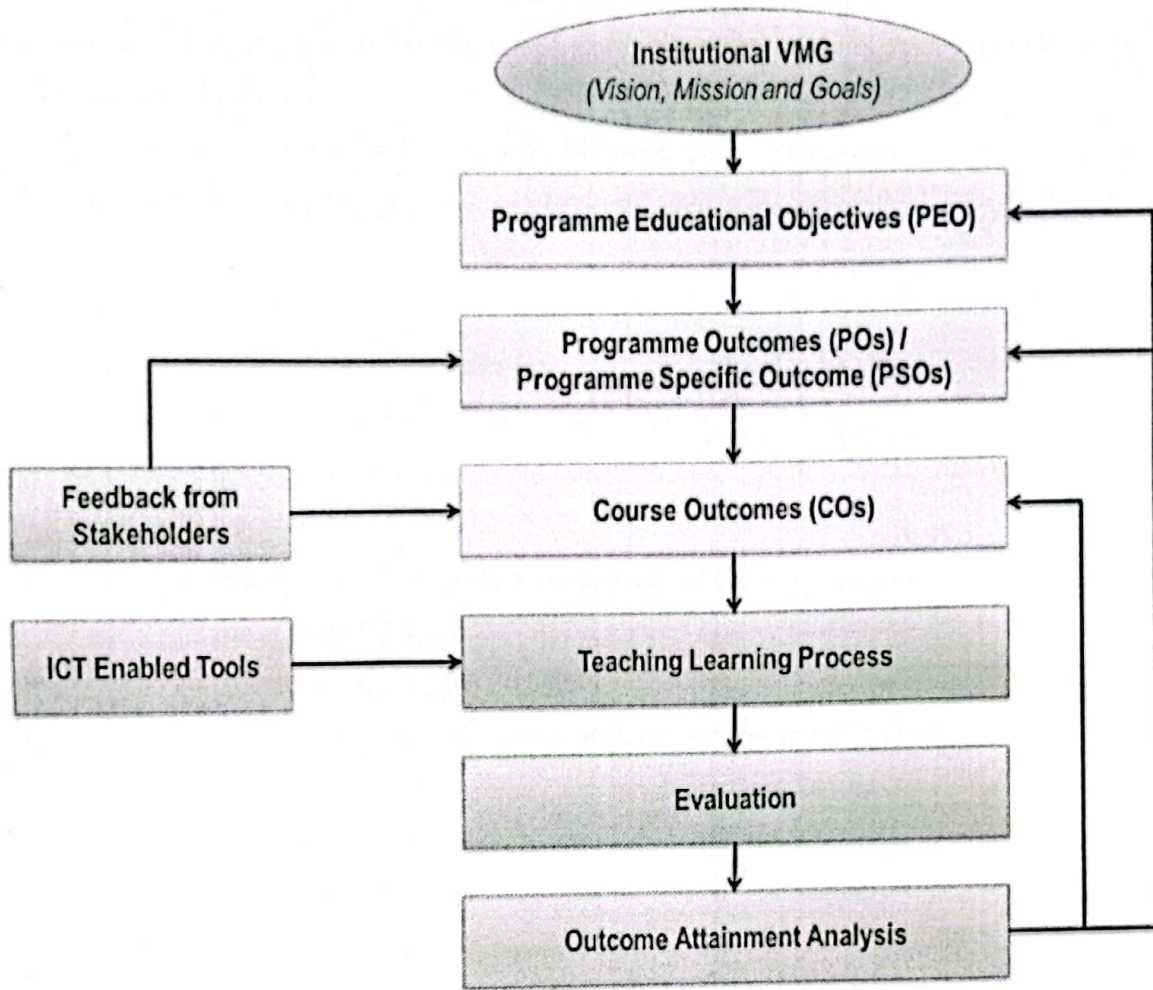
**Course Outcomes (CO):** They are the resultant knowledge skills that the student acquires at the end of the course. It defines the cognitive processes a course provides. COs are major domain-specific outcomes written using action verbs that are specific, measurable, and can be demonstrated by the students on completion of the course. It identifies what the learner will know and be able to do at the end of the course.



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## Outcome Based Education (OBE) Framework



### Few definitions

#### Mapping Factor (Correlation Level)

It indicates to what extent a certain component (either assessment method to CO to PO or CO to PSO)

- **3**-indicates **Substantial (high)** mapping (high contribution towards attainment)
- **2**-indicates **Moderate (medium)** mapping (medium contribution towards attainment)
- **1**-indicates **Slight (low)** mapping (some contribution towards attainment)



## Level of Attainment

### Attainment of COs

- Attainment of COs can be measured **directly** and **indirectly**
- Direct attainment of COs can be determined from the performances of students in all the relevant assessment instruments.
- Indirect attainment of COs can be determined from the course exit survey.
- The exit survey form will permit receiving feedback from students on all the COs.

### Direct CO attainment

- Direct attainment of COs is determined from the performances of students in Continuous Internal Evaluation (CIE) and Semester End Examination (SEE).
- Direct attainment of specific COs is determined from the performances of students to all the assessment items related to that particular CO.
- Every assessment instrument is mapped with the relevant CO.

### Direct CO attainment from CIE

- Continuous Internal Evaluation (CIE) is conducted and evaluated by the Department itself. Thus, Institution have access to question-wise marks in all assessment instruments in CIE.
- When questions are mapped with relevant COs, the department has access to the performances of students with respect to each CO.

### Direct CO attainment from SEE

- Semester End Examination (SEE) is conducted and evaluated by the University.
- As the departments get only total marks scored in SEE and not question-wise marks, the average marks in SEE are considered for the common attainment of all the COs.

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## SAMPLE EXAMPLE OF COs-POs ATTAINMENT

On completion of the internal assessment evaluation the course coordinator will follow the computation method of attainment of the COs and POs using the indigenously developed macro-enabled workbook.


### MACRO-ENABLED WORKBOOK FOR ATTAINMENT COMPUTATION

 Acharya Institute of Graduate Studies Bengaluru - 560 107						
Programme Name						AIT-2021-2110
Course Title:						Bachelor of Social Work
Subject Code						SOCIAL GROUP WORK
Subject Code		BSW	Subject No.	6	Course ID	CLLE
Course Coordinator Name:		Dr. Minhud Bahaman			Emp. ID	A60356
Semester:	2	Section	A	No. of Students Enrolled		23
Year:	1	Academic Year		2021-22	Programme	UG
Course Type:	Theory					
<b>Course Details</b>						
Create - Format			pdf			
<b>Student List</b>						
Create - Format			pdf			
Format for CIE, Assignment, Quiz, etc Marks Entry				Create - Format	pdf	
Starting Ref. Qn. No.	1	Ending Ref. Qn. No.	20	Number of Questions	20	
Qn. attainment Analysis	TEST	1	TEST - 8	TYPE-3		
FD attainment Calculation				AVERAGE		
CIE Attainment Report		Upto	Analyze-AT	Report-AT	pdf	
Semester End Examinations-Results			Create-Format	Analyze-Results	pdf	
Course End Survey			Create-Format	pdf		
<b>Semester End CO-PO-PSD Attainment</b>						
CIE	YES	SEE	YES	CIS	YES	Analyze pdf
Consolidated Report - ALL				pdf		
List of Slow and Fast Learners Based on CIE Performance				Analyze	pdf	
Comparison of CO- PO-PSD Attainment			Create-Format	pdf		
Course End Report (CER) By Course Instructor				Create-Format	pdf	
<b>Continuous Internal Evaluation- Assignments &amp; IA</b>						
CIE-5 Samples		IA	2	Create-Format	pdf	
Course Syllabus		No of Modules/Chapters	5	Course	pdf	



## CO Attainment Computation:

For every course, 4-6 course outcomes (COs) are defined and mapped to Program Outcomes (POs) on a scale of 0 to 3. The highest correlation is 3. For example,

AIGS-UGBSW-NBA-PR																					
File Home Insert Page Layout Formulas Data Review View Help Tell me what's new																					
Clipboard		Font					Alignment														
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1	AIGS/BSW/ 2021-22		Acharya Institute of Graduate Studies Bengaluru – 560 107																		
2																					
3																					
4	Course Information																				
5	Programme Name:	Bachelor of Social Work																			
6	Academic Year:	2021-22	Semester:	2	Section:	A	Subject Type:														
7	Course Title:	SOCIAL GROUP WORK																			
8	Course Instructor Name:	Dr. Mirshad Rahaman							Class Strength:												
9	Subject Code:	BSW	Course No:	6	Course ID:	C116		23													
10																					
11	Scheme of Teaching & Marks																				
12	Contact Hr/Week:	4	Lecture Hours (Hr.):	3	Tutorials (Hr.):	1															
13	Max.CIE Marks:	40	Max. SEE Marks:	60	Total Max.Marks:	100															
14	Min.CIE Marks:	12	Min.SEE Marks:	28	Total Min.Marks:	40															
15	Final CIE (IA) Marks:	40	Assignment Marks:	20	Test Marks:	20															
16			Threshold Values for Attainment Calculation				Final CO Attainment														
17	Attainment level	3	%	2	%	1	%	( Percentage Contribution, %)													
18	Internal Assessment	>=	60	>=	50	>=	40	CIE	40	SEE	60										
19	SE Examination	>=	60	>=	50	>=	40	-		CES											
20																					

### For Internal Exam

- Level 3: 60% Stud scoring  $\geq$  70% of max marks allocated to CO
- Level 2 : 50% Stud scoring  $\geq$  70% of max marks allocated to CO
- Level 1 : 40% Stud scoring  $\geq$  70% of max marks allocated to CO
- Level 0 : Less than 40% Stud scoring  $\geq$  70% of max marks allocated to CO

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The Course Outcomes are defined by setting targets and in accordance with the Bloom's Taxonomy (Cognitive) level.

AIGS-UGBSW-NBA-RE																					
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Clipboard Font Alignment																					
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
21																					
22	Statements of Course Outcomes											No. of CO's	4	Target(%)	BL						
23	C116.1	Demonstrate the nature, types of groups and Social Group Work as a method of Social Work practice.										40	L1								
24	C116.2	Summarise the basic concepts, tools, techniques, processes and skills of working with groups										60	L2								
25	C116.3	Apply the process of group development, models and group dynamics in Social group work.										60	L3								
26	C116.4	Build capacity to deal with group in various settings, including developmental and work.										40	L3								
27																					
28																					
29	Semester End Exam. (SEE) Target(%)				60	Course End Survey(CES) Target (%):															
30																					
31	CO-PO Mapping Table (In the scale of 3)																				
32	CO/PO	1	2	3	4	5	6	7	8	9	10	11	12	CO/PSO	1	2	3	4			
33	C116.1	3												C116.1	3			3			
34	C116.2		3											C116.2		3					
35	C116.3	3	3											C116.3		3	3				
36	C116.4				3									C116.4				3			
37																					
38																					
39	Total	6	6		3									Total	3	6	3	6			
COURSE		STUDENT-LIST			CIE	CO-ATMT			CO-REPORT			SEE	RESULTS		SFI						



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Maximum marks allotted to each question and the corresponding CO. The percentage of students achieving a set percentage of max marks allotted to an individual CO in a given Internal Assessment Test is recorded.

AIGS-UGBSW-NBA-REPORTER -2022\2.0.xlsx - Excel																					
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Clipboard Font Alignment Number Styles																					
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1	AIGS/BSW/2021-22	 <b>Acharya Institute of Graduate Studies</b> Bengaluru – 560 107										 <b>Acharya Institute of Graduate Studies</b> Bengaluru – 560 107									
2	Course Title:	SOCIAL GROUP WORK										SOCIAL GROUP WORK									
3	Subject Code:	BSW	Semester & Section		2 - A		No.Students		23	BSW	Semester & Section		2 - A		No.Students		23				
4	Course Instructor Name:	Dr. Mirshad Rahaman				Course ID:				C116	Dr. Mirshad Rahaman				Course ID:				C116		
5		Test No:1										Test No:2									
6	Ref-Question Number:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
7		CIE Marks Entry Format For the Academic Year - 2021-22										CIE Marks Entry Format For the Academic Year - 2021-22									
8	Questions	1	2	3	4	5	6	7	8	9		1	2	3	4	5	6	7	8	9	
9	Main Question No.	1	2	3	4	5	6	7	8	9		1	2	3	4	5	6	7	8	9	
10	Mapped CO-No.	1	1	1	2	2	2	2	2	2		3	2	2	3	2	3	4	3	4	
11	Sl.	USN/Q-Marks	2	2	2	2	2	5	5	10	10	2	2	2	2	2	5	5	10	10	
12	1	U18AJ21A0017	1	2	2	2	1	4	4	9	9	1	2	2	2	1	4	4	8	8	
13	2	U18AJ21A0018	1	2	1	1	1	4	3	6	6	1	2	1	1	1	3	3	7	6	
14	3	U18AJ21A0019	1	1	1	1	1	4	3	5	5	1	1	1	1	1	3	3	6	6	
15	4	U18AJ21A0020	2	1	1	1	1	3	5	6	5	2	2	1	1	1	4	4	7	7	
16	5	U18AJ21A0021	2	2	2	2	1	4	3	6	5	2	2	2	1	1	4	3	8	6	
17	6	U18AJ21A0022	2	2	2	1	1	4	4	8	7	2	2	2	1	1	4	4	8	7	
18	7	U18AJ21A0023	2	2	2	1	2	4	4	8	7	2	2	2	1	2	5	5	8	7	
19	8	U18AJ21A0024	1	1	1	1	1	2	2	5	4	1	1	1	1	1	2	2	5	4	
20	9	U18AJ21A0026	2	1	1	1	1	3	3	5	5	2	1	1	1	1	3	3	5	5	
21	10	U18AJ21A0027	2	2	2	1	1	4	4	8	7	2	2	2	1	1	4	4	8	7	
22	11	U18AJ21A0031	1	1	1	1	1	3	3	6	6	1	1	1	1	1	3	3	6	6	
23																					


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The report is autogenerated based on the total marks the student scored for each of the COs. The total, average and actual attainment is computed as portrayed below.

AIGS/UGBSW-NBA-REPORTER -2022/2.0.xlsm - Excel											
File Home Insert Page Layout Formulas Data Review View Help Tell me what you want to do											
Clipboard Font Alignment Number											
A B C D E F G H I J K L M N O P Q R S T U V W											
AIGS/BSW/2021-22		 <b>Acharya Institute of Graduate Studies</b> Bengaluru – 560 107									
Course Title		SOCIAL GROUP WORK				Course Code		C116			
Subject Code		BSW	Semester	2	Section	A	Emp.ID		AI002116		
Faculty Name		Dr. Mirshad Rahaman				No.students		23			
<b>Course Outcome Analysis of students -TEST - 1, Academic Year 2021-22</b>											
						Total Attainment		59	54	54	56
						Total Students		23	23	23	23
						Avg. Attainment		2.6	2.4	2.4	2.4
						No.students (=3)		17	15	15	17
						Actual Attainment		2.2	2	2	2.2
Sl.	USN	Course Outcome Number		CO1	CO2	CO3	CO4				
		Total Maximum Marks		6	40	19	15				
1	U18AJ21A0017	CHRISTYENA ACHU KURIAN		3	3	3	3				
2	U18AJ21A0018	VISMAYA ARUN		3	3	3	3				
3	U18AJ21A0019	BOSCO BENYO		2	2	2	3				
4	U18AJ21A0020	AARON C ABRAHAM		3	3	3	3				
5	U18AJ21A0021	ELLENA SUSAN JACOB		3	3	3	3				
6	U18AJ21A0022	LOYAL A R		3	3	3	3				
7	U18AJ21A0023	SUDEEPA BISWAS		3	3	3	3				
8	U18AJ21A0024	MIDHUN S KUMAR		2	1	1	1				
9	U18AJ21A0026	ALBIN M P		3	2	2	2				
10	U18AJ21A0027	SANTO SELVY		3	3	3	3				
11	U18AJ21A0031	SILPA JOSE		2	2	2	3				
12	U18AJ21A0035	RAIHAAN P									
13	U18AJ21A0037	FELCITA MONIS		3	3	3	3				
14	U18AJ21A0039	SEBIN VINCENT		3	3	3	3				
15	U18AJ21A0040	RINTA ANN ABRAHAM		3	3	3	3				
COURSE		STUDENT-LIST		CIE	CO-ATMT	CO-REPORT	SEE	RESULTS	SFL-REPORT	MAIN	



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At the end of the semester, based on the data input considering the CIE scores and analysis of CO attainment, the CO report is generated, as depicted below.

AIGS-UGBSW-NBA-REPORTER -2022V2.0.xlsm - Excel

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1	AIGS/BSW/ 2021-22		Acharya Institute of Graduate Studies Bengaluru - 560 107													
2																
3	Course Title		SOCIAL GROUP WORK						Course Code		C116					
4	Subject Code		BSW		Semester		2		Section		A		Emp.ID		AI002116	
5	Faculty Name		Dr. Mirshad Rahaman						No.students		23					
6	CO Attainment from -TEST - 1&2, in the Subject: BSW-Based on: TYPE-3, Academic Year 2021-22															
7	Sl.	CO Number	Sum	T_Std	Av-AT	TS(=3)	AT,%	Ac_AT	ATNT							
8	CO1	C116.1	59	23	2.6	17	74	2.2	YES							
9	CO2	C116.2	54	23	2.4	15	65	2	YES							
10	CO3	C116.3	54	23	2.4	15	65	2	YES							
11	CO4	C116.4	56	23	2.4	17	74	2.2	YES							
12																
13																
14																
15	Distribution of CO Attainment from -TEST - 1&2, in Subj: BSW-Based on: TYPE-3, ACDY:2021-22															
16	Sl.	CO Number	3	%	2	%	1	%								
17	CO1	C116.1	17	74	4	17		0								
18	CO2	C116.2	15	65	4	17	1	4								
19	CO3	C116.3	15	65	4	17	1	4								
20	CO4	C116.4	17	74	2	9	1	4								

COURSE STUDENT-LIST CIE CO-ATMT **CO-REPORT** SEE RESULTS SFL-REPORT MAIN

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### For External Exam:

Average Marks in SSE will be common attainment of all COs

- Level 3: 60% Stud scoring  $\geq$  Average Marks in SEE
- Level 2 : 50% Stud scoring  $\geq$  Average Marks in SEE
- Level 1 : 40% Stud scoring  $\geq$  Average Marks in SEE
- Level 0 : Less than 40% Stud scoring  $\geq$  Average Marks in SEE

The percentage of contribution of SEE in COs attainment is defined in the course details sheet. This data input is correlated with the CIE and SEE.

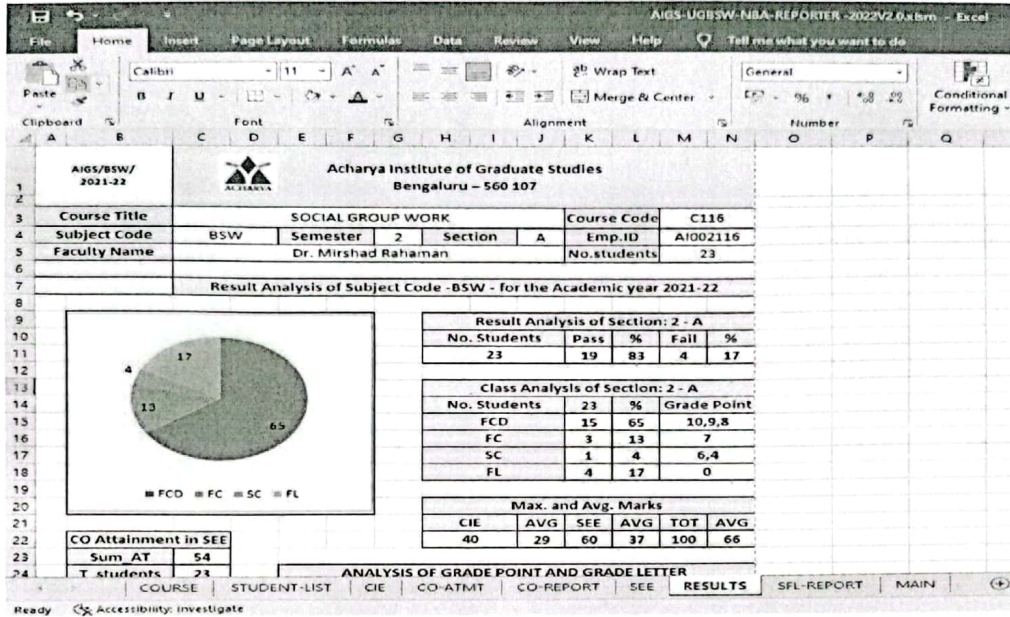
AIGS-UGBSW-NBA-REPORTER -2022V2.0.xlsx - Excel																
File Home Insert Page Layout Formulas Data Review View Help Tell me what you want to do																
Clipboard Font Alignment Number Conditional Formatting																
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	AIGS/BSW/ 2021-22	 <b>Acharya Institute of Graduate Studies</b> Bengaluru – 560 107														
2																
3	Course Title	SOCIAL GROUP WORK				Course Code	C116									
4	Subject Code	BSW	Semester	2	Section	A	Emp.ID	AI002116								
5	Faculty Name	Dr. Mirshad Rahaman				No.students	23									
6																
7		Format for Entry of Semester End Examination Marks										40	60	100		
8	Sl.	USN	NAME			CIE	SEE	Total								
9	1	U18AJ21A0017	CHRISTYENA ACHU KURIAN			39	50	89								
10	2	U18AJ21A0018	VISMAYA ARUN			31	49	80								
11	3	U18AJ21A0019	BOSCO BENOY			34	39	73								
12	4	U18AJ21A0020	AARON C ABRAHAM			28	44	72								
13	5	U18AJ21A0021	ELLENA SUSAN JACOB			34	45	79								
14	6	U18AJ21A0022	LOYAL A R			39	54	93								
15	7	U18AJ21A0023	SUDEEPA BISWAS			38	35	73								
16	8	U18AJ21A0024	MIDHUN S KUMAR			24	0	24								
17	9	U18AJ21A0026	ALBIN M P			25	36	61								
18	10	U18AJ21A0027	SANTO SELVY			31	53	84								
19	11	U18AJ21A0031	SILPA JOSE			0	0	0								
20	12	U18AJ21A0035	RAIHAAN P			0	0	0								
21	13	U18AJ21A0037	FELCITA MONIS			38	46	84								
22	14	U18AJ21A0039	SEBIN VINCENT			34	40	74								
23	15	U18AJ21A0040	RINTA ANN ABRAHAM			40	45	85								
24	16	U18AJ21A0041	ANAMIKA N ANIL			40	53	93								
		COURSE	STUDENT LIST	CIE	CO-ATMT	CO-REPORT	SEE	RESULTS	SFL-REPORT	MAIN						



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Based on the average of CIE and SEE the COs attainment is tabulated.



Program outcomes are attained through the attainment of COs. For a given course, all COs are mapped to relevant POs. The overall CO attainment value as computed in STEP 6 and the CO-PO mapping values given in STEP 1 are used to compute the attainment of POs.



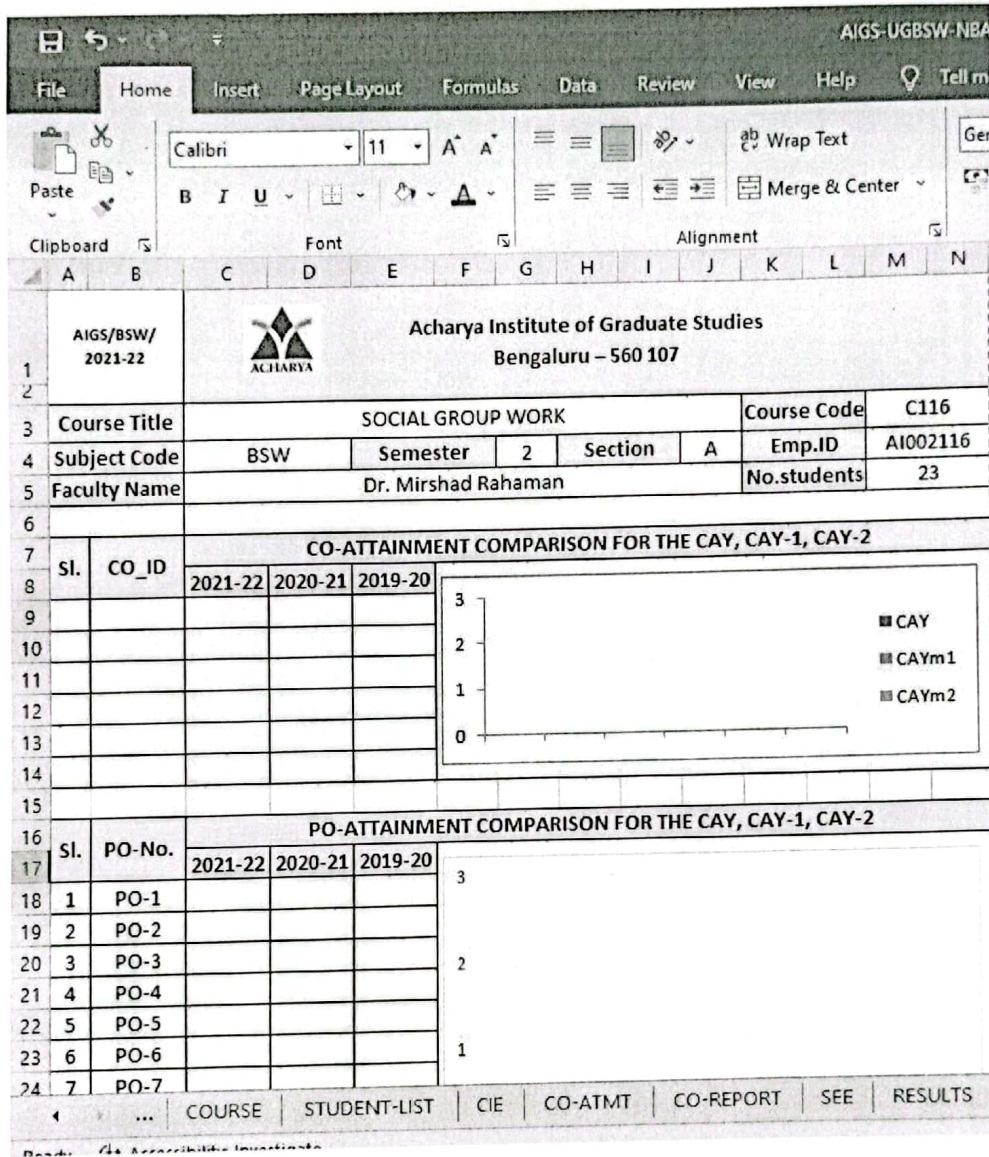
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**PO/PSO Attainment:**

PO/PSO attainment = (CO attainment \* CO-PO Mapping)/Max correlation strength

The Same process is repeated for all the Program Outcomes.



The screenshot shows an Excel spreadsheet for 'AIGS-UGBSW-NBA'. The spreadsheet contains the following data:

AIGS/BSW/ 2021-22		Aacharya Institute of Graduate Studies Bengaluru - 560 107					
Course Title	SOCIAL GROUP WORK					Course Code	C116
Subject Code	BSW	Semester	2	Section	A	Emp.ID	AI002116
Faculty Name	Dr. Mirshad Rahaman					No.students	23

CO-ATTAINMENT COMPARISON FOR THE CAY, CAY-1, CAY-2				
Sl.	CO_ID	2021-22	2020-21	2019-20

PO-ATTAINMENT COMPARISON FOR THE CAY, CAY-1, CAY-2				
Sl.	PO-No.	2021-22	2020-21	2019-20
1	PO-1			
2	PO-2			
3	PO-3			
4	PO-4			
5	PO-5			
6	PO-6			
7	PO-7			

**PO Attainment:**

Indirect attainment is determined from student exit surveys, employer surveys, co-curricular activities, and extracurricular activities and mapped to POs. A questionnaire is designed for this purpose and the average response of the outgoing students for each PO is computed.

Final PO attainment for a particular batch = 0.8 \* Direct Attainment + 0.2 \* Indirect attainment.

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