



OUTCOME BASED EDUCATION (OBE)

2023-2024



PRINCIPAL

SANTHIGINI COLLEGE OF COMPUTER SCIENCES

WAZHITHMA P. O., THODUPUZHA

FERMA, PIN: 685 583



OUTCOME BASED EDUCATION

The institution utilizes the Accredit 360 software to map Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) through CO-PO and CO-PSO matrices. This comprehensive tool generates consolidated mapping and attainment levels for each course within a program, allowing for precise evaluation at the end of each semester.

Accredit 360 features a well-defined Outcome-Based Education (OBE) evaluation method, including a mark sheet, mapping sheet, and output sheet. The mark sheet consolidates results for internal and external assessments, where internal marks are calculated based on attendance, assignments, and internal exams, following a 20:80 weightage ratio.

Attainment levels are categorized as follows: Level 0 (Not Attained), Level 1 (50% of students meet the cut-off), Level 2 (60% meet the cut-off), and Level 3 (70% meet the cut-off). The mapping sheet assesses CO-PO and CO-PSO correlations on a scale from 1 to 3, indicating slight to substantial contributions.

At the semesters end, course outcomes and attainment levels are analysed by subject incharges and discussed in departmental meetings to inform future improvements and remedial actions. This structured approach ensures continuous enhancement of educational quality.

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The college has conducted sessions aimed at enhancing faculty members' understanding of Outcome-Based Education (OBE) and its practical implementation. One session focused on the integration of essential AI tools for teachers using Accredit software, helping faculty better align their teaching methods with measurable learning outcomes and accreditation standards. Accredit software facilitates the efficient mapping of Program Outcomes (POs) and Program Specific Outcomes (PSOs), enabling educators to track and ensure that their courses meet the required criteria for academic excellence.

Another session specifically concentrated on the process of PO-PSO mapping, guiding faculty on how to effectively link program goals with course objectives. This alignment not only ensures that students acquire the desired skills and knowledge but also helps in continuous improvement and better alignment with industry standards. By combining OBE principles with advanced AI tools, these sessions empower faculty to create more personalized, effective, and outcome-driven learning experiences for students.



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REPORT OF OBE SESSIONS PROVIDED FOR FACULTY MEMEBERS



IQAC AND SIRC ORGANISES

FIVE DAYS FACULTY DEVELOPMENT PROGRAMME

On

OUTCOME BASED EDUCATION AND ESSENTIAL AI TOOLS FOR TEACHERS

RESOURCE PERSON
Mr. Andrew Jose
FOUNDER, ACCREDIT 360

VENUE: FR. BEDE MEMORIAL SEMINAR HALL

DATE: 11 -15th AUGUST, 2023







SESSION ON: OUTCOME BASED EDUCATION AND ESSENTIAL AI TOOLS FOR TEACHERS

11.08.2023 to 15.08.2023

VENUE: BEDE MEMORIAL HALL

RESOURCE PERSON: MR ANDREW JOSE, FOUNDER ACCREDIT 360, COCHIN.

ORGANISED BY: INTERNAL QUALITY ASSURANCE CELL (IQAC) & SANTHIGIRI INTERDISCIPLINARY RESEARCH CENTER (SIRC)

A five days faculty development programme on "OUTCOME BASED EDUCATION (OBE) AND ESSENTIAL AI TOOLS FOR TEACHERS" was held from 11th August to 15th of August, 2023, at Bede Memorial Hall. Organized by IQAC and SIRC, the workshop was led by, Mr Andrew Jose, Founder Accredit, Cochin. The session highlights the aims and significance of the programme in enhancing the quality of teaching community as per the requirements of NEP. He also emphasised the importance of understanding Outcome-Based Education (OBE) and adopting AI tools for effective teaching. The session also covered curriculum designing, mapping, and result analysis. The sessions aimed to equip faculty with strategies to align their teaching practices with OBE principles.

The FDP gave a top to bottom comprehension of educational plan arrangement, evaluation methodologies, and the significance of information driven dynamic in upgrading understudy learning results



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SAMMISHI COLLEGE OF COMPUTER SCIENCES
VAZHITHAMA P. O., THODUPUZNA
KERNA, FIN: 685 508



ATTENDANCE:

SIno	NAME	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5
1.	Ms. Ambily V	Col-	a	0=	4	a
2.	Mr. Joshy M Varghese			a		8
3.	Ms. Manju P.K.	0	Q.	60	0	(A)
4.	Mr. Mejo John Johnson	mm	most	TOWN	CONOCI	007
5.	Ms. Saraswathi Antherjanam	COM	0000	UZASU	Spe	500
6.	Ms. Jeesma clement	Fon.	Sm	Sm 1	Fm	She .
7.	Ms. Mariyam Renji	Quaren	H) malen	Os Penys	Odylley	Owner
8.	Dr. Shibi AV	ALL	Ale		and	a
9.	Mr. Sharafudeen P.J	Cook	Card	Codes	Cook	Cycl
10.	Ms. Shreya Krishna	R	A	4	4	A.
11.	Dr Stalin J	7	Co	(n	Co	Co
12.	Dr. Bincy Baby		. 20	1	4	1
13.	Ms. Amitha Joseph	Dirities	andle	Sombo	Jon 1/2	20 M
14.	Ms. Deepa M	Manage	Durang	Biggs	River	Part of
15.	Ms. Dalbina Dalan	Sullies	110	BUILE	A Hurs	Dung
16.	Dr. Bindu George	The	app.	Well -	0-08	POS
17.	Dr. Neetha Thomas	A	N	N	70	N
18.	Mr. Gibin George	unlos.	IMOD	enso	MOD	ON DO
19.	Ms. Leema George	To	72	T	ggl	00
20.	Ms. Remya R	And	A	A	DA	2
21.	Ms. Sigma Sathyan	(2-M)	Marale	must	Que	Sanj
22.	Ms. Siji Antony	74	7	7	7	7
23.	Mr. Haarrish Sabu	dros	bloos	2005	2000	11 15
24.	Mr. Jismon Augustine	Sam.	AL.	5	Short	at and
25.	Mr. Rajesh A V	Eng	800/	Carr	O'C	and a
26.	Ms. Merin Seban	the	Um	Mus	Mar	0
27.	Ms. Gisha Mathew	as.	Clubs	O. da	(.)	SWA
28.	Ms. Divya Jose	Rende	Rent	Sant	6 0 V	(Just



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31.	Ms. Jomol Joy	and the state of t
32.	Mr. Seby Abraham	A A A A
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34.	Mr. Midhun P M	10 00 00 00 00 00 00 00 00 00 00 00 00 0
35.	Mr. Prasanth P	2 3 8 3 3
36.	Mr. Amil Krishna T K	
37.	Ms. Aswathy Murali	all XIK all XIK al XIK
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42.	Ms. Anumol Joy	de de la la de la
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45.	Mr. Alwin Jose Alex	AT THE PARTY OF THE
46.	Mr. Ginto Paulose	















Event 5:



IQAC AND SIRC ORGANISES

FIVE DAYS FACULTY DEVELOPMENT PROGRAM

on

OBE-PO-PSO MAPPING

RESOURCE PERSON

SIJI ANTONY

ASSISTANT PROFESSOR
DEPARTMENT OF COMPUTER SCIENCE
SANTHIGIRI COLLEGE OF COMPUTER SCIENCES,
VAZHITHALA

DATE: 11-09-2023

TO 15-09-2023 VENUE: FR. BEDE MEMORIAL

SEMINAR HALL



PRINCIPAL
SAUTHIGIRI COLLEGE OF COMPUTER SCIENCES
VAZHITHALA P. O., THODUPUZHA
KERALA, P.III: 685 583



SESSION ON: OBE-PO-PSO MAPPING

11.09.2023 to 15.09.2023

VENUE: BEDE MEMORIAL HALL

RESOURCE PERSON: SIJI ANTONY, ASSISTANT PROFESSOR, SANTHIGIRI COLLEGE OF COMPUTER SCIENCES.

ORGANISED BY: INTERNAL QUALITY ASSURANCE CELL (IQAC) & SANTHIGIRI INTERDISCIPLINARY RESEARCH CENTER (SIRC).

From September 11th to 15th, 2023, a five-day Faculty Development Program (FDP) on OBE-PO-PSO Mapping was held at Bede Memorial Hall, organized by the Internal Quality Assurance Cell From September 11th to 15th, 2023, a five-day Faculty Development Program (FDP) on OBE-PO-PSO Mapping was held at Bede Memorial Hall. Organized by the Internal Quality Assurance Cell (IQAC) and the Santhigiri Interdisciplinary Research Center (SIRC), the program featured Siji Antony, an Assistant Professor at Santhigiri College of Computer Sciences, as the resource person. Throughout the sessions, Siji Antony highlighted the importance of Outcome-Based Education (OBE), explaining the shortcomings of traditional education methods and how to address them. She provided a thorough introduction to OBE, making the concepts accessible and beneficial, especially for beginners. A key focus of the program was on practical aspects, such as designing outcome-based question papers and preparing assessments based on results. Siji Antony demonstrated these techniques with various examples and samples, making it easier for participants to understand and apply the concepts in their own teaching practices. Additionally, she explained the processes for achieving Program Outcomes (PO) and Course Outcomes (CO), illustrating these with relevant examples. The interactive sessions allowed participants to ask questions and engage in discussions, which kept the atmosphere lively and engaging. Overall, the program was a valuable and enriching experience, providing educators with the tools and knowledge to enhance their teaching methods through the implementation of OBE-PO-PSO Mapping.



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TERMA, PIN: 255 568



ATTENDANCE:

SI no	NAME	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5
1.	Ms. Ambily V	6	6	at	CA	a.
2.	Mr. Joshy M Varghese	a	A	1	2	1
3.	Ms. Manju P.K.	2	6	62	62	Q2
4.	Mr. Mejo John Johnson	an	Car	032	and	Town
5.	Ms. Saraswathi Antherjanam	Same	Out	May	SIND	Space
6.	Ms. Jeesma clement	do	- For	grat.	An	an,
7.	Ms. Mariyam Renji	Qavatemp	Dayley	Control	malent	Carrelas
8.	Dr. Shibi AV	A	Pri	a de la constante de la consta	P	Jan Jan
9.	Mr. Sharafudeen P.J	Carry	Caro	2000	Sol	Coody
10.	Ms. Shreya Krishna	4	48	\$	R.	\$
11.	Dr Stalin J	Cov	GAL	Gor	500	Eg
12.	Dr. Bincy Baby	2	R	2	D	2
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14.	Ms. Deepa M	Aus	The same	Rigar	de la company	The state of the s
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18.	Mr. Gibin George	(m/a)	DOOR	DNOO	4000	00/00
19.	Ms. Leema George	100	100	9	100	7
20.	Ms. Remya R	A.	P.A.	2A	A	120
21.	Ms. Sigma Sathyan	Game	and	arm	The same	(Quality)
22.	Ms. Siji Antony	730	7	1	4	1
23.	Mr. Haarrish Sabu	Alens-	21-05	March	1000	1
24.	Mr. Jismon Augustine	3	SIN		Offenda	7
25.	Mr. Rajesh A V	On/	Sw	On/	do	Sac.
26.	Ms. Merin Seban	Vis	110-	Olis	No.	OM-
27.	Ms. Gisha Mathew	Cake	Ros	Colo	Cab	G1
28.	Ms. Divya Jose		1	1	2	Sun







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34.	Mr. Midhun P M		NA	100	ADD	20	80
35.	Mr. Prasanth P		8	8	8	8	3
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39.	Mr. Shan Baby		Qu.	Do.	de	J.	æ
10.	Ms. Deepa Joseph		Was P	(Des)	Del	(Dept)	A
11.	Ms. Theres Shaji		Marina	of Slag	n/MC ago	Man	MA
12.	Ms. Anumol Joy		And	Long	dost	- And	
13.	Ms. Mintu Issac		Minla	Mada	ME	W. T.	1
14.	Ms. Suja Thomas	,	Sono	Sand	Sough	Disa.	6
5.	Mr. Alwin Jose Alex		(P)	1	(7)	(97)	(A)
6.	Mr. Ginto Paulose		White	A	47	W/W	1















USER MANUAL

Accredit360 Software (Consolidated)

Ver. 1.1

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ABOUT THE SOFTWARE

The 'Accredit360' software(Consolidated) is a single application to generate the consolidated CO-PO Attainment given the final Internal marks/grades, External marks/grades and CO-PO mapping levels for NAAC.

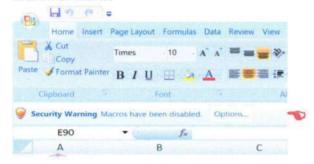
SOFTWARE REQUIREMENTS

Windows - Excel (version 2007 and above)

STEPS

Double click the UG/PG... (Template).xlsm file
 If 'MACRO'; is not enabled a warning message will be shown. Then enable MACRO by clicking on the options.

Click on OPTIONS.



Choose Enable this content.



Click OK to continue.

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2. Fill data in Header Cells(grey)

- a. Choose data from drop-down lists / TYPE
- b. Fill MISSING data after Auto-generation



CO-PO ATTAINMENT SHEETS (Consolidated)

SANTHIGIRI COLLEGE, Vazhithala

Department	Physics	
Program	B.Sc	
Semester	IV	
No: of Students	6	

No: of POs	6	٦ .		NERATE		2)
No: of PSOs	6	- 1				
No: of Courses	10					
Course Code	Ptot	P102	P103	P104	P105	P106
No: of COs	5	3	3	3	4	4

	Name	CI	C101		C102		03
Roll No		Intl	Extl	Intl	Extl	Intl	Ext
1							
2							
3							
4							
5							
6							

			C101		C102		C103	
	4.0	Intl	Extl	Intl	Exti	Inti	Exti	
Roll No	Name	10	Admin : Enter Max.					
1								
2								
3								
4								
5								
6:								

			C101		C102		0.3
Rull No	Name	Intl	Extf	Intl	Extl	Intl	Exit
Kutt No		10					
		50	Admin: Enter Cut-off				
1							
2			T	- 1			
3							
4							
5							
6							

Also FILL Name and Marks/Grades.

3. Press GENERATE after data entry







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4. The Attainment Level and Final Attainment are calculated (UG)

		C101		C102		C103	
		Intl	Extl	Intl	Extl	Intl	10 50
Roll No	Name	10	10 50	10	10	10 50	
		50		50	50		
1	A	A 10 1		10	10	10	10
2	В	10	10	10	10	10	10
3	C	10	10	10	10	10	10
4	D	10	10	10	10	10	10
5	E	10	10	10	10	10	10
6	F	10	10	10	10	10	10
	ATTAINMENT COUNT	6	6	6	6	6	6
	ATTAINMENT %	100	100	100	100	100	100
	ATTAINMENT LEVEL	3	3	3	3	3	3
	ATTAINMENT		3		3		3

5. Enter CO-PO & CO-PSO Mapping in the highlighted cells

C101			CO PO I	IAPPING			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1				A CONTRACTOR			No.
CO2						-	Bar.
CO3			-				
Mapping							
,							

CO-PSO MAPPING

PSO1 PSO2 PSO3 PSO4 PSO5 PSO6

CO1 CO2 CO3 Mapping

Attainment

6. Mapping and Attainment values are calculated

Attainment

C101

			CO-PO N	IAPPING			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	1	1	1	1	ı	1	1
CO2	1	1	1	1	1	- 1	- 1
CO3	1	1	1	1	1	1	I
Mapping	1	1	1	1	1	1	1
Attainment	1	1	1	1	1	1	1

CO-PSO MAPPING PSO1 PSO3 PSO₂ PSO4 PSO5 PSO6 COL CO2 CO3 Mapping 1 1 1 1 1 Attainment 1 1



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7. COPY the Consolidated Output sheet

PO MAPPING (Consolidated)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C101	1	1	1	1	1	1	1
C102	1	1	1	1	1	1	1
C103	1	1	1	1	1	1	1

PO ATTAINMENT (Consolidated)

TO ATTAINMENT (Communical)								
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	
C101	1	1	1	1	1	1	1	
C102	1	1	1	1	1	1	1	
C103	1	1	1	1	1	1	1	

Calculation

Attainment Levels

Level "0" - Not Attained

Level "1" - 50% students achieved cut-off %(UG) or cut-off grade(PG)

Level "2" - 60% students achieved cut-off %(UG) or cut-off grade(PG)

Level "3" - 70% students achieved cut-off %(UG) or cut-off grade(PG)

Consider the sample table for CO Attainment

O Course: C403

O Course Outcomes: 5

Course Outcomes: 5

CO ATTAINMENT for UG Courses									
	C403.1	C403.2	C403.3	C403.4	C403.5				
Internal Attainment	2	2	2	2	2				
University/External Attainment	3	3	3	3	3				
Final CO Attainment	2.8	2.8	2.8	2.8	2.8				

Note 1 :- Only Internal and External marks available

Note 2:- Uniform distribution of attainment to all COs

UG Courses

Internal: External = 20:80

PG courses

Internal: External = 25:75

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CO-PO Mapping Matrix								
	PO1	PO2	PO3	P04	PO5	P06	P07	Attainment
C403.1	2	2	2	2	2	2	2	2.8
C403.2	2	2	2	2	2	2	2	2.8
C403.3	2	2	-	2	1	2	2	2.8
C403.4		2		2	2	2	2	2.8
C403.5	2	2		2	1	2	2	2.8
C403	2	2	2	2	1.6	2	2	
(Mapped)								
C403 (Attained)	1.87	1.87	1.87	1.87	1.49	1.87	1.87	

PO1 Attainment =
$$\frac{(2*\frac{2.8}{3}+2*\frac{2.8}{3}+2*\frac{2.8}{3}+2*\frac{2.8}{3})}{4} = 1.87$$

Similarly, find the PO Attainment of all POs.

ICONS



HELP



INFORMATION



PRINT

ABBREVIATIONS

CO - Course Outcomes

PO - Program Outcomes

PSO - Program specific outcomes

NAAC- National Assessment and Accreditation Council

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