SAMPLE CO ATTAINMENT CALCULATION



SAMPLE COURSE OUTCOME ATTAINMENT

M.Sc. Chemistry

KURIAKOSE ELIAS COLLEGE

MANNANAM

KOTTAYAM, KERALA PIN 686561, MOB: 8590704501 | EMAIL: kecollegemnm@gmail.com

CO-PO ATTAINMENT PROCEDURE FOR DIRECT AND INDIRECT ASSESSMENT

Course Details						
Course Code & Name	CH500301 – STRUCTURAL INORGANIC CHEMISTRY					
Teaching Staff	Dr. Litty Joseph					
Semester	3					
Number of Enrolled Students	13					
Programme	M. Sc. ANALYTICAL CHEMISTRY					
Syllabus	MSc Analytical Chemistry-syl-revised-2018					

Programme Details					
Programme Name M. Sc. ANALYTICAL CHEMISTRY					
Head of the Department	Dr. Jesty Thomas				





Step 1:

Program Outcome (PO)

PO1: Ability to apply and acquire knowledge as evidenced by research activities to find solutions for complex problems by employing right tools

PO4: Possess high awareness of major issues and competent in initiating, developing, and pursuing a scientific research.

PO5: Achieve skills, understandings and personal attribute that makes graduates to gain employment and be successful in their chosen occupations, which benefits themselves, the workforce, the community and the economy.

PO6: Ability to portray good interpersonal skills with high ability to work collaboratively as part of a team undertaking a range of different team roles

PO7: The significance of conserving a clean environment for perpetuation and sustainable development

PO8: Ability to act with integrity and good ethics in their profession and their obligation to society

PO9: Ability to demonstrate leadership, to take action and to get others involved.

P10: Ability to present technical and scientific information and arguments clearly in written and oral presentation.

PO12: Ability to seek new knowledge, skills and manage relevant information from various sources.

Program Specific Outcome (PSO)

Program Educational Objectives (PEO)





Step 2: CO-PO Correlation

	Description	РО
CO1	Explain the band structure of solids and determine the optical electrical and magnetic properties of solids	PO4, PO6, PO8, P10, PO1, PO5, PO7, PO9, PO12
CO2	Describe the theory of conductivity and phenomena of super Conductivity	PO1, PO5, PO7, PO9, PO12, PO4, PO6, PO8, P10
СОЗ	Discuss solid state reactions, of Zinc blende, Wurtzite, Rutile, fluorite, antifluorite, Nickel Arsenide, Perosvskite:	PO1, PO5, PO7, PO9, PO12, PO4, PO6, PO8, P10
CO4	Analyze structure and properties of inorganic chains and rings	PO4, PO6, PO8, P10, PO1, PO5, PO7, PO9, PO12
CO5	Explain the relevance of Organometallic Polymers	PO4, PO6, PO8, P10, PO1, PO5, PO7, PO9, PO12





CO6	Describe the designing and development of Magnetic Nanoparticles.	PO1, PO5, PO7, PO9, PO12, PO4, PO6, PO8, P10
		100, 100, 110

CO-PO Mapping

	P10	PO1	PO12	PO4	PO5	PO6	PO7	PO8	PO9
CO1	2	2	1	2	2	2	2	3	1
CO2	2	3	2	2	1	3	3	3	2
CO3	3	2	1	3	3	2	2	2	3
CO4	2	3	2	2	2	2	2	3	2
CO5	2	2	3	3	0	3	3	2	3
CO6	1	3	2	2	0	1	1	3	2
AVERAGE	2	2.5	1.83	2.33	1.33	2.17	2.17	2.67	2.17

CO-PSO Mapping

Step 3: Weightage, Benchmark and Attainment

Weightage						
Diment Aggregament	Internal	20	100			
Direct Assessment	External	80	100			
Indirect Assessment	Course Evalua	tion Survey	0			





Benchmark and Attainment							
Level	Benchmark	Strength	Attainment				
Level 1	20% Students got more than target	(20% of Student strength): 3.40	1				
Level 2	30% Students got more than target	(30% of Student strength): 5.10	2				
Level 3	40% Students got more than target	(40% of Student strength): 6.80	3				

Step 4Course Attainment for each CO: Direct Assessment for Various Internal Examination

	СО	Total Mark	CTM* (50%)	No. of students above threshold	Attainment
	CO1	5	2.5	9	3
_	CO2	10	5	12	3
Internal 1	CO3	10	5	12	3
	CO4	20	10	12	3
	CO5	20	10	12	3
	CO6	60	30	8	3



Course Attainment for CO: Direct Attainment External

	со	Total Mark	CTM* (50%)	No of Students above threshold	Attainment
External	CO1				
Examination	CO2				
	CO3	_	_	_	3.00
	CO4	_	_	_	3.00
	CO5				
	CO6				

^{*}Competency Threshold Mark

Step 5:Course Attainment for each CO: Indirect Assessment (Course Exit Survey)

	СО	Average Attainment	Attainment
Indirect	CO1	-	
Assessment	CO2	-	
	CO3	-	0.00
	CO4	-	0.00
	CO5	-	
	CO6	-	

Step 6:Direct Attainment

	CO1	CO2	CO3	CO4	CO5	CO6	Average	Weightage	Attainment
Internal	3.00	3.00	3.00	3.00	3.00	3.00	3.00	20	0.60
External	3	3	3	3	3	3	3.00	80	2.40
Direct Attainment Total							3		





Step 7:

Course Outcome Attainment

	Attainment	Weightage	Final Attainment
Direct Attainment	3.00	100%	3.00
Indirect Attainment	0.00	0%	0.00
Course Outcome Attainment	3.00		
Course Outcome Attainment Percenta	100.00%		

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Signature of Teacher

Signature of HOD



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CO-PO ATTAINMENT PROCEDURE FOR DIRECT AND INDIRECT ASSESSMENT

Course Details					
Course Code & Name	CH500203 - Chemical Bonding and Computational Chemistry				
Teaching Staff	LINTA MARIA JOSE				
Semester	2				
Number of Enrolled Students	13				
Programme	M. Sc. ANALYTICAL CHEMISTRY				
Syllabus	MSc Analytical Chemistry-syl-revised-2018				

Programme Details					
Programme Name M. Sc. ANALYTICAL CHEMISTRY					
Head of the Department	Dr. Jollyamma Mathew				





Step 1:

Program Outcome (PO)

PO1: Ability to apply and acquire knowledge as evidenced by research activities to find solutions for complex problems by employing right tools

PO4: Possess high awareness of major issues and competent in initiating, developing, and pursuing a scientific research.

PO5: Achieve skills, understandings and personal attribute that makes graduates to gain employment and be successful in their chosen occupations, which benefits themselves, the workforce, the community and the economy.

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PO7: The significance of conserving a clean environment for perpetuation and sustainable development

PO8: Ability to act with integrity and good ethics in their profession and their obligation to society

PO9: Ability to demonstrate leadership, to take action and to get others involved.

P10: Ability to present technical and scientific information and arguments clearly in written and oral presentation.

PO12: Ability to seek new knowledge, skills and manage relevant information from various sources.

Program Specific Outcome (PSO)

Program Educational Objectives(PEO)





Step 2: CO-PO Correlation

	Description	РО
CO1	Apply and evaluate group theoretical concepts in spectroscopy.	PO4, PO8, PO1, PO7, PO12, PO6, P10, PO5, PO9
CO2	Describe quantum mechanics from one electron system to many electron systems and various theories of chemical bonding.	PO5, PO9, PO4, PO8, PO1, PO7, PO12, PO6, P10
СОЗ	Discuss various approximation methods in quantum mechanics.	PO6, P10, PO5, PO9, PO4, PO8, PO1, PO7, PO12
CO4	Apply MO theory in various molecules like H2, H2+ etc.	PO1, PO7, PO12, PO6, P10, PO5, PO9, PO4, PO8
CO5	Describe basic ideas and scope of computational chemistry.	PO4, PO8, PO1, PO7, PO12, PO6, P10, PO5, PO9



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CO6	Explain Hartee-Fock method and selfconsistent field (SCF) procedure.	PO5, PO9, PO4, PO8, PO1, PO7, PO12, PO6, P10
CO7	Differentiation of ab initio, semi empirical and DFT methods.	PO6, P10, PO5, PO9, PO4, PO8, PO1, PO7, PO12

CO-PO Mapping

o i O Mapping									
	P10	PO1	PO12	PO4	PO5	PO6	PO7	PO8	PO9
CO1	2	2	2	2	1	1	1	2	2
CO2	1	3	3	3	2	2	2	1	2
CO3	2	1	2	2	3	1	2	3	3
CO4	3	2	2	2	2	3	3	1	1
CO5	2	1	3	1	1	2	2	2	2
CO6	2	2	2	2	2	2	1	2	2
CO7	3	1	2	3	2	3	2	3	2
AVERAGE	2.14	1.71	2.29	2.14	1.86	2	1.86	2	2

CO-PSO Mapping





Step 3: Weightage, Benchmark and Attainment

Weightage						
Direct Assessment	Internal 20		100			
Direct Assessment	External	80	100			
Indirect Assessment	Course Evalua	tion Survey	0			

Benchmark and Attainment							
Level	Benchmark	Strength	Attainment				
Level 1	20% Students got more than target	(20% of Student strength): 3.40	1				
Level 2	30% Students got more than target	(30% of Student strength): 5.10	2				
Level 3	40% Students got more than target	(40% of Student strength): 6.80	3				

Step 4Course Attainment for each CO: Direct Assessment for Various Internal Examination



	СО	Total Mark	CTM* (50%)	No. of students above threshold	Attainment
	CO1	-	-	-	-
	CO2	10	5	11	3
Internal 1	CO3	15	7.5	10	3
	CO4	10	5	10	3
	CO5	10	5	10	3
	CO6	40	20	4	1
	CO7	40	20	8	3

Course Attainment for CO: Direct Attainment External

	СО	Total Mark	CTM* (50%)	No of Students above threshold	Attainment
External	CO1				
Examination	CO2				
	CO3				
	CO4	-	-	-	3.00
	CO5				
	CO6				
	CO7				

^{*}Competency Threshold Mark

Step 5:Course Attainment for each CO: Indirect Assessment (Course Exit Survey)

	СО	Average Attainment	Attainment
Indirect	CO1	-	
Assessment	CO2	-	
	CO3	-	
	CO4	-	0.00
	CO5	-	
	CO6	-	
	CO7	-	





Step 6:

Direct Attainment

	CO1	CO2	CO3	CO4	CO5	CO6	CO7	Average	Weightage	Attainment
Internal	-	3.00	3.00	3.00	3.00	1.00	3.00	2.67	20	0.53
External	3	3	3	3	3	3	3	3.00	80	2.40
Direct Attainment Total								2.93		

Step 7:

Course Outcome Attainment

	Attainment	Weightage	Final Attainment	
Direct Attainment	2.93	100%	2.93	
Indirect Attainment	0.00 0%		0.00	
Course Outcome Attainment	2.93			
Course Outcome Attainment Percent	97.67%			

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M.A. Economics

KURIAKOSE ELIAS COLLEGE

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CO-PO ATTAINMENT PROCEDURE FOR DIRECT AND INDIRECT ASSESSMENT

Course Details				
Course Code & Name	EC010202 - Macroeconomics-ll			
Teaching Staff	GINCY LUKOSE V			
Semester	2			
Number of Enrolled Students	13			
Programme	M. A. ECONOMICS			
Syllabus	MA Economics-revised-2018			

Programme Details			
Programme Name	M. A. ECONOMICS		
Head of the Department	RINU JOSE		





Step 1:

Program Outcome (PO)

PO5: Achieve skills, understandings and personal attribute that makes graduates to gain employment and be successful in their chosen occupations, which benefits themselves, the workforce, the community and the economy.

PO6: Ability to portray good interpersonal skills with high ability to work collaboratively as part of a team undertaking a range of different team roles

PO7: The significance of conserving a clean environment for perpetuation and sustainable development

PO8: Ability to act with integrity and good ethics in their profession and their obligation to society

PO9: Ability to demonstrate leadership, to take action and to get others involved.

P10: Ability to present technical and scientific information and arguments clearly in written and oral presentation.

PO12: Ability to seek new knowledge, skills and manage relevant information from various sources.

PO1: Ability to apply and acquire knowledge as evidenced by research activities to find solutions for complex problems by employing right tools

PO4: Possess high awareness of major issues and competent in initiating, developing, and pursuing a scientific research.

Program Specific Outcome (PSO)

Program Educational Objectives(PEO)



Step 2:

CO-PO Correlation

	Description	РО
CO1	Explain the strengths and weakness of the main macro economic tools models used in modern macro economics	PO6, P10, PO5, PO9, PO4, PO8, PO1, PO7, PO12
CO2	Evaluate and critically compare the results in alternative macro economic models	PO1, PO7, PO12, PO6, P10, PO5, PO9, PO4, PO8
СОЗ	Analyse the importance and limitations of modelling assumptions for macro economic policy	PO4, PO8, PO1, PO7, PO12, PO6, P10, PO5, PO9

CO-PO Mapping

	P10	PO1	PO12	PO4	PO5	PO6	PO7	PO8	PO9
CO1	1	3	3	3	2	1	2	2	1
CO2	1	3	3	3	2	2	2	2	1
CO3	2	3	3	3	1	1	2	2	1
AVERAGE	1.33	3	3	3	1.67	1.33	2	2	1

CO-PSO Mapping





Step 3: Weightage, Benchmark and Attainment

Weightage				
Direct Assessment	Internal	20	100	
Direct Assessment	External	80	100	
Indirect Assessment	Course Evalua	tion Survey	0	

Benchmark and Attainment						
Level	Level Benchmark Strength					
Level 1	20% Students got more than target	(20% of Student strength): 3.00	1			
Level 2	30% Students got more than target	(30% of Student strength): 4.50	2			
Level 3	40% Students got more than target	(40% of Student strength): 6.00	3			

Step 4Course Attainment for each CO: Direct Assessment for Various Internal Examination

	СО	Total Mark	CTM* (50%)	No. of students above threshold	Attainment
Internal 1	CO1	15	7.5	13	3
	CO2	16	8	12	3
	CO3	27	13.5	13	3





Course Attainment for CO: Direct Attainment External

	СО	Total Mark	CTM* (50%)	No of Students above threshold	Attainment
External	CO1				
Examination	CO2	-	-	-	3.00
	CO3				

^{*}Competency Threshold Mark

Step 5:

Course Attainment for each CO: Indirect Assessment (Course Exit Survey)

	CO	Average Attainment	Attainment
Indirect	CO1	-	
Assessment	CO2	-	0.00
	CO3	-	

Step 6:

Direct Attainment

	CO1	CO2	CO3	Average	Weightage	Attainment
Internal	3.00	3.00	3.00	3.00	20	0.60
External	3	3	3	3.00	80	2.40
Direct Attainment Total						3

Step 7:

Course Outcome Attainment

	Attainment	Weightage	Final Attainment
Direct Attainment	3.00	100%	3.00
Indirect Attainment	0.00	0%	0.00
Course Outcome Attainment	3.00		
Course Outcome Attainment Percent	100.00%		

Signature of Teacher



Signature of HOD



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CO-PO ATTAINMENT PROCEDURE FOR DIRECT AND INDIRECT ASSESSMENT

Course Details			
Course Code & Name	EC010201 - Micro Economics II		
Teaching Staff	Lenny Elsa Varghese		
Semester	2		
Number of Enrolled Students	13		
Programme	M. A. ECONOMICS		
Syllabus	MA Economics-revised-2018		

Programme Details		
Programme Name	M. A. ECONOMICS	
Head of the Department	RINU JOSE	





Step 1:

Program Outcome (PO)

PO5: Achieve skills, understandings and personal attribute that makes graduates to gain employment and be successful in their chosen occupations, which benefits themselves, the workforce, the community and the economy.

PO6: Ability to portray good interpersonal skills with high ability to work collaboratively aspart of a team undertaking a range of different team roles

PO7: The significance of conserving a clean environment for perpetuation and sustainable development

PO8: Ability to act with integrity and good ethics in their profession and their obligation tosociety

PO9: Ability to demonstrate leadership, to take action and to get others involved.

P10: Ability to present technical and scientific information and arguments clearly in written and oral presentation.

PO12: Ability to seek new knowledge, skills and manage relevant information from various sources.

PO1: Ability to apply and acquire knowledge as evidenced by research activities to find solutions for complex problems by employing right tools

PO4: Possess high awareness of major issues and competent in initiating, developing, and pursuing a scientific research.

Program Specific Outcome (PSO)

Program Educational Objectives (PEO)



Step 2: CO-PO Correlation

	Description	РО
CO1	Explain decision-making In the context of Market Interdependence, Complexity, Uncertainty And Informational Asymmetry	PO5, PO9, PO4, PO8, PO1, PO7, PO12, PO6, P10
CO2	Critically examine the Developments In the areas Of General Equilibrium and Welfare Economics	PO6, P10, PO5, PO9, PO4, PO8, PO1, PO7, PO12
CO3	Apply Microeconomic principles in the areas of Industrial Organization, Exchange, and Welfare	PO1, PO7, PO12, PO6, P10, PO5, PO9, PO4, PO8

CO-PO Mapping

20-1 O Mapping									
	P10	PO1	PO12	PO4	PO5	PO6	PO7	PO8	PO9
CO1	3	3	3	2	2	3	3	3	3
CO2	3	2	2	2	3	2	2	2	3
CO3	2	3	3	3	2	3	3	3	3
AVERAG E	2.67	2.67	2.67	2.33	2.33	2.67	2.67	2.67	3

CO-PSO Mapping





Step 3: Weightage, Benchmark and Attainment

Weightage				
Direct Assessment	Internal	20	100	
Direct Assessment	External	100		
Indirect Assessment	Course Evaluation Survey		0	

Benchmark and Attainment					
Level	Benchmark	Strength	Attainment		
Level 1	20% Students got more than target	(20% of Student strength): 3.20	1		
Level 2	30% Students got more than target	(30% of Student strength): 4.80	2		
Level 3	40% Students got more than target	(40% of Student strength): 6.40	3		

Step 4Course Attainment for each CO: Direct Assessment for Various Internal Examination

	СО	Total Mark	CTM* (50%)	No. of students above threshold	Attainment
Model Exam	CO1	10	5	13	3
	CO2	17	8.5	13	3
	CO3	13	6.5	13	3





Course Attainment for CO: Direct Attainment External

	СО	Total Mark	CTM* (50%)	No of Students above threshold	Attainment
External	CO1				
Examination	CO2	-	-	-	3.00
	CO3				

^{*}Competency Threshold Mark

Step 5:

Course Attainment for each CO: Indirect Assessment (Course Exit Survey)

	СО	Average Attainment	Attainment
Indirect	CO1	-	
Assessment	CO2	-	0.00
	CO3	-	

Step 6:

Direct Attainment

	CO1	CO2	CO3	Average	Weightage	Attainment
Internal	3.00	3.00	3.00	3.00	20	0.60
External	3	3	3	3.00	80	2.40
Direct Attainment Total					3	

Step 7:

Course Outcome Attainment

	Attainment	Weightage	Final Attainment
Direct Attainment	3.00	100%	3.00
Indirect Attainment	0.00	0%	0.00
Course Outcome Attainment	3.00		
Course Outcome Attainment Percenta	100.00%		

Signature of Teacher



Signature of HOD



M.Sc. Physics

KURIAKOSE ELIAS COLLEGE

MANNANAM

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CO-PO ATTAINMENT PROCEDURE FOR DIRECT AND INDIRECT ASSESSMENT

Course Details				
Course Code & Name	PH010201 - Mathematical Methods in Physics-II			
Teaching Staff	Feby Jose			
Semester	2			
Number of Enrolled Students	13			
Programme	M. Sc. PHYSICS			
Syllabus	MSc Physics-syl-revised-2018			

Programme Details			
Programme Name	M. Sc. PHYSICS		
Head of the Department	JINI THOMAS		





Step 1:

Program Outcome (PO)

PO1: Ability to apply and acquire knowledge as evidenced by research activities to find solutions for complex problems by employing right tools

PO4: Possess high awareness of major issues and competent in initiating, developing, and pursuing a scientific research.

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PO12: Ability to seek new knowledge, skills and manage relevant information from various sources.

Program Specific Outcome (PSO)

Program Educational Objectives (PEO)





Step 2: CO-PO Correlation

	Description	РО
CO1	Analyse the properties of complex variables and it's applications	PO4, PO6, PO8, P10, PO1, PO5, PO7, PO9, PO12
CO 2	Recognise the importance of Fourier analysis in physical problems	PO1, PO5, PO7, PO9, PO12, PO4, PO6, PO8, P10
CO 3	Apply integral transforms to different practical situations	PO1, PO5, PO7, PO9, PO12, PO4, PO6, PO8, P10
CO 4	Analyse various special functions, polynomials and their differential equations	PO4, PO6, PO8, P10, PO1, PO5, PO7, PO9, PO12
CO 5	Solve partial differential equations in different coordinate systems	PO4, PO6, PO8, P10, PO1, PO5, PO7, PO9, PO12





		PO1, PO5,
CO 6	Construct and evaluate Greens functions	PO7, PO9, PO12,
		PO4, PO6,
		PO8, P10

CO-PO Mapping

	P10	PO1	PO12	PO4	PO5	PO6	PO7	PO8	PO9
CO1	1	3	3	3	3	2	1	1	3
CO 2	1	3	3	3	3	2	1	1	3
CO 3	1	3	3	3	3	2	1	1	3
CO 4	1	3	3	3	2	2	1	1	3
CO 5	1	3	3	3	2	2	1	2	3
CO 6	1	3	3	3	3	2	1	2	3
AVERAGE	1	3	3	3	2.67	2	1	1.33	3

CO-PSO Mapping

Step 3: Weightage, Benchmark and Attainment

Weightage					
Direct Assessment	Internal	20	100		
Direct Assessment	External	80	100		
Indirect Assessment	Course Evalua	tion Survey	0		





	Benchmark and Attainment					
Level	Benchmark	Strength	Attainment			
Level 1	20% Students got more than target	(20% of Student strength): 2.60	1			
Level 2	30% Students got more than target	(30% of Student strength): 3.90	2			
Level 3	40% Students got more than target	(40% of Student strength): 5.20	3			

Step 4Course Attainment for each CO: Direct Assessment for Various Internal Examination

	СО	Total Mark	CTM* (50%)	No. of students above threshold	Attainment
	CO1	6	3	13	3
	CO 2	9	4.5	13	3
Internal 1	CO 3	11	5.5	13	3
	CO 4	6	3	13	3
	CO 5	6	3	13	3
	CO 6	2	1	13	3





Course Attainment for CO: Direct Attainment External

	СО	Total Mark	CTM* (50%)	No of Students above threshold	Attainment
External	CO1				
Examination	CO 2				
	CO 3	_	_	_	3.00
	CO 4		_	_	3.00
	CO 5				
	CO 6				

^{*}Competency Threshold Mark

Step 5: Course Attainment for each CO: Indirect Assessment (Course Exit Survey)

	СО	Average Attainment	Attainment
Indirect	CO1	-	
Assessment	CO 2	-	
	CO 3	-	0.00
	CO 4	-	0.00
	CO 5	-	
	CO 6	-	

Step 6: Direct Attainment

	CO1	CO 2	CO 3	CO 4	CO 5	CO 6	Average	Weightage	Attainment
Internal	3.00	3.00	3.00	3.00	3.00	3.00	3.00	20	0.60
External	3	3	3	3	3	3	3.00	80	2.40
Direct Attainment Total				3					





Step 7:Course Outcome Attainment

	Attainment	Weightage	Final Attainment
Direct Attainment	3.00	100%	3.00
Indirect Attainment	0.00	0%	0.00
Course Outcome Attainment	3.00		
Course Outcome Attainment Percenta	100.00%		

Signature of Teacher

Signature of HOD





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MANNANAM

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CO-PO ATTAINMENT PROCEDURE FOR DIRECT AND INDIRECT ASSESSMENT

Course Details				
Course Code & Name	PH810403 - Nanostructures and Materials Characterization			
Teaching Staff	Mercy Mathews			
Semester	4			
Number of Enrolled Students	13			
Programme	M. Sc. PHYSICS			
Syllabus	MSc Physics-syl-revised-2018			

Programme Details				
Programme Name M. Sc. PHYSICS				
Head of the Department	JINI THOMAS			





Step 1:

Program Outcome (PO)

PO1: Ability to apply and acquire knowledge as evidenced by research activities to find solutions for complex problems by employing right tools

PO4: Possess high awareness of major issues and competent in initiating, developing, and pursuing a scientific research.

PO5: Achieve skills, understandings and personal attribute that makes graduates to gain employment and be successful in their chosen occupations, which benefits themselves, the workforce, the community and the economy.

PO6: Ability to portray good interpersonal skills with high ability to work collaboratively aspart of a team undertaking a range of different team roles

PO7: The significance of conserving a clean environment for perpetuation and sustainable development

PO8: Ability to act with integrity and good ethics in their profession and their obligation tosociety

PO9: Ability to demonstrate leadership, to take action and to get others involved.

P10: Ability to present technical and scientific information and arguments clearly in written and oral presentation.

PO12: Ability to seek new knowledge, skills and manage relevant information from various sources.

Program Specific Outcome (PSO)

Program Educational Objectives (PEO)





Step 2:CO-PO Correlation

	Description	РО
CO1	Discuss about the synthesis and properties of Nanostructures	PO1, PO4, PO5, PO12, PO6, PO7, PO8, PO9, P10
CO2	Discriminate the types of nanomaterials and identify their applications	PO1, PO4, PO5, PO12, PO6, PO7, PO8, PO9, P10
СОЗ	Classify various types of optical absorption and emission spectroscopy	PO1, PO4, PO5, PO12, PO6, PO7, PO8, PO9, P10
CO4	Illustrate different chemical, thermal and X ray diffraction methods of characterization	PO1, PO4, PO5, PO12, PO6, PO7, PO8, PO9, P10

CO-PO Mapping



	P10	PO1	PO12	PO4	PO5	PO6	PO7	PO8	PO9
CO1	0	1	1	2	2	1	1	1	1
CO2	1	2	2	3	1	1	1	2	2
CO3	2	2	3	3	2	1	2	1	1
CO4	1	2	2	2	2	1	1	2	2
AVERAG E	1	1.75	2	2.5	1.75	1	1.25	1.5	1.5

CO-PSO Mapping

Step 3: Weightage, Benchmark and Attainment

Weightage								
Direct Assessment	Internal 20		100					
Direct Assessment	External	80	100					
Indirect Assessment	Course Evalua	tion Survey	0					

Benchmark and Attainment								
Level	Benchmark	Strength	Attainment					
Level 1	20% Students got more than target	(20% of Student strength): 2.60	1					
Level 2	30% Students got more than target	(30% of Student strength): 3.90	2					
Level 3	40% Students got more than target	(40% of Student strength): 5.20	3					





Step 4

Course Attainment for each CO: Direct Assessment for Various Internal Examination

	СО	Total Mark	CTM* (50%)	No. of students above threshold	Attainment
	CO1	40	20	0	0
Internal 1	CO2	30	15	0	0
	CO3	40	20	0	0
	CO4	70	35	0	0

Course Attainment for CO: Direct Attainment External

	СО	Total Mark	CTM* (50%)	No of Students above threshold	Attainment
External	CO1				
Examination	CO2				2.00
	CO3	-	-	-	3.00
	CO4				

^{*}Competency Threshold Mark

Step 5:Course Attainment for each CO: Indirect Assessment (Course Exit Survey)

	CO	Average Attainment	Attainment	
Indirect	CO1	-		
Assessment	CO2	-	0.00	
	CO3	-	0.00	
	CO4	-		

Step 6:Direct Attainment

	CO1	CO2	CO3	CO4	Average	Weightage	Attainment
Internal	-	1	1	-	0.00	20	0.00
External	3	3	3	3	3.00	80	2.40
Direct Attainme	2.4						





Step 7:

Course Outcome Attainment

	Attainment	Weightage	Final Attainment	
Direct Attainment	2.40	100%	2.40	
Indirect Attainment	0.00 0%		0.00	
Course Outcome Attainment			2.40	
Course Outcome Attainment Percenta	80.00%			

Signature of Teacher



Signature of HOD



M.Sc. Psychology

KURIAKOSE ELIAS COLLEGE

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KOTTAYAM, KERALA PIN 686561, MOB: 8590704501 |EMAIL: kecollegemnm@gmail.com

CO-PO ATTAINMENT PROCEDURE FOR DIRECT AND INDIRECT ASSESSMENT

Course Details					
Course Code & Name	PY010101 - Cognitive Psychology				
Teaching Staff	NIMMY JOHNS				
Semester	1				
Number of Enrolled Students	12				
Programme	M. Sc. PSYCHOLOGY				
Syllabus	MSc Psychology-syl-revised- 2018				

Programme Details					
Programme Name	M. Sc. PSYCHOLOGY				
Head of the Department	FR JOHNSON JOSEPH				





Step 1:

Program Outcome (PO)

PO1: Ability to apply and acquire knowledge as evidenced by research activities to find solutions for complex problems by employing right tools

PO4: Possess high awareness of major issues and competent in initiating, developing, and pursuing a scientific research.

PO5: Achieve skills, understandings and personal attribute that makes graduates to gain employment and be successful in their chosen occupations, which benefits themselves, the workforce, the community and the economy.

PO6: Ability to portray good interpersonal skills with high ability to work collaboratively aspart of a team undertaking a range of different team roles

PO7: The significance of conserving a clean environment for perpetuation and sustainable development

PO8: Ability to act with integrity and good ethics in their profession and their obligation tosociety

PO9: Ability to demonstrate leadership, to take action and to get others involved.

P10: Ability to present technical and scientific information and arguments clearly in written and oral presentation.

PO12: Ability to seek new knowledge, skills and manage relevant information from various sources.

Program Specific Outcome (PSO)

Program Educational Objectives (PEO)





Step 2: CO-PO Correlation

	Description	РО
CO 1	Understand the basic concepts of Cognitive Psychology	PO6, P10, PO9, PO5, PO8, PO4, PO7, PO12, PO1
CO 2	Explain theoretical understanding of perception, memory andthinking, including current research trends and their output.	PO7, PO12, PO1, PO6, P10, PO9, PO5, PO8, PO4
CO 3	Understand and ask questions related to the functioning ofmind.	PO8, PO4, PO7, PO12, PO1, PO6, P10, PO9, PO5
CO 4	Establish knowledge and understanding of well established theories in Cognitive Psychology as well as an appreciation of the complexities if Cognitive processess	PO9, PO5, PO8, PO4, PO7, PO12, PO1, PO6, P10
CO 5	Describe research methods in Cognitive Psychology and the ability to critically evaluate research jn this area.	PO6, P10, PO9, PO5, PO8, PO4, PO7, PO12, PO1





CO 6	Develop skills of applying Cognitive methods to the relam of cognition.	PO7, PO12, PO1, PO6, P10, PO9, PO5, PO8, PO4
CO 7	Develop skills of applying and segmenting basic psychological mechanisms.	PO8, PO4, PO7, PO12, PO1, PO6, P10, PO5, PO9

CO-PO Mapping

	P10	PO1	PO12	PO4	PO5	PO6	PO7	PO8	PO9
CO 1	3	3	2	2	3	2	2	2	2
CO 2	2	2	2	3	2	3	3	3	3
CO 3	3	3	1	2	1	2	2	2	2
CO 4	2	2	3	2	3	3	2	3	3
CO 5	1	2	3	3	2	2	2	2	2
CO 6	2	1	2	2	2	2	3	3	3
CO 7	3	1	3	0	1	1	2	2	1
AVERAG E	2.29	2	2.29	2	2	2.14	2.29	2.43	2.29

CO-PSO Mapping





Step 3: Weightage, Benchmark and Attainment

Weightage							
Divost Assessment	Internal	20	100				
Direct Assessment	External	80	100				
Indirect Assessment	Course Evalua	tion Survey	0				

Benchmark and Attainment							
Level	Benchmark	Strength	Attainment				
Level 1	20% Students got more than target	(20% of Student strength): 2.40	1				
Level 2	30% Students got more than target	(30% of Student strength): 3.60	2				
Level 3	40% Students got more than target	(40% of Student strength): 4.80	3				

Step 4Course Attainment for each CO: Direct Assessment for Various Internal Examination



	СО	Total Mark	CTM* (50%)	No. of students above threshold	Attainment
	CO 1	2	1	9	3
	CO 2	7	3.5	8	3
Internal 1	CO 3	6	3	11	3
	CO 4	6	3	12	3
	CO 5	11	5.5	10	3
	CO 6	14	7	9	3
	CO 7	4	2	12	3

Course Attainment for CO: Direct Attainment External

	со	Total Mark	CTM* (50%)	No of Students above threshold	Attainment
External	CO 1				
Examination	CO 2				
	CO 3				
	CO 4	-	-	-	0.00
	CO 5				
	CO 6				
	CO 7				

^{*}Competency Threshold Mark

Step 5:Course Attainment for each CO: Indirect Assessment (Course Exit Survey)

	СО	Average Attainment	Attainment
Indirect	CO 1	-	
Assessment	CO 2	-	
	CO 3	-	
	CO 4	-	0.00
	CO 5	-	
	CO 6	-	
	CO 7	-	





Step 6:

Direct Attainment

	CO 1	CO 2	CO 3	CO 4	CO 5	CO 6	CO 7	Average	Weightage	Attainment
Internal	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	20	0.60
External	3	3	3	3	3	3	3	3.00	80	2.40
Direct Attainment Total								3		

Step 7:

Course Outcome Attainment

	Attainment	Weightage	Final Attainment
Direct Attainment	3.00 100%		3.00
Indirect Attainment	0.00	0%	0.00
Course Outcome Attainment	3.00		
Course Outcome Attainment Percenta	100.00%		

Signature of Teacher

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Signature of HOD



KURIAKOSE ELIAS COLLEGE

MANNANAM

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CO-PO ATTAINMENT PROCEDURE FOR DIRECT AND INDIRECT ASSESSMENT

Course Details					
Course Code & Name	PY010202 - Health Psychology				
Teaching Staff	NEHA JIMMY				
Semester	2				
Number of Enrolled Students	12				
Programme	M. Sc. PSYCHOLOGY				
Syllabus	MSc Psychology-syl-revised- 2018				

Programme Details					
Programme Name	M. Sc. PSYCHOLOGY				
Head of the Department	FR JOHNSON JOSEPH				





Step 1:

Program Outcome (PO)

PO1: Ability to apply and acquire knowledge as evidenced by research activities to find solutions for complex problems by employing right tools

PO4: Possess high awareness of major issues and competent in initiating, developing, and pursuing a scientific research.

PO5: Achieve skills, understandings and personal attribute that makes graduates to gain employment and be successful in their chosen occupations, which benefits themselves, the workforce, the community and the economy.

PO6: Ability to portray good interpersonal skills with high ability to work collaboratively as part of a team undertaking a range of different team roles

PO7: The significance of conserving a clean environment for perpetuation and sustainable development

PO8: Ability to act with integrity and good ethics in their profession and their obligation to society

PO9: Ability to demonstrate leadership, to take action and to get others involved.

P10: Ability to present technical and scientific information and arguments clearly in written and oral presentation.

PO12: Ability to seek new knowledge, skills and manage relevant information from various sources.

Program Specific Outcome (PSO)

Program Educational Objectives(PEO)





Step 2: CO-PO Correlation

	Description	РО
CO 1	Familiarize the role of psychology in health and wellbeing.	PO1, PO7, PO12, PO4, PO8, PO5, PO9, PO6, P10
CO 2	Identify stress and coping strategies that prevent illness and promote good health.	PO6, P10, PO1, PO7, PO12, PO4, PO8, PO5, PO9
CO 3	Investigate the biopsychosocial correlates of illness and to take up the role of Health Psychologist.	PO5, PO9, PO6, P10, PO1, PO7, PO12, PO4, PO8
CO 4	Evaluate the importance of new research area of psychoneuroimmunology.	PO4, PO8, PO5, PO9, PO6, P10, PO1, PO7, PO12
CO 5	Assess mind-body relationship, human immune functioning, relevance of healthy life style, role of coping mechanisms and stress management.	PO1, PO7, PO12, PO4, PO8, PO5, PO9, PO6, P10

CO-PO Mapping



	P10	PO1	PO12	PO4	PO5	PO6	PO7	PO8	PO9
CO 1	2	2	2	2	2	3	3	1	3
CO 2	3	3	3	3	3	3	2	2	3
CO 3	2	2	2	1	1	3	1	3	2
CO 4	2	1	3	2	2	2	1	3	2
CO 5	2	2	2	3	2	3	3	2	1
AVERAGE	2.2	2	2.4	2.2	2	2.8	2	2.2	2.2

CO-PSO Mapping

Step 3: Weightage, Benchmark and Attainment

Weightage							
Direct Assessment	Internal	20	100				
Direct Assessment	External	80	100				
Indirect Assessment	Course Evalua	tion Survey	0				

Benchmark and Attainment							
Level	Benchmark	Strength	Attainment				
Level 1	20% Students got more than target	(20% of Student strength): 2.40	1				
Level 2	30% Students got more than target	(30% of Student strength): 3.60	2				
Level 3	40% Students got more than target	(40% of Student strength): 4.80	3				





Step 4

Course Attainment for each CO: Direct Assessment for Various Internal Examination

	СО	Total Mark	CTM* (50%)	No. of students above threshold	Attainment
	CO 1	6	3	11	3
Internal 1	CO 2	11	5.5	10	3
	CO 3	11	5.5	11	3
	CO 4	11	5.5	10	3
	CO 5	11	5.5	11	3

Course Attainment for CO: Direct Attainment External

	СО	Total Mark	CTM* (50%)	No of Students above threshold	Attainment
External	CO 1				
Examination	CO 2				
	CO 3	-	-	-	0.00
	CO 4				
	CO 5				

^{*}Competency Threshold Mark

Step 5:Course Attainment for each CO: Indirect Assessment (Course Exit Survey)

	CO	Average Attainment	Attainment
Indirect	CO 1	-	
Assessment	CO 2	-	
	CO 3	-	0.00
	CO 4	-	
	CO 5	-	





Step 6:

Direct Attainment

	CO 1	CO 2	CO 3	CO 4	CO 5	Average	Weightage	Attainment
Internal	3.00	3.00	3.00	3.00	3.00	3.00	20	0.60
External	3	3	3	3	3	3.00	80	2.40
Direct Attainment Total						3		

Step 7:

Course Outcome Attainment

	Attainment	Weightage	Final Attainment
Direct Attainment	3.00	100%	3.00
Indirect Attainment	0.00 0%		0.00
Course Outcome Attainment	3.00		
Course Outcome Attainment Percent	100.00%		

Signature of Teacher

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M.Sc. Statistics

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CO-PO ATTAINMENT PROCEDURE FOR DIRECT AND INDIRECT ASSESSMENT

Course Details				
Course Code & Name	ST030101 - PROBABILITY THEORY			
Teaching Staff	SINDHU E S			
Semester	1			
Number of Enrolled Students	15			
Programme	M. Sc. STATISTICS (APPLIED)			
Syllabus	MSc Statistics (Applied)-syl-revised-2018			

Programme Details			
Programme Name	M. Sc. STATISTICS (APPLIED)		
Head of the Department	Smitha S		





Step 1:

Program Outcome (PO)

PO12: Ability to seek new knowledge, skills and manage relevant information from various sources.

P10: Ability to present technical and scientific information and arguments clearly in written and oral presentation.

PO9: Ability to demonstrate leadership, to take action and to get others involved.

PO8: Ability to act with integrity and good ethics in their profession and their obligation tosociety

PO7: The significance of conserving a clean environment for perpetuation and sustainable development

PO6: Ability to portray good interpersonal skills with high ability to work collaboratively aspart of a team undertaking a range of different team roles

PO5: Achieve skills, understandings and personal attribute that makes graduates to gain employment and be successful in their chosen occupations, which benefits themselves, the workforce, the community and the economy.

PO4: Possess high awareness of major issues and competent in initiating, developing, and pursuing a scientific research.

PO1: Ability to apply and acquire knowledge as evidenced by research activities to find solutions for complex problems by employing right tools

Program Specific Outcome (PSO)

Program Educational Objectives (PEO)





Step 2: CO-PO Correlation

	Description	РО
CO1	understand the concepts of random variables, borel field, probability and measure	PO1, PO4, PO5, PO6, PO7, PO8, PO9, P10, PO12
CO2	Determine characteristic functions of r. v's and discuss its various properties	PO1, PO4, PO5, PO6, PO7, PO8, PO9, P10, PO12
СОЗ	Explain four modes of convergences, properties, counter examples and its inter relatioships	PO1, PO4, PO5, PO6, PO7, PO8, PO9, P10, PO12
CO4	Understand central limit theorem and its large sample approximations for common statistics	PO1, PO4, PO5, PO6, PO7, PO8, PO9, P10, PO12

CO-PO Mapping



	P10	PO1	PO12	PO4	PO5	PO6	PO7	PO8	PO9
CO1	3	3	3	3	3	2	3	2	3
CO2	3	3	3	3	3	3	2	2	3
CO3	3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	3	2	2	3	3
AVERAGE	3	3	3	3	3	2.5	2.5	2.5	3

CO-PSO Mapping

Step 3: Weightage, Benchmark and Attainment

Weightage					
Direct Assessment	Internal	20	100		
Direct Assessment	External	80	100		
Indirect Assessment	Course Evalua	tion Survey	0		

	Benchmark and Attainment					
Level	Benchmark	Strength	Attainment			
Level 1	20% Students got more than target	(20% of Student strength): 3.00	1			
Level 2	30% Students got more than target	(30% of Student strength): 4.50	2			
Level 3	40% Students got more than target	(40% of Student strength): 6.00	3			





Step 4

Course Attainment for each CO: Direct Assessment for Various Internal Examination

	СО	Total Mark	CTM* (50%)	No. of students above threshold	Attainment
	CO1	6	3	15	3
Model Exam	CO2	17	8.5	15	3
	CO3	16	8	12	3
	CO4	11	5.5	13	3

Course Attainment for CO: Direct Attainment External

	СО	Total Mark	CTM* (50%)	No of Students above threshold	Attainment
External	CO1				
Examination	CO2				2.00
	CO3	-	-	-	3.00
	CO4				

^{*}Competency Threshold Mark

Step 5:Course Attainment for each CO: Indirect Assessment (Course Exit Survey)

	co	Average Attainment	Attainment
Indirect	CO1	-	
Assessment	CO2	-	0.00
	CO3	-	0.00
	CO4	-	

Step 6:Direct Attainment

	CO1	CO2	CO3	CO4	Average	Weightage	Attainment
Internal	3.00	3.00	3.00	3.00	3.00	20	0.60
External	3	3	3	3	3.00	80	2.40
Direct Attainment Total						3	





Step 7:

Course Outcome Attainment

	Attainment	Weightage	Final Attainment
Direct Attainment	3.00	100%	3.00
Indirect Attainment	0.00	0%	0.00
Course Outcome Attainment	3.00		
Course Outcome Attainment Percenta	100.00%		



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Signature of Teacher

Signature of HOD





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CO-POATTAINMENT PROCEDURE FOR DIRECT AND INDIRECT ASSESSMENT

Course Details				
Course Code&Name	ST030202-Object Oriented Programming using Java			
Teaching Staff	Capt. Jobin Varghese P			
Semester	2			
Number of Enrolled Students	15			
Programme	M.Sc. STATISTICS (APPLIED)			
Syllabus	MSc Statistics(Applied)-syl-revised-2018			

Programme Details						
Programme Name M.Sc. STATISTICS(APPLIED)						
Head of the	Smitha S					
Department						





Step1:

Program Outcome (PO)

PO12: Ability to seek new knowledge, skills and manage relevant information fromvarious sources.

P10: Ability to present technical and scientific information and arguments clearly in written and oral presentation.

PO9: Ability to demonstrate leadership, to take action and to get others involved.

PO8: Ability to act with integrity and good ethics in their profession and their obligation to society

PO7:The significance of conserving a clean environment for perpetuation and sustainable development

PO6:Ability to portray good interpersonal skills with high ability to work collaboratively as part of a team undertaking a range of different team roles

PO5: Achieve skills, understandings and personal attribute that makes graduates to gain employment and be successful in their chosen occupations, which benefits themselves, the workforce, the community and the economy.

PO4:Possess high awareness of major issues and competent in initiating, developing, and pursuing a scientific research.

PO1:Ability to apply and acquire knowledge as evidenced by research activities to find solutions for complex problems by employing right tools

Program Specific Outcome (PSO)

Program Educational Objectives (PEO)





Step2:

CO-PO Correlation

	Description	РО
CO1	Explain Object Oriented Principles.	PO4,PO8, PO5,PO9, PO6, P10,PO1,PO7, PO12
CO2	Understand the importance of Polymorphism and Inheritance.	PO1,PO7, PO12,PO4, PO8,PO5, PO9, PO6,P10
СОЗ	Apply the concept of packages using examples.	PO6, P10,PO1,PO7, PO12,PO4, PO8,PO5, PO9
CO4	Compute the concepts of Multithreading with a real world application.	PO5,PO9, PO6, P10, PO1, PO7, PO12,PO4, PO8
CO5	Know the concept of Java Database Connectivity.	PO4,PO8, PO5,PO9, PO6, P10,PO1,PO7, PO12





CO-PO Mapping

	P10	PO1	PO12	PO4	PO5	PO6	PO7	PO8	PO9
CO1	2	3	3	3	3	3	2	3	1
CO2	1	3	3	3	1	1	0	0	0
CO3	0	2	1	2	1	0	0	0	0
CO4	0	3	0	2	1	0	0	3	0
CO5	0	3	0	1	0	0	0	0	0
AVERAGE	0.6	2.8	1.4	2.2	1.2	0.8	0.4	1.2	0.2

CO-PSO Mapping

Step3:

Weightage, Benchmark and Attainment

Weightage							
Direct Assessment	Internal	20	100				
Direct Assessment	External	80	100				
Indirect Assessment	Course Evalua	tion Survey	0				

Benchmark and Attainment								
Level	Benchmark	Strength	Attainment					
Level1	20% Students got more than target	(20% of Student strength): 3.00	1					
Level2	30% Students got more than target	(30% of Student strength): 4.50	2					
Level3	40% Students got more than target	(40% of Student strength): 6.00	3					



Step4

Course Attainment for each CO: Direct Assessment for Various Internal Examination

Course Attainment for CO: Direct Attainment External

	СО	Total Mark	CTM*(50%)	No of Students above threshold	Attainment
External	CO1				
Examination	CO2				
	CO3	-	-	-	3.00
	CO4				
	CO5				

^{*}Competency Threshold Mark

Step5:

Course Attainment for each CO: Indirect Assessment (CourseExitSurvey)

	СО	Average Attainment	Attainment
Indirect	CO1	-	
Assessment	CO2	-	
	CO3	T.	0.00
	CO4	-	
	CO5	-	

Step6:

Direct Attainment

	CO1	CO2	CO3	CO4	CO5	Average	Weightage	Attainment
Internal	-	1	1	1	-	0.00	20	0.00
External	3	3	3	3	3	3.00	80	2.40
Direct Attainment Total							2.4	





Step7:

Course Outcome Attainment

	Attainment	Weightage	Final Attainment
Direct Attainment	2.40	100%	2.40
Indirect Attainment	0.00	0%	0.00
Course Outcome Attainment	2.40		
Course Outcome Attainment Percent	80.00%		





Signature of HOD

Signature of Teacher