



**CHRIST COLLEGE (AUTONOMOUS)  
IRINJALAKUDA.Kerala-680125  
Reaccredited by NAAC with 'A++' grade**



**OBE CARD**

<b>Department:</b>	PHYSICS
<b>Program:</b>	PG - MSC - M.Sc. Physics (Aided)
<b>Batch:</b>	MSC PHY 2022

<b>Name:</b>	AKHILA RAPHAEL
<b>Register No:</b>	CCAWMPH001
<b>Admission No:</b>	11457
<b>Entry Year:</b>	2022
<b>Exit Year:</b>	2024

This report provides the evidence of OBE implementation in CHRIST COLLEGE (AUTONOMOUS), and the measurement of both direct and indirect assessment of students during the academic year 2022-2024

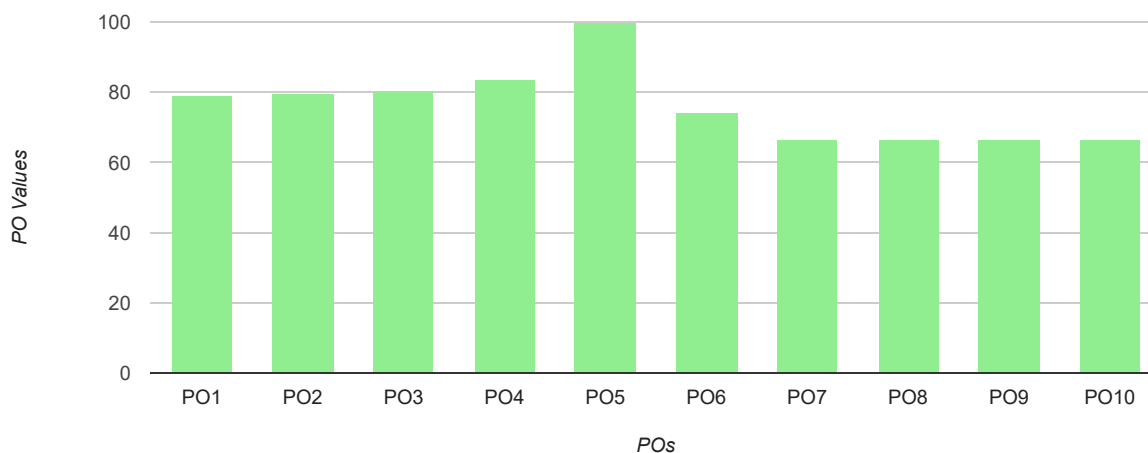
**Program: PG - MSc - M.Sc. Physics (Aided)**

**Program Outcome LIST**

PO CODE	PO DESCRIPTION
PO1	A thorough knowledge in the chosen discipline
PO2	An aptitude for research
PO3	An independent and individual way of thinking and communicating ideas
PO4	The ability to access and utilize knowledge and information for personal and general good
PO5	The discretion to engage in academic work with academic integrity
PO6	The know how to function in multidisciplinary domains
PO7	A global perspective, facilitating appropriate interaction with people from various cultural, linguistic and religious backgrounds
PO8	Decision-making and reasoning ability to find solutions to ethical problems
PO9	A spirit of selfless service making him willing to serve the needy and the marginalized
PO10	A heightened awareness of environmental issues and necessity of solving them

**Program Outcome Attainment**

PROGRAM OUTCOME PERCENTAGE OF AKHILA RAPHAEL										
PO CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
	79.12	79.73	80.43	83.56	100.00	74.27	66.67	66.67	66.67	66.67

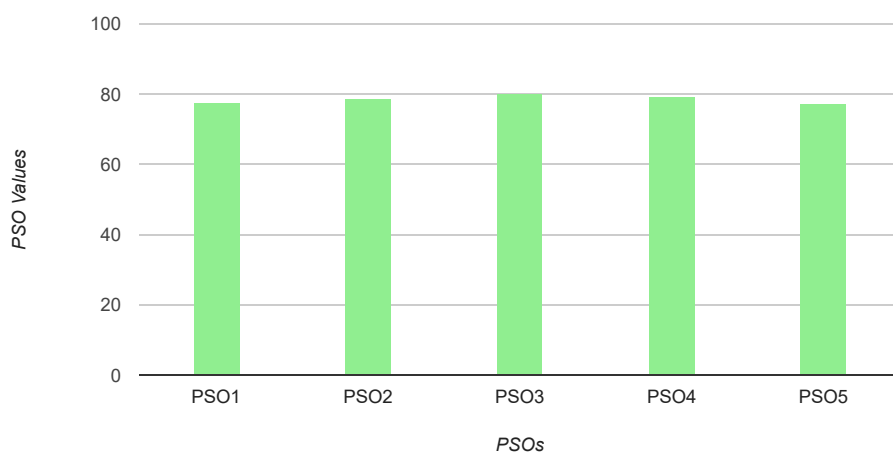


**Program Specific Outcome LIST**

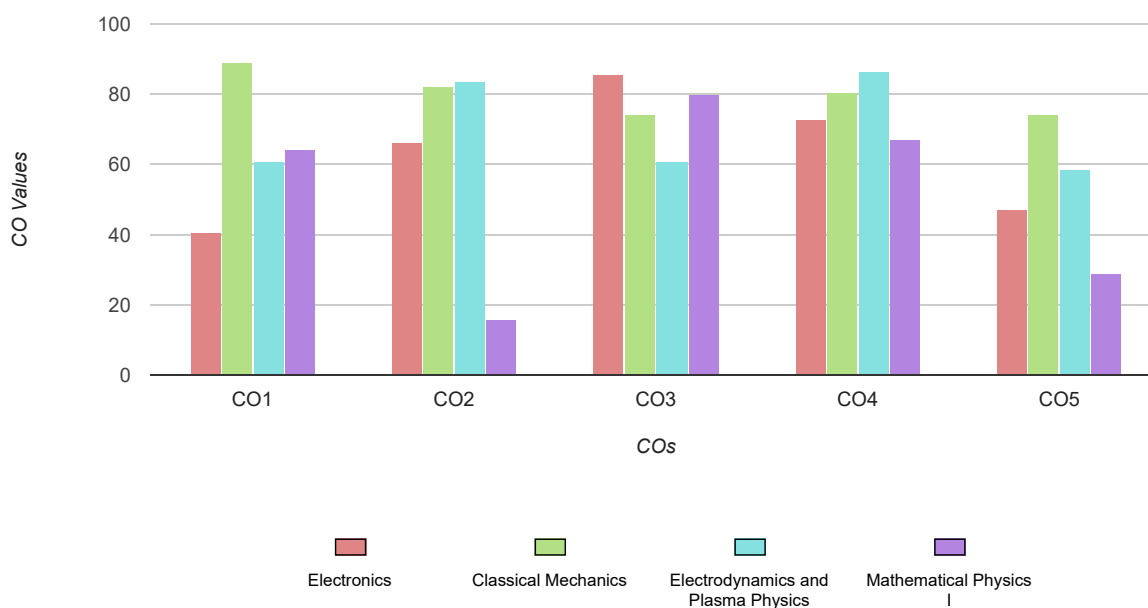
PSO CODE	PSO DESCRIPTION
PSO1	Acquire theoretical, mathematical, and computational knowledge in Physics.
PSO2	Apply theoretical knowledge of principles and concepts of Physics to practical problems.
PSO3	Apply conceptual understanding and critical thinking of the Physics to general real-world situations.
PSO4	Gain research experience within some specific field of Physics through original scientific project works and develop skills to communicate Physics knowledge
PSO5	Develop an understanding of the use of Physics for the benefit of the society.

**Program Specific Outcome Attainment**

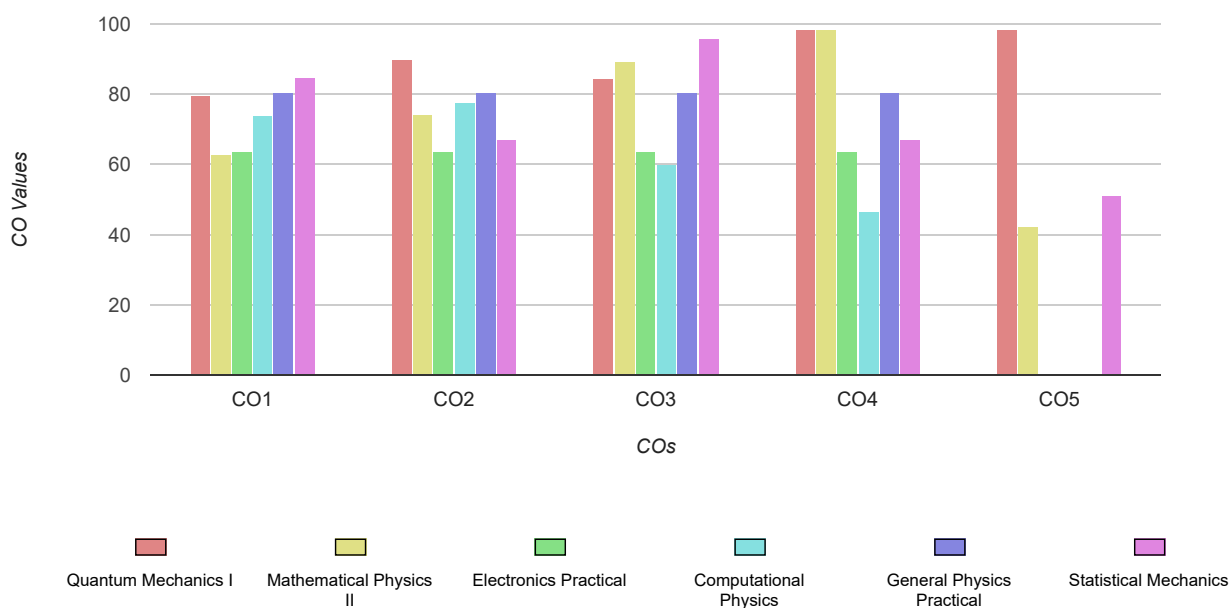
PROGRAM SPECIFIC OUTCOME PERCENTAGE OF AKHILA RAPHAEL					
PSO CODE	PSO1	PSO2	PSO3	PSO4	PSO5
	77.68	79.00	80.09	79.13	77.06



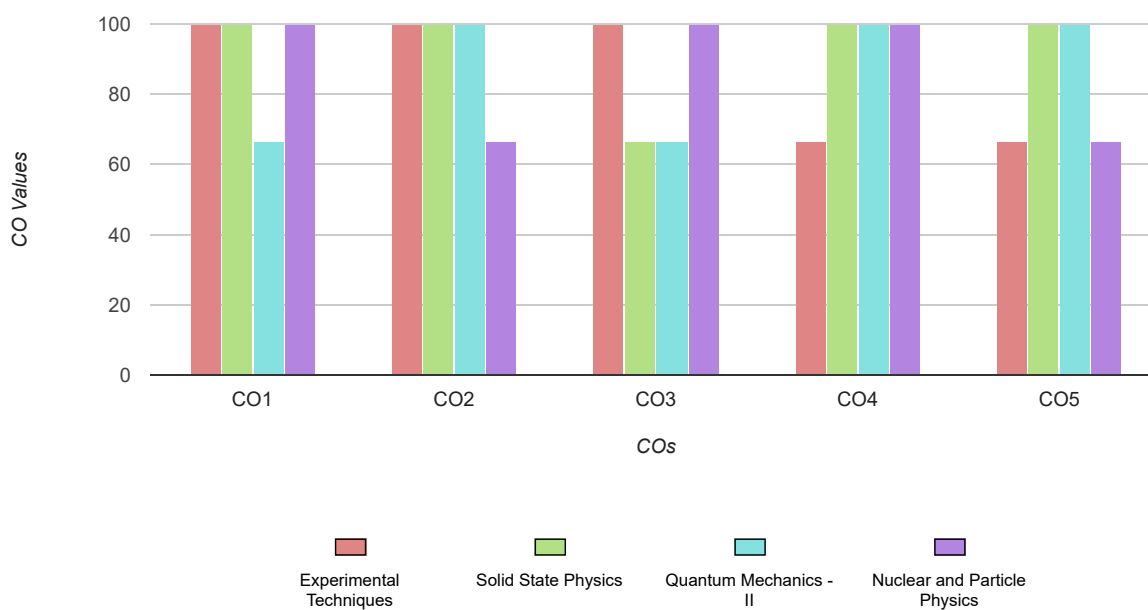
SEMESTER 1 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Electronics	CC19PPHY1C04	40.85	66.45	85.92	72.85	47.25
Classical Mechanics	CC19PPHY1C01	89.21	82.27	74.27	80.67	74.27
Electrodynamics and Plasma Physics	CC19PPHY1C03	60.85	83.54	61.12	86.72	58.56
Mathematical Physics I	CC19PPHY1C02	64.36	16.00	80.00	67.20	28.80



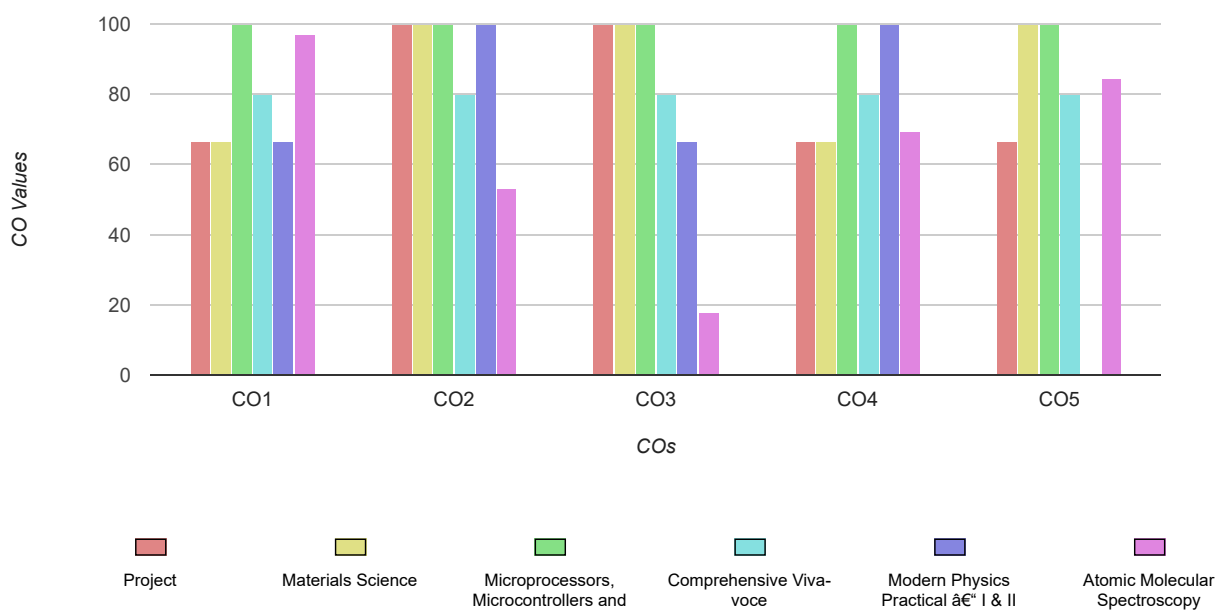
SEMESTER 2 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Quantum Mechanics I	CC19PPHY2C05	79.58	89.67	84.69	98.40	98.40
Mathematical Physics II	CC19PPHY2C06	63.20	74.40	89.51	98.40	42.40
Electronics Practical	CC19PPHY1L02 & CC19PPHY2L04	63.68	63.68	63.68	63.68	
Computational Physics	CC19PPHY2C08	73.82	77.60	60.00	46.67	
General Physics Practical	CC19PPHY1L01 & CC19PPHY2L03	80.48	80.48	80.48	80.48	
Statistical Mechanics	CC19PPHY2C07	84.98	67.20	96.00	67.20	51.20



SEMESTER 3 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Experimental Techniques	CC19PPHY3E05	100.00	100.00	100.00	66.67	66.67
Solid State Physics	CC19PPHY3C11	100.00	100.00	66.67	100.00	100.00
Quantum Mechanics - II	CC19PPHY3C09	66.67	100.00	66.67	100.00	100.00
Nuclear and Particle Physics	CC19PPHY3C10	100.00	66.67	100.00	100.00	66.67



SEMESTER 4 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Project	CC19PPHY4P01	66.67	100.00	100.00	66.67	66.67
Materials Science	CC19PPHY4E11	66.67	100.00	100.00	66.67	100.00
Microprocessors, Microcontrollers and Applications	CC19PPHY4E20	100.00	100.00	100.00	100.00	100.00
Comprehensive Viva-voce	CC19PPHY4V01	80.00	80.00	80.00	80.00	80.00
Modern Physics Practical " I & II	CC19PPHY3L05 & CC19PPHY4L06	66.67	100.00	66.67	100.00	
Atomic Molecular Spectroscopy	CC19PPHY4C12	97.33	53.20	18.00	69.33	84.69





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**OBE CARD**

<b>Department:</b>	PHYSICS
<b>Program:</b>	PG - MSC - M.Sc. Physics (Aided)
<b>Batch:</b>	MSC PHY 2022

<b>Name:</b>	ALEENA A S
<b>Register No:</b>	CCAWMPH002
<b>Admission No:</b>	11458
<b>Entry Year:</b>	2022
<b>Exit Year:</b>	2024

This report provides the evidence of OBE implementation in CHRIST COLLEGE (AUTONOMOUS), and the measurement of both direct and indirect assessment of students during the academic year 2022-2024



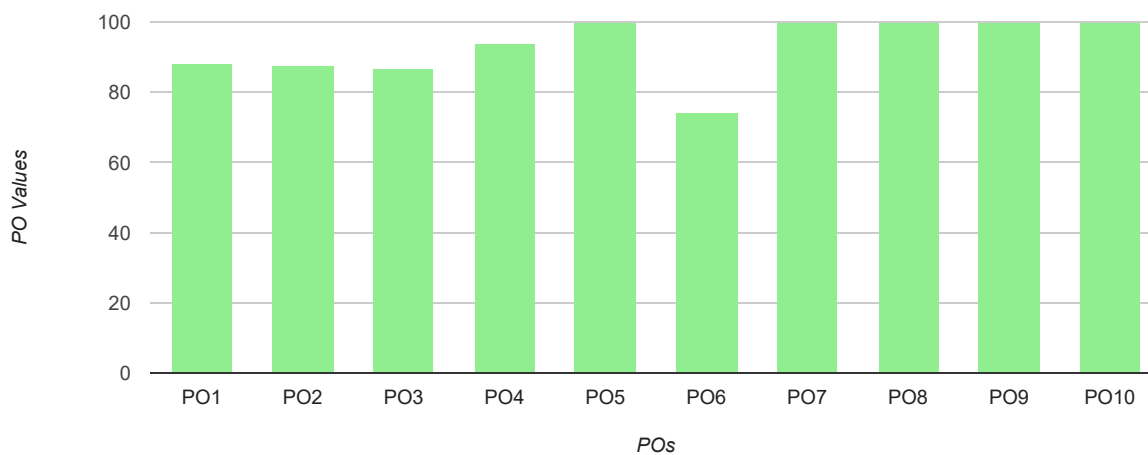
**Program: PG - MSc - M.Sc. Physics (Aided)**

**Program Outcome LIST**

PO CODE	PO DESCRIPTION
PO1	A thorough knowledge in the chosen discipline
PO2	An aptitude for research
PO3	An independent and individual way of thinking and communicating ideas
PO4	The ability to access and utilize knowledge and information for personal and general good
PO5	The discretion to engage in academic work with academic integrity
PO6	The know how to function in multidisciplinary domains
PO7	A global perspective, facilitating appropriate interaction with people from various cultural, linguistic and religious backgrounds
PO8	Decision-making and reasoning ability to find solutions to ethical problems
PO9	A spirit of selfless service making him willing to serve the needy and the marginalized
PO10	A heightened awareness of environmental issues and necessity of solving them

**Program Outcome Attainment**

PROGRAM OUTCOME PERCENTAGE OF ALEENAA S										
PO CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
	88.29	87.72	87.03	93.79	100.00	74.40	100.00	100.00	100.00	100.00

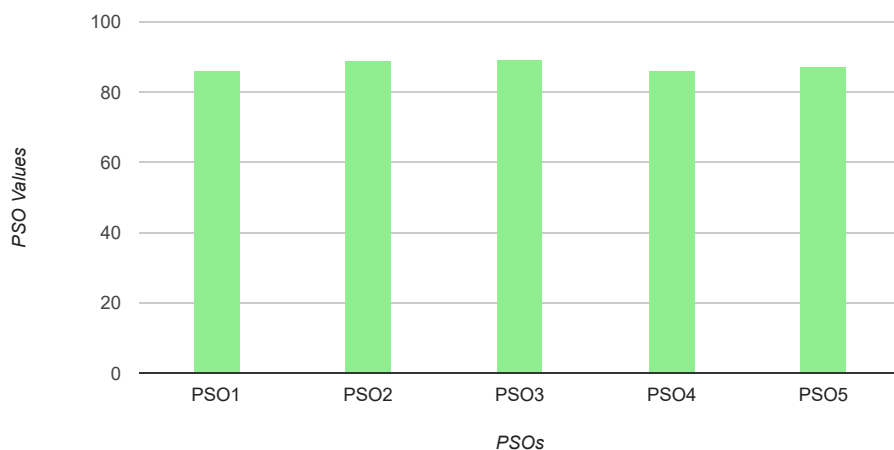


**Program Specific Outcome LIST**

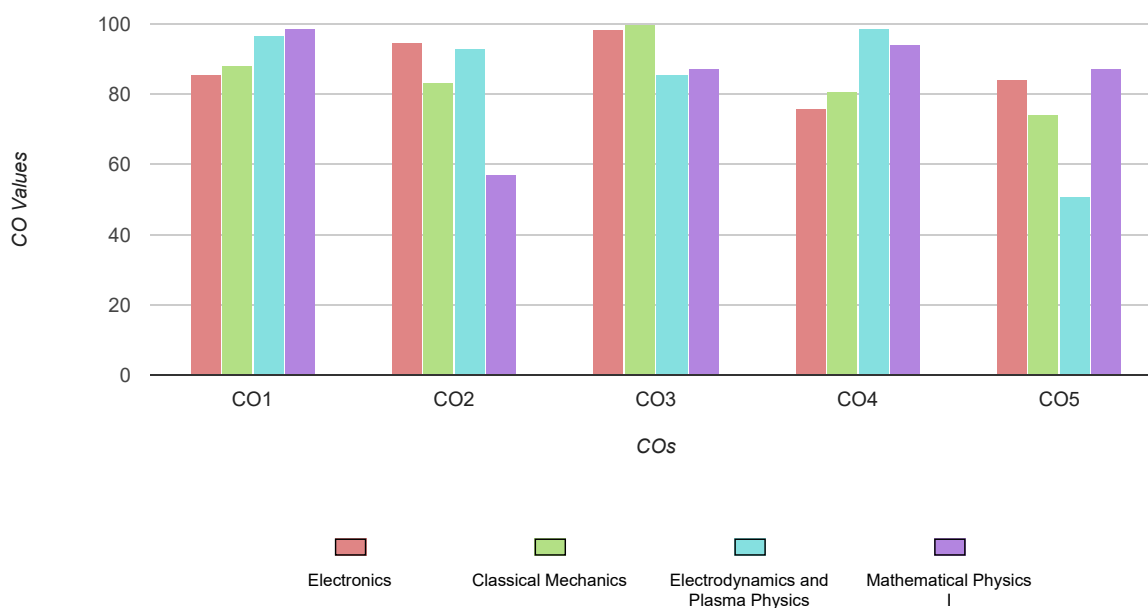
PSO CODE	PSO DESCRIPTION
PSO1	Acquire theoretical, mathematical, and computational knowledge in Physics.
PSO2	Apply theoretical knowledge of principles and concepts of Physics to practical problems.
PSO3	Apply conceptual understanding and critical thinking of the Physics to general real-world situations.
PSO4	Gain research experience within some specific field of Physics through original scientific project works and develop skills to communicate Physics knowledge
PSO5	Develop an understanding of the use of Physics for the benefit of the society.

**Program Specific Outcome Attainment**

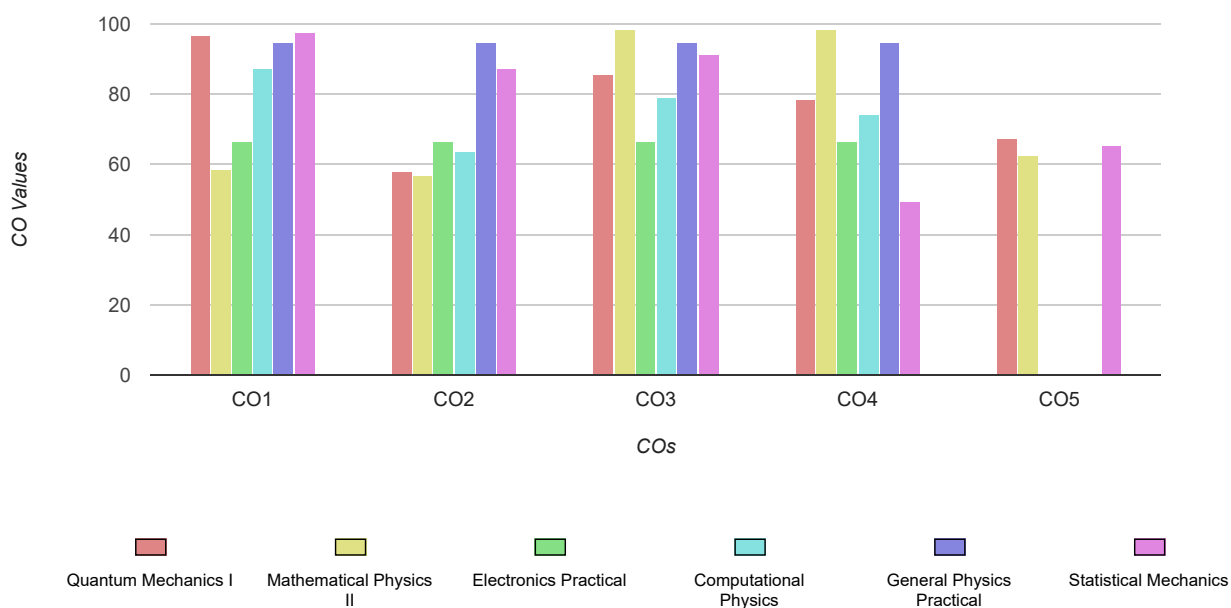
PROGRAM SPECIFIC OUTCOME PERCENTAGE OF ALEENA A S					
PSO CODE	PSO1	PSO2	PSO3	PSO4	PSO5
	86.09	89.07	89.29	86.34	87.55



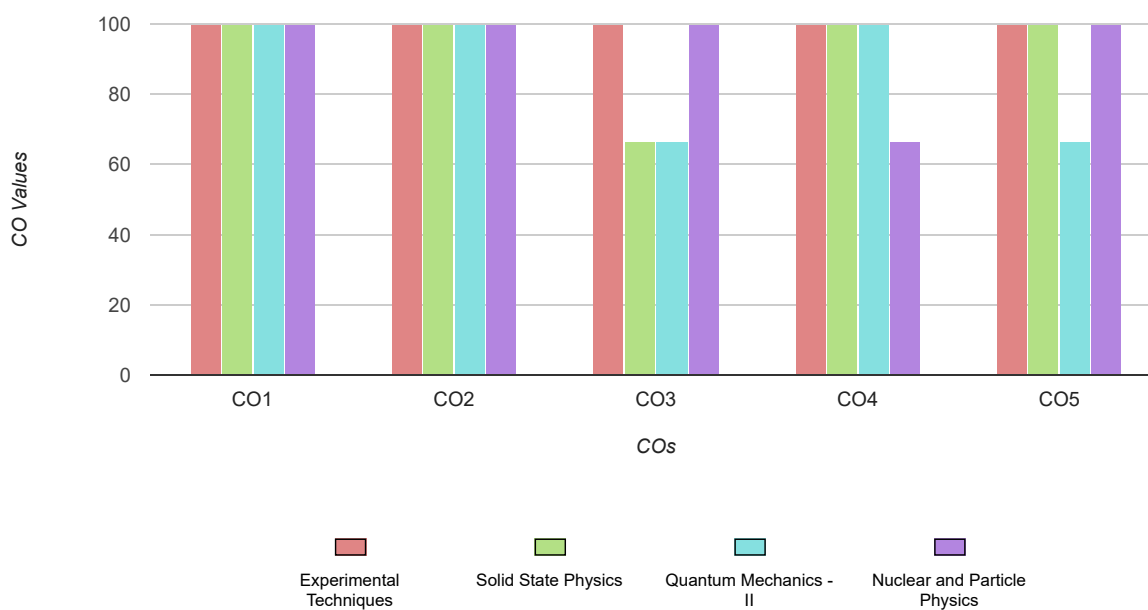
SEMESTER 1 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Electronics	CC19PPHY1C04	85.57	94.71	98.37	75.97	83.97
Classical Mechanics	CC19PPHY1C01	88.36	83.36	100.00	80.80	74.40
Electrodynamics and Plasma Physics	CC19PPHY1C03	96.59	92.90	85.92	98.72	50.72
Mathematical Physics I	CC19PPHY1C02	98.72	57.33	87.20	94.31	87.20



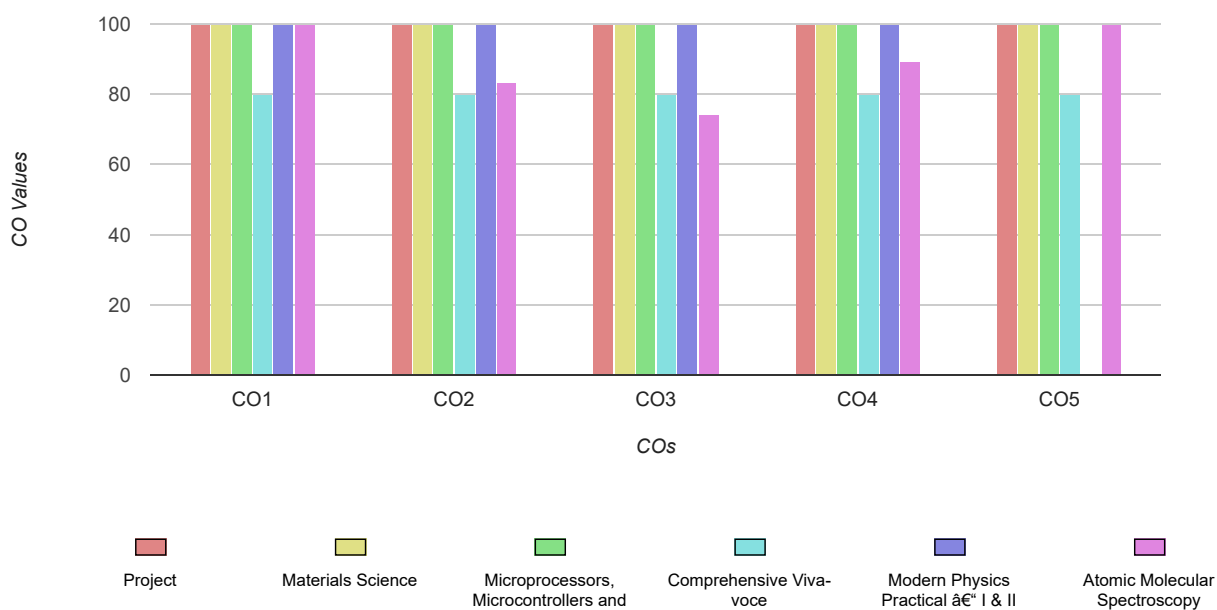
SEMESTER 2 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Quantum Mechanics I	CC19PPHY2C05	96.69	58.19	85.89	78.27	67.60
Mathematical Physics II	CC19PPHY2C06	58.40	56.80	98.40	98.40	62.40
Electronics Practical	CC19PPHY1L02 & CC19PPHY2L04	66.67	66.67	66.67	66.67	
Computational Physics	CC19PPHY2C08	87.20	64.00	79.20	74.31	
General Physics Practical	CC19PPHY1L01 & CC19PPHY2L03	94.72	94.72	94.72	94.72	
Statistical Mechanics	CC19PPHY2C07	97.60	87.42	91.60	49.60	65.60



SEMESTER 3 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Experimental Techniques	CC19PPHY3E05	100.00	100.00	100.00	100.00	100.00
Solid State Physics	CC19PPHY3C11	100.00	100.00	66.67	100.00	100.00
Quantum Mechanics - II	CC19PPHY3C09	100.00	100.00	66.67	100.00	66.67
Nuclear and Particle Physics	CC19PPHY3C10	100.00	100.00	100.00	66.67	100.00



SEMESTER 4 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Project	CC19PPHY4P01	100.00	100.00	100.00	100.00	100.00
Materials Science	CC19PPHY4E11	100.00	100.00	100.00	100.00	100.00
Microprocessors, Microcontrollers and Applications	CC19PPHY4E20	100.00	100.00	100.00	100.00	100.00
Comprehensive Viva-voce	CC19PPHY4V01	80.00	80.00	80.00	80.00	80.00
Modern Physics Practical " I & II	CC19PPHY3L05 & CC19PPHY4L06	100.00	100.00	100.00	100.00	
Atomic Molecular Spectroscopy	CC19PPHY4C12	100.00	83.33	74.40	89.33	100.00





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<b>Department:</b>	PHYSICS
<b>Program:</b>	PG - MSC - M.Sc. Physics (Aided)
<b>Batch:</b>	MSC PHY 2022

<b>Name:</b>	ALEENA K J
<b>Register No:</b>	CCAWMPH003
<b>Admission No:</b>	11459
<b>Entry Year:</b>	2022
<b>Exit Year:</b>	2024

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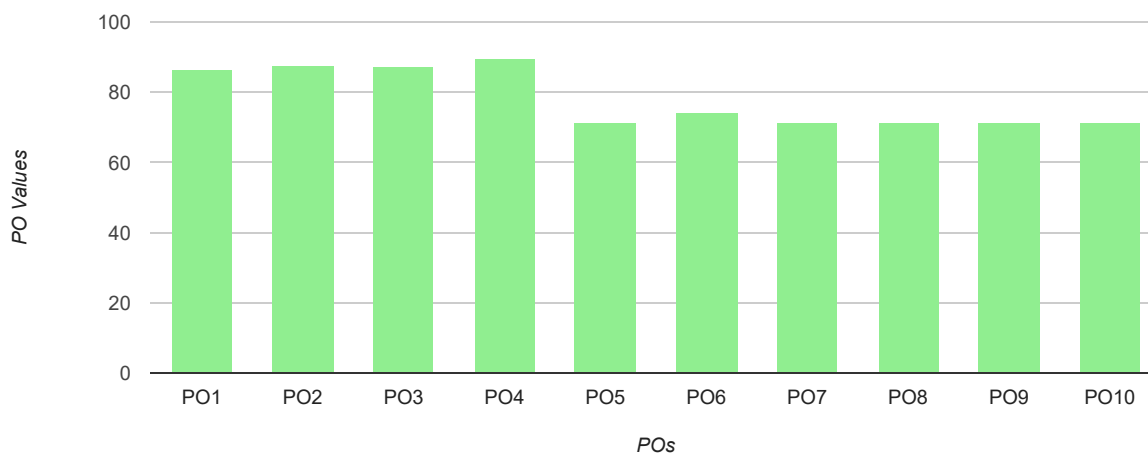
**Program: PG - MSc - M.Sc. Physics (Aided)**

**Program Outcome LIST**

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**Program Outcome Attainment**

PROGRAM OUTCOME PERCENTAGE OF ALEENA K J										
PO CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
	86.42	87.99	87.59	89.74	71.42	74.40	71.42	71.42	71.42	71.42



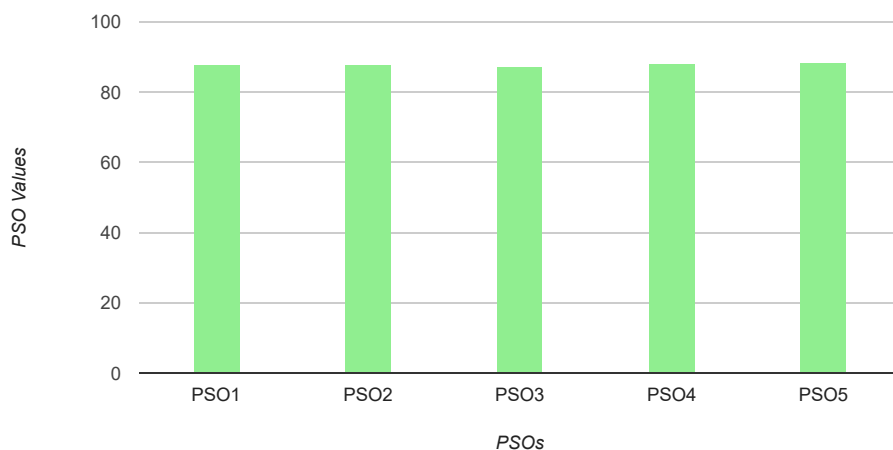


**Program Specific Outcome LIST**

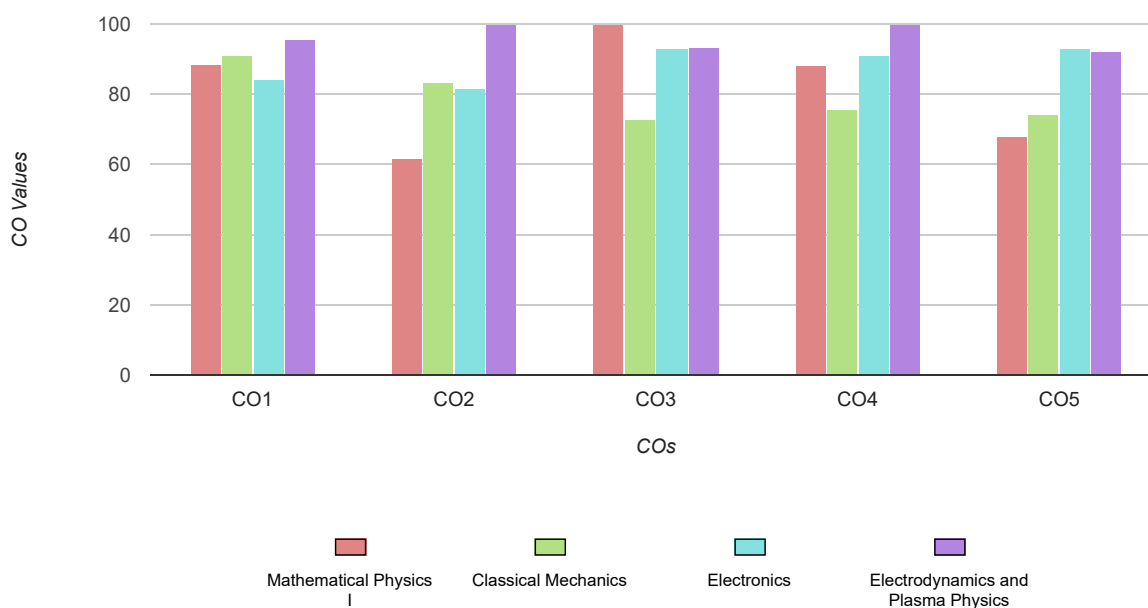
PSO CODE	PSO DESCRIPTION
PSO1	Acquire theoretical, mathematical, and computational knowledge in Physics.
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**Program Specific Outcome Attainment**

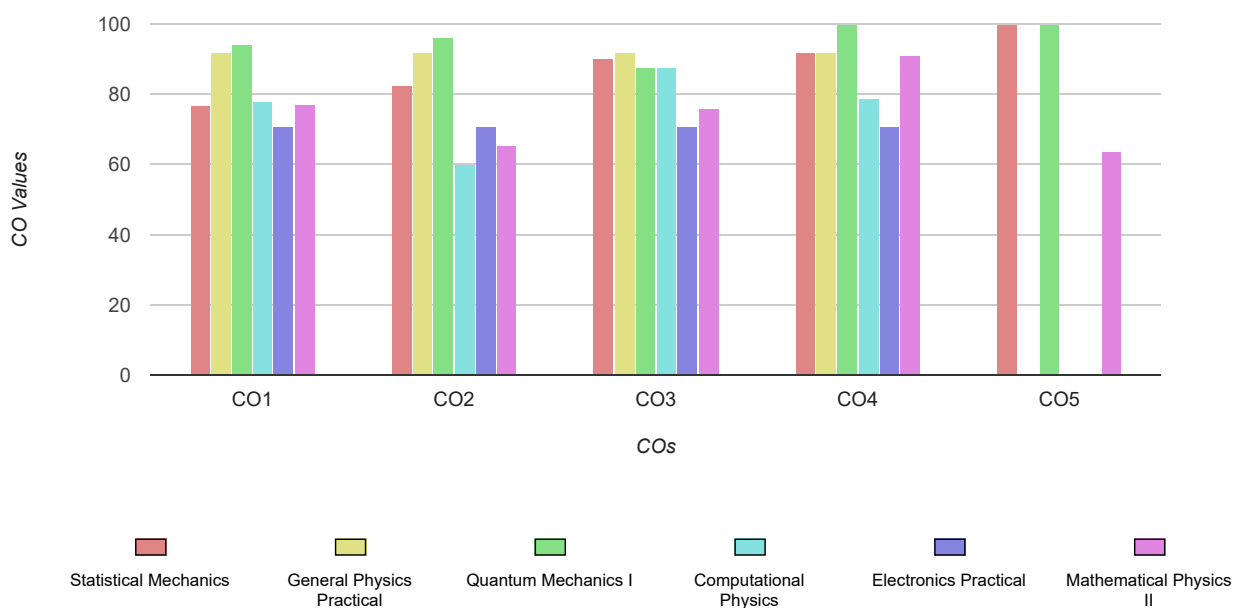
PROGRAM SPECIFIC OUTCOME PERCENTAGE OF ALEENA K J					
PSO CODE	PSO1	PSO2	PSO3	PSO4	PSO5
	87.61	87.96	87.52	88.02	88.63



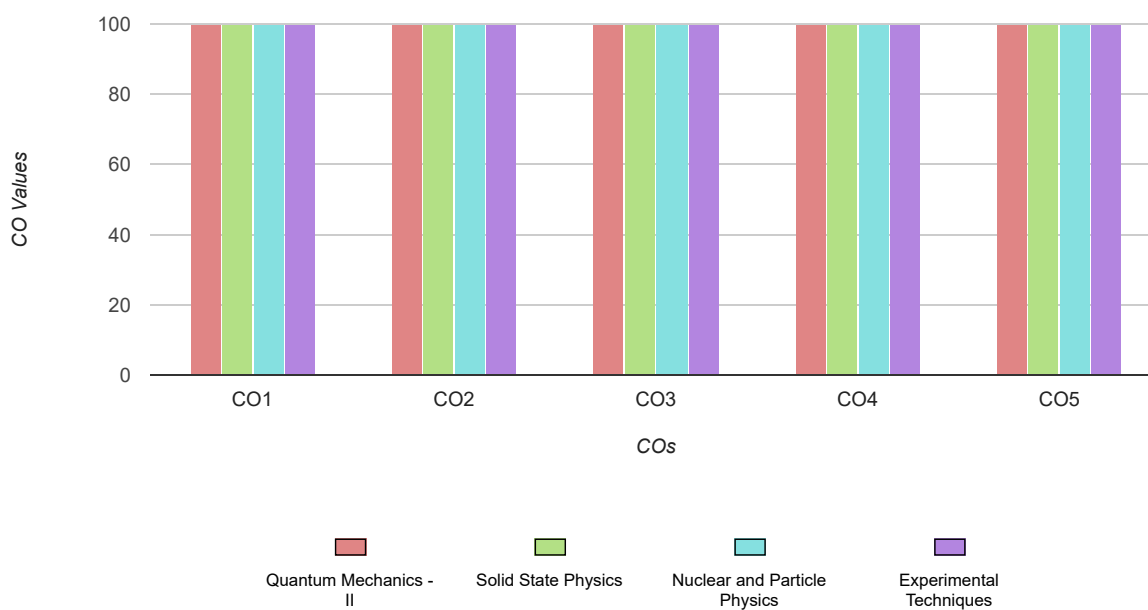
SEMESTER 1 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Mathematical Physics I	CC19PPHY1C02	88.48	61.60	100.00	88.27	68.00
Classical Mechanics	CC19PPHY1C01	91.20	83.49	72.85	75.41	74.40
Electronics	CC19PPHY1C04	84.22	81.66	93.18	91.05	93.18
Electrodynamics and Plasma Physics	CC19PPHY1C03	95.57	99.84	93.44	99.84	92.16



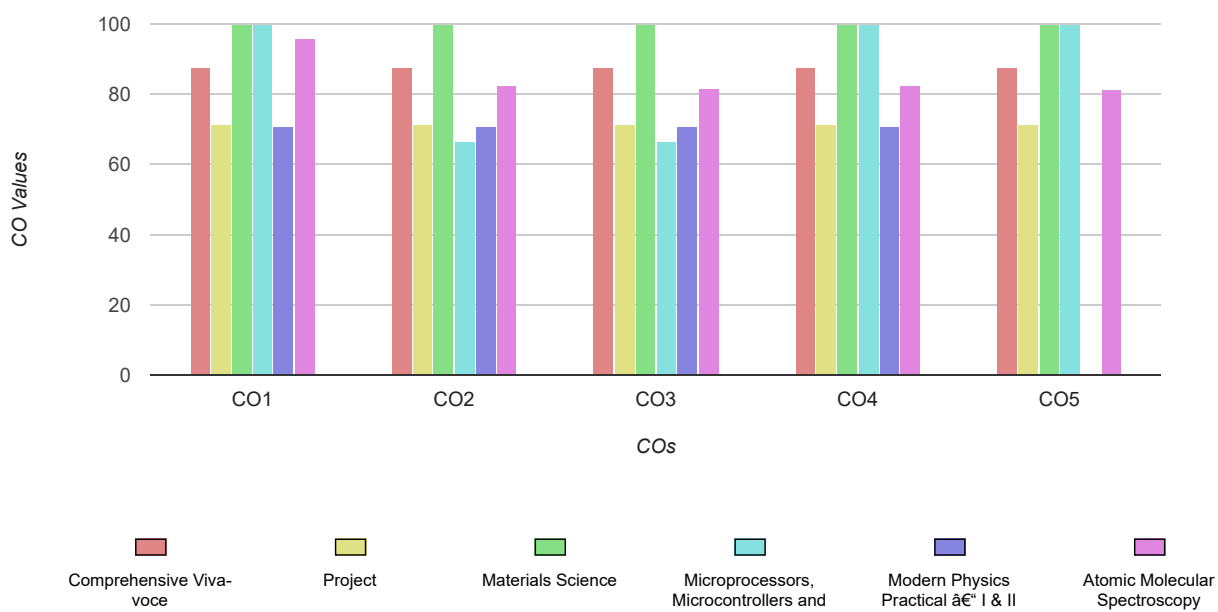
SEMESTER 2 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Statistical Mechanics	CC19PPHY2C07	76.89	82.55	90.40	92.00	100.00
General Physics Practical	CC19PPHY1L01 & CC19PPHY2L03	92.00	92.00	92.00	92.00	
Quantum Mechanics I	CC19PPHY2C05	94.35	96.24	88.00	100.00	100.00
Computational Physics	CC19PPHY2C08	78.18	60.00	88.00	78.67	
Electronics Practical	CC19PPHY1L02 & CC19PPHY2L04	70.66	70.66	70.66	70.66	
Mathematical Physics II	CC19PPHY2C06	77.14	65.33	76.00	91.11	64.00



SEMESTER 3 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Quantum Mechanics - II	CC19PPHY3C09	100.00	100.00	100.00	100.00	100.00
Solid State Physics	CC19PPHY3C11	100.00	100.00	100.00	100.00	100.00
Nuclear and Particle Physics	CC19PPHY3C10	100.00	100.00	100.00	100.00	100.00
Experimental Techniques	CC19PPHY3E05	100.00	100.00	100.00	100.00	100.00



SEMESTER 4 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Comprehensive Viva-voce	CC19PPHY4V01	88.00	88.00	88.00	88.00	88.00
Project	CC19PPHY4P01	71.42	71.42	71.42	71.42	71.42
Materials Science	CC19PPHY4E11	100.00	100.00	100.00	100.00	100.00
Microprocessors, Microcontrollers and Applications	CC19PPHY4E20	100.00	66.67	66.67	100.00	100.00
Modern Physics Practical " I & II	CC19PPHY3L05 & CC19PPHY4L06	70.66	70.66	70.66	70.66	
Atomic Molecular Spectroscopy	CC19PPHY4C12	96.00	82.40	81.60	82.67	81.20





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**OBE CARD**

<b>Department:</b>	PHYSICS
<b>Program:</b>	PG - MSC - M.Sc. Physics (Aided)
<b>Batch:</b>	MSC PHY 2022

<b>Name:</b>	ASHLY JOSEPH
<b>Register No:</b>	CCAWMPH004
<b>Admission No:</b>	11460
<b>Entry Year:</b>	2022
<b>Exit Year:</b>	2024

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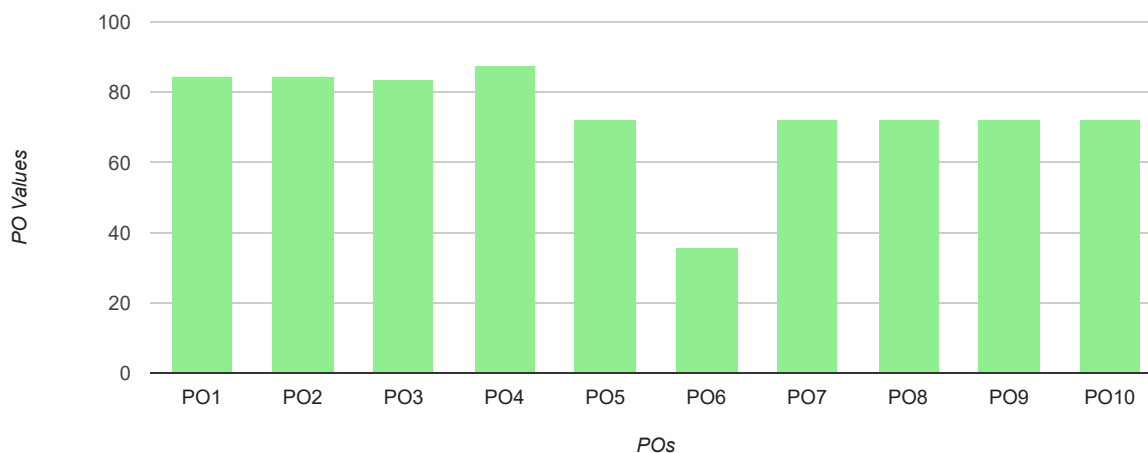
**Program: PG - MSc - M.Sc. Physics (Aided)**

**Program Outcome LIST**

PO CODE	PO DESCRIPTION
PO1	A thorough knowledge in the chosen discipline
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PO10	A heightened awareness of environmental issues and necessity of solving them

**Program Outcome Attainment**

PROGRAM OUTCOME PERCENTAGE OF ASHLY JOSEPH										
PO CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
	84.48	84.55	83.68	87.75	72.32	35.87	72.32	72.32	72.32	72.32

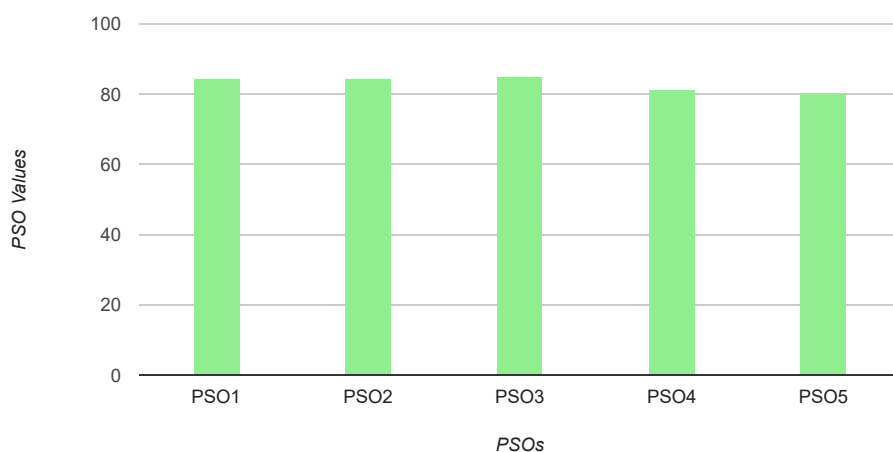


**Program Specific Outcome LIST**

PSO CODE	PSO DESCRIPTION
PSO1	Acquire theoretical, mathematical, and computational knowledge in Physics.
PSO2	Apply theoretical knowledge of principles and concepts of Physics to practical problems.
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PSO4	Gain research experience within some specific field of Physics through original scientific project works and develop skills to communicate Physics knowledge
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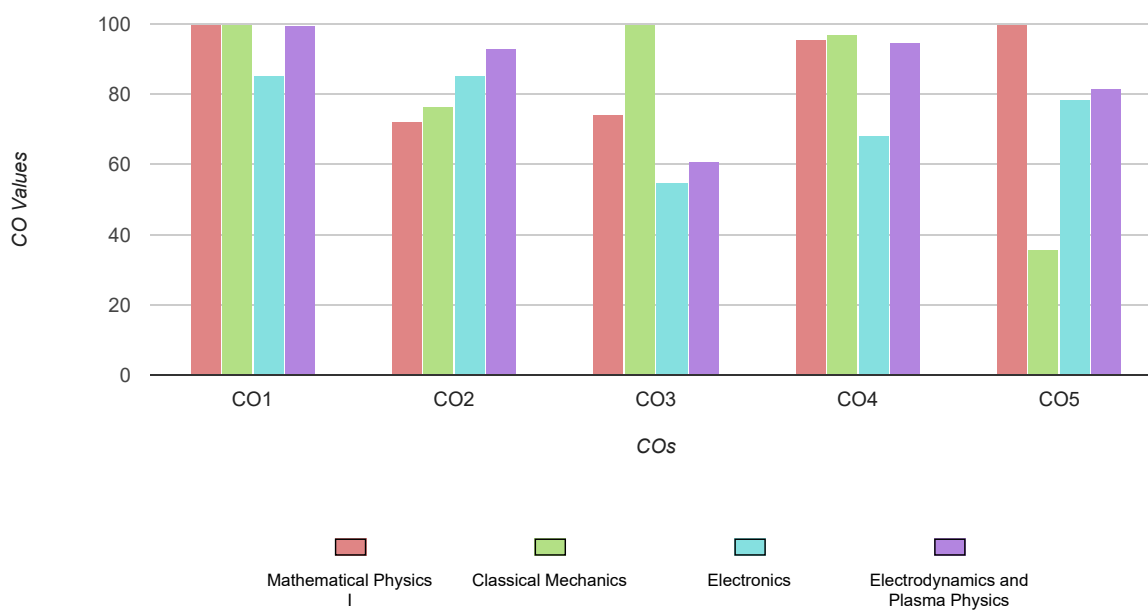
**Program Specific Outcome Attainment**

PROGRAM SPECIFIC OUTCOME PERCENTAGE OF ASHLY JOSEPH					
PSO CODE	PSO1	PSO2	PSO3	PSO4	PSO5
	84.69	84.47	85.12	81.28	80.28

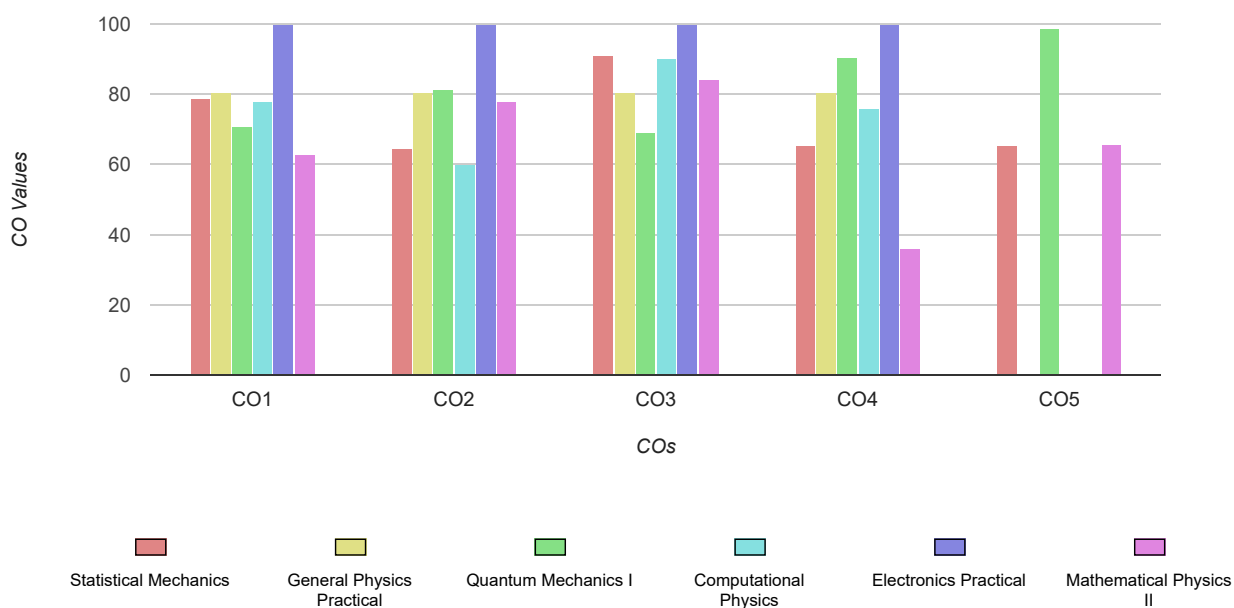




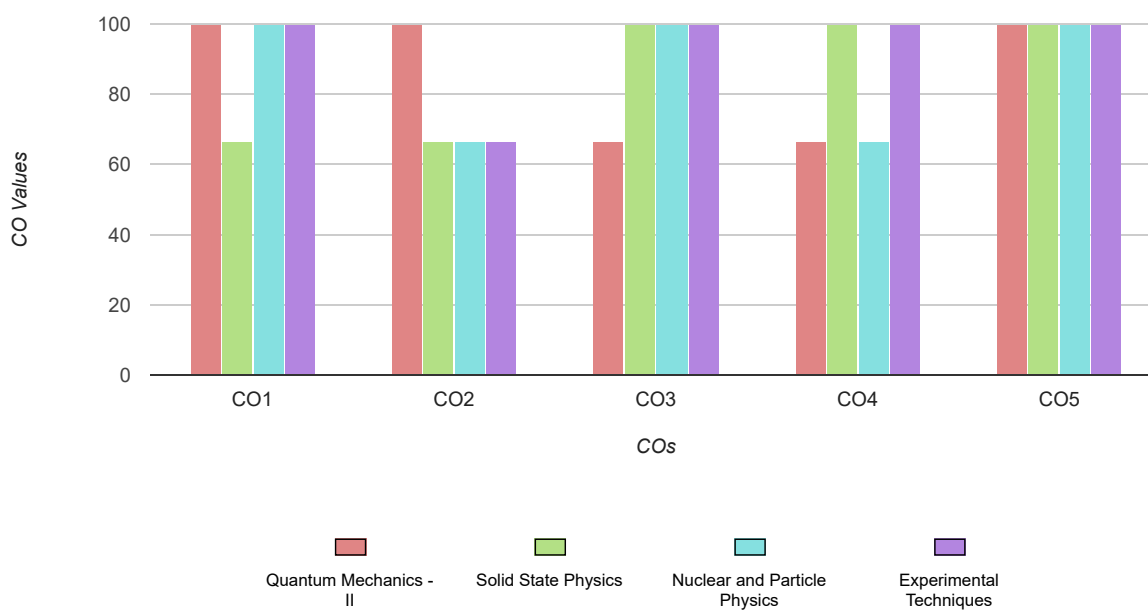
SEMESTER 1 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Mathematical Physics I	CC19PPHY1C02	100.00	72.27	74.40	95.43	100.00
Classical Mechanics	CC19PPHY1C01	99.87	76.24	99.87	97.31	35.87
Electronics	CC19PPHY1C04	85.44	85.44	54.72	68.37	78.33
Electrodynamics and Plasma Physics	CC19PPHY1C03	99.52	93.12	61.12	94.72	81.60



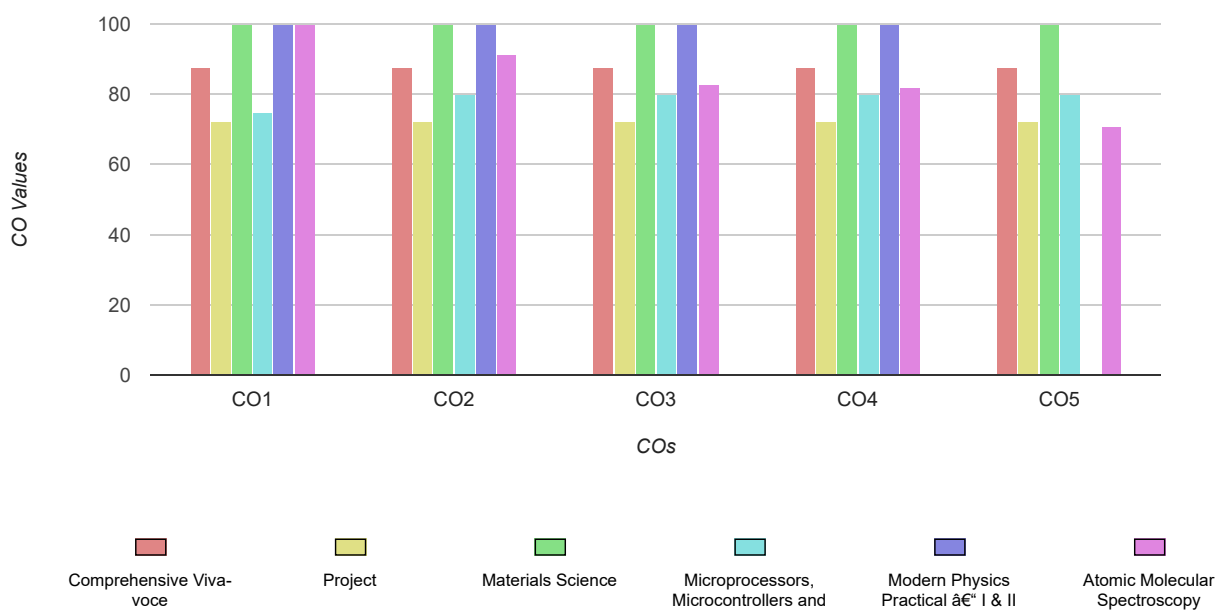
SEMESTER 2 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Statistical Mechanics	CC19PPHY2C07	78.93	64.46	91.20	65.60	65.60
General Physics Practical	CC19PPHY1L01 & CC19PPHY2L03	80.48	80.48	80.48	80.48	
Quantum Mechanics I	CC19PPHY2C05	70.56	81.35	69.09	90.80	98.80
Computational Physics	CC19PPHY2C08	78.18	60.00	90.15	76.00	
Electronics Practical	CC19PPHY1L02 & CC19PPHY2L04	100.00	100.00	100.00	100.00	
Mathematical Physics II	CC19PPHY2C06	63.20	78.18	84.00	36.00	65.71



SEMESTER 3 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Quantum Mechanics - II	CC19PPHY3C09	100.00	100.00	66.67	66.67	100.00
Solid State Physics	CC19PPHY3C11	66.67	66.67	100.00	100.00	100.00
Nuclear and Particle Physics	CC19PPHY3C10	100.00	66.67	100.00	66.67	100.00
Experimental Techniques	CC19PPHY3E05	100.00	66.67	100.00	100.00	100.00



SEMESTER 4 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Comprehensive Viva-voce	CC19PPHY4V01	88.00	88.00	88.00	88.00	88.00
Project	CC19PPHY4P01	72.32	72.32	72.32	72.32	72.32
Materials Science	CC19PPHY4E11	100.00	100.00	100.00	100.00	100.00
Microprocessors, Microcontrollers and Applications	CC19PPHY4E20	74.67	80.00	80.00	80.00	80.00
Modern Physics Practical " I & II	CC19PPHY3L05 & CC19PPHY4L06	100.00	100.00	100.00	100.00	
Atomic Molecular Spectroscopy	CC19PPHY4C12	100.00	91.33	82.80	82.22	70.53





**CHRIST COLLEGE (AUTONOMOUS)  
IRINJALAKUDA.Kerala-680125  
Reaccredited by NAAC with 'A++' grade**



**OBE CARD**

<b>Department:</b>	PHYSICS
<b>Program:</b>	PG - MSC - M.Sc. Physics (Aided)
<b>Batch:</b>	MSC PHY 2022

<b>Name:</b>	E AATHIRA
<b>Register No:</b>	CCAWMPH006
<b>Admission No:</b>	11462
<b>Entry Year:</b>	2022
<b>Exit Year:</b>	2024

This report provides the evidence of OBE implementation in CHRIST COLLEGE (AUTONOMOUS), and the measurement of both direct and indirect assessment of students during the academic year 2022-2024

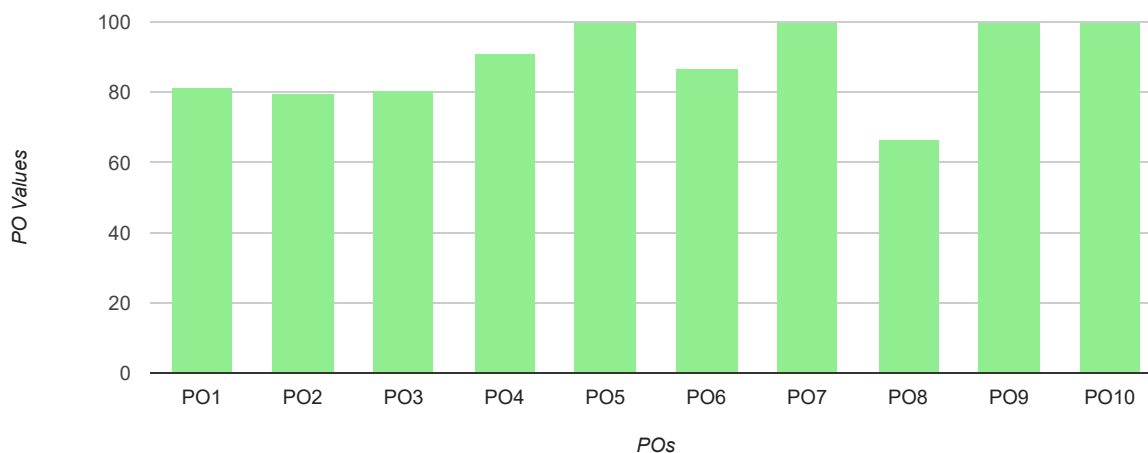
**Program: PG - MSc - M.Sc. Physics (Aided)**

**Program Outcome LIST**

PO CODE	PO DESCRIPTION
PO1	A thorough knowledge in the chosen discipline
PO2	An aptitude for research
PO3	An independent and individual way of thinking and communicating ideas
PO4	The ability to access and utilize knowledge and information for personal and general good
PO5	The discretion to engage in academic work with academic integrity
PO6	The know how to function in multidisciplinary domains
PO7	A global perspective, facilitating appropriate interaction with people from various cultural, linguistic and religious backgrounds
PO8	Decision-making and reasoning ability to find solutions to ethical problems
PO9	A spirit of selfless service making him willing to serve the needy and the marginalized
PO10	A heightened awareness of environmental issues and necessity of solving them

**Program Outcome Attainment**

PROGRAM OUTCOME PERCENTAGE OF E AATHIRA										
PO CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
	81.12	79.79	80.52	90.98	100.00	87.07	100.00	66.67	100.00	100.00

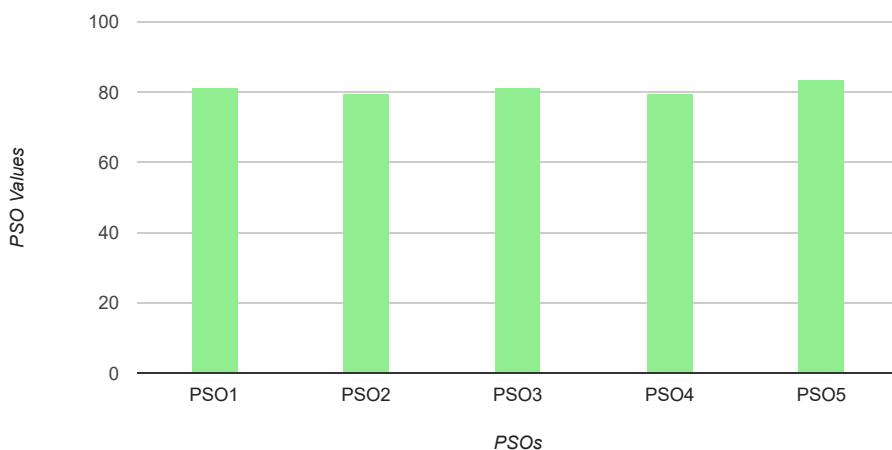


**Program Specific Outcome LIST**

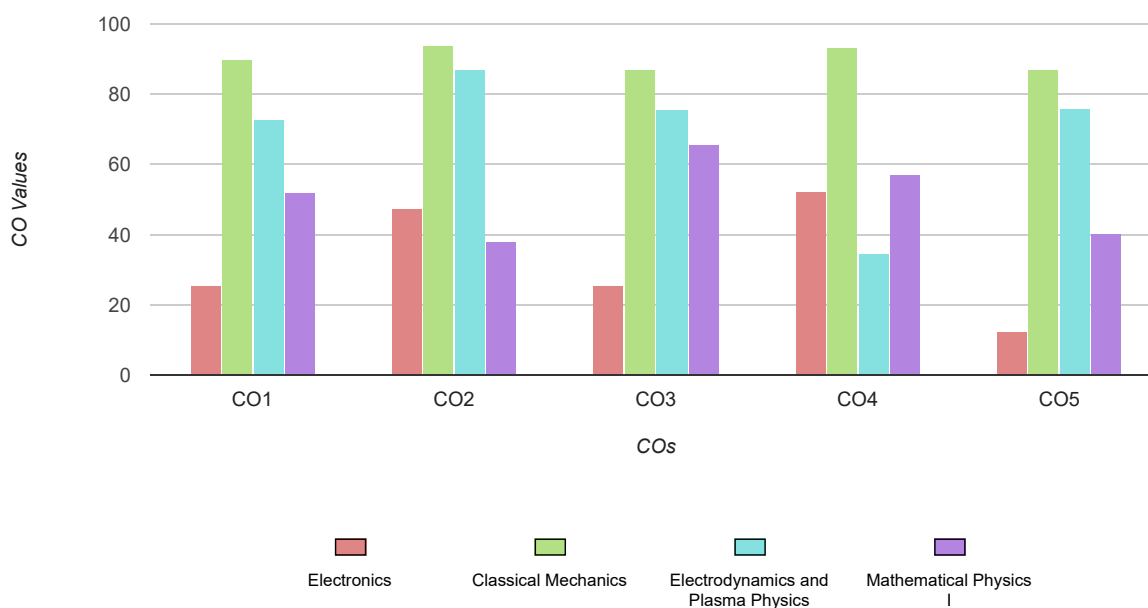
PSO CODE	PSO DESCRIPTION
PSO1	Acquire theoretical, mathematical, and computational knowledge in Physics.
PSO2	Apply theoretical knowledge of principles and concepts of Physics to practical problems.
PSO3	Apply conceptual understanding and critical thinking of the Physics to general real-world situations.
PSO4	Gain research experience within some specific field of Physics through original scientific project works and develop skills to communicate Physics knowledge
PSO5	Develop an understanding of the use of Physics for the benefit of the society.

**Program Specific Outcome Attainment**

PROGRAM SPECIFIC OUTCOME PERCENTAGE OF E AATHIRA					
PSO CODE	PSO1	PSO2	PSO3	PSO4	PSO5
	81.42	79.57	81.14	79.86	83.54

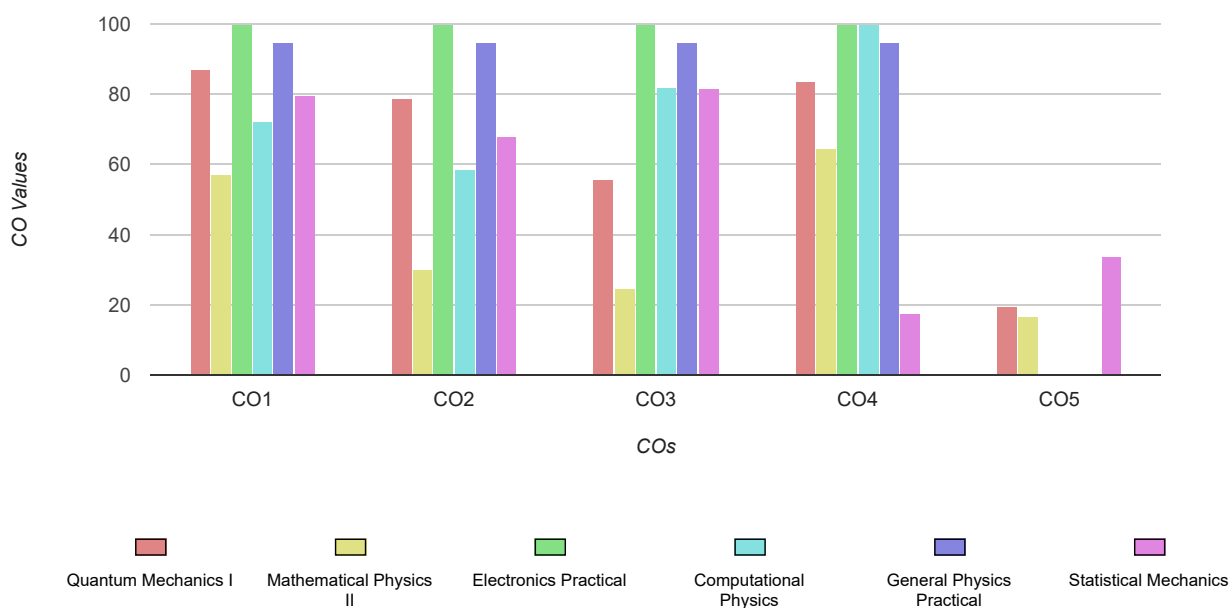


SEMESTER 1 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Electronics	CC19PPHY1C04	25.44	47.38	25.44	52.46	12.64
Classical Mechanics	CC19PPHY1C01	89.92	93.96	87.07	93.47	87.07
Electrodynamics and Plasma Physics	CC19PPHY1C03	72.96	86.92	75.80	34.56	75.89
Mathematical Physics I	CC19PPHY1C02	51.84	38.19	65.92	57.39	40.32

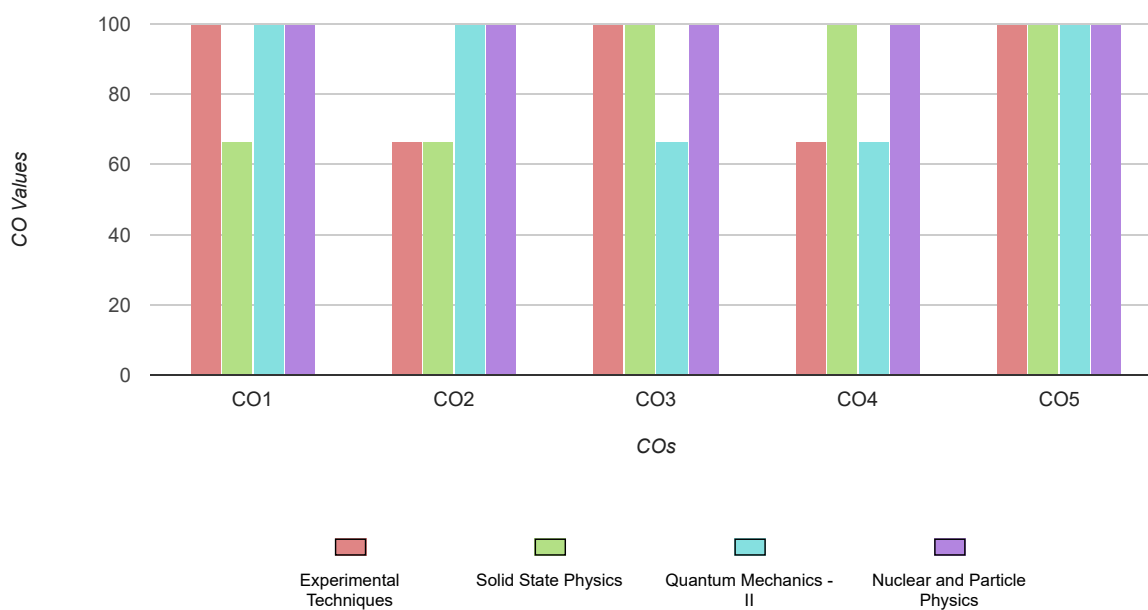




SEMESTER 2 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Quantum Mechanics I	CC19PPHY2C05	86.99	78.89	55.60	83.60	19.60
Mathematical Physics II	CC19PPHY2C06	57.42	30.13	24.80	64.80	16.80
Electronics Practical	CC19PPHY1L02 & CC19PPHY2L04	100.00	100.00	100.00	100.00	
Computational Physics	CC19PPHY2C08	72.36	58.40	82.00	100.00	
General Physics Practical	CC19PPHY1L01 & CC19PPHY2L03	94.72	94.72	94.72	94.72	
Statistical Mechanics	CC19PPHY2C07	79.82	67.89	81.60	17.60	33.60



SEMESTER 3 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Experimental Techniques	CC19PPHY3E05	100.00	66.67	100.00	66.67	100.00
Solid State Physics	CC19PPHY3C11	66.67	66.67	100.00	100.00	100.00
Quantum Mechanics - II	CC19PPHY3C09	100.00	100.00	66.67	66.67	100.00
Nuclear and Particle Physics	CC19PPHY3C10	100.00	100.00	100.00	100.00	100.00







**CHRIST COLLEGE (AUTONOMOUS)  
IRINJALAKUDA.Kerala-680125  
Reaccredited by NAAC with 'A++' grade**



**OBE CARD**

<b>Department:</b>	PHYSICS
<b>Program:</b>	PG - MSC - M.Sc. Physics (Aided)
<b>Batch:</b>	MSC PHY 2022

<b>Name:</b>	GOKUL DAS
<b>Register No:</b>	CCAWMPH007
<b>Admission No:</b>	11463
<b>Entry Year:</b>	2022
<b>Exit Year:</b>	2024

This report provides the evidence of OBE implementation in CHRIST COLLEGE (AUTONOMOUS), and the measurement of both direct and indirect assessment of students during the academic year 2022-2024

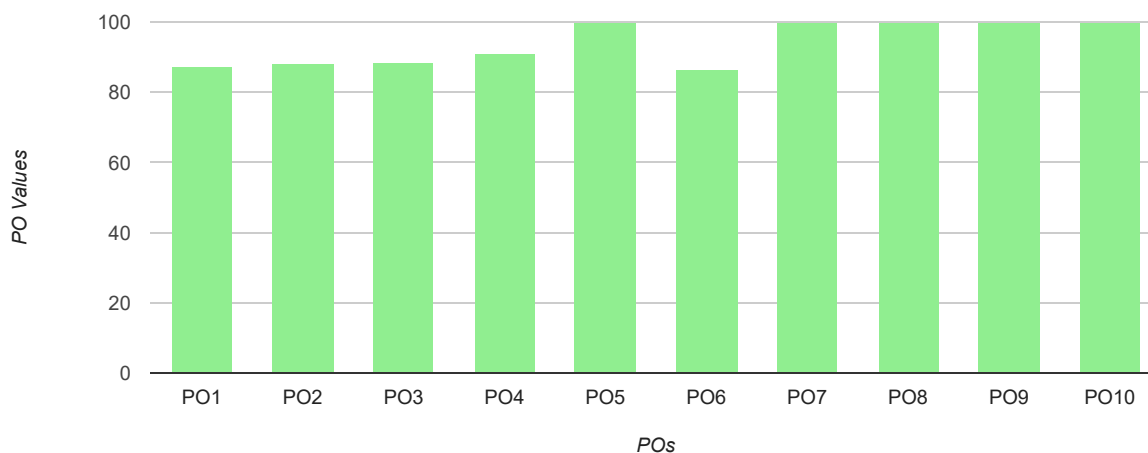
**Program: PG - MSc - M.Sc. Physics (Aided)**

**Program Outcome LIST**

PO CODE	PO DESCRIPTION
PO1	A thorough knowledge in the chosen discipline
PO2	An aptitude for research
PO3	An independent and individual way of thinking and communicating ideas
PO4	The ability to access and utilize knowledge and information for personal and general good
PO5	The discretion to engage in academic work with academic integrity
PO6	The know how to function in multidisciplinary domains
PO7	A global perspective, facilitating appropriate interaction with people from various cultural, linguistic and religious backgrounds
PO8	Decision-making and reasoning ability to find solutions to ethical problems
PO9	A spirit of selfless service making him willing to serve the needy and the marginalized
PO10	A heightened awareness of environmental issues and necessity of solving them

**Program Outcome Attainment**

PROGRAM OUTCOME PERCENTAGE OF GOKUL DAS										
PO CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
	87.52	88.33	88.68	91.13	100.00	86.72	100.00	100.00	100.00	100.00

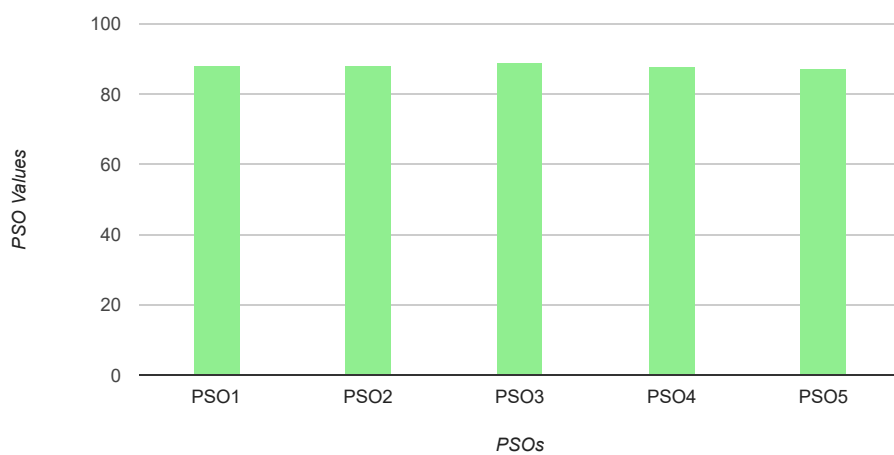


### Program Specific Outcome LIST

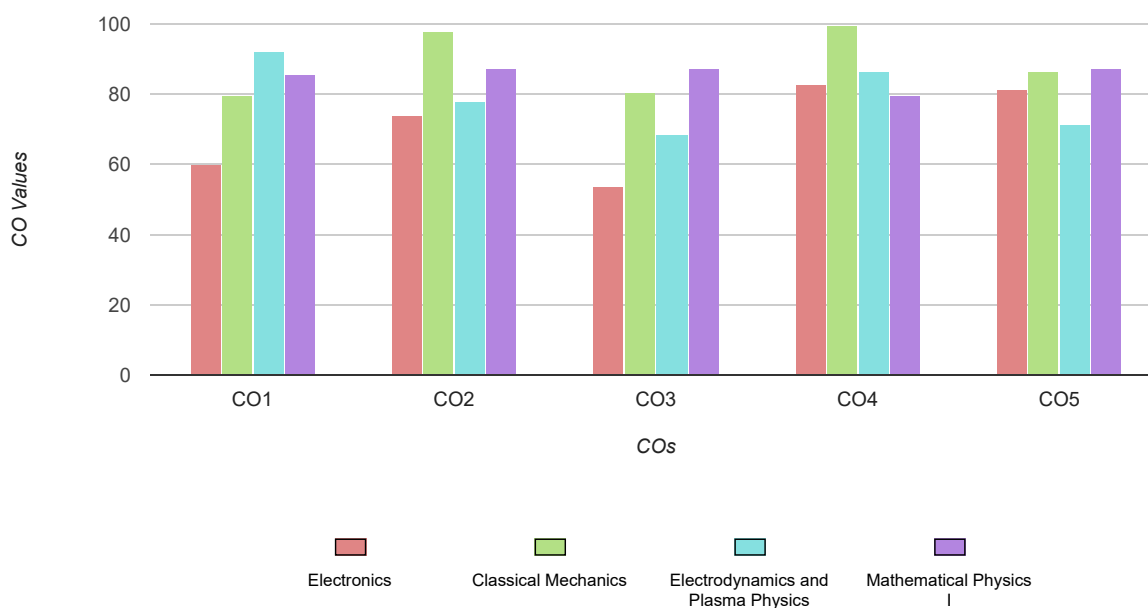
PSO CODE	PSO DESCRIPTION
PSO1	Acquire theoretical, mathematical, and computational knowledge in Physics.
PSO2	Apply theoretical knowledge of principles and concepts of Physics to practical problems.
PSO3	Apply conceptual understanding and critical thinking of the Physics to general real-world situations.
PSO4	Gain research experience within some specific field of Physics through original scientific project works and develop skills to communicate Physics knowledge
PSO5	Develop an understanding of the use of Physics for the benefit of the society.

### Program Specific Outcome Attainment

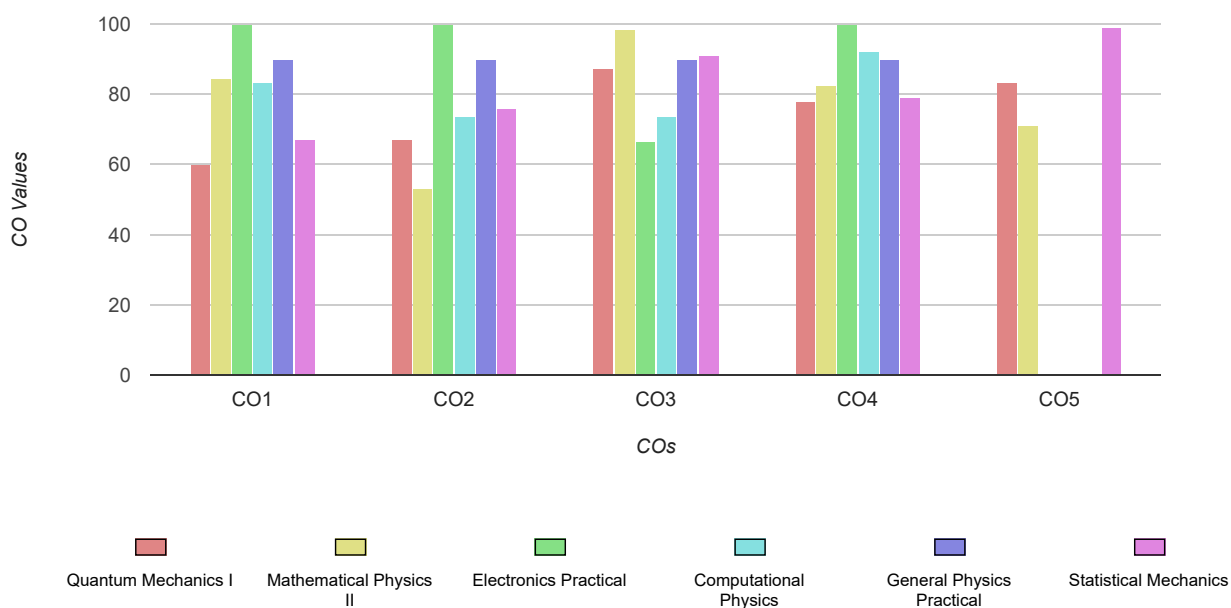
PROGRAM SPECIFIC OUTCOME PERCENTAGE OF GOKUL DAS					
PSO CODE	PSO1	PSO2	PSO3	PSO4	PSO5
	88.30	88.26	89.10	87.93	87.26



SEMESTER 1 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Electronics	CC19PPHY1C04	60.22	74.04	53.82	82.98	81.29
Classical Mechanics	CC19PPHY1C01	79.74	97.92	80.32	99.52	86.72
Electrodynamics and Plasma Physics	CC19PPHY1C03	92.41	78.19	68.80	86.72	71.36
Mathematical Physics I	CC19PPHY1C02	85.92	87.20	87.20	79.73	87.20

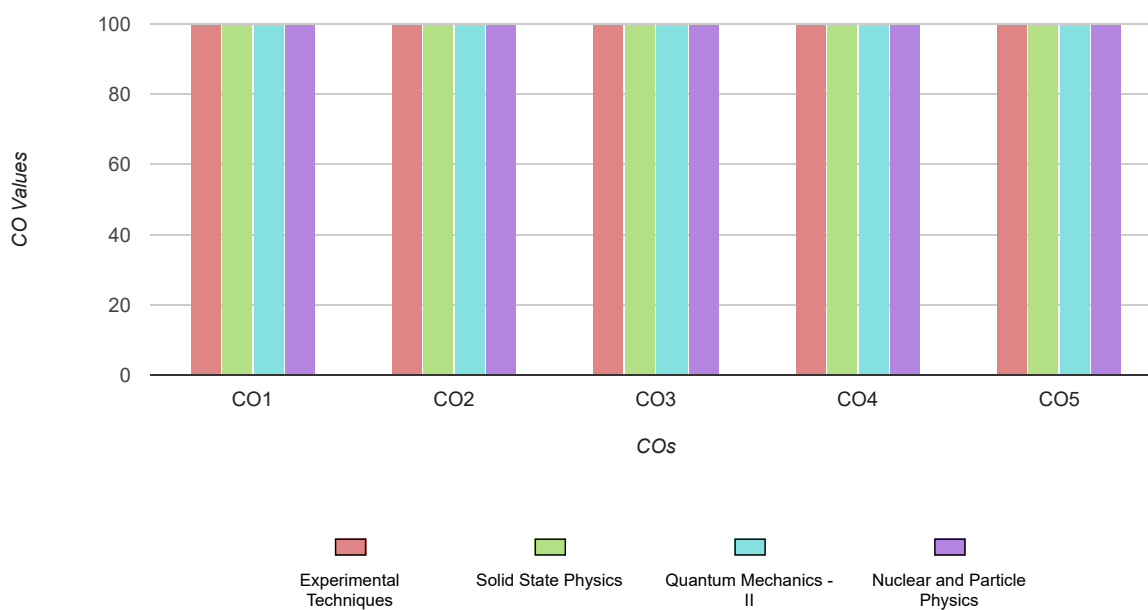


SEMESTER 2 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Quantum Mechanics I	CC19PPHY2C05	60.24	67.20	87.20	77.87	83.20
Mathematical Physics II	CC19PPHY2C06	84.69	53.07	98.40	82.40	70.97
Electronics Practical	CC19PPHY1L02 & CC19PPHY2L04	100.00	100.00	66.67	100.00	
Computational Physics	CC19PPHY2C08	83.20	73.60	73.60	92.09	
General Physics Practical	CC19PPHY1L01 & CC19PPHY2L03	89.68	89.68	89.68	89.68	
Statistical Mechanics	CC19PPHY2C07	67.20	75.93	91.20	79.20	99.20

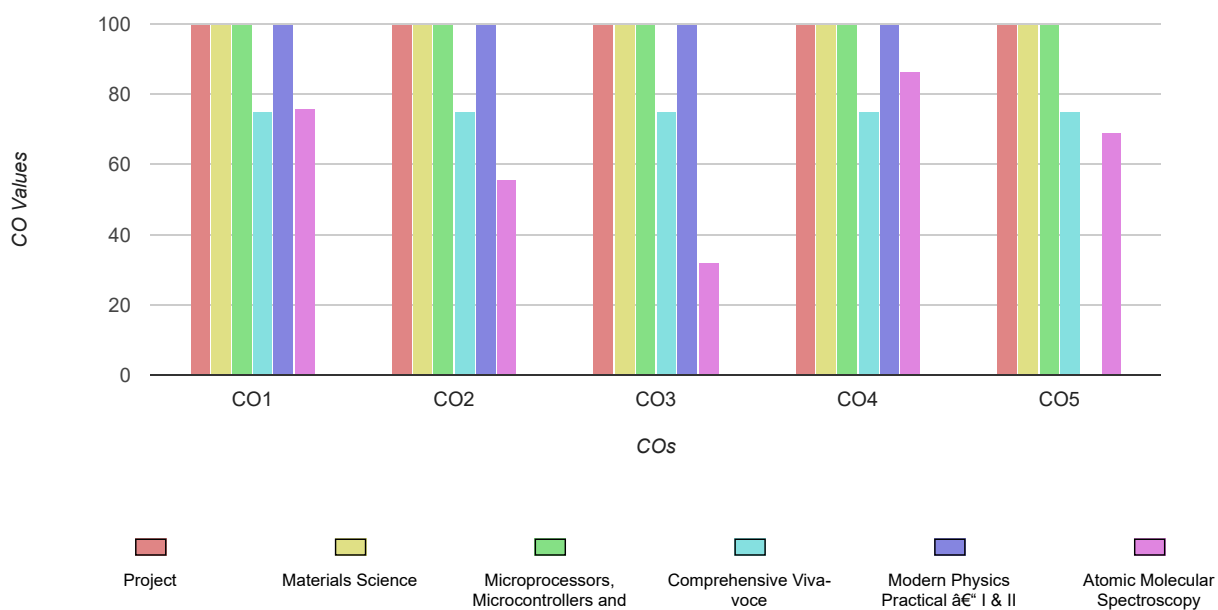




SEMESTER 3 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Experimental Techniques	CC19PPHY3E05	100.00	100.00	100.00	100.00	100.00
Solid State Physics	CC19PPHY3C11	100.00	100.00	100.00	100.00	100.00
Quantum Mechanics - II	CC19PPHY3C09	100.00	100.00	100.00	100.00	100.00
Nuclear and Particle Physics	CC19PPHY3C10	100.00	100.00	100.00	100.00	100.00



SEMESTER 4 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Project	CC19PPHY4P01	100.00	100.00	100.00	100.00	100.00
Materials Science	CC19PPHY4E11	100.00	100.00	100.00	100.00	100.00
Microprocessors, Microcontrollers and Applications	CC19PPHY4E20	100.00	100.00	100.00	100.00	100.00
Comprehensive Viva-voce	CC19PPHY4V01	75.40	75.40	75.40	75.40	75.40
Modern Physics Practical " I & II	CC19PPHY3L05 & CC19PPHY4L06	100.00	100.00	100.00	100.00	
Atomic Molecular Spectroscopy	CC19PPHY4C12	76.00	55.71	32.00	86.67	69.14





**CHRIST COLLEGE (AUTONOMOUS)  
IRINJALAKUDA.Kerala-680125  
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**OBE CARD**

<b>Department:</b>	PHYSICS
<b>Program:</b>	PG - MSC - M.Sc. Physics (Aided)
<b>Batch:</b>	MSC PHY 2022

<b>Name:</b>	HELMA SEBASTIAN
<b>Register No:</b>	CCAWMPH008
<b>Admission No:</b>	11464
<b>Entry Year:</b>	2022
<b>Exit Year:</b>	2024

This report provides the evidence of OBE implementation in CHRIST COLLEGE (AUTONOMOUS), and the measurement of both direct and indirect assessment of students during the academic year 2022-2024

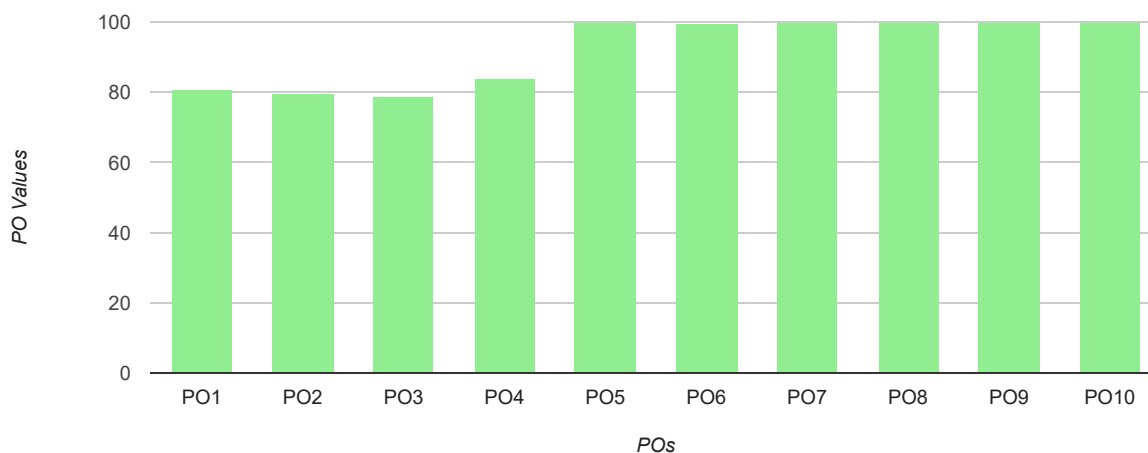
**Program: PG - MSc - M.Sc. Physics (Aided)**

**Program Outcome LIST**

PO CODE	PO DESCRIPTION
PO1	A thorough knowledge in the chosen discipline
PO2	An aptitude for research
PO3	An independent and individual way of thinking and communicating ideas
PO4	The ability to access and utilize knowledge and information for personal and general good
PO5	The discretion to engage in academic work with academic integrity
PO6	The know how to function in multidisciplinary domains
PO7	A global perspective, facilitating appropriate interaction with people from various cultural, linguistic and religious backgrounds
PO8	Decision-making and reasoning ability to find solutions to ethical problems
PO9	A spirit of selfless service making him willing to serve the needy and the marginalized
PO10	A heightened awareness of environmental issues and necessity of solving them

**Program Outcome Attainment**

PROGRAM OUTCOME PERCENTAGE OF HELMA SEBASTIAN										
PO CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
	80.84	79.61	78.78	84.30	100.00	99.55	100.00	100.00	100.00	100.00

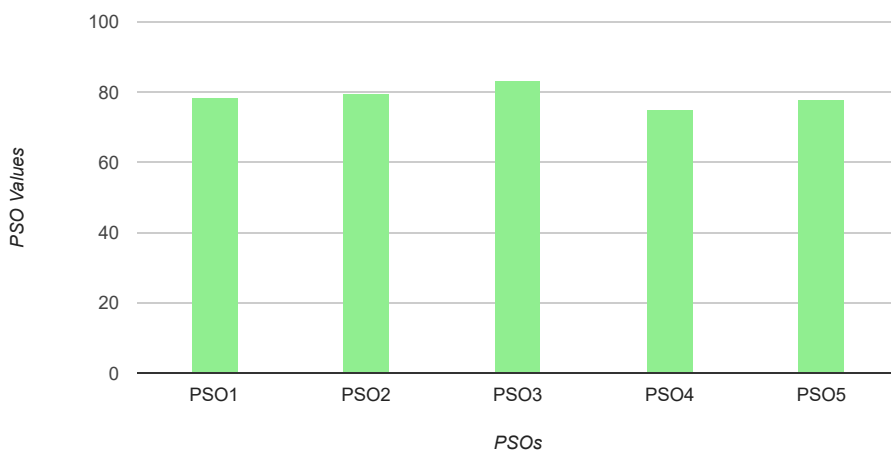


**Program Specific Outcome LIST**

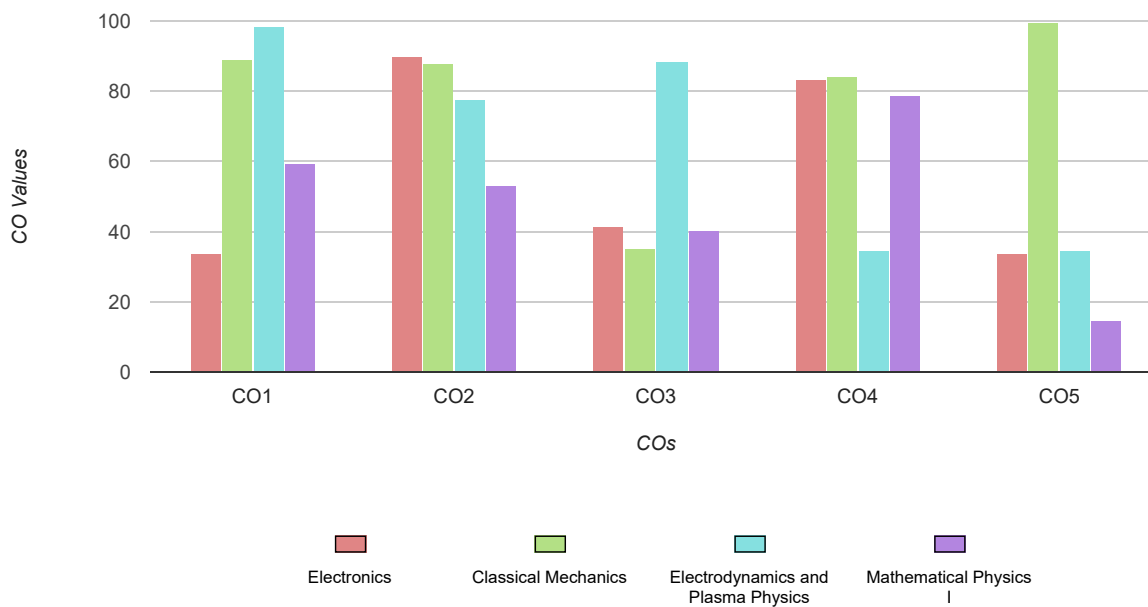
PSO CODE	PSO DESCRIPTION
PSO1	Acquire theoretical, mathematical, and computational knowledge in Physics.
PSO2	Apply theoretical knowledge of principles and concepts of Physics to practical problems.
PSO3	Apply conceptual understanding and critical thinking of the Physics to general real-world situations.
PSO4	Gain research experience within some specific field of Physics through original scientific project works and develop skills to communicate Physics knowledge
PSO5	Develop an understanding of the use of Physics for the benefit of the society.

**Program Specific Outcome Attainment**

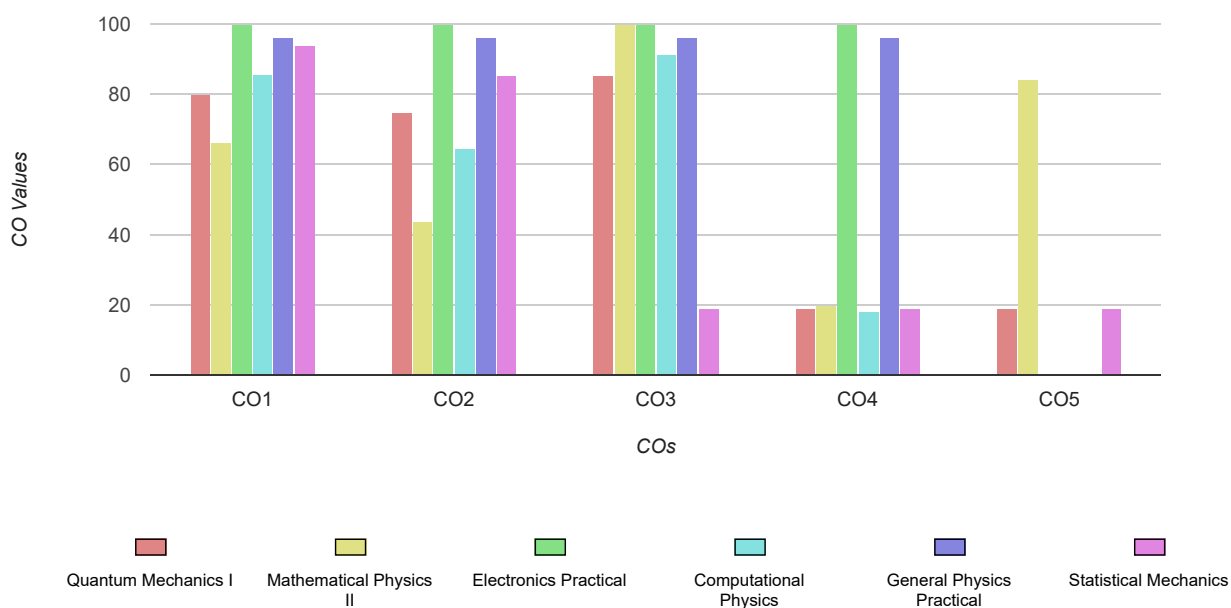
PROGRAM SPECIFIC OUTCOME PERCENTAGE OF HELMA SEBASTIAN					
PSO CODE	PSO1	PSO2	PSO3	PSO4	PSO5
	78.61	79.61	83.27	75.02	77.96



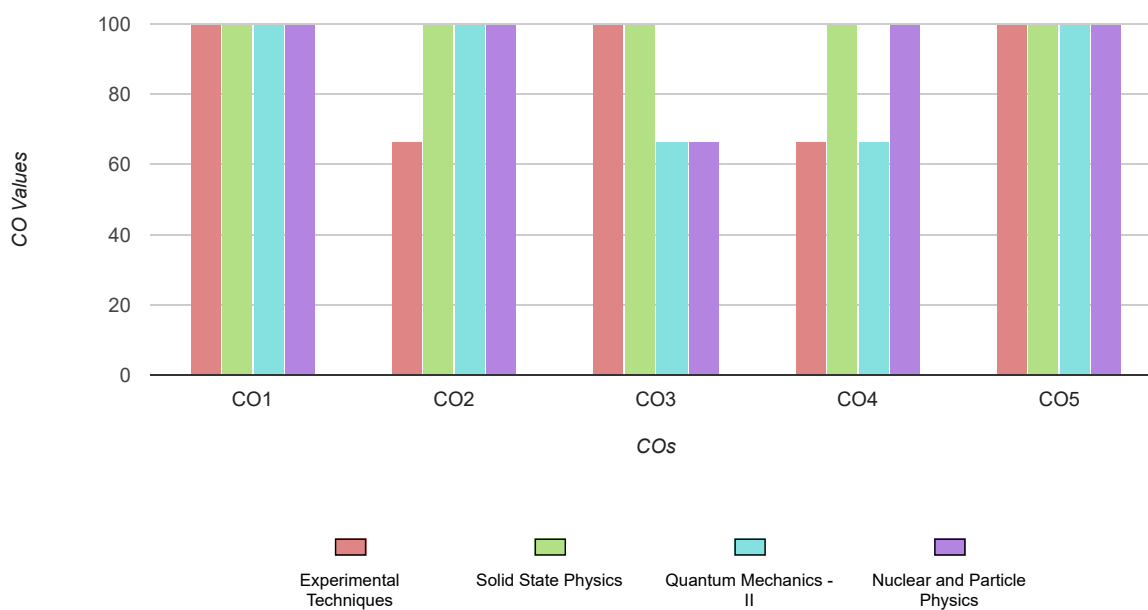
SEMESTER 1 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Electronics	CC19PPHY1C04	33.70	90.02	41.38	83.47	33.70
Classical Mechanics	CC19PPHY1C01	88.89	87.74	35.55	84.19	99.55
Electrodynamics and Plasma Physics	CC19PPHY1C03	98.40	77.45	88.80	34.40	34.40
Mathematical Physics I	CC19PPHY1C02	59.52	53.12	40.32	78.72	14.72



SEMESTER 2 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Quantum Mechanics I	CC19PPHY2C05	80.24	74.73	85.49	19.20	19.20
Mathematical Physics II	CC19PPHY2C06	66.40	44.00	100.00	20.00	84.00
Electronics Practical	CC19PPHY1L02 & CC19PPHY2L04	100.00	100.00	100.00	100.00	
Computational Physics	CC19PPHY2C08	85.60	64.80	91.54	18.40	
General Physics Practical	CC19PPHY1L01 & CC19PPHY2L03	96.48	96.48	96.48	96.48	
Statistical Mechanics	CC19PPHY2C07	93.87	85.49	19.20	19.20	19.20

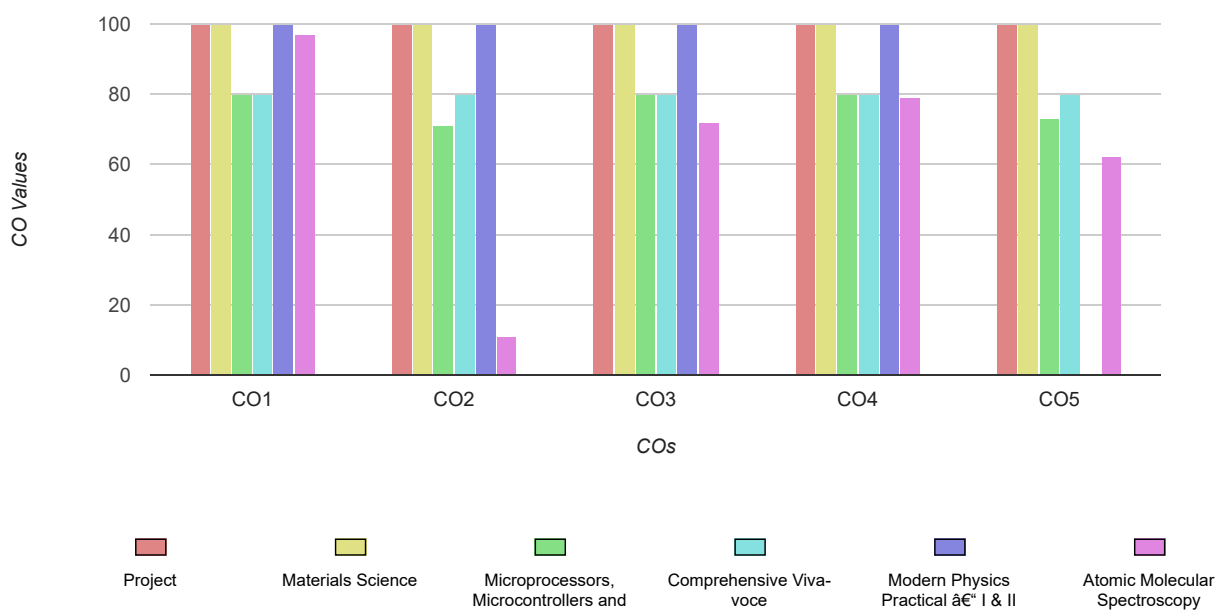


SEMESTER 3 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Experimental Techniques	CC19PPHY3E05	100.00	66.67	100.00	66.67	100.00
Solid State Physics	CC19PPHY3C11	100.00	100.00	100.00	100.00	100.00
Quantum Mechanics - II	CC19PPHY3C09	100.00	100.00	66.67	66.67	100.00
Nuclear and Particle Physics	CC19PPHY3C10	100.00	100.00	66.67	100.00	100.00





SEMESTER 4 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Project	CC19PPHY4P01	100.00	100.00	100.00	100.00	100.00
Materials Science	CC19PPHY4E11	100.00	100.00	100.00	100.00	100.00
Microprocessors, Microcontrollers and Applications	CC19PPHY4E20	80.00	71.11	80.00	80.00	73.14
Comprehensive Viva-voce	CC19PPHY4V01	80.00	80.00	80.00	80.00	80.00
Modern Physics Practical " I & II	CC19PPHY3L05 & CC19PPHY4L06	100.00	100.00	100.00	100.00	
Atomic Molecular Spectroscopy	CC19PPHY4C12	97.00	11.00	71.82	79.11	62.36





**CHRIST COLLEGE (AUTONOMOUS)  
IRINJALAKUDA.Kerala-680125  
Reaccredited by NAAC with 'A++' grade**



**OBE CARD**

<b>Department:</b>	PHYSICS
<b>Program:</b>	PG - MSC - M.Sc. Physics (Aided)
<b>Batch:</b>	MSC PHY 2022

<b>Name:</b>	HELNA SEBASTIAN
<b>Register No:</b>	CCAWMPH009
<b>Admission No:</b>	11465
<b>Entry Year:</b>	2022
<b>Exit Year:</b>	2024

This report provides the evidence of OBE implementation in CHRIST COLLEGE (AUTONOMOUS), and the measurement of both direct and indirect assessment of students during the academic year 2022-2024

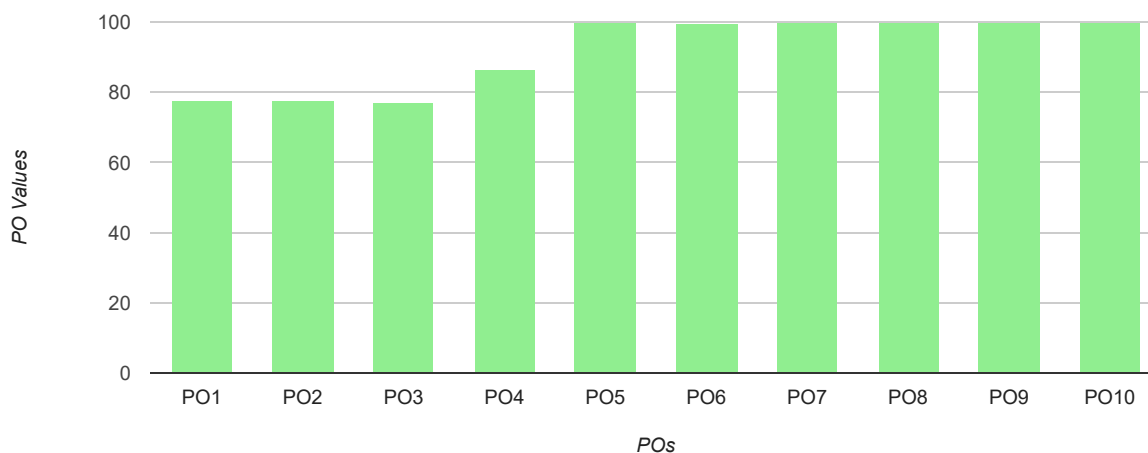
**Program: PG - MSc - M.Sc. Physics (Aided)**

**Program Outcome LIST**

PO CODE	PO DESCRIPTION
PO1	A thorough knowledge in the chosen discipline
PO2	An aptitude for research
PO3	An independent and individual way of thinking and communicating ideas
PO4	The ability to access and utilize knowledge and information for personal and general good
PO5	The discretion to engage in academic work with academic integrity
PO6	The know how to function in multidisciplinary domains
PO7	A global perspective, facilitating appropriate interaction with people from various cultural, linguistic and religious backgrounds
PO8	Decision-making and reasoning ability to find solutions to ethical problems
PO9	A spirit of selfless service making him willing to serve the needy and the marginalized
PO10	A heightened awareness of environmental issues and necessity of solving them

**Program Outcome Attainment**

PROGRAM OUTCOME PERCENTAGE OF HELNA SEBASTIAN										
PO CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
	77.57	77.60	77.36	86.43	100.00	99.55	100.00	100.00	100.00	100.00

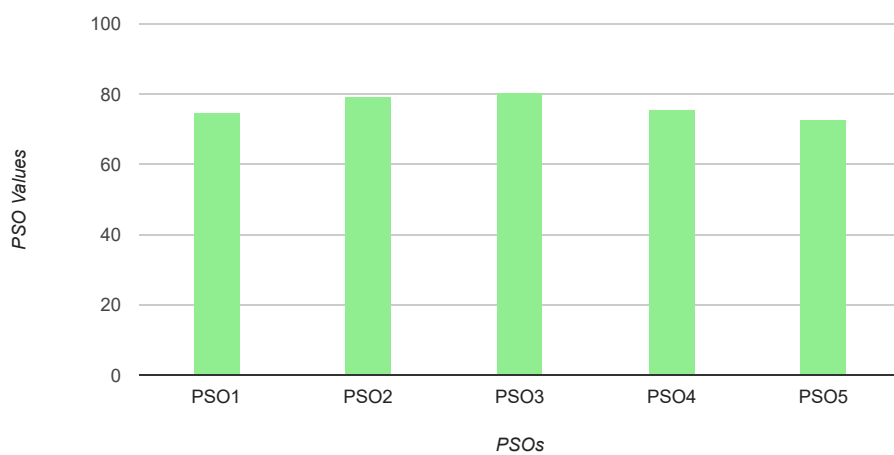


### Program Specific Outcome LIST

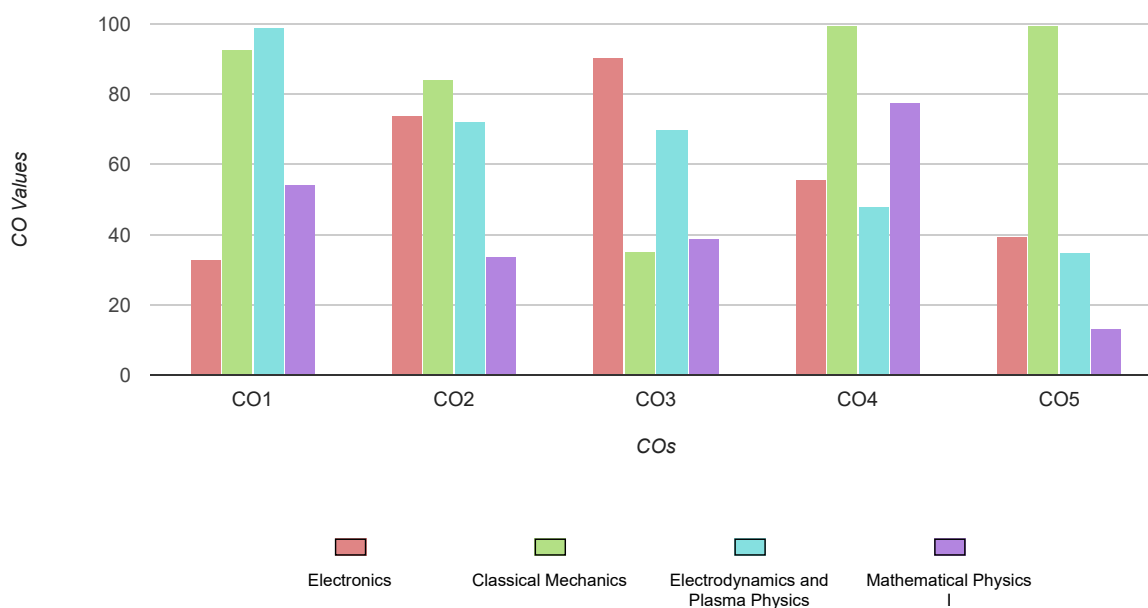
PSO CODE	PSO DESCRIPTION
PSO1	Acquire theoretical, mathematical, and computational knowledge in Physics.
PSO2	Apply theoretical knowledge of principles and concepts of Physics to practical problems.
PSO3	Apply conceptual understanding and critical thinking of the Physics to general real-world situations.
PSO4	Gain research experience within some specific field of Physics through original scientific project works and develop skills to communicate Physics knowledge
PSO5	Develop an understanding of the use of Physics for the benefit of the society.

### Program Specific Outcome Attainment

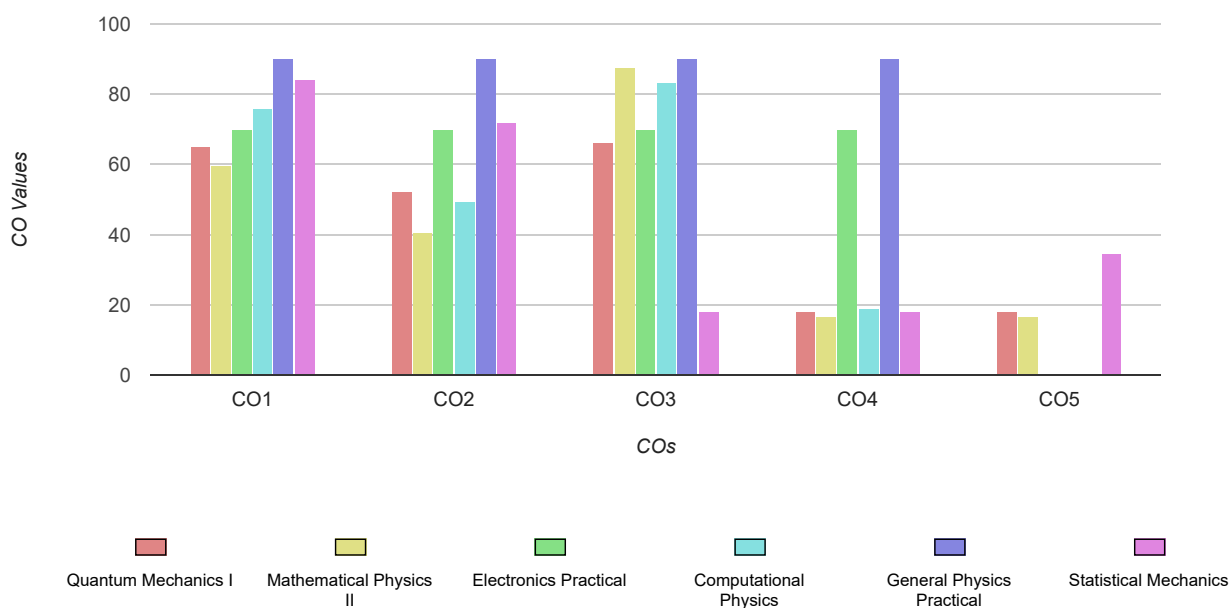
PROGRAM SPECIFIC OUTCOME PERCENTAGE OF HELNA SEBASTIAN					
PSO CODE	PSO1	PSO2	PSO3	PSO4	PSO5
	74.65	79.09	80.63	75.44	72.79



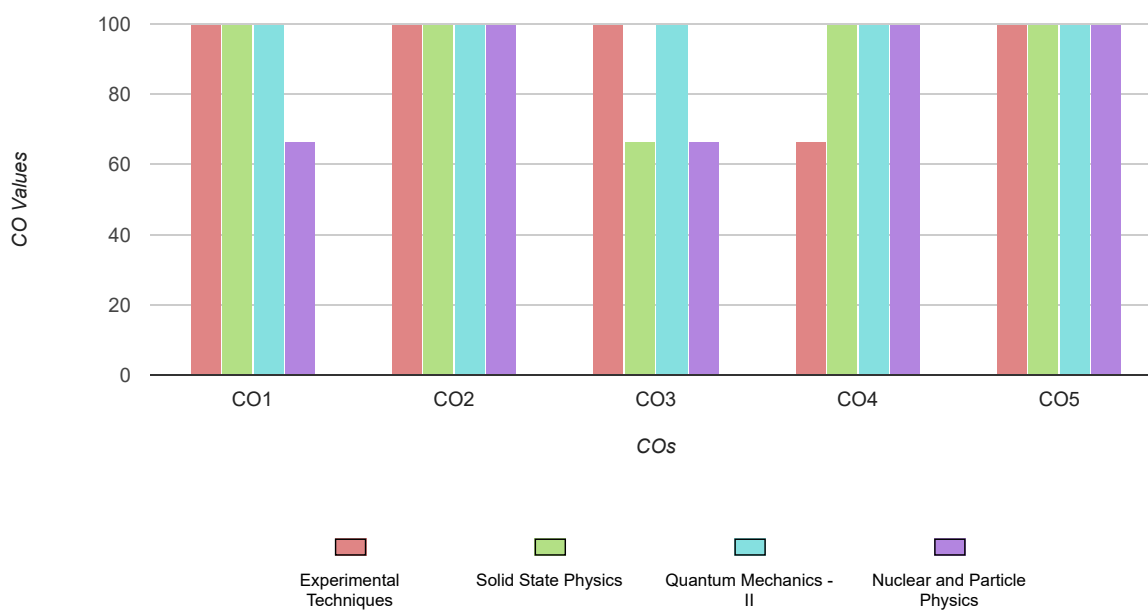
SEMESTER 1 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Electronics	CC19PPHY1C04	33.02	73.98	90.62	55.78	39.42
Classical Mechanics	CC19PPHY1C01	92.57	84.19	35.55	99.55	99.55
Electrodynamics and Plasma Physics	CC19PPHY1C03	99.04	72.28	69.78	47.84	35.04
Mathematical Physics I	CC19PPHY1C02	54.40	33.92	39.04	77.44	13.44



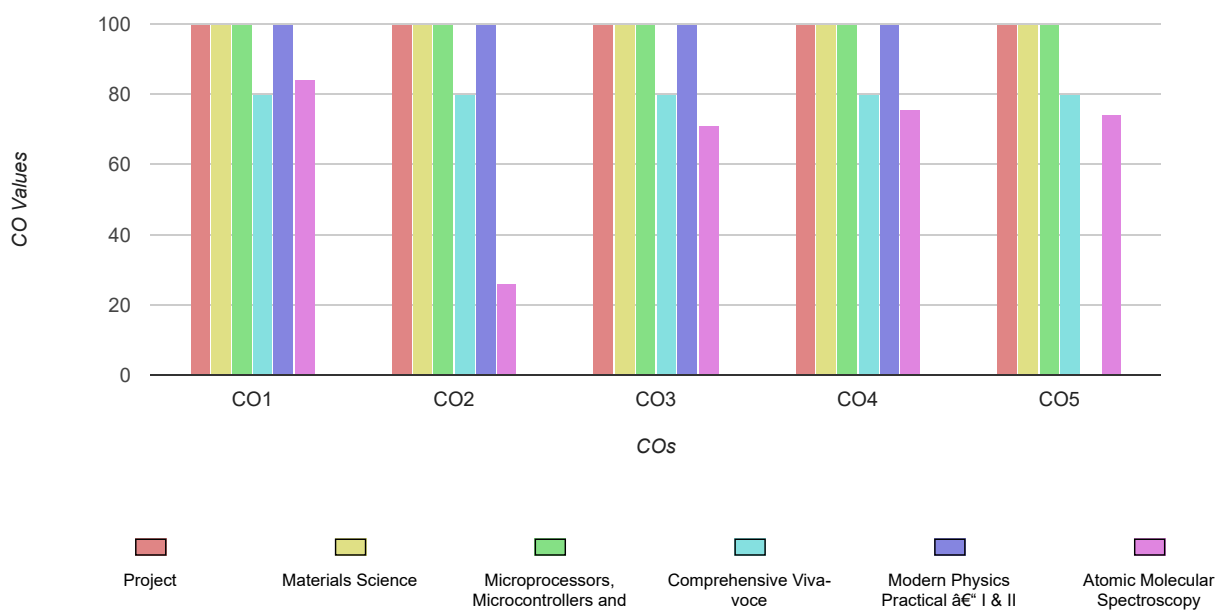
SEMESTER 2 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Quantum Mechanics I	CC19PPHY2C05	64.95	52.28	66.40	18.40	18.40
Mathematical Physics II	CC19PPHY2C06	59.88	40.80	87.91	16.80	16.80
Electronics Practical	CC19PPHY1L02 & CC19PPHY2L04	70.02	70.02	70.02	70.02	
Computational Physics	CC19PPHY2C08	75.93	49.60	83.20	19.20	
General Physics Practical	CC19PPHY1L01 & CC19PPHY2L03	90.40	90.40	90.40	90.40	
Statistical Mechanics	CC19PPHY2C07	84.18	72.11	18.40	18.40	34.40



SEMESTER 3 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Experimental Techniques	CC19PPHY3E05	100.00	100.00	100.00	66.67	100.00
Solid State Physics	CC19PPHY3C11	100.00	100.00	66.67	100.00	100.00
Quantum Mechanics - II	CC19PPHY3C09	100.00	100.00	100.00	100.00	100.00
Nuclear and Particle Physics	CC19PPHY3C10	66.67	100.00	66.67	100.00	100.00



SEMESTER 4 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Project	CC19PPHY4P01	100.00	100.00	100.00	100.00	100.00
Materials Science	CC19PPHY4E11	100.00	100.00	100.00	100.00	100.00
Microprocessors, Microcontrollers and Applications	CC19PPHY4E20	100.00	100.00	100.00	100.00	100.00
Comprehensive Viva-voce	CC19PPHY4V01	80.00	80.00	80.00	80.00	80.00
Modern Physics Practical " I & II	CC19PPHY3L05 & CC19PPHY4L06	100.00	100.00	100.00	100.00	
Atomic Molecular Spectroscopy	CC19PPHY4C12	84.00	26.00	71.20	75.56	74.55







**CHRIST COLLEGE (AUTONOMOUS)  
IRINJALAKUDA.Kerala-680125  
Reaccredited by NAAC with 'A++' grade**



**OBE CARD**

<b>Department:</b>	PHYSICS
<b>Program:</b>	PG - MSC - M.Sc. Physics (Aided)
<b>Batch:</b>	MSC PHY 2022

<b>Name:</b>	KRISHNAPRIYA T. L
<b>Register No:</b>	CCAWMPH010
<b>Admission No:</b>	11466
<b>Entry Year:</b>	2022
<b>Exit Year:</b>	2024

This report provides the evidence of OBE implementation in CHRIST COLLEGE (AUTONOMOUS), and the measurement of both direct and indirect assessment of students during the academic year 2022-2024

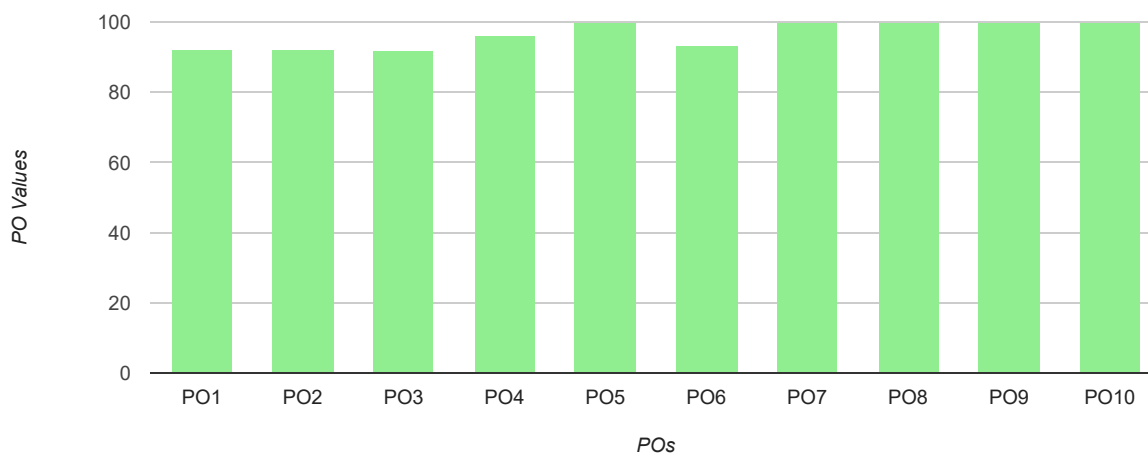
**Program: PG - MSc - M.Sc. Physics (Aided)**

**Program Outcome LIST**

PO CODE	PO DESCRIPTION
PO1	A thorough knowledge in the chosen discipline
PO2	An aptitude for research
PO3	An independent and individual way of thinking and communicating ideas
PO4	The ability to access and utilize knowledge and information for personal and general good
PO5	The discretion to engage in academic work with academic integrity
PO6	The know how to function in multidisciplinary domains
PO7	A global perspective, facilitating appropriate interaction with people from various cultural, linguistic and religious backgrounds
PO8	Decision-making and reasoning ability to find solutions to ethical problems
PO9	A spirit of selfless service making him willing to serve the needy and the marginalized
PO10	A heightened awareness of environmental issues and necessity of solving them

**Program Outcome Attainment**

PROGRAM OUTCOME PERCENTAGE OF KRISHNAPRIYA T. L										
PO CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
	92.34	92.17	91.94	96.29	100.00	93.47	100.00	100.00	100.00	100.00

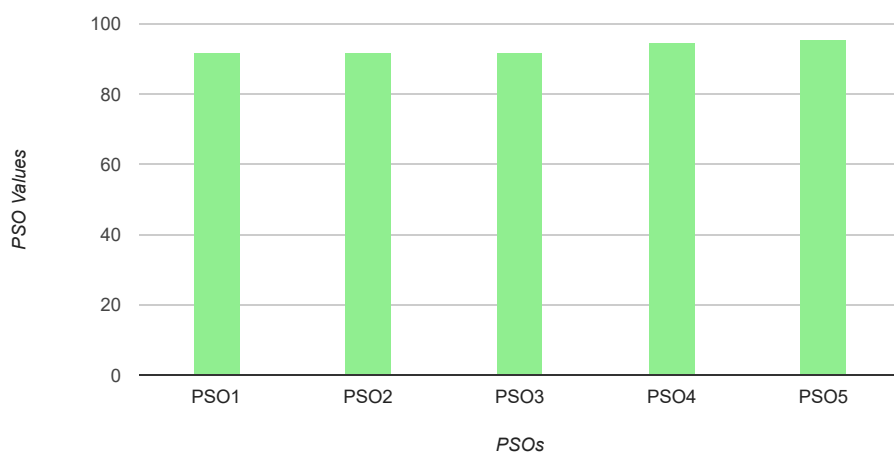


### Program Specific Outcome LIST

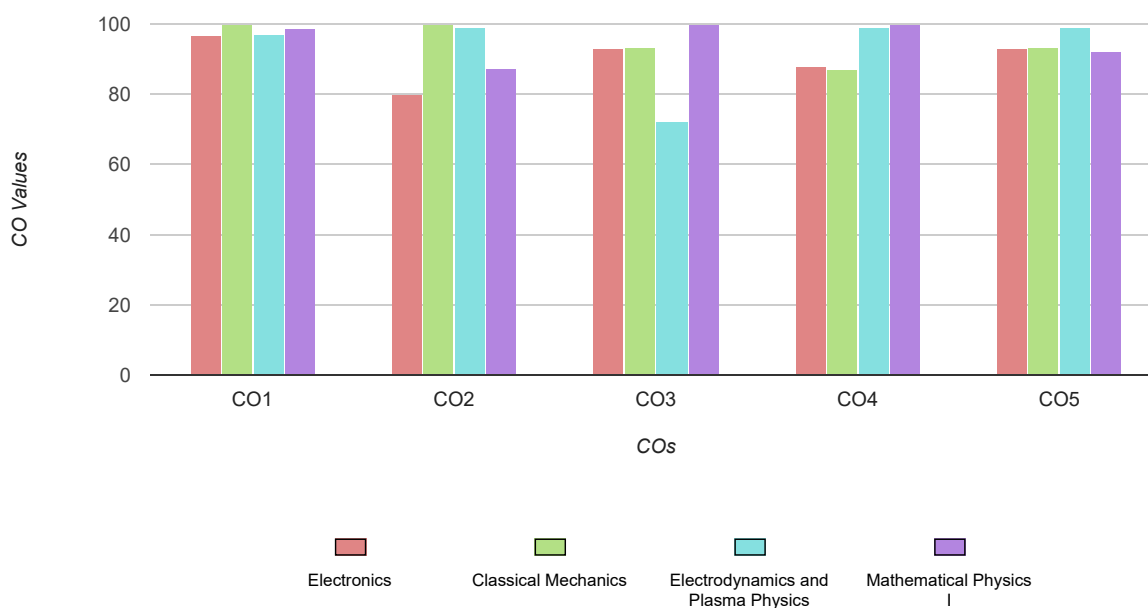
PSO CODE	PSO DESCRIPTION
PSO1	Acquire theoretical, mathematical, and computational knowledge in Physics.
PSO2	Apply theoretical knowledge of principles and concepts of Physics to practical problems.
PSO3	Apply conceptual understanding and critical thinking of the Physics to general real-world situations.
PSO4	Gain research experience within some specific field of Physics through original scientific project works and develop skills to communicate Physics knowledge
PSO5	Develop an understanding of the use of Physics for the benefit of the society.

### Program Specific Outcome Attainment

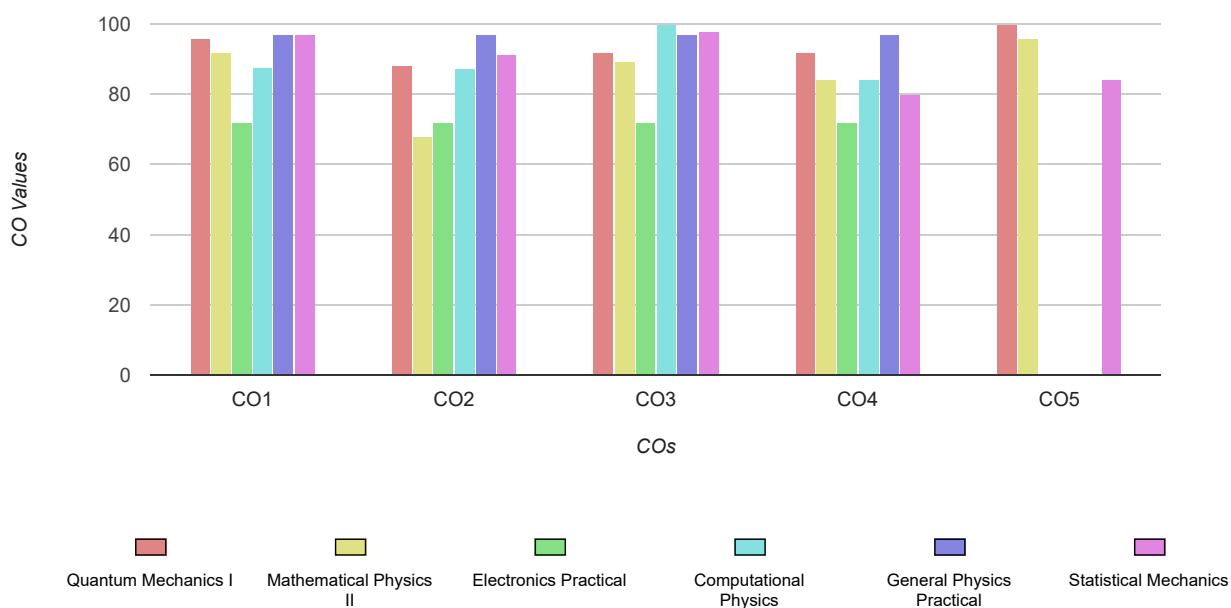
PROGRAM SPECIFIC OUTCOME PERCENTAGE OF KRISHNAPRIYA T. L					
PSO CODE	PSO1	PSO2	PSO3	PSO4	PSO5
	91.89	91.83	92.06	94.80	95.53



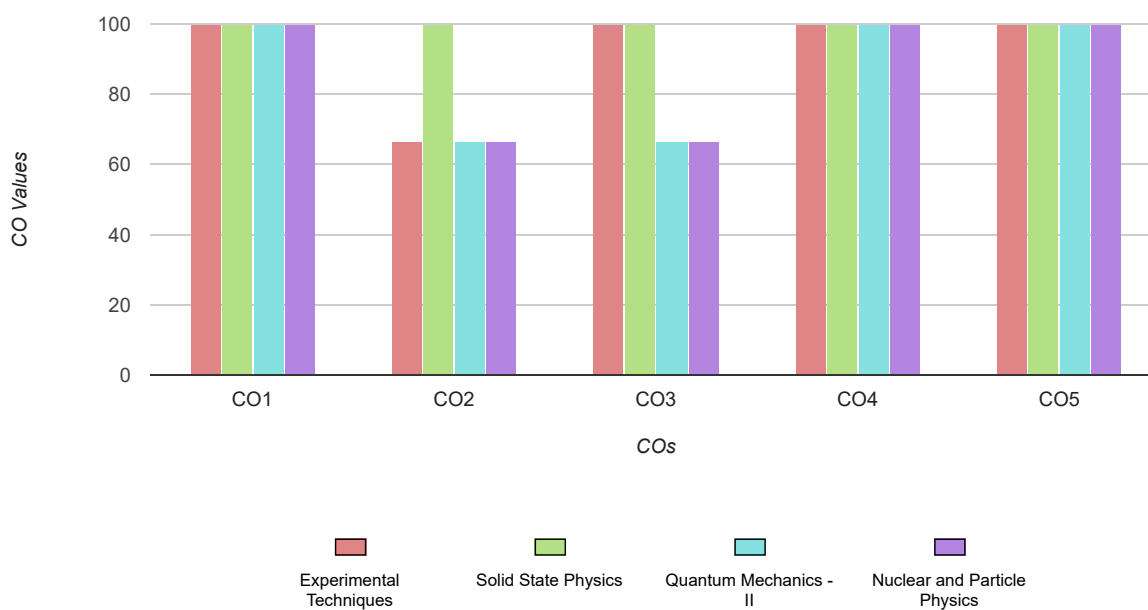
SEMESTER 1 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Electronics	CC19PPHY1C04	96.86	80.22	93.02	87.69	93.02
Classical Mechanics	CC19PPHY1C01	99.87	99.87	93.47	87.07	93.47
Electrodynamics and Plasma Physics	CC19PPHY1C03	97.23	99.36	72.16	99.36	99.36
Mathematical Physics I	CC19PPHY1C02	98.72	87.20	100.00	100.00	92.32



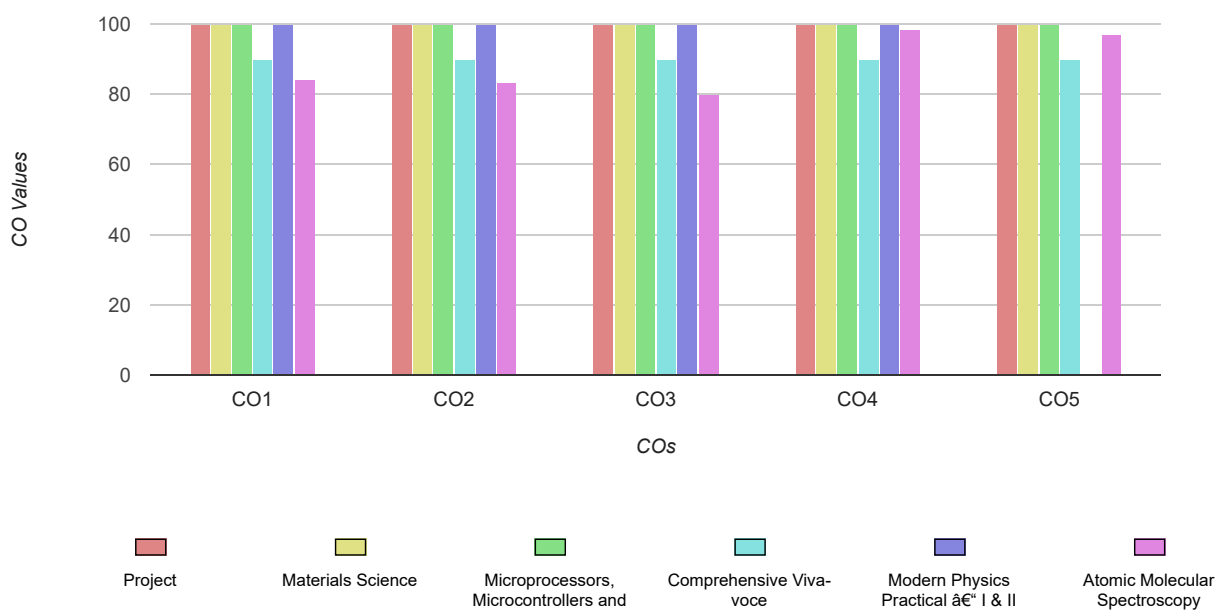
SEMESTER 2 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Quantum Mechanics I	CC19PPHY2C05	95.83	88.36	92.00	92.00	100.00
Mathematical Physics II	CC19PPHY2C06	92.00	68.00	89.33	84.00	96.00
Electronics Practical	CC19PPHY1L02 & CC19PPHY2L04	71.94	71.94	71.94	71.94	
Computational Physics	CC19PPHY2C08	88.00	87.20	100.00	84.00	
General Physics Practical	CC19PPHY1L01 & CC19PPHY2L03	97.28	97.28	97.28	97.28	
Statistical Mechanics	CC19PPHY2C07	97.33	91.27	98.00	80.00	84.00



SEMESTER 3 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Experimental Techniques	CC19PPHY3E05	100.00	66.67	100.00	100.00	100.00
Solid State Physics	CC19PPHY3C11	100.00	100.00	100.00	100.00	100.00
Quantum Mechanics - II	CC19PPHY3C09	100.00	66.67	66.67	100.00	100.00
Nuclear and Particle Physics	CC19PPHY3C10	100.00	66.67	66.67	100.00	100.00



SEMESTER 4 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Project	CC19PPHY4P01	100.00	100.00	100.00	100.00	100.00
Materials Science	CC19PPHY4E11	100.00	100.00	100.00	100.00	100.00
Microprocessors, Microcontrollers and Applications	CC19PPHY4E20	100.00	100.00	100.00	100.00	100.00
Comprehensive Viva-voce	CC19PPHY4V01	90.00	90.00	90.00	90.00	90.00
Modern Physics Practical " I & II	CC19PPHY3L05 & CC19PPHY4L06	100.00	100.00	100.00	100.00	
Atomic Molecular Spectroscopy	CC19PPHY4C12	84.00	83.20	80.00	98.22	97.00





**CHRIST COLLEGE (AUTONOMOUS)  
IRINJALAKUDA.Kerala-680125  
Reaccredited by NAAC with 'A++' grade**



**OBE CARD**

<b>Department:</b>	PHYSICS
<b>Program:</b>	PG - MSC - M.Sc. Physics (Aided)
<b>Batch:</b>	MSC PHY 2022

<b>Name:</b>	MEERA.P
<b>Register No:</b>	CCAWMPH011
<b>Admission No:</b>	11467
<b>Entry Year:</b>	2022
<b>Exit Year:</b>	2024

This report provides the evidence of OBE implementation in CHRIST COLLEGE (AUTONOMOUS), and the measurement of both direct and indirect assessment of students during the academic year 2022-2024



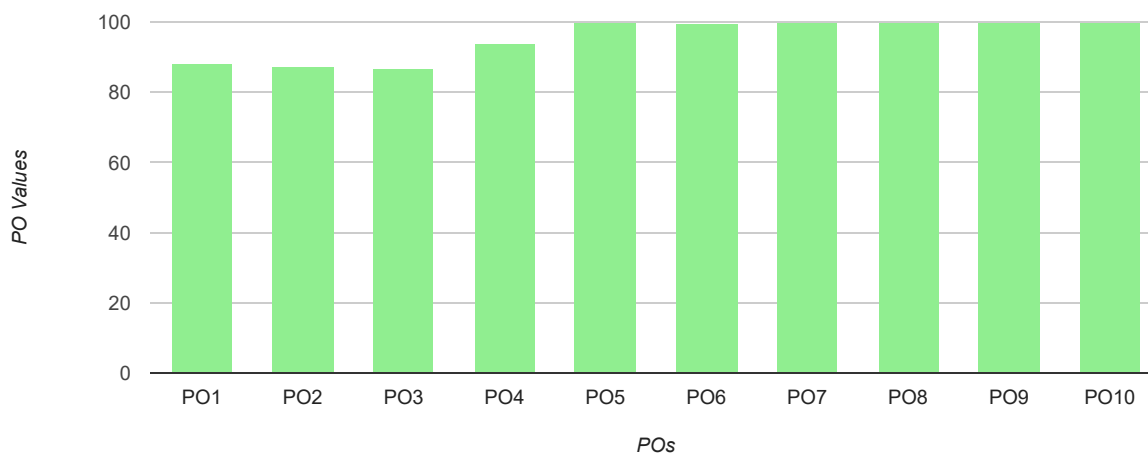
**Program: PG - MSc - M.Sc. Physics (Aided)**

**Program Outcome LIST**

PO CODE	PO DESCRIPTION
PO1	A thorough knowledge in the chosen discipline
PO2	An aptitude for research
PO3	An independent and individual way of thinking and communicating ideas
PO4	The ability to access and utilize knowledge and information for personal and general good
PO5	The discretion to engage in academic work with academic integrity
PO6	The know how to function in multidisciplinary domains
PO7	A global perspective, facilitating appropriate interaction with people from various cultural, linguistic and religious backgrounds
PO8	Decision-making and reasoning ability to find solutions to ethical problems
PO9	A spirit of selfless service making him willing to serve the needy and the marginalized
PO10	A heightened awareness of environmental issues and necessity of solving them

**Program Outcome Attainment**

PROGRAM OUTCOME PERCENTAGE OF MEERA.P										
PO CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
	88.01	87.59	86.87	94.03	100.00	99.62	100.00	100.00	100.00	100.00

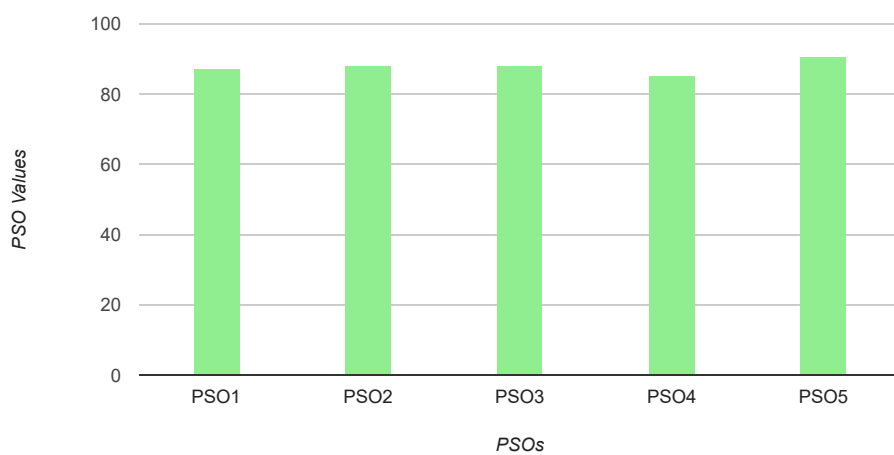


### Program Specific Outcome LIST

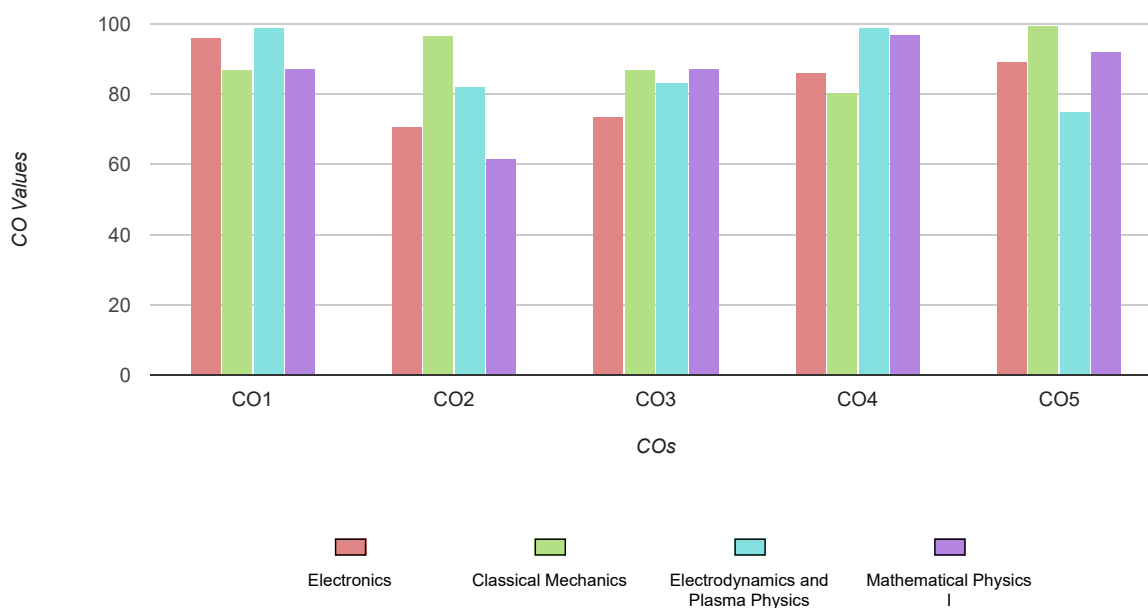
PSO CODE	PSO DESCRIPTION
PSO1	Acquire theoretical, mathematical, and computational knowledge in Physics.
PSO2	Apply theoretical knowledge of principles and concepts of Physics to practical problems.
PSO3	Apply conceptual understanding and critical thinking of the Physics to general real-world situations.
PSO4	Gain research experience within some specific field of Physics through original scientific project works and develop skills to communicate Physics knowledge
PSO5	Develop an understanding of the use of Physics for the benefit of the society.

### Program Specific Outcome Attainment

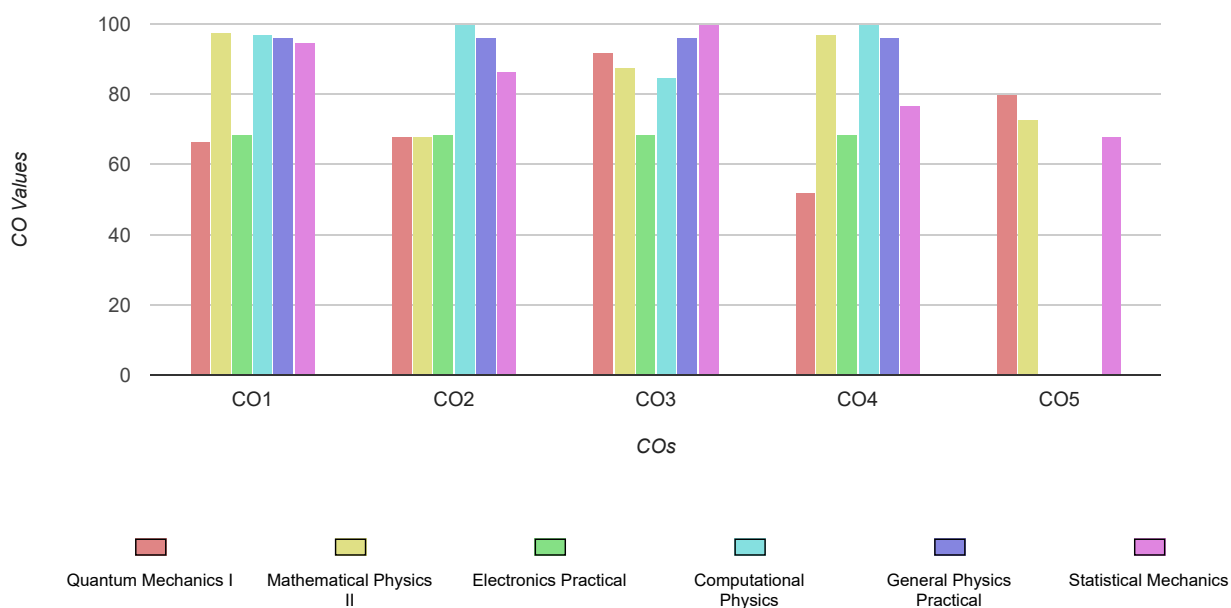
PROGRAM SPECIFIC OUTCOME PERCENTAGE OF MEERA.P					
PSO CODE	PSO1	PSO2	PSO3	PSO4	PSO5
	87.56	88.15	88.40	85.42	90.77



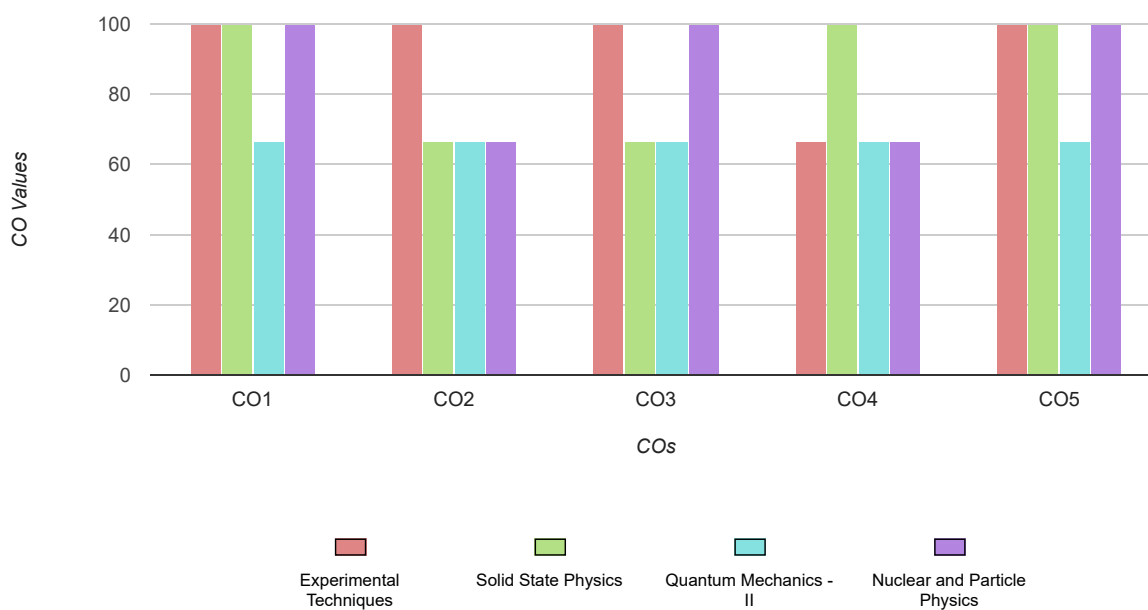
SEMESTER 1 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Electronics	CC19PPHY1C04	96.42	70.82	73.38	86.18	89.38
Classical Mechanics	CC19PPHY1C01	86.82	96.66	86.82	80.42	99.62
Electrodynamics and Plasma Physics	CC19PPHY1C03	99.36	82.29	83.36	99.36	75.36
Mathematical Physics I	CC19PPHY1C02	87.20	61.60	87.20	97.16	92.32



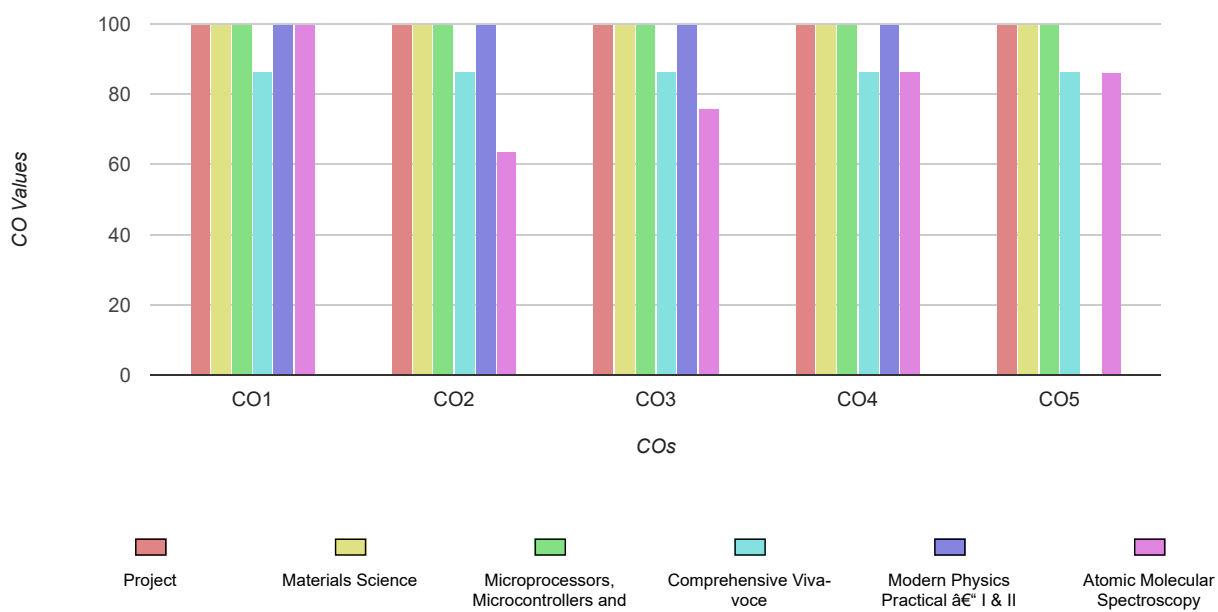
SEMESTER 2 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Quantum Mechanics I	CC19PPHY2C05	66.86	68.00	92.00	52.00	80.00
Mathematical Physics II	CC19PPHY2C06	97.71	68.00	88.00	97.33	72.57
Electronics Practical	CC19PPHY1L02 & CC19PPHY2L04	68.74	68.74	68.74	68.74	
Computational Physics	CC19PPHY2C08	97.09	100.00	85.00	100.00	
General Physics Practical	CC19PPHY1L01 & CC19PPHY2L03	96.48	96.48	96.48	96.48	
Statistical Mechanics	CC19PPHY2C07	94.67	86.67	100.00	76.89	68.00



SEMESTER 3 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Experimental Techniques	CC19PPHY3E05	100.00	100.00	100.00	66.67	100.00
Solid State Physics	CC19PPHY3C11	100.00	66.67	66.67	100.00	100.00
Quantum Mechanics - II	CC19PPHY3C09	66.67	66.67	66.67	66.67	66.67
Nuclear and Particle Physics	CC19PPHY3C10	100.00	66.67	100.00	66.67	100.00



SEMESTER 4 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Project	CC19PPHY4P01	100.00	100.00	100.00	100.00	100.00
Materials Science	CC19PPHY4E11	100.00	100.00	100.00	100.00	100.00
Microprocessors, Microcontrollers and Applications	CC19PPHY4E20	100.00	100.00	100.00	100.00	100.00
Comprehensive Viva-voce	CC19PPHY4V01	86.60	86.60	86.60	86.60	86.60
Modern Physics Practical " I & II	CC19PPHY3L05 & CC19PPHY4L06	100.00	100.00	100.00	100.00	
Atomic Molecular Spectroscopy	CC19PPHY4C12	100.00	63.80	76.00	86.67	86.29





**CHRIST COLLEGE (AUTONOMOUS)  
IRINJALAKUDA.Kerala-680125  
Reaccredited by NAAC with 'A++' grade**



**OBE CARD**

<b>Department:</b>	PHYSICS
<b>Program:</b>	PG - MSC - M.Sc. Physics (Aided)
<b>Batch:</b>	MSC PHY 2022

<b>Name:</b>	MONICA M S
<b>Register No:</b>	CCAWMPH012
<b>Admission No:</b>	11468
<b>Entry Year:</b>	2022
<b>Exit Year:</b>	2024

This report provides the evidence of OBE implementation in CHRIST COLLEGE (AUTONOMOUS), and the measurement of both direct and indirect assessment of students during the academic year 2022-2024

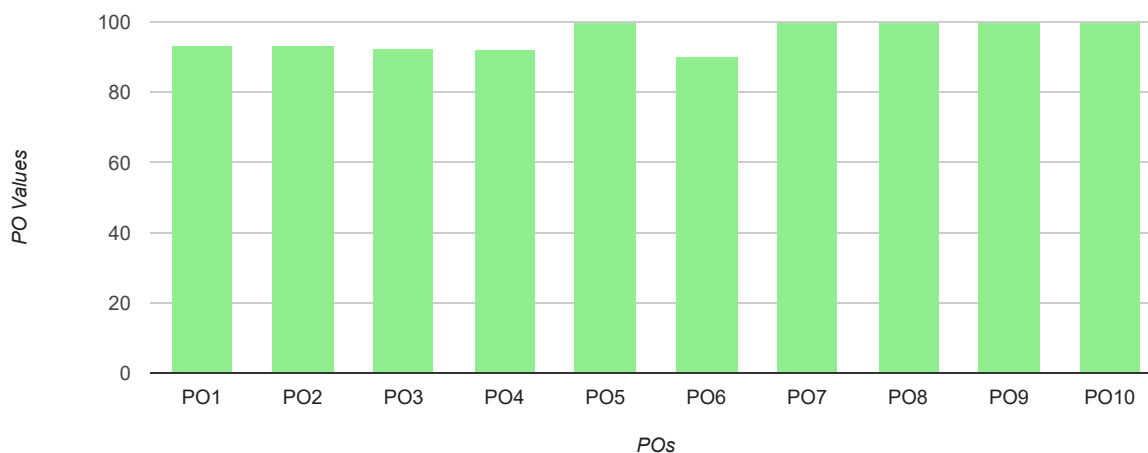
**Program: PG - MSc - M.Sc. Physics (Aided)**

**Program Outcome LIST**

PO CODE	PO DESCRIPTION
PO1	A thorough knowledge in the chosen discipline
PO2	An aptitude for research
PO3	An independent and individual way of thinking and communicating ideas
PO4	The ability to access and utilize knowledge and information for personal and general good
PO5	The discretion to engage in academic work with academic integrity
PO6	The know how to function in multidisciplinary domains
PO7	A global perspective, facilitating appropriate interaction with people from various cultural, linguistic and religious backgrounds
PO8	Decision-making and reasoning ability to find solutions to ethical problems
PO9	A spirit of selfless service making him willing to serve the needy and the marginalized
PO10	A heightened awareness of environmental issues and necessity of solving them

**Program Outcome Attainment**

PROGRAM OUTCOME PERCENTAGE OF MONICA M S										
PO CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
	93.56	93.66	92.87	92.20	100.00	90.27	100.00	100.00	100.00	100.00



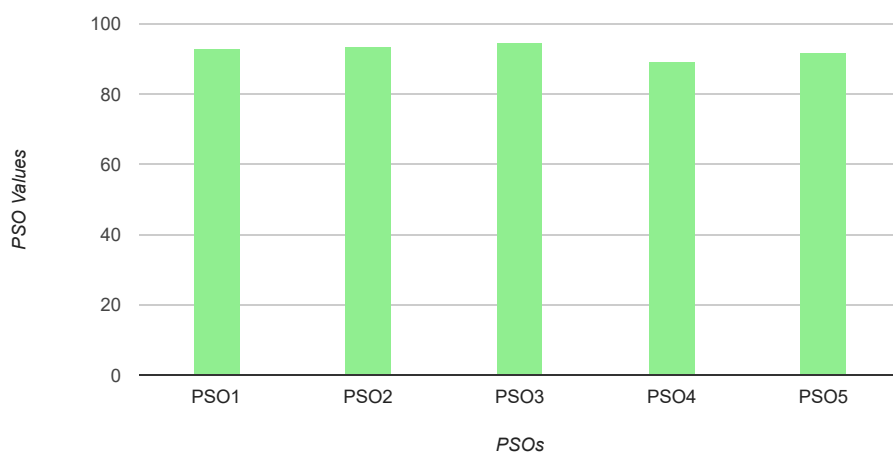


**Program Specific Outcome LIST**

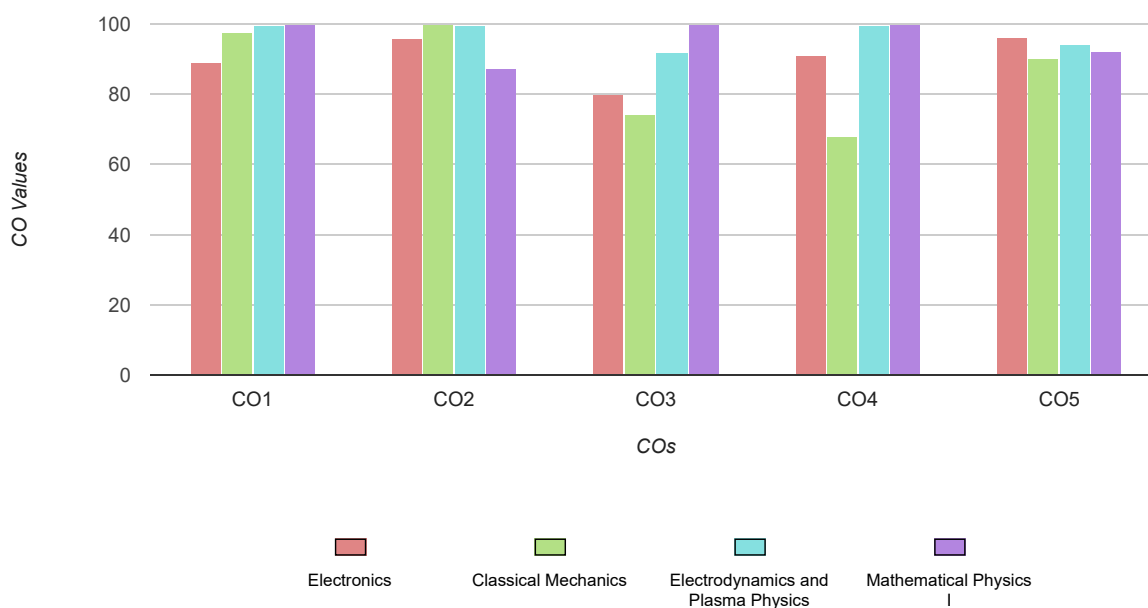
PSO CODE	PSO DESCRIPTION
PSO1	Acquire theoretical, mathematical, and computational knowledge in Physics.
PSO2	Apply theoretical knowledge of principles and concepts of Physics to practical problems.
PSO3	Apply conceptual understanding and critical thinking of the Physics to general real-world situations.
PSO4	Gain research experience within some specific field of Physics through original scientific project works and develop skills to communicate Physics knowledge
PSO5	Develop an understanding of the use of Physics for the benefit of the society.

**Program Specific Outcome Attainment**

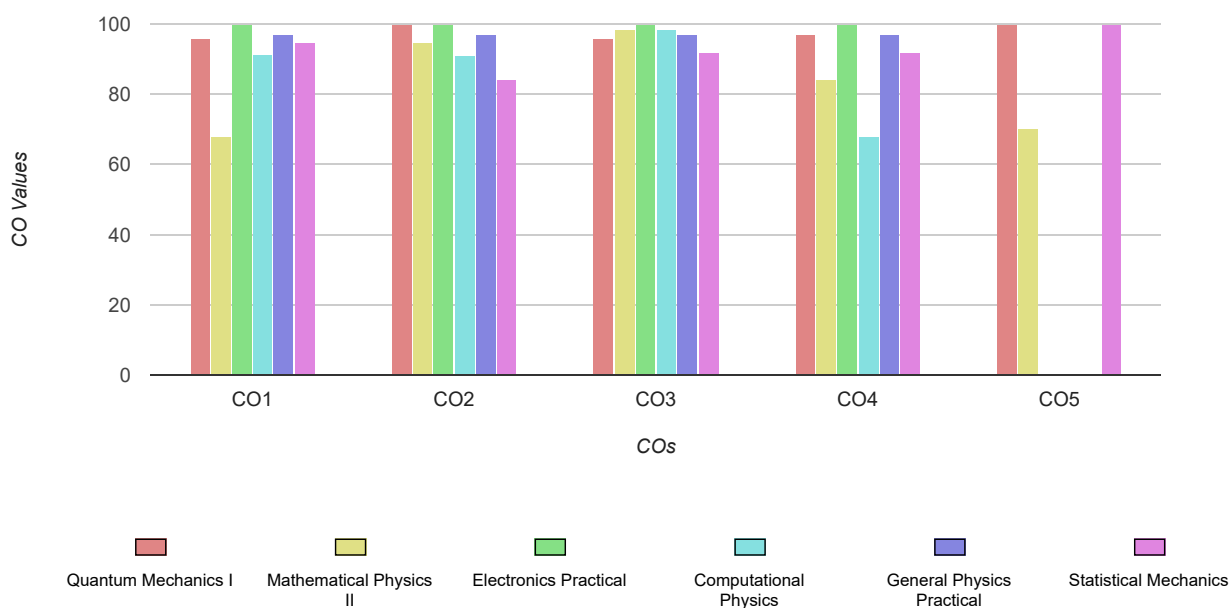
PROGRAM SPECIFIC OUTCOME PERCENTAGE OF MONICA M S					
PSO CODE	PSO1	PSO2	PSO3	PSO4	PSO5
	93.15	93.62	94.81	89.58	92.06



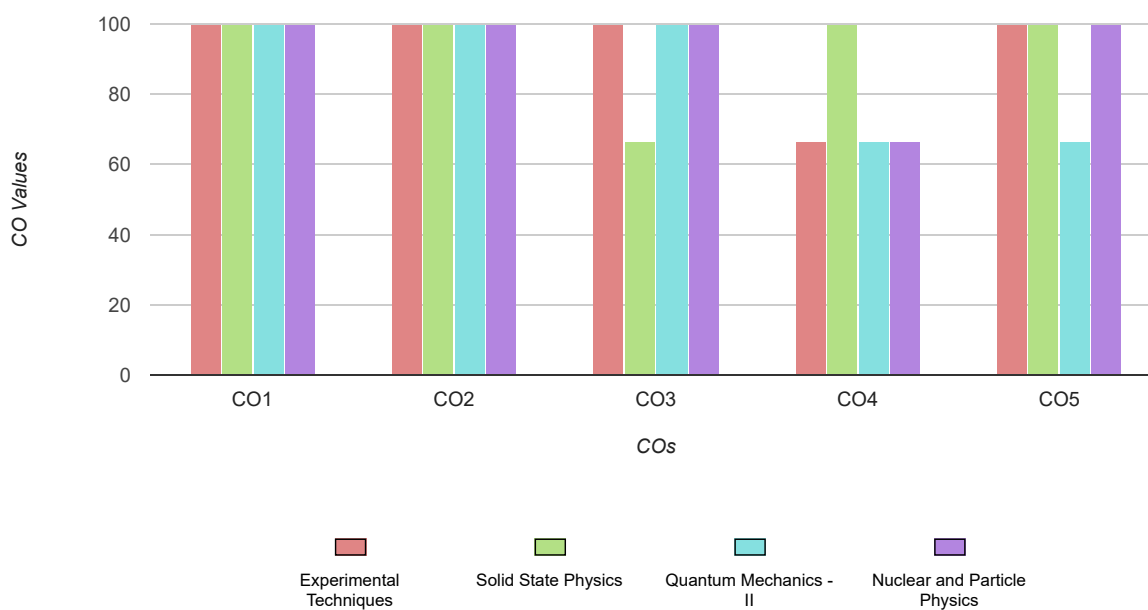
SEMESTER 1 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Electronics	CC19PPHY1C04	89.18	95.77	80.22	90.89	96.22
Classical Mechanics	CC19PPHY1C01	97.74	99.87	74.27	67.87	90.27
Electrodynamics and Plasma Physics	CC19PPHY1C03	99.52	99.52	91.84	99.52	94.40
Mathematical Physics I	CC19PPHY1C02	100.00	87.20	100.00	100.00	92.32



SEMESTER 2 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Quantum Mechanics I	CC19PPHY2C05	95.83	100.00	96.00	97.33	100.00
Mathematical Physics II	CC19PPHY2C06	68.00	94.67	98.22	84.00	70.29
Electronics Practical	CC19PPHY1L02 & CC19PPHY2L04	100.00	100.00	100.00	100.00	
Computational Physics	CC19PPHY2C08	91.27	90.86	98.55	68.00	
General Physics Practical	CC19PPHY1L01 & CC19PPHY2L03	97.28	97.28	97.28	97.28	
Statistical Mechanics	CC19PPHY2C07	94.67	84.00	92.00	92.00	100.00



SEMESTER 3 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Experimental Techniques	CC19PPHY3E05	100.00	100.00	100.00	66.67	100.00
Solid State Physics	CC19PPHY3C11	100.00	100.00	66.67	100.00	100.00
Quantum Mechanics - II	CC19PPHY3C09	100.00	100.00	100.00	66.67	66.67
Nuclear and Particle Physics	CC19PPHY3C10	100.00	100.00	100.00	66.67	100.00







**CHRIST COLLEGE (AUTONOMOUS)  
IRINJALAKUDA.Kerala-680125  
Reaccredited by NAAC with 'A++' grade**



**OBE CARD**

<b>Department:</b>	PHYSICS
<b>Program:</b>	PG - MSC - M.Sc. Physics (Aided)
<b>Batch:</b>	MSC PHY 2022

<b>Name:</b>	SONA K SANTHOSH
<b>Register No:</b>	CCAWMPH014
<b>Admission No:</b>	11470
<b>Entry Year:</b>	2022
<b>Exit Year:</b>	2024

This report provides the evidence of OBE implementation in CHRIST COLLEGE (AUTONOMOUS), and the measurement of both direct and indirect assessment of students during the academic year 2022-2024

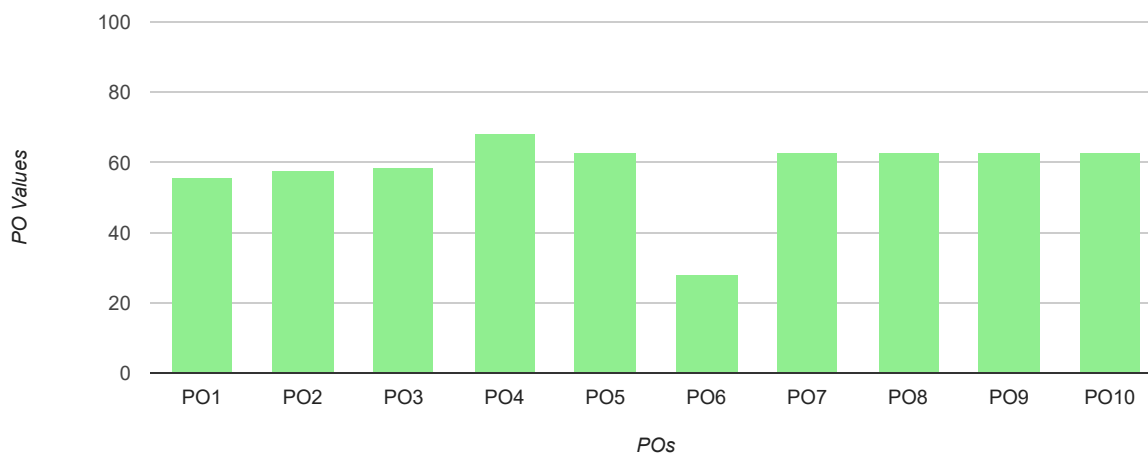
**Program: PG - MSc - M.Sc. Physics (Aided)**

**Program Outcome LIST**

PO CODE	PO DESCRIPTION
PO1	A thorough knowledge in the chosen discipline
PO2	An aptitude for research
PO3	An independent and individual way of thinking and communicating ideas
PO4	The ability to access and utilize knowledge and information for personal and general good
PO5	The discretion to engage in academic work with academic integrity
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PO8	Decision-making and reasoning ability to find solutions to ethical problems
PO9	A spirit of selfless service making him willing to serve the needy and the marginalized
PO10	A heightened awareness of environmental issues and necessity of solving them

**Program Outcome Attainment**

PROGRAM OUTCOME PERCENTAGE OF SONA K SANTHOSH										
PO CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
	55.87	57.78	58.36	68.36	62.98	27.89	62.98	62.98	62.98	62.98

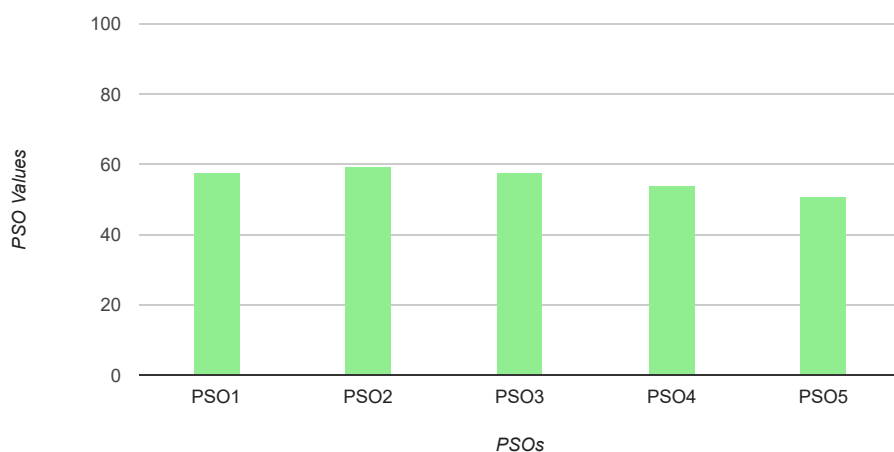


**Program Specific Outcome LIST**

PSO CODE	PSO DESCRIPTION
PSO1	Acquire theoretical, mathematical, and computational knowledge in Physics.
PSO2	Apply theoretical knowledge of principles and concepts of Physics to practical problems.
PSO3	Apply conceptual understanding and critical thinking of the Physics to general real-world situations.
PSO4	Gain research experience within some specific field of Physics through original scientific project works and develop skills to communicate Physics knowledge
PSO5	Develop an understanding of the use of Physics for the benefit of the society.

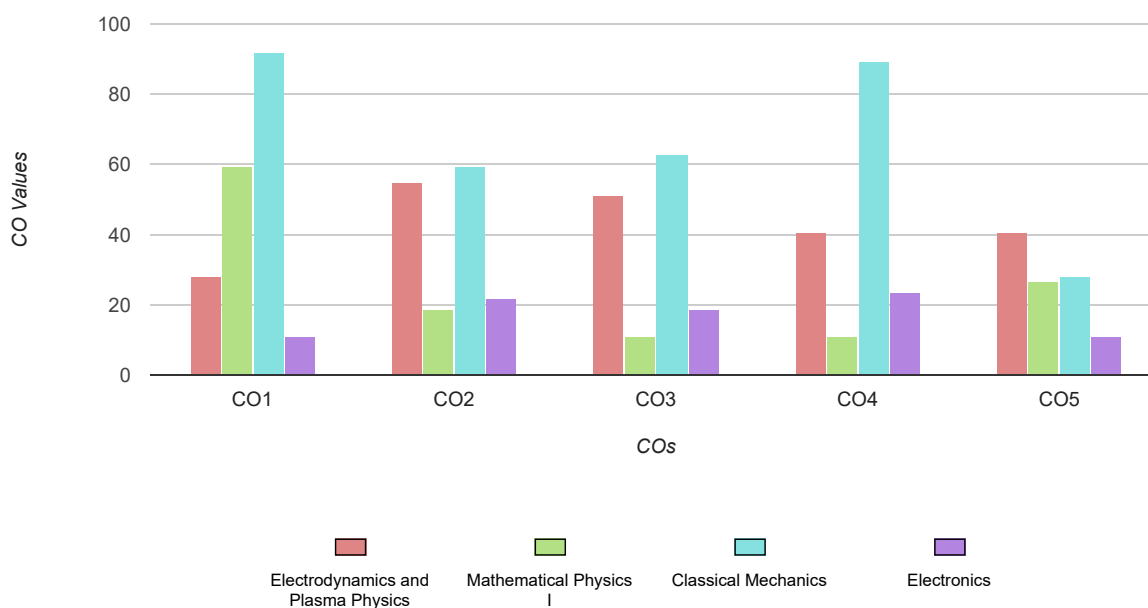
**Program Specific Outcome Attainment**

PROGRAM SPECIFIC OUTCOME PERCENTAGE OF SONA K SANTHOSH					
PSO CODE	PSO1	PSO2	PSO3	PSO4	PSO5
	57.53	59.51	57.87	54.03	50.77

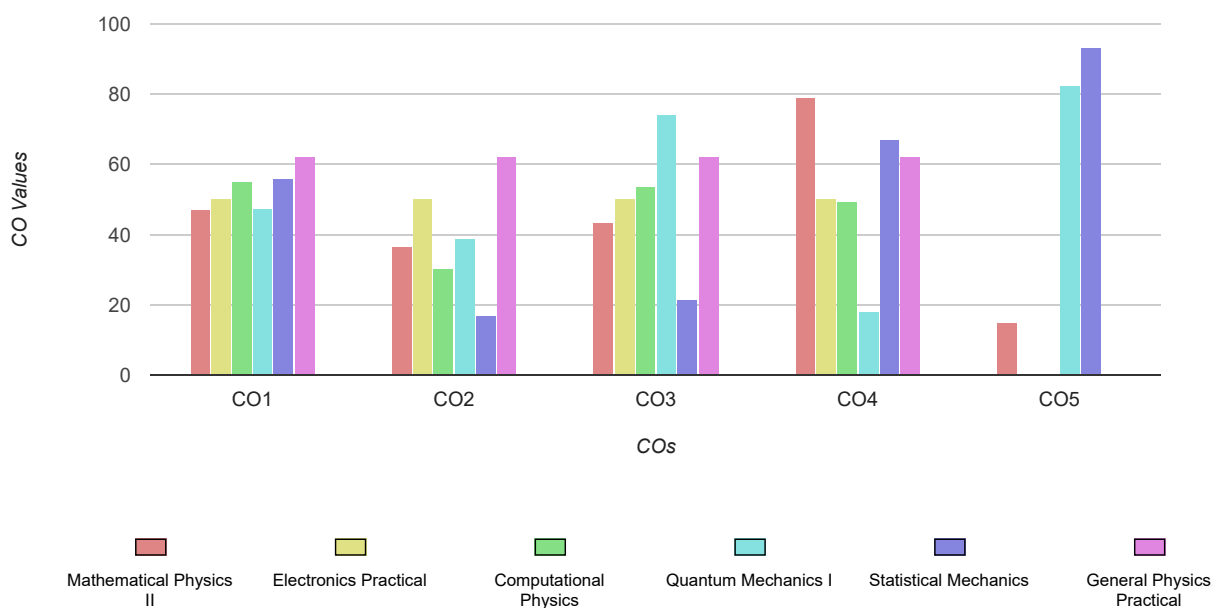




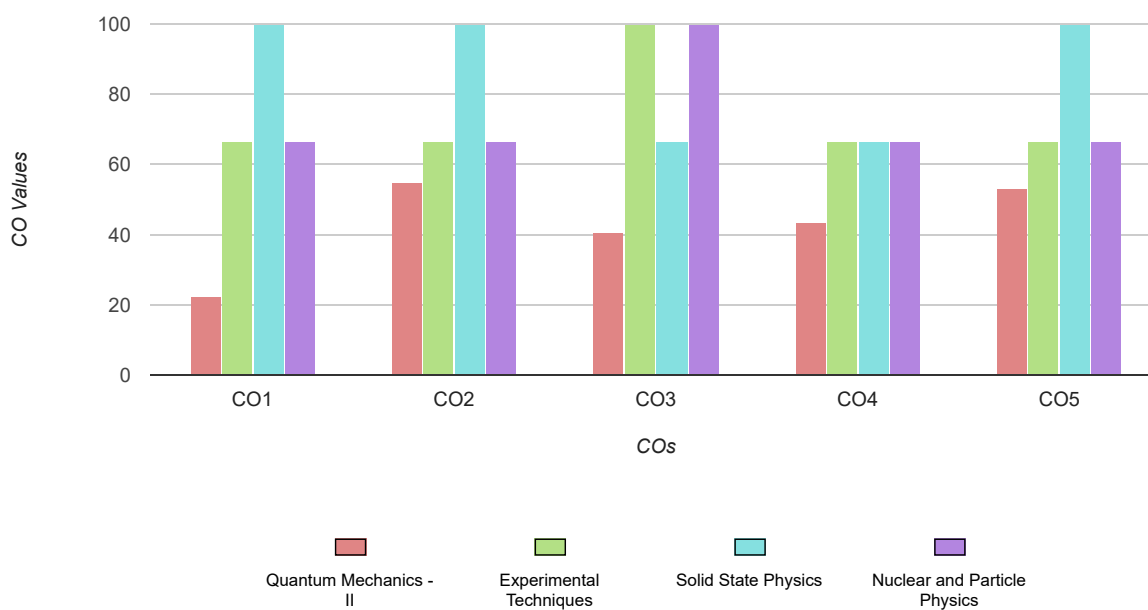
SEMESTER 1 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Electrodynamics and Plasma Physics	CC19PPHY1C03	28.05	54.82	51.09	40.85	40.85
Mathematical Physics I	CC19PPHY1C02	59.52	18.56	10.88	10.88	26.88
Classical Mechanics	CC19PPHY1C01	91.89	59.40	63.09	89.33	27.89
Electronics	CC19PPHY1C04	10.91	21.88	18.59	23.71	10.91



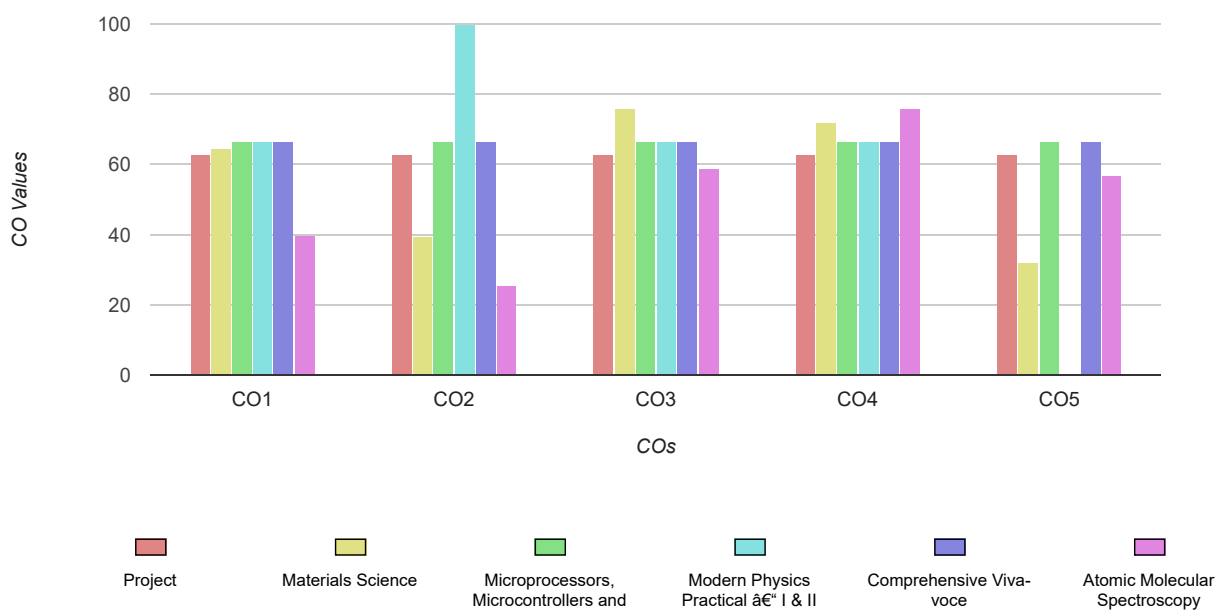
SEMESTER 2 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Mathematical Physics II	CC19PPHY2C06	47.20	36.53	43.64	79.20	15.20
Electronics Practical	CC19PPHY1L02 & CC19PPHY2L04	50.24	50.24	50.24	50.24	
Computational Physics	CC19PPHY2C08	55.42	30.40	53.60	49.60	
Quantum Mechanics I	CC19PPHY2C05	47.62	39.11	74.40	18.40	82.40
Statistical Mechanics	CC19PPHY2C07	56.27	17.16	21.60	66.93	93.60
General Physics Practical	CC19PPHY1L01 & CC19PPHY2L03	62.32	62.32	62.32	62.32	



SEMESTER 3 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Quantum Mechanics - II	CC19PPHY3C09	22.29	55.02	40.71	43.52	53.33
Experimental Techniques	CC19PPHY3E05	66.67	66.67	100.00	66.67	66.67
Solid State Physics	CC19PPHY3C11	100.00	100.00	66.67	66.67	100.00
Nuclear and Particle Physics	CC19PPHY3C10	66.67	66.67	100.00	66.67	66.67



SEMESTER 4 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Project	CC19PPHY4P01	62.98	62.98	62.98	62.98	62.98
Materials Science	CC19PPHY4E11	64.53	39.47	76.00	72.00	32.00
Microprocessors, Microcontrollers and Applications	CC19PPHY4E20	66.67	66.67	66.67	66.67	66.67
Modern Physics Practical " I & II	CC19PPHY3L05 & CC19PPHY4L06	66.67	100.00	66.67	66.67	
Comprehensive Viva-voce	CC19PPHY4V01	66.60	66.60	66.60	66.60	66.60
Atomic Molecular Spectroscopy	CC19PPHY4C12	40.00	25.80	59.00	76.00	56.86





**CHRIST COLLEGE (AUTONOMOUS)  
IRINJALAKUDA.Kerala-680125  
Reaccredited by NAAC with 'A++' grade**



**OBE CARD**

<b>Department:</b>	PHYSICS
<b>Program:</b>	PG - MSC - M.Sc. Physics (Aided)
<b>Batch:</b>	MSC PHY 2022

<b>Name:</b>	SREELAKSHMI . S
<b>Register No:</b>	CCAWMPH015
<b>Admission No:</b>	11471
<b>Entry Year:</b>	2022
<b>Exit Year:</b>	2024

This report provides the evidence of OBE implementation in CHRIST COLLEGE (AUTONOMOUS), and the measurement of both direct and indirect assessment of students during the academic year 2022-2024

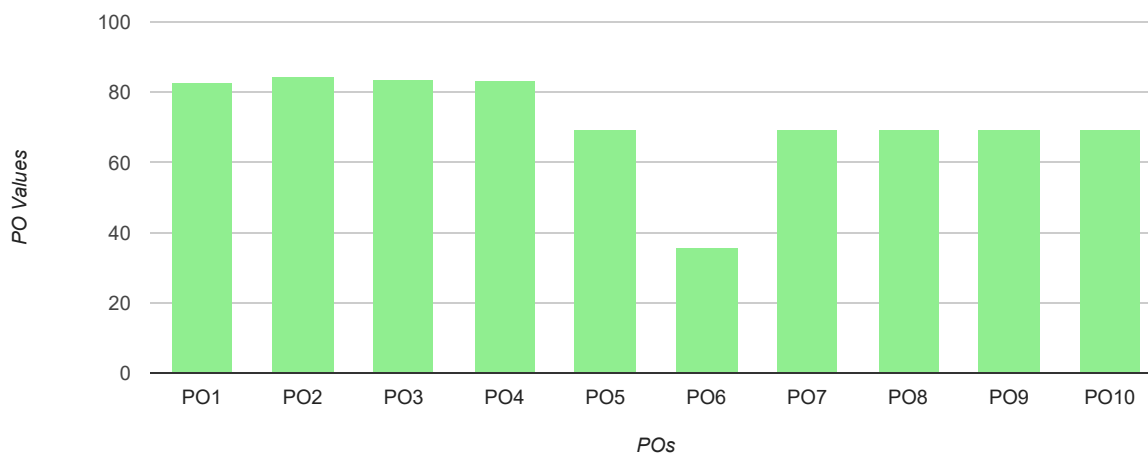
**Program: PG - MSc - M.Sc. Physics (Aided)**

**Program Outcome LIST**

PO CODE	PO DESCRIPTION
PO1	A thorough knowledge in the chosen discipline
PO2	An aptitude for research
PO3	An independent and individual way of thinking and communicating ideas
PO4	The ability to access and utilize knowledge and information for personal and general good
PO5	The discretion to engage in academic work with academic integrity
PO6	The know how to function in multidisciplinary domains
PO7	A global perspective, facilitating appropriate interaction with people from various cultural, linguistic and religious backgrounds
PO8	Decision-making and reasoning ability to find solutions to ethical problems
PO9	A spirit of selfless service making him willing to serve the needy and the marginalized
PO10	A heightened awareness of environmental issues and necessity of solving them

**Program Outcome Attainment**

PROGRAM OUTCOME PERCENTAGE OF SREELAKSHMI . S										
PO CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
	82.84	84.69	83.81	83.42	69.38	35.74	69.38	69.38	69.38	69.38

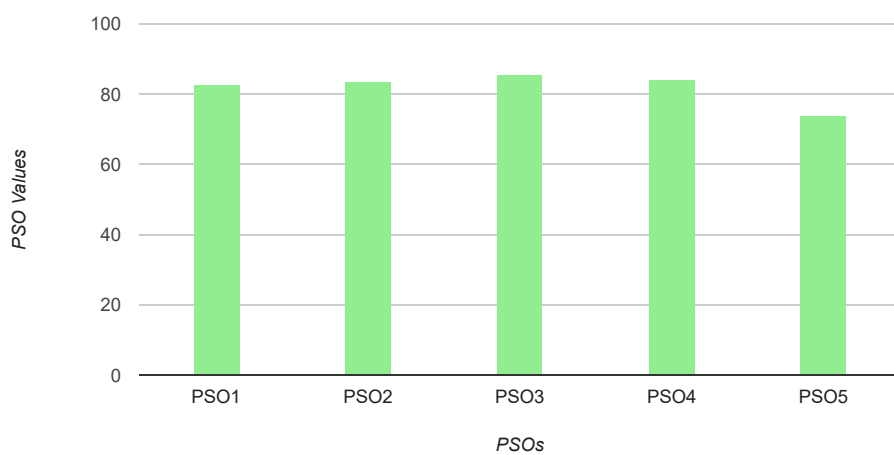


### Program Specific Outcome LIST

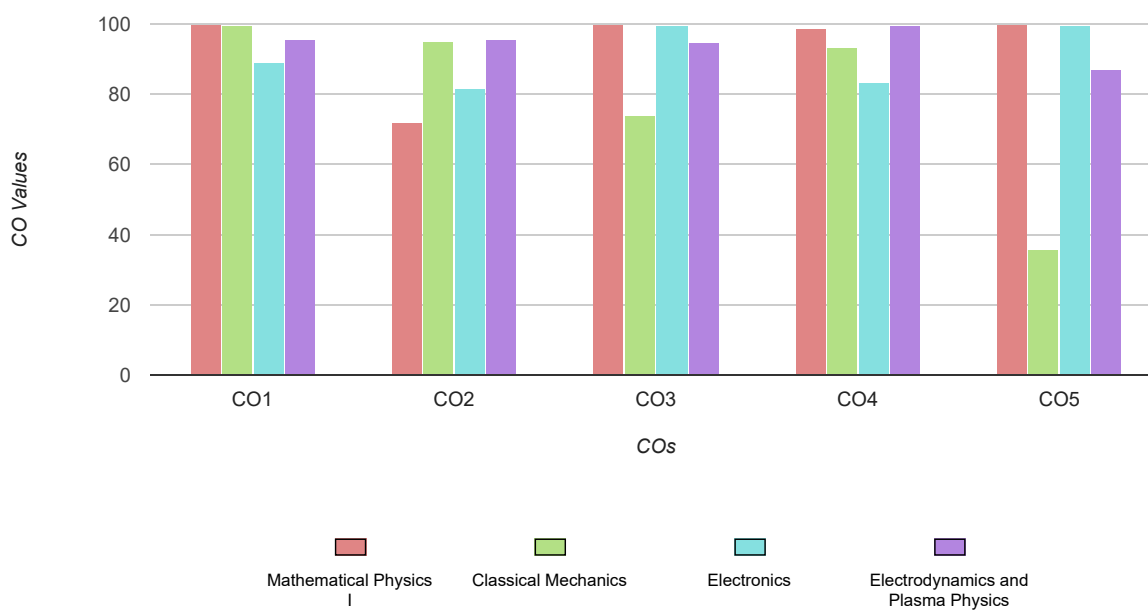
PSO CODE	PSO DESCRIPTION
PSO1	Acquire theoretical, mathematical, and computational knowledge in Physics.
PSO2	Apply theoretical knowledge of principles and concepts of Physics to practical problems.
PSO3	Apply conceptual understanding and critical thinking of the Physics to general real-world situations.
PSO4	Gain research experience within some specific field of Physics through original scientific project works and develop skills to communicate Physics knowledge
PSO5	Develop an understanding of the use of Physics for the benefit of the society.

### Program Specific Outcome Attainment

PROGRAM SPECIFIC OUTCOME PERCENTAGE OF SREELAKSHMI . S					
PSO CODE	PSO1	PSO2	PSO3	PSO4	PSO5
	82.95	83.90	85.84	84.19	74.01

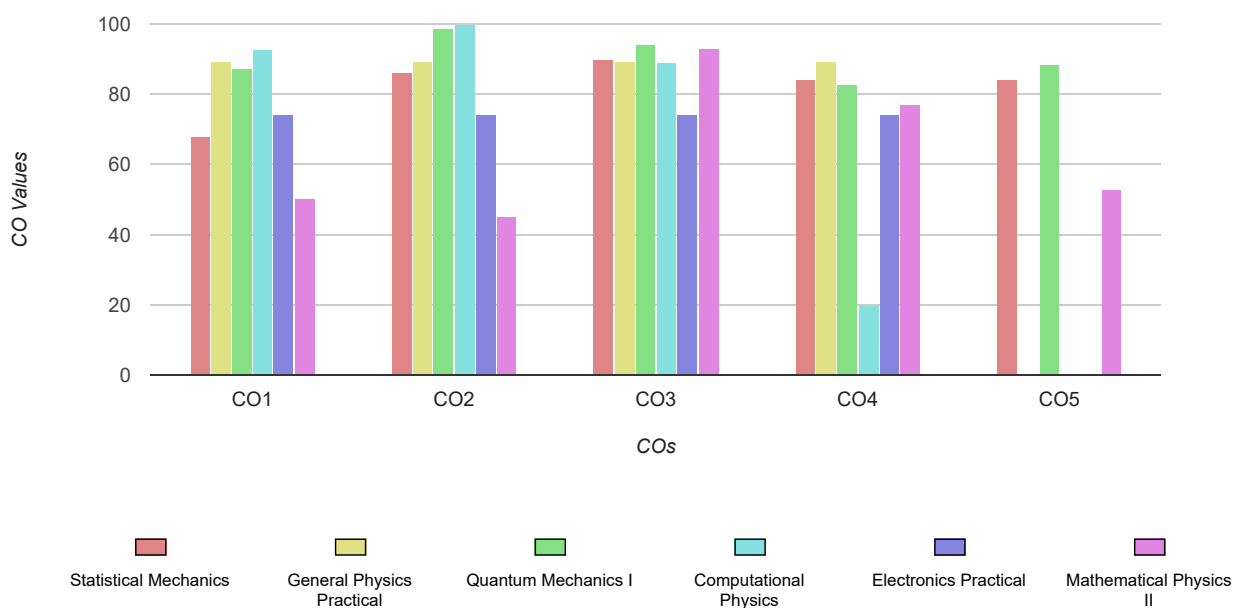


SEMESTER 1 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Mathematical Physics I	CC19PPHY1C02	100.00	71.84	100.00	98.58	100.00
Classical Mechanics	CC19PPHY1C01	99.74	94.94	74.14	93.34	35.74
Electronics	CC19PPHY1C04	89.22	81.54	99.46	83.46	99.46
Electrodynamics and Plasma Physics	CC19PPHY1C03	95.41	95.41	94.56	99.68	86.88

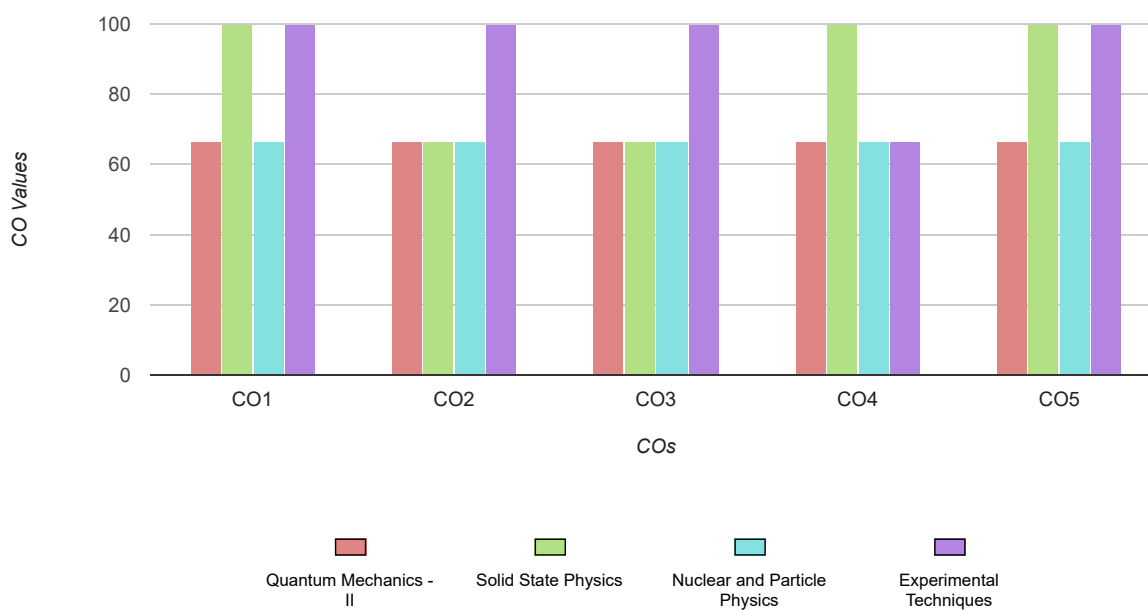




SEMESTER 2 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Statistical Mechanics	CC19PPHY2C07	68.00	86.00	90.00	84.00	84.00
General Physics Practical	CC19PPHY1L01 & CC19PPHY2L03	89.28	89.28	89.28	89.28	
Quantum Mechanics I	CC19PPHY2C05	87.51	98.80	94.23	82.80	88.80
Computational Physics	CC19PPHY2C08	92.73	100.00	89.00	20.00	
Electronics Practical	CC19PPHY1L02 & CC19PPHY2L04	74.50	74.50	74.50	74.50	
Mathematical Physics II	CC19PPHY2C06	50.40	45.07	93.07	77.07	52.69



SEMESTER 3 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Quantum Mechanics - II	CC19PPHY3C09	66.67	66.67	66.67	66.67	66.67
Solid State Physics	CC19PPHY3C11	100.00	66.67	66.67	100.00	100.00
Nuclear and Particle Physics	CC19PPHY3C10	66.67	66.67	66.67	66.67	66.67
Experimental Techniques	CC19PPHY3E05	100.00	100.00	100.00	66.67	100.00



SEMESTER 4 - COURSE WISE COURSE OUTCOME PERCENTAGE						
Course Name	Course Code	CO1	CO2	CO3	CO4	CO5
Comprehensive Viva-voce	CC19PPHY4V01	80.00	80.00	80.00	80.00	80.00
Project	CC19PPHY4P01	69.38	69.38	69.38	69.38	69.38
Materials Science	CC19PPHY4E11	100.00	100.00	100.00	100.00	100.00
Microprocessors, Microcontrollers and Applications	CC19PPHY4E20	100.00	100.00	100.00	100.00	100.00
Modern Physics Practical " I & II	CC19PPHY3L05 & CC19PPHY4L06	100.00	100.00	100.00	100.00	
Atomic Molecular Spectroscopy	CC19PPHY4C12	92.00	82.40	65.60	88.89	98.40

